

**FINAL
GROUNDWATER REPORT
AREA IV RADIOLOGICAL STUDY
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

**EPA Contract Number: EP-S7-05-05
Task Order Number: 0038**

Prepared for:



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

July 24, 2012

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**U.S. Environmental Protection Agency, Region 9
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EXECUTIVE SUMMARY

The U.S. Environmental Protection Agency was tasked to conduct two phases of groundwater sampling events from wells located in Energy Technology Engineering Center Area IV, the Northern Buffer Zone, and at off-site locations. The two groundwater sampling events represented a dry (summer) period and a wet (winter) period. Phase I sampling was performed in August and September 2010. Phase II sampling was performed in March and April 2011.

The primary project objective of the Phase I and Phase II groundwater sampling events was to provide data to characterize groundwater radiological conditions and compare results to recent Boeing Company environmental data collected within the Area IV Study Area.

During both sampling events groundwater samples were collected from wells screened in the near surface (shallow) aquifer and wells screened in the deep aquifer within the fractured bedrock. The total depth of the wells sampled ranged from 8.5 to 700 feet below ground surface. Wells screened in the shallow aquifer typically have ten feet of screen. Wells screened within the deep aquifer are typically open-hole and do not contain a well casing screen. The open-hole interval ranged from 1 foot to 618 feet in length. Ten Flexible Liner Underground Technologies™ multi-level wells were also sampled.

Three sampling methods were utilized during the sampling events; low-flow, well volume approach, and multi-level wells. Bladder pumps were used to perform low-flow sampling which was conducted in shallow wells with short screens (10 feet or less in length) and water column lengths equal to or greater than 3 feet. The well volume sampling approach was used to sample the deep open-hole wells which contained dedicated pumps. Flexible Liner Underground Technologies™ multi-level wells were sampled but only one port from each location was selected for sampling.

Two sets of radionuclides of concern were established for the sampling event: Priority 1 and Priority 2 analytes. Priority 1 analyses were performed on all groundwater samples. Priority 2 analyses (in addition to Priority 1 analyses) were performed on a select number of groundwater samples.

Priority 1 analyses consisted of gamma spec, gross alpha, gross beta, strontium-90, tritium, and isotopic uranium. Priority 2 analyses consisted of americium-241, carbon-14, curium-243, curium-244, curium-245, curium-246, iodine-129, neptunium-237, plutonium-238, plutonium-239, plutonium-240, plutonium-242, radium-226 and technetium-99.

The analytical results from both phases of sampling identified gross beta, uranium-233/234, uranium-238, strontium-90, and tritium at concentrations exceeding the maximum contaminant levels. The gross alpha, gross beta, uranium-233/234, and uranium-238 concentrations appear to be attributed to suspended solids; thus, do not reflect actual exceedances of the maximum contaminant levels. Strontium-90 was detected at concentrations exceeding the maximum contaminant level in the groundwater sample collected from well RD-98 immediately downgradient of the Radioactive Material Handling Facility and in the vicinity of a former

septic tank system. Tritium was detected at concentrations exceeding the maximum contaminant level in three wells immediately north of the former Building 4010. In general, recently collected Boeing Company groundwater data correlated closely to the U.S. Environmental Protection Agency data with a few minor exceptions relating to gross alpha and gross beta analyses, and method uncertainty.

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LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|-------------|---|
| Ag PRG | agricultural preliminary remediation goal |
| Am | americium |
| Ba | barium |
| bgs | below ground surface |
| Blaine Tech | Blaine Technologies |
| BL Hall | BL Hall Incorporated |
| C | carbon |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| Cm | curium |
| Co | cobalt |
| Cs | cesium |
| DO | dissolved oxygen |
| DOE | Department of Energy |
| EC | electrical conductivity |
| ETEC | Energy Technology Engineering Center |
| FLUTE™ | Flexible Liner Underground Technologies |
| FSP | Field Sampling Plan |
| H-3 | tritium |
| HGL | HydroGeoLogic, Inc. |
| HSA | Historical Site Assessment |
| I | iodine |
| IDW | investigation-derived waste |
| keV | kilo electron volt |
| MCL | maximum contaminant level |
| MDC | minimum detectable concentration |
| mL/min | milliliter per minute |
| mrem/y | millirems per year |
| MWH | Montgomery Watson Harza |
| Na | sodium |
| NASA | National Aeronautics and Space Administration |

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

| | |
|------------------|---|
| NBZ | Northern Buffer Zone |
| Np | neptunium |
| NTU | nephelometric turbidity unit |
| ORP | oxidation reduction potential |
| pCi/L | picocuries per liter |
| PPE | personal protective equipment |
| Pu | plutonium |
| QA | quality assurance |
| QAPP | Quality Assurance Project Plan |
| QC | quality control |
| Ra | radium |
| RMHF | Radioactive Materials Handling Facility |
| ROC | radionuclides of concern |
| SOP | standard operating procedure |
| Sr | strontium |
| SSFL | Santa Susana Field Laboratory |
| TAL | TestAmerica Laboratories |
| Tc | technetium |
| TPU | total propagated uncertainty |
| U | uranium |
| USEPA | U.S. Environmental Protection Agency |
| Z _{DUP} | duplicate Z-score comparison |

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1.0 INTRODUCTION

HydroGeoLogic, Inc. (HGL) was tasked by the U.S. Environmental Protection Agency (USEPA) to conduct an extensive radiological characterization study of the Santa Susana Field Laboratory (SSFL) at Area IV and the Northern Buffer Zone (NBZ) located in Ventura County, California. The work was executed under the USEPA Region 7 Architect and Engineering Services Contract EP-S7-05-05, Task Order 038, Amendment 4. The technical lead on the project is USEPA Region 9.

All field activities were performed in accordance with the Final Phase I Field Sampling Plan (FSP) for Groundwater, Surface Water, and Sediment (HGL, 2010a), the Phase II Groundwater Sampling Addendum to the Phase I FSP for Groundwater, Surface Water, and Sediment (HGL, 2011a), the Quality Assurance Project Plan (QAPP) for Groundwater, Surface Water, and Sediment (HGL, 2010b), the Laboratory-Specific QAPP Addendum, TestAmerica Laboratories (TAL)-Saint Louis, Phase I Groundwater Sampling Event (HGL, 2010c), and the Site Safety and Health Plan (HGL, 2011b).

1.1 PURPOSE

The purpose of this report is to document the activities and analytical results for Phase I and Phase II groundwater sampling events performed at SSFL within Area IV, the NBZ, and select offsite wells, hereafter collectively referred to as the Area IV Study Area. The location of the Area IV Study Area is illustrated on Figure 1.1. The location of the onsite wells located within Area IV and the NBZ are presented in Figure 1.2. The select offsite wells that were sampled as part of the Phase II sampling event are presented in Figure 1.3

1.2 OBJECTIVES

The primary project objective of the Phase I and Phase II groundwater sampling events was to provide data to characterize groundwater radiological conditions and compare results to recent Boeing Company environmental data collected within the Area IV Study Area. To accomplish this objective, groundwater samples were collected from the shallow and deep aquifers present in the Area IV Study Area. The sampling and analysis of groundwater collected from these wells provide the following:

- High quality data for comparison to data reported by others;
- Data on radionuclides not previously assessed, and;
- Data for areas that may require additional assessment.

The data collected during the Phase I and Phase II groundwater sampling events are not intended to be comprehensive but to represent groundwater radionuclide concentrations during fall of 2010 (dry season) and spring 2011 (wet season).

1.3 SCOPE OF WORK

The scope of work presented in the Task Order Proposal submitted by HGL under Contract Number EP-S7-05-05, Task Order 038, Amendment 4 (HGL, 2012a) was refined to include the following Phase I and Phase II activities:

- Conduct two groundwater sampling events; a dry season event (Phase I) and a wet season event (Phase II).
- During the Phase I event, collect groundwater samples from available wells within Area IV and the NBZ.
- During the Phase II event, collect groundwater samples from available wells within Area IV, the NBZ, and select offsite wells.
- Prepare a final Groundwater Sampling Report that documents the sampling activities and results of the Phase I and II sampling events.

1.4 ORGANIZATION OF THE GROUNDWATER REPORT

This report consists of summary tables presenting the water level measurements, radionuclides of concern (ROC) analyte list, monitoring well construction, water quality parameter readings during sampling, and analytical data; groundwater elevation maps; figures presenting detections of ROCs; an evaluation and discussion of the results; and observations and recommendations as appropriate. This report is organized into seven sections:

- Section 1.0 Introduction. Provides an overview of the report structure and a brief overview of the site history obtained from documents describing previous investigations.
- Section 2.0 Site Background. Provides a description of the physical attributes of the SSFL site.
- Section 3.0 Groundwater Sampling Program. Describes an overview of the sampling approach, water level measurements that were collected as part of the field investigation, groundwater sampling activities, and investigation-derived waste (IDW) management.
- Section 4.0 Quality Assurance (QA)/Quality Control (QC) Program. Presents the Z-score analysis of the equipment blanks and field duplicates collected during the Phase I and II sampling events. The Z-score is calculated for each analyte pair to evaluate the significance of the difference between the two results. The method used to conduct the Z-score analysis is presented in Section 3.8 of the QAPP (HGL, 2010b)
- Section 5.0 Summary of Groundwater Results. Presents the analytical results for the samples collected during the Phase I and Phase II Groundwater Sampling Events. Comparisons to available federal and state maximum contaminant levels (MCL) for drinking water are also presented.

- Section 6.0 Summary and Conclusions
- Section 7.0 References. Lists the documents cited during preparation of this report.
- Tables and Figures are provided in separate tabbed sections.
- The Appendices provide supporting technical information derived from field activities. Field sampling data sheets, gauging event data sheets, Phase I and Phase II analytical data, and chain of custodies are included.

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2.0 SITE BACKGROUND

This section describes the physical attributes of the SSFL site and provides a brief overview of the site history obtained from documents describing previous investigations.

2.1 SITE LOCATION AND DESCRIPTION

The SSFL is located in southeastern Ventura County, California, near Simi Valley (Figure 1.1). 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 located near the southern, northern, and eastern boundaries of the site.

2.2 SITE HISTORY

The SSFL is separated into four administrative areas (Areas I – IV). The Boeing Company 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 The Boeing Company; and The Boeing Company owns and operates Areas III and IV. Areas I, II, and III were used by predecessors of The Boeing Company, NASA, and the Department of Defense for rocket engine and laser testing. Chemical contamination resulting from those activities is the responsibility of The Boeing Company and NASA and is not part of the scope of this project. The Area IV Study Area is comprised of 471 acres (approximately 290 acres in Area IV and 181 acres in the NBZ).

Until its closure, the Department of Energy (DOE) was responsible for operation of the Energy Technology Engineering Center (ETEC) located within Area IV and used by DOE 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 Material Handling Facility (RMHF), 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 The Boeing Company.

2.3 PHYSICAL SITE SETTING

The physical setting of the site in terms of localized topography, earth materials, and hydrogeological setting are discussed in the following subsections.

2.3.1 Topography and Drainage

The SSFL is located on a ridge within the Transverse Ranges physiographic province. The facility is about 850 feet above the valleys to the north and south. While the laboratories and other facilities within Area IV are generally located on relatively flat ground, local relief can be up to 600 feet. In the Area IV Study Area, the highest elevation (2,150 feet above mean sea level) is along the southern boundary (Figure 2.1). Along the northwest boundary, the land slopes steeply away to undeveloped land. The relatively flat area in the southern part of Area IV is called “Burro Flats.”

Surface water drainage in the northern portion of the Area IV Study Area flows north into Meier Canyon and north-northwest into Runkle Canyon, which are tributaries to the Arroyo Simi, flowing westward and terminating in the Pacific Ocean. Drainage of the majority of Area IV leads to the southeast into the Bell Creek drainage system as suggested by the location of the northeast-southwest trending drainage divides on Figure 2.1. Bell Creek is the headwater and tributary of the Los Angeles River, which flows south and eastward terminating in the Pacific Ocean. Given the topographic divide and topographical rises to the east and west of Area IV, there is no drainage directly to the west or east from Area IV (U.S. Geological Survey, 1952). The northern portion of Area IV drains generally to the north into the NBZ, which itself drains generally to the north.

Surface drainage within the Area IV Study Area is through man-made and natural ditches and swales that lead to natural streambeds. The drainage from some operational areas is directed through various settling and process ponds. The locations of surface drainage features are presented on Figure 2.1.

2.3.2 Soils

The parent material of the soil in the Area IV Study Area consists of weathered bedrock, colluviums and alluvium derived from the Chatsworth Formation. According to the Natural Resources Conservation Service, approximately 40 percent of the Area IV Study Area is classified as sedimentary rock outcrop. The two predominant soil types in Area IV are a sandy loam of the Saugus series and a loam of the Zamora series. The Saugus series soils consist of deep, well drained soils that usually form on dissected terraces and foothills and are moderately permeable. The sandy loam of the Saugus series usually has slopes of 5 to 30 percent. The Zamora series soils are typically well drained loam that forms on nearly level grade or on strongly sloping fans and terraces. The Zamora series in Area IV has slopes that range from 2 to 15 percent (U. S. Department of Agriculture, 2003).

2.3.3 Geology

The SSFL is located within the Transverse Ranges physiographic province, approximately 30 miles north of downtown Los Angeles (Bailey 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 percent of Area IV. The descriptions in the following sections are derived from the Preliminary Geologic

Map of the Los Angeles 30 feet by 60 feet Quadrangle, Southern California (Yerkes and Campbell, 2005). A geologic map of the area is presented as Figure 2.2.

2.3.3.1 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. Turbidity currents cause massive submarine landslides from the continental shelf into submarine canyons, which are generally more than a 1/2 mile wide and greater than 10 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 era, the Chatsworth Formation is in excess of 6,000 feet thick. The uppermost member is a thick strata of light gray to brown sandstone, which is hard, coherent, arkosic, micaceous, and 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.

2.3.3.2 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 (Figure 2.2) 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.

2.3.3.3 Geologic Structures at the Santa Susana Field Laboratory

The SSFL is located on the south flank of an approximately east-west striking, westward plunging syncline. There are three categories of geologic structures present in the SSFL faults/fault zones, deformation bands, and structures (Montgomery Watson Harza [MWH], 2007). The fault zones and deformation features displace primary geologic features, the former showing displacement of at least 5 feet and the later with minimal observed displacement (less than 6 inches). Mapped faults in the SSFL are presented on Figure 2.2. The Burro Flats Fault places the Chatsworth Formation in structural contact with the Santa Susana Formation in the southwest portion of the Area IV Study Area.

2.4 HYDROGEOLOGY

The groundwater system in the vicinity of SSFL is recharged by precipitation. Recharge occurs throughout the Simi Hills and rates vary with the type of geologic material, local topography, vegetation, and precipitation. The elevation of groundwater at the SSFL is up to 900 feet higher than the groundwater levels in the surrounding alluvial valleys (Simi and San Fernando valleys), suggesting that groundwater flows from the higher elevations toward the topographically lower areas.

In the Area IV Study Area, groundwater occurs in the overburden and weathered bedrock and in consolidated bedrock. Historical documents commonly refer to the saturated overburden as near-surface groundwater. Groundwater that occurs in the fractured Chatsworth Formation is referred to as the Chatsworth Formation groundwater. Numerous monitoring wells are located in Area IV. Approximately 46 of these wells are screened in the near-surface groundwater, with depth-to-water occurring from 5 feet to 50 feet below ground surface (bgs). Approximately 52 wells are screened in the deeper Chatsworth Formation groundwater, with depth-to-water ranging from approximately 16 feet to 320 feet bgs. Of the 98 monitoring wells in the Area IV Study Area, seven shallow wells and four deep wells were removed from the Phase I and Phase II sampling events because they were damaged, capped or abandoned. In some areas of the SSFL the groundwater in the overburden is perched, and in other areas groundwater within the overburden is in direct communication with groundwater in the Chatsworth Formation.

Groundwater flow at SSFL has been the subject of numerous studies by The Boeing Company and the DOE. MWH discusses results of recent flow characterization efforts including horizontal and vertical flow (MWH, 2009). A groundwater divide occurs near the center of the Area IV Study Area (Figure 2.1). Downward and upward vertical gradients have been reported at SSFL. Groundwater flow through fractures in the hydrogeologic units at SSFL is also discussed in the Draft Site-Wide Groundwater Remedial Investigation Report (MWH, 2009). The hydrogeologic investigation and agreement concerning the conceptual model is ongoing.

2.5 HYDROLOGY

The mean annual rainfall from 1960 to 2008, as measured at a U.S. weather station located in the northeastern part of the SSFL, averaged 18.5 inches per year with a record low of 6.15 inches in 2007 and a record high of 41.24 inches in 1998 (MWH, 2009). Although normally in the form of rain, precipitation at SSFL can also be in the form of snow during the winter months. The majority of annual precipitation falls between the months of November and March (wet season). The locations of surface drainage features are presented on Figure 2.1.

3.0 GROUNDWATER SAMPLING PROGRAM

Groundwater sampling activities conducted during the Phase I and Phase II groundwater sampling program included measurement of groundwater elevations and collecting and analyzing groundwater samples. A discussion of the radionuclides that were analyzed and the sampling activities conducted during the Phase I and Phase II sampling events is presented in this section.

3.1 GROUNDWATER SAMPLE ANALYSES

3.1.1 Radionuclides of Concern

As part of the Final Sampling and Analysis Plan for the Radiological Background Study, Santa Susana Field Laboratory (HGL, 2009), the USEPA developed a list of ROCs for laboratory analyses of soil. The list of ROCs was developed evaluating available historical information including: information from the DOE Hanford Site in Richland, Washington (Washington State Department of Health, 1996), State of California Department of Public Health suggestions, and a document commissioned by DOE titled “Radionuclides Related to Historical Operations at the Santa Susana Field Laboratory Area IV” (Rucker, 2009). Findings of the Historical Site Assessment (HSA) (HGL, 2012b), that were not available at the time of FSP finalization, were not considered. The ROC list was refined in consideration of the following criteria which were reviewed by SSFL Technical Stakeholder Group on March 23, 2009:

- The radionuclide was used or produced at SSFL.
- The physical state of the radionuclide was not a gas. An exception to this criterion is if the radionuclide is a gas and its parent was not removed from the list, then it would not be proposed for removal from the ROC list.
- The radionuclide has a half-life greater than 1 year. An exception to this criterion is if the radionuclide has a half-life of less than 1 year and its parent was not removed from the list, then it would not be proposed for removal from the ROC list.
- The SSFL Technical Stakeholder Group elected to retain a specific radionuclide on the list of ROCs.

Groundwater samples were analyzed for a targeted list of ROCs, selected from the complete list of soil ROCs. This approach was selected because it provided the data necessary to meet the data quality objectives of the project while optimizing costs. The approach described below was applied during selection of the targeted list of groundwater ROCs. In order to achieve a cost/benefit balance two sets of ROCs were established (Priority 1 and Priority 2 analytes). Priority 1 analyses were performed on all groundwater samples. To optimize costs, Priority 2 analyses (in addition to Priority 1 analysis) were performed on a select number of groundwater samples.

Table 3.1 summarizes the Radionuclides that were selected for analyses during the Phase I and II sampling events. Tables 3.4 and 3.5 list the wells sampled for the Priority 2 analytes for

Phase I and Phase II sampling events, respectively. The following subsections describe the prioritization of analytes for groundwater sampling.

3.1.1.1 Priority 1 and 2 Groundwater Radionuclides

Priority 1 analytes provide the most direct benefit to the project dataset relative to the cost to obtain the data. The following radionuclides were selected for Priority 1 groundwater analysis.

- Tritium was selected because it is a specific ROC, and has been detected onsite in previous investigations.
- Strontium-90 was selected because it has been detected onsite in previous investigations.
- Gamma spectroscopy analytes are included in the Priority 1 list because a large number of ROCs at SSFL were analyzed non-destructively at low cost.
- Uranium isotopes were selected because they have been previously reported in SSFL soil and water samples.
- Gross alpha and beta radiation analyses were selected because they can be used as a screening tool to indicate the presence of radionuclides other than those specifically tested.

The Priority 1 list includes specific gamma spectroscopy analytes of interest such as cesium (Cs)-134, Cs-137, and cobalt (Co)-60, which have been reported in water. The Priority 1 list also contains certain gamma emitting radioisotopes that have not been previously detected in SSFL water samples. This group of analytes is included because they may be detected and reported through cost-effective gamma spectroscopy.

Priority 2 radionuclides represent potentially important analytes that, because of cost, were only analyzed for a limited number of groundwater samples for the Phase I and Phase II work. These analytes are:

| Priority 2 Groundwater Radionuclides | |
|---|--------------------|
| carbon (C)-14 | technetium (Tc)-99 |
| iodine (I)-129 | radium (Ra)-226 |
| neptunium (Np)-237 | plutonium (Pu)-238 |
| Pu-239 | Pu-240 |
| Pu-242 | americium (Am)-241 |
| curium (Cm)-243 | Cm-244 |
| Cm-245 | Cm-246 |

These isotopes were selected based on a combined consideration of health risks, mobility in water, and the total information gained or inferred from the analysis. Tc-99, I-129 and Np-237 are relatively mobile but are not the highest priorities. The isotopes Pu-238, Pu-239, Pu-240, Pu-242 are generally highly immobile. Americium-241 was previously reported in groundwater at SSFL and was retained in the Priority 2 list together with the Cm radionuclides which are analyzed together with Am-241. Radium-226 is a naturally occurring radioisotope that has a relatively high health risk and has been detected onsite.

3.1.1.2 Analytical Priority Based on Available Sample Volume

Although a priority list of radionuclides was developed, each well did not contain a sufficient volume of water for all analyses to be performed. Therefore, an additional analysis priority list was established as listed below. If the volume of water that could be collected was limited, the laboratory was instructed to subsample the gamma spectroscopy volume for analysis of the remaining analytes where practical.

The following list specifies the order in which sample volumes were collected for analysis:

- tritium (H-3)
- Gamma spectroscopy analytes (with one exception for Sr-90, see below)
- Uranium (U) isotopes
- Sr-90 (this radionuclide was given second priority at well RD-98 where it has been reported before)
- Gross alpha and beta radiation
- Priority 2 analyses in the following sets:
 - Am-241, Cm-243, Cu-244, Cm-245, Cm-246
 - Pu-238, Pu-239, Pu-240, Pu-242
 - Np-237
 - Ra-226
 - I-129
 - Tc-99
 - C-14

Note that the Priority 2 analytes were analyzed only at a few select wells. These wells are listed in Tables 3.4 and 3.5.

3.1.1.3 Additional Sample Volume for Laboratory Quality Control

The project laboratory selected to support the Phase I and Phase II Groundwater Sampling events was the TAL facility located in Earth City, Missouri. After reviewing the sampling program, TAL requested that extra sample volume be submitted on a regular basis to allow the laboratory to perform site-specific QC analyses in preparation and analysis batches. HGL collected and submitted an extra volume at a minimum frequency of one sample per 20 locations to ensure that TAL had sufficient volume to perform laboratory duplicate analyses. HGL indicated on the chain-of-custody form that an extra volume was being provided. Matrix spiking uses a radioactive or stable isotope tracer as a means to determine chemical recovery of

the method. Matrix spiking of gross alpha, gross beta, H-3, and C-14 required the collection of extra sample volumes. Thus, in addition to the lab-requested volume, HGL also collected and submitted sufficient extra volume at a minimum frequency of one sample location per 20 to perform matrix spike analyses.

3.1.1.4 Action Levels and Minimum Detectable Concentrations

The data quality objectives are discussed in detail in the project QAPP (HGL, 2010b). Agricultural preliminary remediation goals (AgPRGs) were not established for groundwater. Instead the action level was set at the MCL where an MCL in drinking water has been promulgated for an ROC.

The minimum detectable concentration (MDC) action levels for the ROCs listed in Table 3.1 of the Laboratory-Specific QAPP Addendum (HGL, 2010c) were also required to meet the following criteria:

- The required relative method uncertainty for each ROC must be no more than 10 percent, when the measured activity is at or above the action level.
- For sample activity less than the action level, the required absolute method uncertainty is not to exceed 10 percent of the action level.
- In cases where the ROC action levels are below the quantification capabilities of available analytical technology, the laboratory was required to propose alternate activity levels at which the requirements for the relative and absolute uncertainties can be achieved.
- Alternate activity levels, which may be considered practical limits to the action levels, must be approved by USEPA before acceptance.

3.1.1.5 Analysis of Total Activity and Activity of Filtered Water Samples

In accordance with the Phase I FSP (HGL, 2010a) water samples were not filtered or preserved in the field. All water samples collected were passed through a 0.45 micron filter at the laboratory and preserved. Preservation of the samples were completed within 48 hours of sample collection. Both the activity of the filtered water and the activity of the residue collected on the filter were measured. The activity of the filter residue was converted to a volumetric activity. Total activity was derived through summation of the filtered water activity and the activity of the filter residue. The groundwater, surface water, and sediment sampling QAPP for this project (HGL, 2010b) describes the laboratory procedures in detail.

It should be noted that the Phase I tritium results are reported as the filtered fraction of the sample and the Phase II results are reported as the total. The SSFL Scope of Work for Analytical Services Support specifies that tritium analysis in water samples is to be performed on unfiltered, unpreserved aliquants. This is related to the physical properties of hydrogen, which may cause the filtered fraction analysis to be invalid, and the expectation that H-3 in groundwater is to be found nearly exclusively in the aqueous phase, with only trace amounts

potentially found in the solid phase and then only in the presence of significantly elevated H-3 in the aqueous phase.

An error in the laboratory during analysis of the Phase I samples resulted in the laboratory filtering the samples and analyzing the solid (i.e. “suspended”) and aqueous (i.e. “filtered”) phases separately. The solid phase analyses proved to be problematic, as expected; the majority of the solid phase results failed various QC sample acceptance criteria and all solid phase results were subsequently rejected. The remaining aqueous results were reported as “filtered” by the laboratory, since these results represented the filtrate portion of the sample. These results are taken to be representative of the “total” H-3 activity and are accepted without further qualification, in that regard. Phase II H-3 samples were analyzed without filtration and were reported by the lab as “total” results. The Phase I “filtered” results and the Phase II “total” results are believed to be equivalent and both are believed to represent comparable total H-3 activity results in a groundwater sample.

3.2 GROUNDWATER SAMPLING ACTIVITIES

Groundwater samples were collected from the shallow and deep aquifers present within the Area IV Study Area. There are three types of groundwater wells that were sampled during the Phase I and Phase II sampling events: piezometers, monitoring wells, and deep open-hole bedrock wells. The following sections discuss the activities conducted as part of the groundwater investigation portion of the Area IV Radiological Study.

3.2.1 Determination of Sample Locations

A site reconnaissance was conducted on March 24, 2010, to evaluate the condition of each known well in Area IV and the NBZ. A total of 97 wells were located, of which 85 were found to be in a physical condition that could be sampled while 12 were found to be damaged or abandoned and could not be sampled. The wells that could be sampled were included in the Phase I and Phase II sampling program, which is documented in the Phase I FSP (HGL, 2010a).

3.2.2 Sampling Coordination with The Boeing Company

MWH, a contractor of The Boeing Company, was responsible for performing all activities that required well access with the exception of actually collecting samples into laboratory containers. MWH, on behalf of The Boeing Company, subcontracted Blaine Tech Services Inc. (Blaine Tech) to procure, maintain, and calibrate the sampling equipment used during the sampling events. Blaine Tech conducted the purging activities for all of the wells sampled except for the Flexible Liner Underground Technologies (FLUTE™) wells, which were purged by BL Hall Inc. (BL Hall), another contractor of The Boeing Company. The Boeing Company, their contractors and their subcontractors, followed the procedures for groundwater sampling described in the Phase I FSP (HGL, 2010a) while purging the wells and were continuously monitored by HGL, on behalf of USEPA, for compliance with the FSP requirements. Samples were collected and remained in the custody of HGL before being

shipped to TAL. All chain-of-custody procedures were strictly adhered to as outlined in the Phase I FSP (HGL, 2010a).

3.2.3 Low-Flow Purging and Sampling

Low-flow purging and sampling, as described in the Phase I FSP (HGL, 2010a), was performed in wells with short screens (10 feet or less in length) and water column lengths equal to or greater than 3 feet, to obtain representative samples of formation groundwater. The low-flow purging method is based on the premise that low-flow pumping, with little or no drawdown, will rapidly establish laminar flow and withdraw formation water without significantly mixing or dewatering the stagnant water in the well and without mobilizing material not naturally occurring within the aquifer. In addition, due to exceptionally low-flow rates, turbidity is generally reduced. The low-flow method therefore minimizes purge volumes and IDW volumes while providing more representative aquifer samples. The low-flow method was not used to purge or sample the open-hole wells which are advanced into the fractured bedrock. It is the opinion of the USEPA that low-flow is not the proper method to use when sampling wells advanced into fractured bedrock because laminar flow cannot be established in fracture flow conditions. The well-volume approach was used to sample the wells advanced into the fractured bedrock.

During the Phase I Groundwater Sampling Event, a total of fifteen wells, all of which were piezometer wells, met the specification for purging using the low-flow method. The following wells were purged via low-flow during Phase I:

| Piezometer Number | Piezometer Number |
|-------------------|-------------------|
| PZ-005 | PZ-106 |
| PZ-041 | PZ-108 |
| PZ-052 | PZ-109 |
| PZ-098 | PZ-112 |
| PZ-100 | PZ-120 |
| PZ-103 | PZ-121 |
| PZ-105 | PZ-122 |
| PZ-161 | |

During the Phase II Groundwater Sampling Event, a total of 25 wells met the specification for purging using the low-flow method. All Phase II wells purged using low-flow methods were piezometer wells, with the exception of RS-16. The following wells were purged via low-flow during Phase II:

| Piezometer/Well Number | Piezometer/Well Number |
|------------------------|------------------------|
| PZ-005 | PZ-111 |
| PZ-041 | PZ-112 |
| PZ-052 | PZ-113 |
| PZ-056 | PZ-116 |
| PZ-098 | PZ-120 |
| PZ-100 | PZ-121 |
| PZ-101 | PZ-122 |
| PZ-102 | PZ-124 |
| PZ-103 | PZ-150 |
| PZ-105 | PZ-160 |
| PZ-106 | PZ-161 |
| PZ-108 | RS-16 |
| PZ-109 | |

A detailed description of the low-flow purging and sampling procedure that was used is presented in Standard Operating Procedure (SOP) 2.02, Appendix A, of the Phase I FSP (HGL, 2010a). The following is a general description of the low-flow purging and sampling process that was used.

3.2.3.1 Low-Flow Purging

Before purging, the water column length was calculated in order to minimize agitation of the sediment present at the base of the well. The water column was calculated by using the depth-to-water subtracted from the total well depth measurement obtained from the data collected during the pre-sampling gauging event, or by the well construction details when obstructions or pumps in the wells prevented total depth measurements.

In wells where the water level was above the well screen, the pump inlet was positioned at the highest hydraulic conductivity elevation (if known) or approximately in the center to slightly above the center of the well screen. In wells where the water level was below the top of the well screen, the pump was placed at the elevation of highest hydraulic conductivity in the saturated zone (if known) or near the center of the water column.

Wells were purged at a rate of approximately 50 to 500 milliliters per minute (mL/min), depending on whether the well water level and quality readings stabilized. A graduated container was used to accurately measure the flow rate. Water levels were recorded every 3 to 5 minutes to monitor drawdown in the well and to allow for flow rate adjustment before the maximum drawdown of 0.33 feet static water level was exceeded. Water quality parameter readings such as temperature, pH, electrical conductivity (EC), dissolved oxygen (DO), oxidation reduction potential (ORP), turbidity, and flow rate were also measured every 3 to 5 minutes, and recorded on the groundwater field sampling data sheets, included in Appendix A, during purging. During the purging, a minimum of one tubing volume (including the volume

of water in the pump and flow cell) was purged before recording the water quality parameter readings.

Groundwater samples were collected once the water level had stabilized with at least three consecutive water quality readings that met the following criteria:

- pH \pm 0.1 units
- EC \pm 3 percent
- DO \pm 10 percent
- ORP \pm 10 millivolts, and
- Turbidity \pm 10 percent (when turbidity is greater than 10 nephelometric turbidity units [NTU]).

Groundwater samples were collected with the pump used in the purging procedure at a flow rate of 50 mL/min to 500 mL/min once parameters had stabilized. As per Section 4.6.2.1 the Phase I FSP (HGL, 2010a), if water quality parameters did not stabilize professional judgment was exercised to determine whether stabilization sampling can occur. Justification for the associated decision was documented on the groundwater field sampling data sheet. Turbidity readings below 50 NTUs were strived for; however, if turbidity dropped below 10 NTUs, the water was considered stabilized for that parameter. When turbidity was high, the purge time was extended in order for turbidity to reach a value below 50 NTUs, or until it stabilized above 50 NTUs for 15 to 30 minutes, or unless field conditions necessitated otherwise.

Tables 3.2 and 3.3 present the Phase I and Phase II final water quality parameter readings collected during sampling. All justifications for field decisions, including any deviations from the SOP, are documented on the field sampling data sheet, included as Appendix A, and in the logbooks.

All associated discharge tubing and water quality meters were kept in shaded areas to limit the tubing and equipment from heating the groundwater.

3.2.3.1.1 Slow Recharging Well or a Water Column Less Than 3 Feet

When an extremely slow-recharging well or a well with a water column three feet or less was encountered, a Teflon, disposable bailer was employed to purge the well. The bailer was slowly lowered to the top of the water column and allowed to fill. The water-filled bailer was then brought to the surface, and its contents emptied into properly labeled sampling containers in the order specified in Section 3.1.1.2.

For wells with an extremely slow recharge or with a water column of 3 feet or less, water level stabilization was not required. Groundwater samples were collected prior to purging in case the wells were purged dry, and didn't recover. These samples were reserved for possible analysis if there was inadequate recovery in the wells after purging and are designated screening samples. If the wells recovered, a post purge sample was collected that was not qualified as a screening sample.

As with wells with water columns greater than 3 feet, professional judgment was used to determine whether stabilization had been achieved. At a minimum, at least one well casing volume was purged from the well. Once water quality parameters were stabilized and the minimum purge volume removed, groundwater samples were collected.

During the Phase I Groundwater Sampling Event, screening samples were collected prior to purging for eight wells. The screening samples were collected using the Teflon bailer from the following locations:

| Piezometer/Well Number | Piezometer/Well Number |
|------------------------|------------------------|
| RS-18 | PZ-150 |
| RS-25 | PZ-151 |
| PZ-056 | PZ-160 |
| PZ-114 | RD-88 |

Of these eight wells, two wells (RS-25 and RD-88) recharged and post-purge samples were collected, while the remaining wells were purged dry and did not recover. In these cases the initial screening samples were analyzed.

During the Phase II Groundwater Sampling Event, screening samples were collected from six wells prior to purging. The screening samples were collected from the following locations:

| Piezometer/Well Number | Piezometer/Well Number |
|------------------------|------------------------|
| RS-23 | PZ-055 |
| RS-25 | PZ-114 |
| RS-27 | PZ-151 |

Of these six wells, one well (RS-25) recharged and a post-purge sample was collected, while the remaining wells were purged dry and did not recover. In these cases the initial screening samples were analyzed.

For the wells that did recover after collection of screening samples, water quality parameters were measured at least once per gallon purged, unless field conditions necessitated otherwise. This purging process continued until three well volumes had been removed, stabilization of the water quality parameters had occurred, or the well was purged dry.

3.2.3.1.2 Screening Water Sampling of Wells That Remain Dry

As discussed in Section 3.2.3.1.1, screening-water samples were collected for wells that recharged very slowly. These samples were labeled and sent to TAL. Wells that went dry were inspected within 24 hours to see whether there had been recharge. If the well recharged within 24 hours, groundwater samples were collected by Teflon bailer. If after three consecutive days of water level monitoring, the well did not recover and remained dry, the

laboratory was directed to analyze the original water-screening samples. These water-screening samples were flagged and segregated from results for groundwater samples acquired using low-flow or well-volume approach sampling during reporting.

As stated in Section 3.2.3.1.1, eight screening-water samples were collected using the Teflon bailer during the Phase I Groundwater Sampling Event, and sent to TAL. Of these eight samples, six of them were from wells that did not recharge, and were therefore analyzed by the laboratory. The six screening-water samples were collected from wells RS-18, PZ-056, PZ-114, PZ-150, PZ-151, and PZ-160.

During the Phase II Groundwater Sampling Event, seven screening-water samples were collected using the Teflon bailer and sent to TAL. Of these seven samples, six of them were from wells that did not recharge, and were therefore analyzed by the laboratory. The six screening-water samples were collected from wells RS-18, RS-23, RS-27, PZ-055, PZ-114, and PZ-151.

3.2.3.2 Low-Flow Groundwater Sampling

Once well purging was completed, a groundwater sample was collected. The equipment used to purge the well was also used to collect the groundwater sample. For example, if a bladder pump was used to purge the well, then the bladder pump was used to collect the groundwater sample.

For sampling conducted using a pump, the sample pumping rate ranged between 50 mL/min to 500 mL/min. Therefore, if a well had been purged at a rate greater than 500 mL/min, then the pumping rate would have been reduced to 500 mL/min to begin sampling; however, no well was able to be purged at a rate greater than 500 mL/min without lowering the water column or causing well parameter stabilization issues. Under no condition was a water sample collected on the effluent end of a flow through cell of a water quality meter. In cases where a Teflon disposable bailer was utilized to purge a well, the water level within the well was allowed to recover to within 85 percent of its initial static water level (within 24 hours), before sampling.

Sampling consisted of slowly lowering the disposable bailer used for purging the well into the water column. Care was taken to minimize agitation of the water column and the sediments that may have been present at the bottom of the well. Once the bailer was full, the bailer was retrieved from the well and the direct-pour method was employed to fill the necessary sample containers. Upon approval by the Field Operations Manager, minimum sample volumes were collected when well yield was insufficient to provide a full sample volume. This was the case in wells PZ-056, PZ-114, PZ-150, and RS-25 during Phase I; and in wells PZ-055, PZ-114, and PZ-151 during Phase II.

Samples were collected in the order described in Section 3.1.1.2. Sample containers were labeled with the appropriate identifying information (location, date, time, and condition). Each sample was logged on a groundwater sample collection data sheet at the time of collection. Copies of the Groundwater Field Sampling Data Sheets are included as Appendix A. Sample

containers of appropriate volume and composition were prepared in advanced to ensure the collection of sufficient volumes for all specified analyses including QA/QC samples.

The following QA procedures were followed when collecting groundwater samples from all monitoring wells:

- Samples were collected using direct-pouring techniques. While filling the appropriate sample containers, care was taken not to overfill sample containers.
- Field duplicates were collected from monitoring wells located in contaminated areas of various concentrations. All QA/QC samples were collected from monitoring wells that had a sufficient recharge rate to supply the additional volume of water needed within a reasonable time frame.
- All sample containers were shipped overnight to TAL using Federal Express. Samples were delivered to the laboratory to comply with holding times specified in the sample handling, packing, and shipping procedures outlined in the Phase I FSP (HGL, 2010a).

3.2.4 Well-Volume Approach for Open-Hole Bedrock Well Sampling

The sampling procedure for the open-hole bedrock wells differed from the low-flow approach in that drawdown and pumping rates are not necessarily limited; however, the objective was, when possible, to limit full evacuation of the water column and to achieve parameter stabilization, as described for low-flow techniques. In addition, a minimum of 3, but no more than 6, well volumes were evacuated. Wells pumped dry during the purging activities were allowed to recover to 75 percent of the original well volume or, in the case they did not recover to 75 percent, were sampled within 24 hours of being pumped dry. In cases where the well did pump dry, pH, EC, DO, ORP, temperature, and turbidity were monitored and recorded during sample collection from the recovered volume.

During Phase I groundwater sampling, 35 wells were purged and sampled using the well-volume approach as indicated on Table 3.4. Well RS-54 was purged using the well-volume approach; however, it was purged dry and did not recover for 3 consecutive days, therefore no sample was able to be collected.

During Phase II groundwater sampling, 38 wells were purged and sampled using the well-volume approach. Table 3.5 provides a summary of the Phase II groundwater sampling and lists those wells that were sampled using the well-volume approach.

A pre-purge screening sample was collected from well RS-54 prior to being purged dry using the well-volume approach. Well RS-54 did not recover so the screening sample was analyzed.

3.2.5 Sampling Flexible Liner Underground Technologies Multi-Level Wells

Within the Area IV Survey Area, there are 10 FLUTE™ wells (RD-07, RD-21, RD-22, RD-23, RD-33A, RD-50, RD-54A, RD-57, RD-64, and RD-65). The FLUTE™ wells, which contain multiple sampling ports, operate by purging water using an inert gas. The gas displaces

groundwater from within the sample tube and sample port. After initial purging, the sample port and tubing are allowed to refill with groundwater before sampling formation water. Each port is located at a different depth interval, which allows the sampler to collect a sample from a specified depth. Nitrogen gas was used for purging during both the Phase I and Phase II groundwater sampling events.

Though there are multiple ports at each multi-level location, only one port from each location was selected for sampling due to the Phase I and Phase II cost constraints. The criteria used to select each port, in order of priority, are presented below:

- The port with the highest level of reported tritium was selected for sampling.
- If no tritium data exist for the multi-level well, the well port with the highest reported hydraulic conductivity was selected.
- In cases where there is no port-specific tritium data or hydraulic conductivity data, a port within the first 100 feet of saturated bedrock was selected.

BL Hall operated the FLUTE™ wells, while HGL oversaw the purging operations and collected the samples. The ports used for sample collection are stated on the Groundwater Field Sampling Data Sheets included as Appendix A, and are also presented in Table 3.6.

3.3 AREA IV WIDE WATER LEVEL MEASUREMENT EVENT

Comprehensive water-level gauging events were conducted prior to each groundwater monitoring event. The tape and probe that entered the wells were decontaminated prior to initial gauging of the wells and between each well in accordance with the SOP 2.01 included in the Phase I FSP (HGL, 2010a).

Depth-to-water and depth-to-bottom measurements, measured from the established measuring point or from the top, north side of the inner well casing, were recorded, along with general well condition and any other pertinent observations. Gauging event data are presented in Appendix B.

3.3.1 Phase I Water Level Gauging Event

The Phase I Groundwater Gauging Event occurred during the dry season on July 21, 2010. HGL, along with Blaine Tech, gauged 85 wells within the Area IV Study Area. Depth to water ranged from 11.24 feet below top of casing (RD-34C, Chatsworth Formation) to 323.25 feet below top of casing (RD-54B, Chatsworth Formation). A total of 17 wells were found to be dry during the Phase I Groundwater Gauging and Sampling Event, as listed in Appendix B. Twelve wells were found to be abandoned or damaged during the gauging event.

3.3.2 Phase II Water Level Gauging Event

Phase II groundwater gauging consisted of two events. An initial wet season groundwater gauging event took place in January 2011 and a second in March 2011. During the initial gauging event in January, 88 groundwater wells were gauged. Of the 88 wells gauged, seven

were found to be dry. Depth to water ranged from 5.82 feet below top of casing in well RS-18 to 318.90 feet below top of casing in RD-56A (Appendix B).

During the March 2011 gauging event the following offsite groundwater monitoring wells were gauged:

| Piezometer/Well Number | Piezometer/Well Number |
|------------------------|------------------------|
| OS-2 | RD-59A |
| OS-3 | RD-59B |
| OS-4 | RD-59C |
| OS-5 | RD-68A |
| OS-9 | RD-68B |
| OS-9R | WS-09A |
| OS-10 | |

Offsite well OS-21 was not gauged as scheduled because permission from the current land owner could not be obtained.

On March 16, 2011, HGL, along with Blaine Tech, gauged 83 wells within the Area IV Study Area. Depth to water ranged from 4.57 feet below top of casing (RS-18, Shallow Well) to 282.54 feet below top of casing (RD-33C, Chatsworth Formation). Five wells (RS-24, PZ-073, PZ-110, PZ-143, and offsite well OS-05) were found to be dry during the Phase II Groundwater Gauging and Sampling Event (water levels are presented in Appendix B).

3.4 MONITORING WELL SAMPLING

Two groundwater sampling events were completed as part of this project. Details of the Phase I and Phase II Groundwater Sampling Events are discussed in Sections 3.4.1 and 3.4.2. The well/piezometer designations and construction information are presented in Appendix C.

A list of parameters analyzed for each well sampled during Phase I and Phase II events is provided as Tables 3.2 and 3.3, respectively.

All sampling equipment was thoroughly cleaned and decontaminated before starting field work each day and between sampling locations in accordance with HGL’s SOP 2.01 Cleaning and Decontaminating Sample Containers and Sampling Equipment included in the Phase I FSP (HGL, 2010a).

Water quality parameter readings were collected from all wells during sampling activities on the groundwater field data sheets, which are included as Appendix A. Phase I and Phase II final water quality parameter readings during sampling are presented in Tables 3.2 and 3.3, respectively. The well/piezometer designations and construction information are presented in Appendix C.

3.4.1 Phase I Groundwater Sampling Event

The Phase I Groundwater Sampling Event was conducted during the dry season from August 19, 2010, through September 10, 2010. Of the 97 well locations identified for sampling, 41 were deep monitoring wells, 10 were FLUTE™ wells, 10 were shallow monitoring wells, and 36 were piezometers (Appendix C). During the Phase I July 2010 gauging event, twelve wells were found to be either abandoned or damaged, and 17 wells were found to be dry. As a result, a total of 68 wells were sampled during the Phase I Groundwater Sampling Event.

Groundwater monitoring wells sampled during Phase I were sampled using the techniques described in Section 3.2.3, 3.2.4, and 3.2.5. Screening water samples were collected and analyzed for wells with extremely low to no recharge that did not allow for sampling using other techniques. Phase I wells that did not recover and had screening water samples analyzed are presented in Table 3.4. These data are segregated from other sample data in the comparisons to MCLs, presented in Section 5.2.3. Groundwater wells RS-25, PZ-056, PZ-114, PZ-150, and PZ-151 went dry during the pre-purge sampling activities and, as a result, only partial samples collected. Wells RD-88 and RS-25 recovered after the purging activities and a post-purge sample was able to be collected; however, only a partial post-purge sample was able to be collected from well RS-25. The analyses that were able to be performed for these samples are listed in Table 3.4.

The wells that were sampled for Priority 2 analytes are listed in Table 3.4. Several wells originally scheduled for sampling were not sampled because of lack of water. These wells include RD-97, RD-34B, and RS-18. As a result, wells RD-13, RD-17, and RD-56B were selected as replacements for the Priority 2 analytical suite sampling.

Ten FLUTE™ wells (RD-07, RD-21, RD-22, RD-23, RD-33A, RD-50, RD-54A, RD-57, RD-64, and RD-65) were purged and sampled during the Phase I Groundwater Sampling Event. Three tube volumes of the designated Port to be sampled were purged prior to sample collection. Water quality parameter readings are not part of The Boeing Company's FLUTE™ well purging protocol, and therefore not taken during purging activities. The ports used for sample collection are presented in Table 3.6 and stated on the groundwater field sampling data sheets included as Appendix A.

3.4.2 Phase II Groundwater Sampling Event

The Phase II Groundwater Sampling Event was conducted during the wet season from March 16, 2011, through April 21, 2011. A total of 93 wells were sampled during the Phase II Groundwater Sampling Event, 68 of which were the same wells sampled during the Phase I Groundwater Sampling Event. The Phase II sampling event also included 13 offsite wells as listed in Table 3.5. Five wells scheduled to be sampled could not because they were dry (Table 3.5). Offsite well WS-09A, a continuously pumping well, was temporarily shut down due to a discharge permit renewal delay, and thus not sampled until June 3, 2011.

Groundwater monitoring wells sampled during Phase II were sampled using the techniques described in Section 3.2.3, 3.2.4, and 3.2.5. Slow recovery wells where screening samples were collected and analyzed included RS-23, RS-27, RS-54, PZ-055, PZ-114, and PZ-150

(Table 3.5). Groundwater wells PZ-055, PZ-114, and PZ-150 went dry during the screening sample collection and resulted in the analysis of only a partial suite of the Priority 1 list (Table 3.5). Well RS-25 recovered after the purging activities and a post-purge sample was able to be collected.

The same wells sampled for the Priority 2 analytical suite in Phase I were sampled for the Priority 2 analytical suite in Phase II (Table 3.5); however, well RD-97, originally dry during the Phase I Groundwater Sampling Event, had sufficient water during the Phase II Sampling Event, and was subsequently sampled for the Priority 2 analytes. In addition, the Priority 2 analyte list was used at well RD-86 during Phase II sampling based on the analytical data collected during Phase I sampling.

The same ten FLUTE™ wells sampled during Phase I were purged and sampled during Phase II. The ports used for sample collection are presented in Table 3.6.

Offsite wells OS-2 (bathtub well), OS-3, OS-4, OS-5, OS-9, OS-10, RD-59B, RD-59C, RD-68A, and RD-68B are artesian wells located on the Brandeis-Bardin property. Wells OS-2, OS-3, OS-4, OS-9, and OS-10 were sampled from continuously flowing pipes. Artesian wells RD-59B, RD-59C, RD-68A, and RD-68B were sampled from sample ports located on the wells, which were opened to allow water quality parameters to stabilize before sampling. Well OS-5 was not producing water during the Phase II sampling, and therefore could not be sampled. Wells OS-9 and OS-10 were not producing water during the Phase II sampling; however, there were ponded areas next to the wells where the free flowing groundwater had collected, and samples were collected from those ponded locations.

Well OS-9R, also located on Brandeis-Bardin property, contains a Westbay Multilevel System that is similar to the FLUTE™ wells in Area IV. The Westbay Multilevel System contains 16 ports and three QA ports, each separated by hydraulic inflatable packers. Fluid pressure and temperature readings were collected from each of the 16 ports and three QA ports beginning at the deepest port (Port 16) and ending at the shallowest port (Port 1) prior to sampling. Samples were collected from Port 1 in accordance with Section 3.5 of the Phase I FSP (HGL, 2010a).

The sample was collected by lowering four cylinders down the well casing, and allowing the pressure to build-up, which fills the cylinders with approximately 0.75 liters of water. This process is repeated until the complete sample has been collected.

MWH, representatives of The Boeing Company, operated the Westbay Pump System well for HGL, while HGL oversaw the operations and collected the sample. Port 1 was used for sample collection, as stated on the Groundwater Field Sampling Data Sheets included as Appendix A, and also presented in Table 3.5.

Offsite well OS-21 is located approximately 1/2 mile west of Area IV, just south of the Albertson Fire Road (Figure 1.3), and is pumped using a windmill. Attempts by USEPA/HGL to obtain access to this well were unsuccessful.

Well WS-9A is owned by NASA, and is located within SSFL Area II (Figure 1.3). The well is currently being used as an extraction well to control groundwater flow down-gradient, and therefore is continuously pumping. Well WS-09A is equipped with a spigot sampling port where the sample was obtained. Due to a discharge permit renewal delay, the pump was turned off for several weeks. As a result the well was not sampled until June 3, 2011.

3.5 INVESTIGATION-DERIVED WASTE MANAGEMENT

IDW consisted largely of personal protective equipment (PPE), disposable sampling tools and supplies, monitoring well purge water, supplies, and decontamination water. The remaining IDW was stored onsite until final disposal. Monitoring well purge water with historically elevated levels of H-3 (above 20,000 picocuries per liter [pCi/L]) was stored onsite in a separate containment area until disposed of by evaporation. The following sections detail the management, containment, and disposal of the purge water collected during the Phase I and Phase II sampling events.

3.5.1 Management of Disposable Personal Protective Equipment, Sampling Tools, and Supplies

All disposable PPE (such as nitrile gloves), sampling equipment (such as disposable tubing), and general refuse (such as paper towels) generated during the Phase I and Phase II sampling events were screened for radiation using an alpha, beta, gamma radiation survey meter (pancake meter) before disposal. No elevated radioactivity was detected; therefore the IDW was disposed of as non-hazardous refuse in the dumpster at Building 204 in accordance with Appendix J of the Site Management Plan (HGL, 2010e).

3.5.2 Management of Purge Water

All purge water was stored onsite. As described below, water from wells without historically elevated H-3 levels was handled differently from purge water than other wells. For all purge water, weekly inspections were conducted by HGL to ensure containment vessels were free from leaks and in overall good condition.

3.5.2.1 Purge Water Containment and Disposal (Historically Low Tritium Water)

A total of 49,096 gallons of purge water from wells with historically low levels of H-3 was generated as a result of the Phase I and Phase II sampling events. This purge water was temporarily stored onsite in double-walled 16,000-gallon fractionalization tanks located in Area IV at Building 4011.

The purge water was removed from the site over an eight work day period between July 25, 2011, and August 3, 2011. The purge water was transported by Veolia Environmental Services (a licensed hauler) and taken to Siemens Industry Incorporated located in Vernon,

California, for disposal as F-Listed hazardous waste based on historical concentrations of trichloroethene in groundwater and in accordance with Appendix J of the Site Management Plan (HGL, 2010e). The Siemens Verona facility is a licensed waste water treatment plant and is USEPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Off Site Rule certified.

3.5.2.2 Containment and Evaporation of Purge Water with Historically Elevated Levels of Tritium

Purge water collected from the wells with historically elevated tritium levels was temporarily stored onsite within Area IV at Building 4015. The potentially tritiated purge water was stored in three 300-gallon polyethylene tanks, which were contained within a lined roll-off bin, used as a secondary containment.

Approximately 800 gallons of purge water was evaporated onsite from July 29, 2011, through September 22, 2011. Before evaporation activities began, the USEPA-approved Clean Air Act Assessment Package-1988 (CAP88-PC) computer model was utilized to estimate potential off-site exposure (USEPA, 1988). The Nuclear Regulatory Commission and State of California allows individual exposures of 100 millirems per year (mrem/y). The dose calculated by the CAP88-PC model was 1.11E-08 mrem/y, which is over a billion times lower than this regulatory limit.

The evaporation basins were located at Building 4011, and consisted of ten 5-foot diameter plastic pools that were placed within a secondary containment consisting of an 80 mil plastic portable basin. Once the tritium water had completely evaporated, the pools were then scanned with a Ludlum 2241-3 meter and Geiger Mueller detector to ensure no elevated levels of radiological material were present, and then disposed of at the HGL/USEPA office Building 204.

3.5.3 Management of Equipment Decontamination Water

Approximately 150 gallons of equipment decontamination water was stored in a 300-gallon polyethylene tank located at Building 4011. The decontamination water was disposed of as F-listed waste along with the purge water from wells with historically low levels of H-3.

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4.0 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The groundwater data acquired were subject to rigorous QA/QC requirements described in the QAPP (HGL, 2010b) and the Laboratory-Specific QAPP Addendum (HGL, 2010c). The results of the QA/QC assessment are presented in this section followed by presentation of the data and a summary of results, the following details groundwater analytical evaluation and results.

This section describes the QA/QC program used during for the groundwater sampling activities. The data QA/QC procedures are detailed in the QAPP (HGL, 2010b). The field QC samples collected during sampling events are presented in Table 3.8; this table also identifies the analyses performed on each sample.

4.1.1 FIELD QUALITY CONTROL

All field sampling was performed in accordance with the procedures outlined in the Phase I FSP (HGL, 2010a). The FSP specifies collecting field QC samples that can be used to assess whether the analytical data were affected by the sampling process. The field QC samples included field duplicates and equipment blanks as described below. A summary of the QC samples, including the number of each type collected during the sampling activities, is included in Table 3.8.

In addition to the QC samples, other field procedures to promote QC were followed. Sampling documentation was performed in the field to ensure that sample labeling, chain-of-custodies, and requests for analysis were in agreement and traceable back to the correct field sample. Custody seals were placed on each cooler before being shipped by an overnight carrier.

4.1.1.1 Evaluation of Field Duplicate Samples

Field duplicate groundwater samples were collected at a frequency of 1 per 20 samples (5 percent). A total of seven field duplicate groundwater samples were collected during the Phase I sampling event. The field duplicate evaluation criterion includes an additional 1σ uncertainty factor of 10 percent to allow for heterogeneity of co-located, but non-homogenized, field samples.

The comparability of a field duplicate result to that of the original sample is assessed by evaluating the duplicate Z-score comparison (Z_{DUP}). The Z-score is a statistical test that indicates how many standard deviations an observation is from the expected value. The Z-score is defined in the QAPP (HGL, 2010b), and the Z_{DUP} is calculated as:

$$Z_{DUP} = \frac{|X_s - X_d|}{\sqrt{u_s^2 + u_d^2}}$$

where:

X_s = activity of the sample
 X_d = activity of the duplicate

u_s = combined standard (1σ) uncertainty of the sample
 u_d = combined standard (1σ) uncertainty of the duplicate

Higher Z_{DUP} scores indicate greater disparity between the sample and the duplicate results. A Z_{DUP} score of 2.0, for example, indicates that the duplicate result differs from the sample result by twice the overall uncertainty of the two results. By extension, a Z_{DUP} score of 1.96 (the warning level) indicates that the two results are statistically equivalent, at the 95 percent confidence interval. A Z_{DUP} score of 2.58 (the exceedance level) indicates that the two results are statistically equivalent, at the 99 percent confidence interval.

A Z_{DUP} evaluation is performed on each paired set of analytes for which parent and duplicate data are reported.

Phase I field duplicate groundwater sample data includes 1,158 results from 579 sample/duplicate pairs. Those results included several analytes which were subsequently removed from consideration, and thus were not evaluated. In addition, any results that were rejected by data validation were removed from consideration. Finally, analytes that are simply inferred from previously reported results, such as barium (Ba)-137m, which is inferred from the reported Cs-137 results, are considered redundant and have also been removed from consideration.

The Z_{DUP} evaluation of the remaining 439 qualified pairs follows:

- 417 results (95.0 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- Eight results (1.8 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;
- 14 results (3.2 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

The Z_{DUP} statistical test predicts that, in a homogeneous sample/duplicate pairing, 4 percent of reported Z_{DUP} scores (approximately 14 results in this Z_{DUP} set) will be in the warning range between 1.96 and 2.58. In addition, 1 percent (approximately four results in this Z_{DUP} set) are expected to exceed a Z_{DUP} score of 2.58.

A careful review of the Z_{DUP} warnings and exceedances results in the following observations regarding the collection and analysis of field duplicate groundwater samples:

- Eight of the 14 exceedances, i.e. Z_{DUP} scores at or above 2.58, and one of the warnings are associated with the sample/duplicate pair SMRD-096-GW081910/SMDUP-01-GW081910. The exceedances include Z_{DUP} scores as high as 10.9.

All of these Z_{DUP} comparisons show the sample SMRD-096-GW081910 concentration to be significantly and consistently higher than the duplicate SMDUP-01-GW081910 concentration.

In addition, all nine Z_{DUP} scores are associated with either isotopic uranium results, or the gross alpha/beta screening results, which are expected to be closely correlated to the isotopic uranium results. The isotopic uranium results indicate naturally occurring uranium, with no indication of anthropogenic enriched or depleted uranium present.

The number and magnitude of Z_{DUP} scores may be reasonably attributable to heterogeneity in the groundwater samples, with significant variability in the water quality, including mineral content, from the time of collection of the original sample to the collection of the field duplicate, which has not otherwise been accounted for in this assessment.

- The six remaining exceedances, which have Z_{DUP} scores between 2.66 and 7.57, are also attributable to naturally occurring radionuclides commonly expected in groundwater, or the correlated gross alpha/beta screening results. As discussed above, these excursions may be reasonably attributable to heterogeneity in the groundwater samples from the time of collection of the original sample to the collection of the field duplicate, which has not otherwise been accounted for in this assessment.
- The seven remaining Z_{DUP} scores in the warning range, between 1.96 and 2.58, are well within the expected frequency and do not appear to represent a data quality excursion.

The overall frequency and magnitude of the field duplicate Z_{DUP} scores may indicate a degree of inhomogeneity in the groundwater samples that has not otherwise been accounted for in the assessment. In addition, a small underestimate in the laboratory's reported uncertainty values is possible and may contribute to the observed excursions. The above comments notwithstanding, the frequency and magnitude of the Z_{DUP} excursions are not believed to indicate significant concerns regarding the quality or usability of the data. A summary of the parent and associated field duplicate sample results is provided Table 4.1.

Phase II field duplicate groundwater sample data includes 1,616 results from 808 sample/duplicate pairs. Those results included several analytes which were subsequently removed from consideration, and thus were not evaluated. In addition, any results that were rejected by data validation were removed from consideration. Finally, analytes that are simply inferred from previously reported results, such as Ba-137m, which is inferred from the reported Cs-137 results, are considered redundant and have also been removed from consideration.

The Z_{DUP} evaluation of the remaining 619 qualified pairs follows:

- 597 results (96.4 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- 10 results (1.6 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;

- 12 results (1.9 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

The Z_{DUP} statistical test predicts that, in a homogeneous sample/duplicate pairing, 4 percent of reported Z_{DUP} scores (approximately 25 results in this Z_{DUP} set) will be in the warning range between 1.96 and 2.58. In addition, 1 percent (approximately 6 results in this Z_{DUP} set) are expected to exceed a Z_{DUP} score of 2.58.

A review of the Z_{DUP} warnings and exceedances has been conducted and the following observations are made regarding the collection and analysis of field duplicate groundwater samples:

- The highest exceedance, i.e. Z_{DUP} score at or above 2.58, is related to a Sr-90 result with a Z_{DUP} score of 15.66. This result is related to the sample/duplicate pair SMRD-19-GW031711/ SMDUP-01-GW031711Q. A careful review of the associated laboratory and validation reports does not indicate any observable data quality issues or laboratory errors that might account for the significant discrepancy. Barring re-sampling and confirmatory analysis, it may be concluded that the elevated Z-score reflects a degree of heterogeneity in the well water that has not been otherwise accounted for in the Z_{DUP} assessment (i.e. the degree of heterogeneity in the co-located, but non-homogenized, field samples exceeds that of a homogenized laboratory sample by significantly more than the estimated 10 percent).
- The 11 remaining exceedances are at or below 6.01 and, with a single exception discussed below, are derived from the results for either naturally occurring radionuclides or the gross alpha/beta screening results, which are expected to be closely correlated to the naturally occurring radioactivity concentrations. These Z_{DUP} results appear to be consistent with the previous Phase I observations, and are likely to be attributable to variability in the water quality, including mineral content, from the time of collection of the original sample to the collection of the field duplicate, which has not otherwise been accounted for in this assessment.
- It is noted that one of the 11 Z_{DUP} results above 2.58 is for Cm-243/244 in the sample/duplicate pair SMRD-19-GW031711/ SMDUP-01-GW031711Q, with a Z_{DUP} score of 2.94. In this case, the activity of the field duplicate is below the critical value (L_C) and is considered a non-detect, whereas the activity for the parent sample is above the L_C value, but below the associated minimum detectable concentration. A review of the spectral quality shows discernible activity in the expected region of interest, and there is no indication that the result is due to laboratory error or other data quality discrepancies.
- The 10 Z_{DUP} scores in the warning range, between 1.96 and 2.58, are well within the expected frequency and do not appear to represent a data quality excursion.

The overall frequency and magnitude of the field duplicate Z_{DUP} scores may indicate a degree of heterogeneity in the groundwater samples that has not otherwise been accounted for in the

assessment. It is also possible that a small underestimate in the laboratory's reported uncertainty values is possible, and may contribute to the observed excursions. The above comments notwithstanding, the frequency and magnitude of the Z_{DUP} excursions are not believed to indicate significant concerns regarding the quality or usability of the data. A summary of the parent and associated field duplicate sample results is provided Table 4.2.

4.1.1.2 Evaluation of Equipment Blanks

Equipment rinsate blanks were collected at a frequency of one per day, for each type of sampling equipment used per field team. Equipment rinsate blanks were collected in accordance with the Phase I FSP (HGL, 2010a) and the QAPP (HGL, 2010b). A total of 13 rinsate and 13 source water samples were collected during the Phase I groundwater sampling event. Each sample was tested for isotopic uranium, as a surrogate indicator of cross-contamination. The laboratory's reported results for thorium-231 are inferred directly from the reported U-235 results. Those redundant evaluations, as well as any results that are rejected for laboratory quality reasons, have been removed from consideration, as in the evaluation of field duplicate samples, above. Rinsate and source water samples were also analyzed for H-3 if it was included in the analytical suite for samples collected that day.

In some cases, the laboratory reports individual results for the dissolved (filtered) and suspended phases of the equipment blank samples. In other cases, the samples were analyzed as-received and the Total activity is reported. For equipment blanks, filtration was not required prior to analysis and either analytical approach is acceptable.

Phase I rinsate and source water samples include 308 total results, from which 88 data pairs were evaluated by Z-score duplicate comparison. The Z_{DUP} scores are summarized below.

- 84 results (95.5 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- Four results (4.5 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;
- Zero results (0.0 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

As with the field duplicates, the Z_{DUP} statistical test predicts that approximately 4 percent of reported Z_{DUP} scores will be in the range between 1.96 and 2.58. The four results in that warning range are within the expected frequency. It is noted that two of those results have rinsate water results less than the associated source water results, which indicates that there is no significant concern of improper decontamination or sample cross-contamination, for samples related to those rinsate/source water pairs.

The overall evaluation of equipment blank results indicates that the decontamination of the field sampling equipment is acceptable and that there is no evidence of sample cross-contamination from the sampling equipment that would adversely affect the quality or usability of the reported

field sample data. A summary of Phase I rinsate and source equipment blank sample results is provided on Table 4.3.

Phase II rinsate and source water samples include 339 total results, from which 122 data pairs were evaluated by Z-score duplicate comparison. The Z_{DUP} scores are summarized below.

- 112 results (91.8 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- Four results (3.3 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;
- Six results (4.9 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

As with the field duplicates, the Z_{DUP} statistical test predicts that approximately 4 percent of reported Z_{DUP} scores will be in the range between 1.96 and 2.58. The four results in that warning range are within the expected frequency.

A review of the six Z_{DUP} exceedances, with Z_{DUP} scores above 2.58 and up to 5.32, shows that all are related to U-234.

- In three of those cases, the equipment source water activity is higher than the associated rinsate water activity, which indicates that there is no significant concern of improper decontamination or sample cross-contamination, for samples related to those rinsate/source water pairs.
- In the case of the other three Z_{DUP} scores, which resulted from rinsate water activity higher than the associated source water activity, the spectral data shows anomalous activity in the spectral region associated with U-234, with no corresponding activity for U-238, as would be expected in the case of equipment contamination or sample cross-contamination. The presence of uranium in only naturally occurring ratios (i.e. U-234 approximately equal to U-238) in all samples associated with these Z_{DUP} pairs is confirmed by an additional review of the spectroscopic data.
- The Z_{DUP} excursions are believed to be related to laboratory issues related to the separation and measurement of isotopic uranium. These issues have been identified in data validation and laboratory audits and have been appropriately addressed by the laboratory. The impact of those issues on the quality and usability of the field sample data is addressed in the individual validation reports, and includes a potential underestimate in the reported uncertainty and detection limit values for specific results. For the purpose of evaluating the efficacy of field decontamination practices, however, the results do not provide any indication of improper decontamination or sample cross-contamination, for samples related to those rinsate/source water pairs.

The overall evaluation of equipment blank results indicates that the decontamination of the field sampling equipment is acceptable and that there is no evidence of sample cross-contamination

from the sampling equipment that would adversely affect the quality or usability of the reported field sample data. A summary of Phase I rinsate and source equipment blank sample results is provided on Table 4.4.

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5.0 SUMMARY OF GROUNDWATER RESULTS

5.1 GROUNDWATER ELEVATIONS

The groundwater elevations measured for wells during the Phase I and II investigations are presented on Figures 5.1 through 5.6 and are provided in Appendix B. It has been demonstrated that groundwater data in Area IV cannot be used independently of other information (such as seep elevations, hydrogeologic, and structural boundaries, well pumping information) to estimate potentiometric conditions. Furthermore, elevations in open boreholes represent composite heads as opposed to heads from discrete elevations in the Chatsworth Formation as is acquired from FLUTe™ wells. Formulation of estimated potentiometric conditions is beyond the intended scope of the groundwater sampling events and are not presented.

5.2 GROUNDWATER ANALYTICAL RESULTS

All samples were sent to TAL radiological operations facility in Earth City, Missouri. Samples were prepared and analyzed in accordance with the specifications outlined in the QAPP (HGL, 2010b), and the Laboratory-Specific QAPP Addendum (HGL, 2010c). Analytical results for the samples collected during the Phase I and Phase II sampling events were reported as filtered, suspended and total. Filtered results are those that were filtered at the lab prior to analysis. Suspended results are those for solids that were retained by the filter. Total results are a summation of the filtered concentration and the suspended concentration (converted to a volumetric activity based on the filtrate volume). Analytical results for Phase I and Phase II sampling events are presented in Appendix D.

Phase I H-3 results are reported as “filtered” and represent the filtrate portion of the sample. These results are taken to be representative of the “total” H-3 activity and are accepted without further qualification, in that regard. Phase II H-3 samples were analyzed without filtration and were reported by the laboratory as “total” results. The Phase I “filtered” results and the Phase II “total” results are believed to be equivalent and both are believed to represent comparable total H-3 activity results in a groundwater sample.

5.2.1 Phase I Groundwater Sampling Event (August - September 2010)

During the Phase I Groundwater Sampling Event, performed in August through September 2010, samples were collected from 68 wells as summarized on Table 3.4. A summary of the analytical results is discussed in the following subsections. Table 5.1 presents the analytical results that exceed the MCL and Table 5.2 presents the results for detected anthropogenic radionuclides. Figure 5.7 illustrates the locations of all wells with radionuclide concentrations exceeding the MCLs. Figure 5.8 illustrates the well locations where tritium was detected. All analytical results for the Phase I sampling event are presented in Table D.1. Samples were submitted and filtered by the laboratory and reported as filtered (aqueous) and total (aqueous and suspended fractions).

5.2.1.1 Shallow Wells

During the Phase I sampling event, 22 shallow wells, screened in the near-surface groundwater, were sampled. The depth to groundwater in these shallow wells ranged from 11.80 feet (RS-18) to 78.53 feet (PZ-151) below top of casing. No radionuclides were detected in the shallow wells at concentrations greater than the MCL.

Most anthropogenic radionuclides do not have established MCLs; however, it is important to note the occurrence of those radionuclides that may be persistent and potentially site related. Anthropogenic radionuclides detected in the shallow wells sampled during the Phase I event are presented on Table 5.2. Some of the potential site related anthropogenic radionuclides detected in the shallow wells during Phase I sampling are summarized below.

- Tritium was detected in wells PZ-056 and ES-031 at concentrations of 75 pCi/L and 88 pCi/L, respectively (Figure 5.8).
- Strontium-90 was detected in the filtered samples collected from well RS-18 at a concentration of 0.06 pCi/L.

5.2.1.2 Bedrock Wells

During the Phase I sampling event, 46 bedrock wells screened in the Chatsworth Formation, were sampled as summarized on Table 3.4. The depth to groundwater in these wells ranged from 10.73 feet (RD-34C) to 317.51 feet (RD-56A) below top of casing (Figure 5.2).

Gross beta (filtered) activity was detected in the groundwater sample collected from bedrock well location RD-86 at a concentration of 206 pCi/L, which exceeds the MCL of 50 pCi/L. The total gross beta activity was also 206 pCi/L (Figure 5.7).

Tritium was detected in groundwater samples collected from three bedrock wells (RD-88, RD-90 and RD-95) at concentrations exceeding the MCL of 20,000 pCi/L. The total H-3 activity reported for wells RD-88, RD-90 and RD-95 were 44,800 pCi/L, 41,000 pCi/L, and 59,700 pCi/L, respectively (Figure 5.8).

No other radionuclides were detected at concentrations greater than the MCLs in the bedrock wells sampled during the Phase I sampling event.

Anthropogenic radionuclides detected in the bedrock wells sampled during the Phase I event are presented on Table 5.2. Some of the potential site related anthropogenic radionuclides detected in the bedrock wells during Phase I sampling are summarized below.

- Tritium was detected at concentrations from 75 pCi/L to 59,700 pCi/L in groundwater samples collected from 11 bedrock wells (Figure 5.8). As described above, three of these wells had H-3 concentrations exceeding the MCL.
- Strontium-90 (filtered) was detected at concentrations from 0.097 to 7.00 pCi/L in samples collected from bedrock wells RD-54B and RD-98, respectively.

- Plutonium-238 (filtered) was detected at a concentration of 0.054 pCi/L in one sample collected from bedrock well RD-17.
- Plutonium-239/240 (filtered) was detected at a concentration of 0.0086 pCi/L in one sample collected from bedrock well RD-29.
- Cesium-137 (filtered) was detected at concentrations from 0.61 to 1.51 pCi/L in the sample collected from bedrock wells RD-07, RD-57, RD-63, and WS-07.
- Curium-245/246 (filtered) was detected at concentrations from 0.0132 to 0.028 pCi/L in the samples collected from bedrock wells RD-13, RD-29, RD-33B, RD-56B, and RD-98.

5.2.2 Phase II Groundwater Sampling Event (March - April 2011)

During the Phase II Groundwater Event, performed in March through April 2011, samples were collected from 93 wells as summarized on Table 3.5. A summary of the analytical results is discussed in the following subsections. Table 5.1 presents the analytical results that exceed the MCL and Table 5.3 presents the results for detected anthropogenic radionuclides. Figure 5.9 illustrates the locations of all wells sampled during Phase II with radionuclide concentrations exceeding the MCLs. Figure 5.11 illustrates the well locations where H-3 was detected during the Phase II sampling. All analytical results for the Phase II sampling event are presented in Table D.2.

5.2.2.1 Shallow Wells

During the Phase II sampling event, 35 shallow wells screened in the near-surface groundwater were sampled. The depth to groundwater in these wells ranged from 4.67 feet (RS-18), to 77.79 feet (PZ-151) below top of casing (Figure 5.5). Gross beta, adjusted gross alpha, U-233/U-234, and U-238 were the only radionuclides detected at concentrations exceeding the MCLs.

Adjusted gross alpha activity was reported above the MCL (15 pCi/L) in the total and filtered samples collected from shallow well locations PZ-105, RS-23, and RS-27. Adjusted gross alpha activity was reported in well PZ-105 (total) at a concentration of 18.6 pCi/L, in well RS-23 (filtered and total) at concentrations of 72.2 and 213.7 pCi/L, respectively, and in well RS-27 (total) at a concentration of 37.3 pCi/L.

Gross beta activity was reported above the MCL (50 pCi/L) in the total samples collected from shallow well locations RS-23, and RS-27, at concentrations of 313 pCi/L, and 93.5 pCi/L, respectively (Figure 5.9). Analysis of the suspended fraction for these samples detected gross beta activities of 281 pCi/L in RS-23 and 73.4 pCi/L in RS-27. The activities of the suspended samples are similar to those in the total sample indicating that the exceedance of the MCL is due to the high level of suspended solids. Additionally, the gross beta activity for the filtered samples was significantly less than the total activities and less than the MCL.

Three shallow wells contained U-233/U-234 (filtered) and U-238 (filtered) above the MCL of 20 pCi/L. Uranium-233/U-234 was detected at concentrations of 23.9 pCi/L in well PZ-116,

36.7 pCi/L in well PZ-124, and 30.9 pCi/L in well RS-11. Uranium-238 was detected at concentrations of 22.9 pCi/L, 35.6 pCi/L, and 28.1 pCi/L, in shallow wells PZ-116, PZ-124, and RS-11, respectively (Figure 5.9). The ratio of U-233/U-234 to U-238 range between 1.03 and 1.09 which is indicative of naturally occurring conditions. Additionally, the ratio of U-235 to U-238 range between 0.049 and 0.05 also suggests naturally occurring conditions.

No other radionuclides were detected at concentrations greater than the MCL.

Most anthropogenic radionuclides do not have established MCLs; however, it is important to note the occurrence of those radionuclides that may be persistent and potentially site related. Anthropogenic radionuclides detected in the shallow wells sampled during the Phase II event are presented on Table 5.3. Some of the potential site related anthropogenic radionuclides detected in the shallow wells during Phase II sampling are summarized below.

- Strontium-90 was detected at concentrations from 0.041 to 0.105 pCi/L in the filtered samples collected from shallow wells PZ-105, PZ-109, RS-18, RS-27, PZ-116, PZ-120, PZ-121, and PZ-122.
- Cesium-137 (filtered) was detected at a concentration of 0.71 pCi/L in the sample collected from well PZ-005.
- Tritium was detected at concentrations from 69 pCi/L to 119 pCi/L in the total samples collected from shallow wells ES-31, PZ-112, PZ-041, and PZ-116.

5.2.2.2 Bedrock Wells

During the Phase II sampling event, 46 bedrock wells screened in the Chatsworth Formation were sampled as summarized on Table 3.5. The depth to groundwater in these wells ranged from 10.43 feet (RD-34C) to 314.01 feet (RD-56A) below top of casing.

Gross beta activity (total) was detected at a concentration of 149 (total) pCi/L in the groundwater sample collected from bedrock well location RD-93. Analysis of the suspended fraction of this sample detected gross beta activity of 135 pCi/L and the filtered sample contained 14 pCi/L indicating that this exceedance of the MCL is due to high levels of suspended solids.

Strontium-90 (filtered) was detected in well RD-98 at a concentration of 183 pCi/L, which exceeds the MCL 8 pCi/L.

Tritium was detected at concentrations of 54,900 pCi/L and 49,900 pCi/L in groundwater samples collected from bedrock wells RD-90 and RD-95, respectively. These concentrations exceed the 20,000 pCi/L MCL for H-3 (Figure 5.11).

No other radionuclides were detected at concentrations greater than the MCL.

Most anthropogenic radionuclides do not have established MCLs; however, it is important to note the occurrence of those radionuclides that may be persistent and potentially site related.

Anthropogenic radionuclides detected in the shallow wells sampled during the Phase II event are presented on Table 5.3. Some of the potential site related anthropogenic radionuclides detected in the shallow wells during Phase II sampling are summarized below.

- Tritium was detected in 11 bedrock wells (RD-34A, RD-34B, RD-34C, RD-63, RD-64, RD-87, RD-88, RD-90, RD-93, RD-94, and RD-95) at concentrations from 33 pCi/L to 54,900 pCi/L during the Phase II sampling event. As described above two of these wells exceeded the MCL for H-3 (Figure 5.11).
- Strontium-90 (filtered) was detected in 13 bedrock wells at concentrations from 0.011 to 183 pCi/L. As described above only one well contained Sr-90 at a concentration exceeding the MCL.
- Cobalt-60 filtered was detected at a concentration of 0.51 pCi/L in bedrock well RD-07.
- Cesium-134 (filtered) was detected at concentrations from 0.46 to 0.71 pCi/L in bedrock wells RD-15 and RD-86. Two of the values were flagged with a “K” indicating that the reported values may be biased high and the actual value is expected to be lower.
- Cesium-137 (filtered) was detected at concentrations from 0.53 to 0.82 pCi/L in bedrock wells RD-27, RD-85 and RD-94.
- Curium-243/244 (filtered) was detected at concentrations from 0.0116 to 0.0275 pCi/L in bedrock wells RD-19, RD-56B.
- Curium-245/246 (filtered) was detected in eight bedrock wells (RD-19, RD-29, RD-33B, RD-56B, RD-86, RD-95, RD-97, and RD-98) at concentrations from 0.009 to 0.0234 pCi/L. With the exception of the sample collected from RD-95 all of these analyses were J flagged indicating that these are estimated values.
- Americium-241 (filtered) was detected at concentrations from 0.0022 to 0.0257 pCi/L in bedrock wells RD-13, RD-19, RD-29, RD-33B, RD-95, and RD-97.

5.2.2.3 Off-Site Wells

Twelve off-site wells (OS-2, OS-3, OS-4, OS-9, OS-9R, OS-10, RD-59A, RD-59B, RD-59C, RD-68A, RD-68B, and WS-09) were sampled during the Phase II sampling event.

Adjusted gross alpha activity was reported above the MCL (15 pCi/L) in the total fraction of the sample collected from well OS-10 at a concentration of 129 pCi/L. The filtered fraction (water only) of the sample had an adjusted concentration of 0.758 pCi/L. The suspended fraction (solids only) contained a concentration of 128.7 pCi/L (Figure 5.10).

Gross beta radiation also was reported above the MCL of 50 pCi/L in the total fraction of the sample collected at off-site well location OS-10, with a concentration of 145 pCi/L. The filtered fraction of the sample contained a concentration of 6.15 pCi/L, and the suspended fraction contained a concentration of 139 pCi/L (Figure 5.10).

OS-10 is an artesian well which at the time of sampling was not flowing. The sample collected was from ponded water associated with the well. The sample contained a high amount of sediment (solids) and the turbidity was 5,999 NTUs. An NTU of 50 is desired and an NTU of 10 is optimal (HGL, 2010). The elevated levels of suspended and total gross alpha and beta are attributed to the very high turbidity of the sample and is considered to be a result of naturally occurring radionuclides.

No other radionuclides were detected at concentrations greater than the MCL in any of the off-site wells sampled.

Anthropogenic radionuclides detected in the off-site wells sampled during the Phase II event and are presented on Table 5.3 and include the following:

- Strontium-90 (filtered) was detected at 0.079 pCi/L in off-site well OS-10.
- Tritium was detected at 110 pCi/L in off-site well RD-59A (Figure 5.10).

5.2.2.4 Wells Not Previously Sampled

A review of wells historically sampled for radionuclides was conducted, and according to MWH, radionuclides have been sampled for in 160 wells across the SSFL site since 1989 (MWH, 2009). The following wells sampled by USEPA are not shown in The Boeing Company database as having been sampled previously for radionuclides.

| | | | |
|--------|--------|--------|--------|
| PZ-005 | PZ-102 | PZ-112 | PZ-150 |
| PZ-041 | PZ-103 | PZ-113 | PZ-151 |
| PZ-055 | PZ-105 | PZ-114 | PZ-160 |
| PZ-056 | PZ-106 | PZ-120 | PZ-161 |
| PZ-098 | PZ-108 | PZ-121 | RS-23 |
| PZ-100 | PZ-109 | PZ-124 | |

Specifically, in the Area IV study area, with the exception of piezometer wells PZ-101, PZ-107, PZ-111, and PZ-116, only the piezometer wells have not previously been sampled for radionuclides. During 2010 and 2011 The Boeing Company did not collect samples from these wells for radionuclide analysis.

Anthropogenic radionuclides were detected in these wells are summarized below.

- Strontium-90 (filtered) was detected at concentrations from 0.041 to 0.06 pCi/L in wells PZ-105, PZ-109, PZ-120, PZ-121, PZ-150, and RS-18.
- Tritium was detected at concentrations from 33 to 75 pCi/L in wells PZ-005, PZ-056, PZ-114, PZ-150, and PZ-156.
- Cesium-137 (filtered) was detected at 0.71 pCi/L in well PZ-005.

In addition, during the Phase I and Phase II sampling events, the following piezometer wells contained radionuclides above the MCLs:

- PZ-105 (adjusted gross alpha Phase II),
- PZ-116 (U-233/U-234 and U-238 in Phase II only, as they were dry during Phase I),
- PZ-124 (U-233/U-234 and U-238 in Phase II only, as they were dry during Phase I),
- RS-23 (adjusted gross alpha and gross beta in Phase II only, as they were dry during Phase I).

As mentioned above, of the piezometer wells with radionuclides above the MCLs, only well PZ-116 has previously been sampled for radionuclides.

5.2.3 Screening Samples

At well locations where extremely slow recharge was anticipated or where the water column was less than 3 feet groundwater samples were collected prior to purging in case the wells were purged dry, and did not recover. These samples were reserved for possible analysis if there was inadequate recovery in the wells after purging and were designated screening samples. Six screening samples were collected during the Phase I sampling event and five screening samples were collected during the Phase II sampling event as shown on the following table.

| Piezometer/ Well Number | Sample Identification | Analytes Tested |
|----------------------------|-----------------------|-------------------------------|
| <i>Phase I Sampling</i> | | |
| PZ-056 | SMPZ-056-GW082410 | H-3 |
| PZ-114 | SMPZ-114-GW082410 | H-3 |
| PZ-150 | SMPZ150-GW082410 | H-3, Gamma Spec, Sr-90, Iso-U |
| PZ-151 | SMPZ-151-GW090110 | H-3 |
| PZ-160 | SMPZ-160-GW082410 | Priority 1 |
| RS-18 | SMRS-18-GW082310 | Priority 1 |
| <i>Phase II Sampling</i> | | |
| PZ-055 | SMPZ-055-GW033111 | H-3 |
| PZ-114 | SMPZ-114-GW032811 | H-3, Gamma Spec |
| PZ-151 | SMPZ-151-GW032811 | H-3, Gamma Spec |
| RS-23 | SMRS-23-GW033011 | Priority 1 |
| RS-27 | SMRS-27-GW033011 | Priority 1 |

The analytical data from these analyses is not representative of formation water; however, the resulting data was evaluated for the presence of gross contamination which may indicate potential impacts to the groundwater at these locations. No indications of gross contamination were noted in the analytical results for these samples; however, numerous anthropogenic radionuclides were detected at low concentrations. All analytical data results are presented in Appendix D.

5.3 COMPARISON OF USEPA DATA TO THE BOEING COMPANY DATA

Comparability between The Boeing Company sample results and the HGL sample results are determined by the Z_{DUP} , as defined in the QAPP (HGL, 2010b). The reported uncertainty in The Boeing Company data is assumed to be a total propagated uncertainty (TPU), reported at the 2σ confidence interval. The following Z_{DUP} assessments are based on that assumption.

Sample results that have been rejected, including all HGL results for barium-133, are not included in the evaluation. Similarly, results were not included in this evaluation unless both The Boeing Company and HGL have provided results for a given analyte at a sampling location.

The Phase I comparison consisted of 16 sample locations, from which sample volumes were collected simultaneously, except for three locations, for which The Boeing Company sampling event and the HGL sampling event were separated by one to 78 days, depending on the location. The data used in the comparison is presented in Table D.3. The Boeing data was taken from Boeing's 2010 Report on Annual Groundwater Monitoring (MWH, 2011a).

The Phase I results indicate a generally favorable comparison between The Boeing Company results and the HGL results, with the following significant exceptions:

- There appears to be a general bias, particularly in the dissolved sample fractions, in which the HGL result is higher than the Boeing result. This bias is particularly evident in those results for which measurable activity is consistently reported, such as gross alpha, gross beta, and isotopic uranium, but may affect other analytes as well. The source of the bias is not conclusively determined, but may be related to differences in the sample pre-treatment procedures such as filtering and preservation, employed by the two different laboratories that produced the data.
- Regardless of the root cause of the apparent bias, it should also be recognized that the gross alpha and gross beta results are intended as gross screening measurements and are subject to considerable uncertainty, beyond the analytical uncertainty reported by either laboratory. This may generally be considered a method limitation and undue reliance on the precision or accuracy of gross alpha or gross beta measurement results should be discouraged.
- It should be generally recognized that the rest of the reported results, either for The Boeing Company, for HGL, or both, may be subject to a minor underestimate of the reported uncertainty. Uncertainty reporting is very much a laboratory-specific issue and there is likely to be little uniformity in different laboratories' assessment of the contributing sources of uncertainty and their associated magnitudes.

The Phase II comparison consists of 19 sample locations, from which sample volumes were not collected simultaneously. The Boeing Company samples were collected in January, 2011 and the HGL samples were collected in March and April, 2011. The data used in the comparison

is presented in Table D.4. The Boeing data was taken from Boeing's 2011 Report on Annual Groundwater Monitoring (MWH, 2011b).

The Phase II results, while being generally favorable, are subject to the following considerations:

- As with the Phase I results, there may be a general bias in the dissolved fraction analyses, with HGL reporting higher results than Boeing.
- As with the Phase I results, the inherent uncertainty in the gross alpha and gross beta methodologies should be recognized and the use of those results for assessing the data quality or making analytical decisions should be generally avoided.
- Also similar to the Phase I assessment, the potential general under-reporting of method uncertainty should be recognized and considered in the use of the data.
- The most significant issue in the Phase II assessment, however, may be the collection of samples over an extended period of time. This sampling practice contributes a degree of uncertainty to the evaluation that may be significant and is likely impossible to indentify without actual split sample analyses, as in Phase I.

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6.0 SUMMARY AND CONCLUSIONS

USEPA was tasked to conduct two phases of groundwater sampling events from wells located in ETEC Area IV, NBZ, and at off-site locations. The two groundwater sampling events represented a dry (summer) period and a wet period. Phase I sampling was performed in August and September 2010 and consisted of sampling 68 wells. Phase II sampling was performed in March and April 2011 and consisted of sampling 93 wells.

The analytical results from both phases of sampling identified gross alpha, gross beta, U-233/234, U-238, Sr-90, and H-3 at concentrations exceeding the MCLs. The gross alpha, gross beta, U-233/234, and U-238 concentrations appear to be attributed to suspended solids; thus, do not reflect actual exceedances of the MCLs. Strontium-90 was detected at concentrations exceeding the MCL in the groundwater sample collected from well RD-98 immediately downgradient of the RMHF and in the vicinity of a former septic tank system. Tritium was detected at concentrations exceeding the MCL in three wells immediately north of the former Building 4010. In general, recently collected Boeing groundwater data correlated closely to the USEPA data with a few minor exceptions relating to gross alpha and gross beta analyses, and method uncertainty.

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TABLES

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Table 3.1
Radionuclides Analyzed
Groundwater Sampling

| Symbol | Radionuclide | Half-Life ¹ | Units | Priority 1 Groundwater Analytes | Priority 2 Groundwater Analytes |
|---------|-------------------------------|------------------------|---------|---------------------------------|---------------------------------|
| Ac-227 | actinium-227 | 21.772 | Years | ● | |
| Ac-228 | actinium-228 | 6.15 | Hours | ● | |
| Ag-108 | silver-108 | 2.37 | Minutes | ● | |
| Ag-108m | silver 108m | 418 | Years | ● | |
| Am-241 | americium-241 | 432.6 | Years | | ● |
| Am-243 | americium-243 | 7,370 | Years | ● | |
| Ba-133 | barium-133 | 10.5 | Years | ● | |
| Ba-137m | barium-137m | 2.552 | Minutes | ● | |
| Bi-212 | bismuth-212 | 60.55 | Minutes | ● | |
| Bi-214 | bismuth-214 | 19.9 | Minutes | ● | |
| C-14 | carbon-14 | 5,700 | Years | | ● |
| Cd-113m | cadmium-113m | 14.1 | Years | ● | |
| Cf-249 | californium-249 | 351 | Years | ● | |
| Cm-243 | curium-243 | 29.1 | Years | | ● |
| Cm-244 | curium-244 | 18.1 | Years | | ● |
| Cm-245 | curium-245 | 8,500 | Years | | ● |
| Cm-246 | curium-246 | 4,760 | Years | | ● |
| Co-60 | cobalt-60 | 5.275 | Years | ● | |
| Cs-134 | cesium-134 | 2.0652 | Years | ● | |
| Cs-137 | cesium-137 | 30.08 | Years | ● | |
| Eu-152 | europium-152 | 13.537 | Years | ● | |
| Eu-154 | europium-154 | 8.593 | Years | ● | |
| Eu-155 | europium-155 | 4.753 | Years | ● | |
| H-3 | tritium (hydrogen-3), organic | 12.32 | Years | ● | |
| Ho-166m | holmium-166m | 1,230 | Years | ● | |
| I-129 | iodine-129 | 1.57E+07 | Years | | ● |
| K-40 | potassium-40 | 1.25E+09 | Years | ● | |
| Na-22 | sodium-22 | 2.6027 | Years | ● | |
| Nb-94 | niobium-94 | 2.03E+04 | Years | ● | |
| Np-236a | neptunium-236a | 1.53E+05 | Years | ● | |
| Np-237 | neptunium-237 | 2.14E+06 | Years | | ● |
| Np-239 | neptunium-239 | 2.356 | Days | ● | |
| Pa-231 | protactinium-231 | 32,760 | Years | ● | |
| Pb-212 | lead-212 | 10.64 | Days | ● | |
| Pb-214 | lead-214 | 26.8 | Minutes | ● | |
| Pu-238 | plutonium-238 | 87.7 | Years | | ● |
| Pu-239 | plutonium-239 | 24,110 | Years | | ● |
| Pu-240 | plutonium-240 | 6,563 | Years | | ● |
| Pu-242 | plutonium-242 | 375,000 | Years | | ● |

**Table 3.1
Radionuclides Analyzed
Groundwater Sampling**

| Symbol | Radionuclide | Half-Life ¹ | Units | Priority 1 Groundwater Analytes | Priority 2 Groundwater Analytes |
|-----------------------|----------------|------------------------|---------|---------------------------------|---------------------------------|
| Ra-226 | radium-226 | 1,600 | Years | | ● |
| Sb-125 | antimony-125 | 2.7586 | Years | ● | |
| Sn-126 | tin-126 | 2.30E+05 | Years | ● | |
| Sr-90 | strontium-90 | 28.8 | Years | ● | |
| Tc-99 | technetium-99 | 211,100 | Years | | ● |
| Te-125m | tellurium-125m | 57.4 | Days | ● | |
| Th-231 | thorium-231 | 25.52 | Hours | ● | |
| Th-234 | thorium-234 | 24.1 | Days | ● | |
| Tl-208 | thallium-208 | 3.053 | Minutes | ● | |
| Tm-171 | thulium-171 | 1.92 | Years | ● | |
| U-233 | uranium-233 | 1.59E+05 | Years | ● | |
| U-234 | uranium-234 | 245,500 | Years | ● | |
| U-235 | uranium-235 | 7.04E+08 | Years | ● | |
| U-236 | uranium-236 | 2.34E+07 | Years | ● | |
| U-238 | uranium-238 | 4.47E+09 | Years | ● | |
| Gross Alpha Radiation | N/A | NA | N/A | ● | |
| Gross Beta Radiation | N/A | NA | N/A | ● | |

Notes:

¹Those radionuclides with short half-lives (i.e., less than two years) are either NORM radionuclides and are present because they are in secular equilibrium with much longer-lived parent radionuclides, (e.g.; Ac-228), or they are related to another radionuclide of interest (e.g.; Ba-137m is a daughter of Cs-137 with a 2.5 minute half-life).

NA - not applicable

Table 3.2
Water Quality Parameter Readings
Phase I Groundwater Sampling

| Well ID | Date | Time | Depth to Water (feet) | Flow Rate (gpm) | Total Volume (gallons) | Ph | Temp (°C) | Conductivity (µmhos/cm) | ORP | DO (mg/L) | Turbidity (NTU) | Comments |
|---------|-----------|------|-----------------------|-----------------|------------------------|------|-----------|-------------------------|-----|-----------|-----------------|---|
| ES-31 | 8/24/2010 | 1204 | 16.84 | 500 | 50,000 | 6.99 | 25.62 | 0.794 | 95 | 3.19 | 24 | Flow rate in units of mL/min, volume in mL, conductivity in mS/cm. |
| PZ-005 | 8/30/2010 | 1413 | 18.33 | 200 | 7,650 | 6.86 | 22.03 | 1130 | 88 | 3.85 | 62.9 | Flow rate in units of mL/min, volume in mL. |
| PZ-041 | 8/27/2010 | 1155 | 14.4 | 50 | 1,050 | 7.26 | 27.47 | 954 | 106 | 1.78 | 19.6 | Flow rate in units of mL/min, volume in mL. |
| PZ-052 | 8/30/2010 | 1401 | 25.51 | 50 | 1,000 | 7.04 | 23.10 | 1229 | 68 | 2.27 | 23.3 | Flow rate in units of mL/min, volume in mL. Sampling halted at 1630, and continued the next day. |
| PZ-052 | 8/31/2010 | 1017 | 25.94 | 50 | 1,300 | 6.84 | 21.93 | 1117 | 87 | 2.21 | 8.8 | Flow rate in units of mL/min, volume in mL. |
| PZ-056 | 8/24/2010 | 1210 | 30.04 | -- | -- | -- | -- | -- | -- | -- | -- | Pre-purge sample. Sample was cloudy and gray in color, only Tritium sample was collected. No recharge. |
| PZ-098 | 8/31/2010 | 1236 | 31.25 | 50 | 2,600 | 6.73 | 24.35 | 1288 | 102 | 2.09 | 6 | Flow rate in units of mL/min, volume in mL. |
| PZ-100 | 8/30/2010 | 924 | 12.73 | 50 | 1,900 | 7.16 | 19.41 | 1252 | 85 | 3.6 | 13.4 | Flow rate in units of mL/min, volume in mL. |
| PZ-101 | 8/30/2010 | 1025 | DRY | -- | -- | -- | -- | -- | -- | -- | -- | Attempted sampling with bailer four times, well dry unable to sample. |
| PZ-102 | 8/24/2010 | 1420 | DRY | -- | -- | -- | -- | -- | -- | -- | -- | Well dry, attempted sampling with bailer. |
| PZ-103 | 8/23/2010 | 1342 | 27.08 | 500 | 28,000 | 7.27 | 23.35 | 1.236 | 90 | 4.16 | 47 | Flow rate in units of mL/min, volume in mL, conductivity in mS/cm. |
| PZ-105 | 8/26/2010 | 1432 | 19.95 | 50 | 2,150 | 7.27 | 27.98 | 909 | -27 | 0.31 | 16 | Due to low flow and time constraints, sampling split between two days. Flow rate units in mL/min, volume in mL. |
| PZ-105 | 8/27/2010 | 751 | 19.55 | 50 | 1,400 | 7.09 | 23.36 | 916 | 190 | 1.37 | 3 | Due to low flow and time constraints, sampling split between two days. Flow rate units in mL/min, volume in mL. |
| PZ-106 | 8/26/2010 | 1101 | 18.02 | 100 | 5,875 | 6.97 | 22.91 | 892 | 43 | 0.35 | 1 | Flow rate in units of mL/min, volume in mL. |
| PZ-108 | 8/27/2010 | 808 | 13.69 | 75 | 1,200 | 7.04 | 23.16 | 1094 | 181 | 1.4 | 29.9 | Flow rate in units of mL/min, volume in mL. |
| PZ-109 | 8/25/2010 | 1255 | 17.48 | 50 | 2,150 | 7.57 | 33.91 | 1029 | 53 | 2.99 | 44.7 | Flow rate in units of mL/min, volume in mL. |
| PZ-112 | 8/31/2010 | 837 | 29.7 | 100 | 2,400 | 6.25 | 19.65 | 1132 | 131 | 3.07 | 13 | Flow rate in units of mL/min, volume in mL. |
| PZ-114 | 8/24/2010 | 1100 | 49.73 | -- | -- | 7.07 | 24.00 | 1256 | 276 | 5.24 | 2000 | Pre-purge sample. Sample was cloudy and gray in color, only Tritium sample was collected. No recharge. |
| PZ-120 | 8/27/2010 | 1022 | 18.15 | 50 | 1,850 | 7.00 | 27.02 | 868 | 42 | 0.66 | 5 | Flow rate in units of mL/min, volume in mL. |
| PZ-122 | 8/27/2010 | 1345 | 17.33 | 50 | 1,800 | 6.74 | 24.31 | 1003 | 89 | 0.58 | 9 | Flow rate in units of mL/min, volume in mL. |
| PZ-121 | 9/1/2010 | 948 | 19.02 | 50 | 1,400 | 6.16 | 28.34 | 1065 | 170 | 1.44 | 16.4 | Flow rate in units of mL/min, volume in mL. |
| PZ-150 | 8/24/2010 | 940 | 28.1 | -- | -- | 7.4 | 31.07 | 1438 | 198 | 4.3 | 5 | Unable to collect complete sample, no recharge, sample bottle only 75% full. Attempted sample collection next day; no recharge. |
| PZ-151 | 9/1/2010 | 1435 | 78.93 | -- | -- | 6.87 | 25.07 | 201 | 194 | 2.37 | 170 | Bailer used to collect sample. |
| PZ-160 | 8/24/2010 | 847 | 26.8 | -- | -- | 7.04 | 25.32 | 181 | 80 | 2.6 | 1.7 | Bailer used to collect sample. |
| PZ-161 | 8/25/2010 | 952 | 25.8 | 75 | 2,025 | 6.83 | 26.17 | 2.5 | 65 | 1.91 | 20 | Flow rate in units of mL/min, volume in mL, conductivity in mS/cm. |
| RD-07 | 9/1/2010 | 915 | -- | -- | 6.13 | -- | -- | -- | -- | -- | -- | FLUTE™ well - sampled from Port #3. |
| RD-13 | 8/24/2010 | 1010 | 66.65 | 2 | 20 | 7.38 | 19.85 | 0.714 | 69 | 2.12 | 90 | Well purged dry on 8/23/2010 and sampled 8/24/2010. |
| RD-14 | 8/19/2010 | 1145 | 82.91 | -- | -- | 7.00 | 25.34 | 922 | 73 | 1.66 | 132 | Well purged dry on 8/18/2010 and sampled 8/19/2010. |

Table 3.2
Water Quality Parameter Readings
Phase I Groundwater Sampling

| Well ID | Date | Time | Depth to Water (feet) | Flow Rate (gpm) | Total Volume (gallons) | Ph | Temp (°C) | Conductivity (µmhos/cm) | ORP | DO (mg/L) | Turbidity (NTU) | Comments |
|---------|-----------|------|-----------------------|-----------------|------------------------|------|-----------|-------------------------|------|-----------|-----------------|--|
| RD-15 | 8/26/2010 | 1502 | -- | 3 | 629 | 7.30 | 20.93 | 854 | -14 | 2.81 | 14.3 | Obstruction in well, unable to collect depth to water readings. |
| RD-16 | 9/1/2010 | 1230 | -- | 2 | 920 | 7.11 | 21.25 | 839 | -71 | 0.15 | 0 | Water table too low to collect depth to water readings. |
| RD-17 | 8/25/2010 | 845 | 32.49 | 6 | 30 | 6.76 | 20.64 | 874 | 192 | 1.96 | 41.3 | Well purged dry on 8/24/2010 and sampled 8/25/2010. |
| RD-18 | 8/19/2010 | 1100 | 202.51 | -- | -- | 7.29 | 23.50 | 568 | 52 | 1.7 | 9.4 | Well purged dry on 8/18/2010 and sampled 8/19/2010. |
| RD-19 | 8/19/2010 | 1330 | 80.14 | -- | -- | 6.52 | 22.78 | 1600 | 71 | 1.57 | 33 | Well purged dry on 8/18/2010 and sampled 8/19/2010. |
| RD-20 | 8/26/2010 | 1026 | 51.62 | 7 | 609 | 7.29 | 21.37 | 1403 | 5 | 0.25 | 24.6 | |
| RD-21 | 9/9/2010 | 918 | -- | -- | 2.00 | 6.58 | 18.20 | 1.253 | 185 | 1.1 | 13.3 | FLUTE™ well - sampled from Port #2, sulfur odor. Parameter readings collected same day as sample. Conductivity units in mS/cm. |
| RD-22 | 9/9/2010 | 929 | -- | -- | -- | 6.87 | 18.97 | 1.448 | 113 | 0.59 | 24 | FLUTE™ well - sampled from Port #2. Parameter readings collected same day as sample. Conductivity units in mS/cm. |
| RD-23 | 9/2/2010 | 850 | -- | -- | -- | 7.11 | 22.05 | 0.563 | -123 | 2.13 | 4.6 | FLUTE™ well -sampled from Port #3. Well purged and sampled on 9/1/2010. MWH downloaded parameters 9/2/2010. |
| RD-24 | 8/31/2010 | 1408 | 121.69 | 5 | 610 | 7.10 | 21.26 | 934 | -25 | 0.42 | 11.1 | |
| RD-27 | 9/3/2010 | 810 | 53.94 | -- | 15 | 7.23 | 20.10 | 601 | 164 | 1.06 | 15 | Well purged dry on 9/2/2010 and sampled 9/3/2010. |
| RD-29 | 8/31/2010 | 845 | 16.31 | 7 | 90 | 7.15 | 21.76 | 914 | 43 | 5.66 | 17.5 | Well purged on 8/30/2010 (pump stopped working) and sampled 8/31/2010. |
| RD-33A | 8/18/2010 | 1239 | -- | -- | 10 | -- | -- | -- | -- | -- | -- | FLUTE™ well - sampled from Port #2. Well purged on 8/17/2010 and sampled 8/18/2010. Parameter readings are not part of BL Hall protocol. |
| RD-33B | 9/2/2010 | 1220 | 304.33 | -- | 61 | 7.43 | 21.50 | 744 | -153 | 0.53 | 0 | Well purged on 9/1/2010 and sampled 9/2/2010. |
| RD-33C | 9/3/2010 | 926 | 287.73 | 6 | 1,202 | 7.44 | 24.26 | 685 | -144 | 0.85 | 55 | Well purged dry on 9/2/2010 and sampled 9/3/2010. |
| RD-34A | 8/20/2010 | 815 | 42.05 | 0.5 | 10 | 6.89 | 23.39 | 1.251 | 98 | 2.12 | 9 | Well purged dry on 8/19/2010 and sampled 8/20/2010. Conductivity units in mS/cm. |
| RD-34B | 8/20/2010 | 855 | 44.89 | 10 | 100 | 7.54 | 20.06 | 0.96 | -70 | 1.96 | 19 | Well purged dry on 8/19/2010 and sampled 8/20/2010. |
| RD-34C | 8/30/2010 | 1232 | 78.55 | 8 | 2,194 | 7.25 | 21.53 | 553 | -84 | 0.13 | 1 | |
| RD-50 | 8/17/2010 | 1013 | -- | -- | 1.50 | -- | -- | -- | -- | -- | -- | FLUTE™ well - sampled from Port #2. Parameter readings are not part of BL Hall protocol. |
| RD-54A | 9/2/2010 | 810 | -- | -- | -- | 6.84 | 22.09 | 0.817 | -161 | 0.74 | 6.2 | FLUTE™ well - sampled from Port #2 on 9/1/2010. MWH downloaded parameter readings on 9/2/2010. Conductivity units in mS/cm. |
| RD-54B | 8/31/2010 | 1610 | 314.55 | 5 | 10 | 6.97 | 20.78 | 820 | 83 | 2.37 | 9 | Well purged dry on 8/30/2010 and sampled 8/31/2010. |
| RD-54C | 9/1/2010 | 1454 | 435.49 | 4 | 8 | 8.45 | 20.75 | 627 | -105 | 1.49 | 30 | Well purged dry on 8/31/2010 and sampled 9/1/2010. |
| RD-56A | 8/26/2010 | 740 | 342.3 | 4 | 40 | 7.16 | 17.86 | 1021 | 206 | 3.48 | 40.7 | Well purged dry on 8/25/2010 and sampled 8/26/2010. |
| RD-56B | 8/31/2010 | 1225 | 182.82 | 15.5 | 3,577 | 7.30 | 22.95 | 720 | -129 | 0.2 | 0 | |
| RD-57 | 8/17/2010 | 1033 | -- | -- | 1.50 | -- | -- | -- | -- | -- | -- | FLUTE™ well - sampled from Port #7. Parameter readings not part of BL Hall protocol. |
| RD-63 | 9/2/2010 | 1000 | -- | 6.5 | 1,099 | 6.78 | 22.17 | 1205 | 45 | 0.5 | 0 | |
| RD-64 | 9/9/2010 | 1530 | -- | -- | 1.50 | 6.66 | 19.74 | 0.814 | 84 | 0.49 | 0 | FLUTE™ well- sampled from Port #6 on 9/10/2010. Parameter readings collected during purging on 9/9/2010; conductivity units in mS/cm. |

Table 3.2
Water Quality Parameter Readings
Phase I Groundwater Sampling

| Well ID | Date | Time | Depth to Water (feet) | Flow Rate (gpm) | Total Volume (gallons) | Ph | Temp (°C) | Conductivity (µmhos/cm) | ORP | DO (mg/L) | Turbidity (NTU) | Comments |
|---------|-----------|------|-----------------------|-----------------|------------------------|------|-----------|-------------------------|-------|-----------|-----------------|--|
| RD-65 | 9/2/2010 | -- | -- | -- | -- | 7.44 | 2332 | 0.588 | 63 | 1.8 | 15.5 | FLUTE™ well - Sampling split between 2 days, sampled from Port # 6 on 9/1/2010 and from Port #7 on 9/2/2010. Water levels downloaded by Montgomery Watson Harza. |
| RD-70 | 8/23/2010 | 1032 | 144.62 | 7 | 693 | 7.04 | 20.48 | 1009 | -98 | 0.06 | 2 | |
| RD-85 | 8/19/2010 | 910 | 82.81 | -- | -- | 6.76 | 28.98 | 1328 | 106 | 4.79 | 9.6 | Well purged dry on 8/18/2010 and sampled 8/19/2010. |
| RD-86 | 8/19/2010 | 1440 | 56.62 | -- | -- | 6.55 | 20.71 | 908 | 93 | 4.94 | 18.1 | Well purged dry on 8/18/2010 and sampled 8/19/2010. |
| RD-87 | 9/2/2010 | 910 | 50.71 | -- | -- | 6.61 | 20.30 | 1215 | 104 | 1.54 | 10 | Well purged dry on 9/1/2010 and sampled 9/2/2010. |
| RD-88 | 9/2/2010 | 935 | 27.75 | -- | -- | 6.81 | 21.11 | 1027 | 89 | 1.77 | 44 | Due to water column less than 3 feet, sample was hand bailed. Pre-purge sample was collected on 9/1/2010. Well recharged and sample collected 9/2/2010. |
| RD-90 | 9/2/2010 | 1005 | 36.13 | -- | -- | 6.81 | 21.11 | 1027 | 89 | 1.77 | 44 | Well purged dry on 9/1/2010 and sampled 9/2/2010. |
| RD-91 | 8/25/2010 | 845 | 124.01 | 2 | 10 | 6.70 | 25.46 | 1.156 | 38 | 1.88 | 44 | Conductivity units in ms/cm. Well purged dry on 8/24/2010 and sampled 8/25/2010. |
| RD-92 | 8/24/2010 | 1125 | 62.52 | 2 | 20 | 7.20 | 21.06 | 0.498 | 77 | 2.69 | 25 | Well purged dry on 8/23/2010 and sampled 8/24/2010. |
| RD-93 | 9/2/2010 | 1040 | 34.59 | -- | -- | 6.64 | 22.82 | 1500 | 94 | 1.22 | 40 | Well purged dry on 9/1/2010 and sampled 9/2/2010. |
| RD-94 | 8/31/2010 | 755 | 19.15 | 4 | -- | 6.95 | 17.08 | 1229 | -4 | 4.5 | 876 | Well purged dry on 8/30/2010 and sampled 8/31/2010. |
| RD-95 | 9/2/2010 | 1120 | 53.02 | -- | -- | 6.45 | 21.97 | 1400 | 107 | 1.9 | 1497 | Well purged dry on 9/1/2010 and sampled 9/2/2010. |
| RD-96 | 8/19/2010 | 800 | 60.21 | -- | -- | 6.65 | 21.18 | 978 | 121 | 1.96 | 42 | Well purged dry on 8/18/2010 and sampled 8/19/2010. |
| RD-98 | 9/2/2010 | 740 | 40.49 | -- | -- | 6.71 | 19.31 | 775 | 109 | 1.39 | 31 | Well purged dry on 9/1/2010 and sampled 9/2/2010. |
| RS-11 | 8/26/2010 | 1535 | DRY | -- | -- | -- | -- | -- | -- | -- | -- | Well was dry, unable to sample. Depth to bottom: 17.83 feet. |
| RS-18 | 8/23/2010 | 1008 | DRY | 0.11 | 1.00 | 7.06 | 21.39 | 1.041 | 87.00 | 4.07 | 48.00 | Conductivity units in mS/cm. Due to water column less than 3 feet, well hand bailed. Well did not recharge. |
| RS-25 | 8/25/2010 | 750 | 14.71 | -- | -- | 6.52 | 23.38 | 989 | 245 | 2.64 | 348 | Sample was cloudy and gray in color, only Tritium sample was collected. No recharge. |
| RS-54 | 8/30/2010 | 1243 | 43.9 | 8 | -- | -- | -- | -- | -- | -- | -- | Well pumped dry within 3 minutes, unable to collect parameters. No recharge, unable to sample. |
| WS-07 | 8/27/2010 | 1103 | 77.69 | 13.75 | 12,060 | 7.16 | 22.42 | 810 | -70 | 0.72 | 15 | |

Notes:

-- data not available

Temp - temperature

°C - degrees Celsius

µmhos/cm - micromhos per centimeter

DO - dissolved oxygen

FLUTE™ - Flexible Liner Underground Technologies

gpm - gallons per minute

ID - identification

mg/L - milligrams per liter

mL - milliliter

mL/min - milliliters per minute

mS/cm - millisiemens per centimeter

NTU - nephelometric turbidity unit

ORP - oxidation reduction potential

Table 3.3
Water Quality Parameter Readings
Phase II Groundwater Sampling

| Well ID | Date | Time | Depth To Water (feet) | Flow Rate (gpm) | Total Volume (gallons) | Ph | Temp (°C) | Conductivity (µmhos/cm) | ORP | DO (mg/L) | Turbidity (NTU) | Comments |
|---------|-----------|------|-----------------------|-----------------|------------------------|------|-----------|-------------------------|------|-----------|-----------------|---|
| ES-31 | 3/25/2011 | 820 | 5.9 | 3 | 6.00 | 6.16 | 17.46 | 857 | 161 | 4.93 | 60.9 | Well purged dry on 3/34/2011 and sampled 3/25/2011. |
| OS-02 | 4/18/2011 | 1240 | -- | -- | -- | 8.27 | 17.3 | 783 | 28.8 | 6.87 | 79.1 | Artesian well (Bathtub Well), sample collected directly from bathtub. Observation: algae and tadpoles in well. |
| OS-03 | 4/18/2011 | 1152 | -- | -- | -- | 7.54 | 18.95 | 786 | 114 | 3.28 | 10.5 | Artesian well; above ground collection. Parameter readings collected on 4/18/2011, however, due to a Federal Express error well resampled 4/21/2011. |
| OS-04 | 4/18/2011 | 1130 | -- | -- | -- | 7.12 | 16.31 | 1009 | -98 | 3.47 | 86.1 | Artesian well; sampled directly from casing at ground level. Parameter readings collected 4/18/2011, however, due to a Federal Express error, well resampled 4/21/2011. |
| OS-05 | 4/18/2011 | 1150 | -- | -- | -- | -- | -- | -- | -- | -- | -- | Artesian well dry - no sample collected. |
| OS-09 | 4/18/2011 | 1455 | -- | -- | -- | 8.54 | 17.6 | 878 | -247 | 1.83 | 23.3 | Artesian well; sample collected from ponded area, no water flowing. |
| OS-9R | 4/1/2011 | 855 | -- | -- | -- | -- | 19.14 | -- | -- | -- | -- | Westbay Pump System. Sample port readings (Port #1): Depth to probe: 35.9 feet; fluid pressure readings: 29.89 psia (inside casing), 31.21 psia (outside casing); Temp.: 19.14 °C (outside casing). |
| OS-10 | 4/18/2011 | 1545 | -- | -- | -- | 8 | 18.72 | 699 | -86 | 4.00 | 5999 | Artesian well; sample collected from ponded area, no flowing water. |
| PZ-005 | 3/23/2011 | 847 | 14.41 | 200 | 3800 | 7.11 | 18.54 | 1072 | 166 | 6.36 | 2000 | Flow rate units in mL/min, volume units in mL. |
| PZ-041 | 3/25/2011 | 949 | 7.2 | 50 | 1305 | 7.12 | 15.51 | 1.098 | -176 | 0.74 | 16.5 | Flow rate units in mL/min, volume units in mL. Conductivity units in mS/cm. |
| PZ-052 | 3/31/2011 | 942 | 17.27 | 50 | 1300 | 7.1 | 20.81 | 1026 | 92 | 4.72 | 36 | Flow rate units in mL/min, volume units in mL. |
| PZ-055 | 3/31/2011 | 810 | -- | -- | -- | -- | -- | -- | -- | -- | -- | Water column less than 3 feet. Bailer used to collect partial tritium sample. Groundwater was silty and murky. |
| PZ-056 | 3/28/2011 | 1021 | 9.06 | 75 | 3600 | 6.37 | 16.13 | 0.401 | -228 | 0.32 | 17.9 | Flow rate units in mL/min, volume units in mL. Conductivity units in mS/cm. |
| PZ-073 | 4/19/2011 | 915 | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well dry, no sample collected. |
| PZ-098 | 3/29/2011 | 1117 | 20.81 | 50 | 2475 | 6.68 | 18.97 | 1.129 | -172 | 3.01 | 6.7 | Flow rate units in mL/min, volume units in mL. Conductivity units in mS/cm. |
| PZ-100 | 3/18/2011 | 944 | 11.05 | 50 | 1800 | 7.38 | 15.69 | 1425 | 170 | 6.08 | 27 | Flow rate units in mL/min, volume units in mL. |
| PZ-101 | 3/28/2011 | 851 | 7.34 | 50 | 1050 | 7.49 | 17.2 | 780 | 187 | 5.74 | 304 | Flow rate units in mL/min, volume units in mL. |
| PZ-102 | 3/30/2011 | 1004 | 51.58 | 50 | 2150 | 6.44 | 19.51 | 261 | 134 | 6.45 | 294 | Flow rate units in mL/min, volume units in mL. |
| PZ-103 | 3/25/2011 | 1229 | 24.08 | 500 | 53,000 | 7.34 | 19.8 | 1097 | 132 | 5.65 | 532 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-105 | 3/23/2011 | 1103 | 14.66 | 50 | 1450 | 7.66 | 18 | 937 | 166 | 3.87 | 331 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-106 | 3/18/2011 | 1019 | 12.93 | 75 | 2925 | 6.89 | 16.9 | 919 | 104 | 4.17 | 12 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-108 | 3/17/2011 | 1231 | 9.19 | 50 | 1300 | 6.88 | 17.17 | 1022 | 80 | 3.67 | 0 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-109 | 3/24/2011 | 1344 | 14.38 | 50 | 1725 | 7.52 | 16.29 | 1085 | -34 | 2.20 | 320 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-110 | 3/21/2011 | 1230 | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well dry, no sample collected. |
| PZ-111 | 3/31/2011 | 1132 | 19.4 | 50 | -- | 7.65 | 21.31 | 927 | 98 | 3.76 | 195 | Flow rate in units of mL/min. |
| PZ-112 | 3/18/2011 | 908 | 25.99 | 50 | 2250 | 6.25 | 17.62 | 0.943 | -188 | 2.22 | 15.8 | Flow rate in units of mL/min, volume in units of mL. Conductivity units in mS/cm. |
| PZ-113 | 3/29/2011 | 1548 | 12.71 | 50 | -- | 6.85 | 24.11 | 504 | 94 | 1.31 | 274 | Flow rate in units of mL/min. |

Table 3.3
Water Quality Parameter Readings
Phase II Groundwater Sampling

| Well ID | Date | Time | Depth To Water (feet) | Flow Rate (gpm) | Total Volume (gallons) | Ph | Temp (°C) | Conductivity (µmhos/cm) | ORP | DO (mg/L) | Turbidity (NTU) | Comments |
|---------|-----------|------|-----------------------|-----------------|------------------------|------|-----------|-------------------------|------|-----------|-----------------|--|
| PZ-114 | 3/28/2011 | 1247 | 48.87 | -- | -- | 7.25 | 18.47 | 1135 | 154 | 6.71 | 190 | Water column less than 3 feet. Hand bailed well dry, no recharge. Collected pre-purge Tritium and partial gamma spec samples only. |
| PZ-116 | 3/29/2011 | 1034 | 20.68 | 50 | 1600 | 6.43 | 18.31 | 2240 | 169 | 5.40 | 17 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-120 | 3/17/2011 | 913 | 14.86 | 50 | 1850 | 6.98 | 14.61 | 804 | 223 | 2.40 | 7 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-121 | 3/16/2011 | 1354 | 18.35 | 50 | 1550 | 6.18 | 20.36 | 872 | 216 | 4.85 | 20 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-122 | 3/17/2011 | 953 | 9.59 | 50 | 1750 | 6.87 | 16.94 | 1020 | 225 | 3.30 | 11 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-124 | 3/30/2011 | 943 | 25.17 | 50 | 1350 | 6.83 | 16.77 | 2810 | 148 | 2.70 | 12 | Flow rate in units of mL/min, volume in units of mL. |
| PZ-143 | 3/21/2011 | 1300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well dry, no sample collected. |
| PZ-150 | 3/22/2011 | 1052 | 18.27 | 50 | 2400 | 7.4 | 16.1 | 1.216 | -153 | 5.79 | 5 | Flow rate in units of mL/min, volume in units of mL. Conductivity units in mS/cm. |
| PZ-151 | 3/28/2011 | 1320 | 77.63 | -- | -- | 6.94 | 22.09 | 1560 | 144 | 2.36 | 138 | Water column less than 3 feet. Hand bailed well dry, no recharge. Collected pre-purge Tritium and partial gamma spec samples only. |
| PZ-160 | 3/23/2011 | 1050 | 24.6 | 60 | 1800 | 6.8 | 17.36 | 1.63 | -154 | 2.74 | 7.5 | Flow rate in units of mL/min, volume in units of mL. Conductivity units in mS/cm. |
| PZ-161 | 3/24/2011 | 1016 | 24.46 | 7.5 | 1310 | 6.9 | 16.12 | 2.45 | -149 | 2.40 | 4.8 | Flow rate in units of mL/min, volume in units of mL. Conductivity units in mS/cm. |
| RD-07 | 4/4/2011 | 1150 | -- | -- | 6 | 6.61 | 19.9 | 0.699 | -229 | 4.22 | 21.7 | FLUTe™ well, sampled from Port #3. Hydrogen sulfide odor in well. |
| RD-13 | 3/29/2011 | 908 | 70.28 | -- | -- | 7.12 | 19.34 | 0.723 | -224 | 0.57 | 3.4 | Purged well on 3/28/2011 and sampled on 3/29/2011. Conductivity units in mS/cm. |
| RD-14 | 3/21/2011 | 1540 | 90.1 | -- | -- | 7.05 | 20.05 | 0.947 | -232 | 0.14 | 9.1 | Conductivity units in mS/cm. |
| RD-15 | 3/29/2011 | 1112 | 82.52 | 3 | 532.5 | 7.14 | 21 | 820 | -122 | 0.24 | 109 | At approximately 400 gallons, the water turned a brownish color. |
| RD-16 | 4/20/2011 | 900 | -- | 3.5 | 926 | 7.12 | 18.79 | 0.844 | -147 | 0.29 | 13.6 | Two days to purge well. Well sampled at 1440 on 4/20/2011 once recharged (Final depth to water at time of sampling was 42.20 feet below top of casing) |
| RD-17 | 3/25/2011 | 950 | 31.8 | 2 | 6 | 6.8 | 18.4 | 813 | 205 | 3.73 | 20 | Well purged dry on 3/24/2011, sample collected on 3/25/2011. |
| RD-18 | 3/22/2011 | 815 | 208.21 | 5 | -- | 7.35 | 18.5 | 0.573 | -116 | 5.30 | 3.8 | Well purged dry on 3/21/2011, and sampled on 3/22/2011. Conductivity units in mS/cm. |
| RD-19 | 3/17/2011 | 1222 | 77.44 | 4 | -- | 6.65 | 19.03 | 1.59 | -255 | 0.95 | 6 | Well purged dry on 3/16/2011, and sampled on 3/17/2011. Conductivity units in mS/cm. |
| RD-20 | 3/22/2011 | 800 | 49.35 | 6.5 | 4 | 6.66 | 17.99 | 1427 | 220 | 6.20 | 0 | Well purged on 3/21/2011, and sampled on 3/22/2011. |
| RD-21 | 4/1/2011 | 1005 | -- | -- | 1 | 7.15 | 21.68 | 0.779 | -291 | 1.45 | 22.6 | FLUTe™ well, sampled from Port #2. Conductivity units in mS/cm. |
| RD-22 | 3/31/2011 | 1310 | -- | -- | 4.25 | 7.49 | 22.91 | 1.145 | -330 | 0.99 | 55.8 | FLUTe™ well sampled from Port #2. Conductivity units in mS/cm. |
| RD-23 | 4/1/2011 | 1100 | -- | -- | 2 | 7.36 | 22.12 | 0.664 | -357 | 2.53 | 14.8 | FLUTe™ well sampled from Port #3. Hydrogen sulfide odor in well. Conductivity units in mS/cm. |
| RD-24 | 3/24/2011 | 1556 | -- | 3 | 623 | 7.02 | 16.23 | 637 | 130 | 0.77 | 8 | |
| RD-27 | 3/17/2011 | 1505 | 64.72 | -- | 530 | 7.21 | 19.54 | 0.625 | -262 | 0.88 | 19.3 | Conductivity units in mS/cm. |
| RD-29 | 3/25/2011 | 902 | 8.98 | 3 | 6 | 7.22 | 20.24 | 876 | 143 | 5.41 | 106 | Well purged on 3/24/2011, recharged and sampled on 3/25/2011. |
| RD-33A | 3/31/2011 | 1335 | -- | -- | 2.5 | 7.57 | 21.43 | 0.537 | -298 | 3.04 | 5 | FLUTe™ well, sampled from Port #2. Conductivity units in mS/cm. |
| RD-33B | 3/22/2011 | 950 | 309.95 | 2 | 6 | 6.9 | 17.03 | 753 | -99 | 6.16 | 0 | Well purged dry on 3/21/2011, and sampled on 3/22/2011. |
| RD-33C | 3/22/2011 | 855 | 286.54 | 9 | 54 | 6.84 | 16.66 | 690 | -161 | 3.27 | 17 | Well purged on 3/21/2011, recharged and sampled on 3/22/2011. |

Table 3.3
Water Quality Parameter Readings
Phase II Groundwater Sampling

| Well ID | Date | Time | Depth To Water (feet) | Flow Rate (gpm) | Total Volume (gallons) | Ph | Temp (°C) | Conductivity (µmhos/cm) | ORP | DO (mg/L) | Turbidity (NTU) | Comments |
|---------|-----------|------|-----------------------|-----------------|------------------------|------|-----------|-------------------------|------|-----------|-----------------|--|
| RD-34A | 3/23/2011 | 1540 | 30.75 | 5 | 8 | 6.45 | 15.74 | 1128 | 155 | 1.94 | 2 | Well purged dry on 3/22/2011, and sampled on 3/23/2011. |
| RD-34B | 3/18/2011 | 811 | 39.33 | 4.5 | -- | 6.9 | 14.95 | 892 | -37 | 1.55 | 0 | Well purged dry on 3/17/2011, and sampled on 3/18/2011. |
| RD-34C | 3/22/2011 | 1520 | 79 | 8.5 | 2201 | 7.21 | 19.84 | 554 | -130 | 0.08 | 0 | |
| RD-50 | 3/31/2011 | 1205 | -- | -- | 1 | 7.37 | 20.26 | 0.735 | -271 | 2.66 | 2.7 | FLUTe™ well, sampled from Port #2. Sampled over two days. Conductivity units in mS/cm. |
| RD-54A | 4/1/2011 | 1110 | -- | -- | 3.25 | 7.34 | 23.62 | 0.722 | -290 | 1.94 | 11.6 | FLUTe™ well, sampled from Port #2. Conductivity units in mS/cm. |
| RD-54B | 3/24/2011 | 905 | 329.7 | 4.5 | 3 | 7.21 | 16.88 | 857 | -169 | 1.46 | 20 | Well purged dry on 3/23/2011, and sampled on 3/24/2011. |
| RD-54C | 3/24/2011 | 830 | 461.64 | 2 | 5 | 8.76 | 14.24 | 686 | -117 | 1.01 | 44 | Well purged dry on 3/23/2011, and sampled on 3/24/2011. |
| RD-56A | 4/20/2011 | 1205 | 325.21 | -- | -- | 7.12 | 17.81 | 1133 | -69 | 2.99 | 44 | Well purged dry on 4/19/2011, and sampled on 4/20/2011. |
| RD-56B | 4/20/2011 | 1355 | 186.9 | 17 | 3631 | 7.23 | 20.69 | 0.741 | -101 | 2.04 | 12.8 | Conductivity units in mS/cm. |
| RD-57 | 3/31/2011 | 1345 | -- | -- | 2 | 7.85 | 21.49 | 0.631 | -288 | 1.70 | 26.7 | FLUTe™ well, sampled from Port #7. Sampled over two days. Conductivity units in mS/cm. |
| RD-59A | 4/18/2011 | 1115 | 42.9 | 3 | 165 | 7.05 | 17.08 | 1087 | 25 | 2.90 | 25.1 | Artesian well. |
| RD-59B | 4/18/2011 | 922 | -- | 10 | -- | 7.46 | 18.62 | 775 | 26 | 4.19 | 48.5 | Artesian well. |
| RD-59C | 4/18/2011 | 951 | -- | 2 | -- | 7.7 | 17.09 | 805 | 0.47 | 3.57 | 23.3 | Artesian well. |
| RD-63 | 3/23/2011 | 1520 | 79.05 | 11 | 1135 | 6.7 | 17.92 | 1121 | 121 | 2.98 | 8 | |
| RD-64 | 4/4/2011 | 1048 | -- | -- | 4.5 | 7.66 | 19.95 | 0.786 | -378 | 5.82 | 7.6 | FLUTe™ well sampled from Port #6. Hydrogen sulfide odor in well. Conductivity units in mS/cm. |
| RD-65 | 4/4/2011 | 1120 | -- | -- | 1.5 | 7.67 | 20.35 | 0.518 | -284 | 7.53 | 12.4 | FLUTe™ well sampled from Port #7. Volume units in liters. Conductivity units in mS/cm. |
| RD-68A | 4/18/2011 | 1336 | -- | 1.5 | 18 | 8.21 | 17.2 | 627 | -207 | 2.87 | 14.4 | Artesian well. |
| RD-68B | 4/18/2011 | 1406 | -- | 3 | 36 | 7.36 | 19.41 | 817 | -135 | 3.34 | 11.3 | Artesian well. |
| RD-70 | 4/18/2011 | 1129 | 138.97 | 3.5 | 143.5 | 6.99 | 18.33 | 1.009 | -186 | 0.69 | 12.7 | Hydrogen sulfide odor. Conductivity units in mS/cm. |
| RD-85 | 3/17/2011 | 1346 | 75.85 | 2 | -- | 6.83 | 19.45 | 1.344 | -158 | 4.96 | 5.8 | Well purged dry with Grundfos pump on 3/16/2011, and sampled with bailer on 3/17/2011. Conductivity units in mS/cm. |
| RD-86 | 3/24/2011 | 850 | 41.24 | -- | -- | 6.53 | 18.73 | 0.916 | -114 | 5.92 | 8.8 | Well purged dry on 3/23/2011, and sampled on 3/24/2011. Conductivity units in mS/cm. |
| RD-86 | 3/29/2011 | 810 | 60.51 | -- | -- | 6.35 | 18.74 | 0.9 | -95 | 7.27 | 4.4 | Priority 1 sets collected 3/24/2011, Priority 2 sample taken 3/29/2011 due to recent analytical findings in well. Well purged on 3/28/2011, and sampled for Priority 2 analytes on 3/29/2011. Conductivity units in mS/cm. |
| RD-87 | 3/18/2011 | 850 | 50.5 | -- | -- | 6.68 | 15.75 | 1198 | 34 | 2.46 | 0 | Well purged dry with a Grundfos pump on 3/17/2011, and sampled with a bailer on 3/18/2011. |
| RD-88 | 3/29/2011 | 840 | 17.29 | -- | <1.0 | 6.42 | 15.56 | 730 | 159 | 1.73 | 17 | Well purged dry on 3/28/2011, and sampled on 3/29/2011. |
| RD-90 | 3/29/2011 | 805 | 25.53 | -- | <1.0 | 6.47 | 16.88 | 1260 | 226 | 3.14 | 6 | Well purged dry on 3/28/2011, and sampled on 3/29/2011. |
| RD-91 | 3/30/2011 | 1320 | 97.35 | 6.5 | 3 | 7.22 | 22.23 | 1192 | 119 | 4.60 | 1 | Well purged dry on 3/29/2011, and sampled on 3/30/2011. |
| RD-92 | 3/22/2011 | 915 | 61.3 | 8 | -- | 7.1 | 19.46 | 0.507 | -171 | 2.73 | 3.5 | Well purged dry on 3/21/2011, and sampled on 3/22/2011. Conductivity units in mS/cm. |
| RD-93 | 3/17/2011 | 1432 | 33.49 | -- | -- | 6.67 | 21.37 | 1650 | 198 | 2.17 | 375 | Well purged dry on 3/16/2011, and sampled 3/17/2011. Slightly brown tinted color. |
| RD-94 | 3/28/2011 | 1405 | 9.78 | 1 | 62 | 6.43 | 17.11 | 1432 | -6 | 1.42 | 34 | |

Table 3.3
Water Quality Parameter Readings
Phase II Groundwater Sampling

| Well ID | Date | Time | Depth To Water (feet) | Flow Rate (gpm) | Total Volume (gallons) | Ph | Temp (°C) | Conductivity (µmhos/cm) | ORP | DO (mg/L) | Turbidity (NTU) | Comments |
|---------|-----------|------|-----------------------|-----------------|------------------------|------|-----------|-------------------------|------|-----------|-----------------|---|
| RD-95 | 3/17/2011 | 1344 | 52.72 | -- | -- | 6.5 | 19.75 | 1400 | 238 | 2.46 | 198 | Well purged dry on 3/16/2011, and sampled on 3/17/2011. |
| RD-96 | 3/25/2011 | 810 | 60.03 | -- | -- | 6.93 | 14.75 | 1.134 | -116 | 1.54 | 21.2 | Well purged dry on 3/24/2011, sample collected on 3/25/2011. Conductivity units in mS/cm. |
| RD-97 | 3/30/2011 | 1500 | 46.95 | -- | -- | 6.98 | 23.46 | 1.118 | -269 | 3.09 | 85.9 | Well slightly turbid towards bottom 10 feet. Conductivity units in mS/cm. |
| RD-98 | 4/19/2011 | 940 | 27.33 | -- | -- | 7.02 | 17.46 | 633 | -110 | 4.58 | 32 | Well purged on 4/18/2011 with Grundfos pump, and sample collected on 4/19/2011 with a bailer. |
| RS-11 | 3/31/2011 | 745 | 8.1 | -- | 1 | 6.81 | 20.21 | 2220 | 224 | 4.57 | 3 | Well purged dry on 3/30/2011 and sampled 3/31/2011. |
| RS-16 | 3/30/2011 | 1024 | 17.82 | 60 | 2580 | 6.76 | 20.06 | 0.877 | -188 | 2.83 | 15.8 | Conductivity units in mS/cm. |
| RS-18 | 3/18/2011 | 740 | 4.82 | -- | -- | 7.05 | 13.79 | 831 | 193 | 5.23 | 60 | Due to time constraints, well purged on 3/17/2011 and sampled 3/18/2011. |
| RS-23 | 3/21/2011 | 810 | 13.6 | -- | -- | 7.07 | 11.6 | 0.656 | -60 | 4.80 | 141 | Due to water column less than 3 feet, hand bailed pre-purge sample. Well color was murky and contained sediment on the bottom of the casing. Conductivity units in mS/cm. |
| RS-24 | 3/30/2011 | 1442 | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well dry. Total depth of well is 8.48 feet. |
| RS-25 | 3/24/2011 | 808 | 12.9 | -- | -- | 6.73 | 15.9 | 0.904 | -121 | 2.35 | 550 | Water column less than 3 feet, hand bailed well on 3/23/2011 and 3/24/2011. Well recharged and sampled on 3/24/2011. Conductivity units in mS/cm. |
| RS-27 | 3/30/2011 | 1413 | 6.97 | -- | -- | 6.97 | 21.36 | 764 | 117 | 5.65 | 516 | Slight yellowish-brown tint to groundwater. Pre-purge sample, water column less than 3 feet with no recharge. |
| RS-54 | 3/28/2011 | 1503 | 44.3 | 3 | 43 | 7.05 | 19.79 | 1187 | 120 | 0.71 | 103 | Well known to not recharge. Pre-purge sample collected. Well purged dry and did not recharge. |
| WS-07 | 4/19/2011 | 1213 | 71.2 | 25 | 12,200 | 7.11 | 19.92 | 769 | -195 | 1.34 | 23 | |
| WS-09A | 6/3/2011 | 935 | 26.82 | 32.37 | 91,000 | 6.75 | 15.13 | 654 | -24 | 3.13 | 2 | Well is connected to the Area I Groundwater Extraction Treatment system and is continuously pumping. Total volume was based on one week. |

Notes:

- data not available
- °C - degrees Celsius
- DO - dissolved oxygen
- FLUTE™ - Flexible Liner Underground Technologies
- gpm - gallons per minute
- ID - identification
- mg/L - milligrams per liter
- mL - milliliter
- mL/min - millileters per minute
- mS/cm - millisiemens per centimeter
- NTU - nephelometric turbidity unit
- ORP - oxidation reduction potential
- Temp - temperature
- µmhos/cm - micromhos per centimeter

Table 3.4
Monitoring Well Sample Summary
Phase I Groundwater Sampling

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|---------------------|--------------|-----------|---|-----------------------|---|
| ES-31 | Near surface | Shallow | Low flow sampling method | Priority 1 | |
| PZ-005 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-041 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-052 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-055 | Piezometer | Shallow | Bailer | Dry | |
| PZ-056 | Piezometer | Shallow | Low flow sampling method | Screening Sample, H-3 | Phase I pre-purge screening sample, tritium only. |
| PZ-073 | Piezometer | Shallow | Dry | Dry | Phase I - well dry, no sample collected. |
| PZ-098 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-100 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-101 | Piezometer | Shallow | Low flow sampling method | Dry | Phase I - well dry, no sample collected. |
| PZ-102 | Piezometer | Shallow | Low flow sampling method | Dry | Phase I - well dry, no sample collected. |
| PZ-103 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-105 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-106 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-108 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-109 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-110 | Piezometer | Shallow | Dry | Dry | Phase I - well dry, no sample collected. |
| PZ-111 | Piezometer | Shallow | Low flow sampling method | Dry | Phase I - well dry, no sample collected. |
| PZ-112 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-113 | Piezometer | Shallow | Low flow sampling method | Dry | Phase I - well dry, no sample collected. |
| PZ-114 | Piezometer | Shallow | Bailer | Screening Sample, H-3 | Phase I pre-purge screening sample, tritium only. |
| PZ-116 | Piezometer | Shallow | Low flow sampling method | Dry | Phase I well dry |
| PZ-120 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-121 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-122 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |

Table 3.4
Monitoring Well Sample Summary
Phase I Groundwater Sampling

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|---------------------|------------|------------|---|--|---|
| PZ-124 | Piezometer | Shallow | Low flow sampling method | Dry | Phase I - well dry, no sample collected. |
| PZ-143 | Piezometer | Shallow | Dry | Dry | Phase I - well dry, no sample collected. |
| PZ-150 | Piezometer | Shallow | Low flow sampling method | Screening Sample, H-3, Gamma Spec, Sr-90 | Phase I - pre-purge screening sample, tritium, gamma spec, and Sr-90 only. |
| PZ-151 | Piezometer | Shallow | Bailer | Screening Sample, H-3 | Phase I pre-purge screening sample, tritium only. |
| PZ-160 | Piezometer | Shallow | Low flow sampling method | Screening Sample Priority 1 | Phase I - pre-purge screening sample only. Complete Priority 1 suite was collected. |
| PZ-161 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| RD-07 | Open hole | Chatsworth | FLUTe™ | Priority 1 | |
| RD-13 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-14 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-15 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-16 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-17 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-18 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-19 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-20 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-21 | Open hole | Chatsworth | FLUTe™ - Port 2 | Priority 1 | |
| RD-22 | Open hole | Chatsworth | FLUTe™ - Port 2 | Priority 1 | |
| RD-23 | Open hole | Chatsworth | FLUTe™ - Port 3 | Priority 1 | |
| RD-24 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-27 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-29 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-33A | Open hole | Chatsworth | FLUTe™ - Port 2 | Priority 1 | |
| RD-33B | Open hole | Chatsworth | Well volume approach | Priority 2 | |

Table 3.4
Monitoring Well Sample Summary
Phase I Groundwater Sampling

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|---------------------|-----------|------------|---|--------------------|----------|
| RD-33C | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-34A | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-34B | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-34C | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-50 | Open hole | Chatsworth | FLUTe™ - Port 2 | Priority 1 | |
| RD-54A | Open hole | Chatsworth | FLUTe™ - Port 2 | Priority 1 | |
| RD-54B | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-54C | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-56A | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-56B | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-57 | Open hole | Chatsworth | FLUTe™ - Port 7 | Priority 1 | |
| RD-63 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-64 | Open hole | Chatsworth | FLUTe™ - Port 6 | Priority 1 | |
| RD-65 | Open hole | Chatsworth | FLUTe™ - Port 7 | Priority 1 | |
| RD-70 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-85 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-86 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-87 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-88 | Open hole | Chatsworth | Bailer/Well volume approach | Priority 1 | |
| RD-90 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-91 | -- | Chatsworth | Well volume approach | Priority 1 | |
| RD-92 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-93 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-94 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-95 | Open hole | Chatsworth | Well volume approach | Priority 1 | |

Table 3.4
Monitoring Well Sample Summary
Phase I Groundwater Sampling

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|---------------------|--------------|------------|---|--------------------------------|---|
| RD-96 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-97 | Open hole | Chatsworth | Well volume approach | Dry | Phase I - well dry, no sample collected. |
| RD-98 | -- | Chatsworth | Well volume approach | Priority 2 | |
| RS-11 | Near surface | Shallow | Well volume approach | Dry | Phase I - well dry, no sample collected. |
| RS-16 | Near surface | Shallow | Low flow sampling method | Dry | Phase I - well dry, no sample collected. |
| RS-18 | Near surface | Shallow | Well volume approach | Screening Sample Priority 1 | Phase I - pre-purge screening sample only. Complete Priority 1 suite was collected. |
| RS-23 | Near surface | Shallow | Bailer | Dry | Phase I - well dry, no sample collected. |
| RS-24 | Near surface | Shallow | Dry | Dry | Phase I - well dry, no sample collected. |
| RS-25 | Near surface | Shallow | Bailer | Screening Sample, H-3 | Phase I - pre-purge screening sample, tritium only. |
| RS-27 | Near surface | Shallow | Bailer | Dry | Phase I - well dry, no sample collected. |
| RS-54 | Open hole | Shallow | Well volume approach | Dry | Phase I - well purged dry but never recharged. No sample collected. |
| WS-07 | Open hole | Chatsworth | Well volume approach | Priority 1 | |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Analyte list for Priority 1 samples: Tritium, Gamma Spec, Iso-U, Sr-90, Gross Alpha, and Gross Beta

Analyte list for Priority 2 samples: Iso-Am/Cm, Iso-Pu, Np-237, Ra-226, I-129, Tc-99, C-14 (also includes all Priority 1 analytes)

FLUTE™ - Flexible Liner Underground Technologies

Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|---------------------|--------------|-----------|---|--------------------------------------|--|
| ES-31 | Near surface | Shallow | Low flow sampling method | Priority 1 | |
| PZ-005 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-041 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-052 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-055 | Piezometer | Shallow | Bailer | Screening Sample, H-3 | Phase II pre-purge screening sample, tritium only. |
| PZ-056 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-073 | Piezometer | Shallow | Dry | Dry | Phase II - well dry, no sample collected. |
| PZ-098 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-100 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-101 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-102 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-103 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-105 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-106 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-108 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-109 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-110 | Piezometer | Shallow | Dry | Dry | Phase II - well dry, no sample collected. |
| PZ-111 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-112 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-113 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-114 | Piezometer | Shallow | Bailer | Screening Sample, H-3, Gamma Spec | Phase II pre-purge screening sample, only tritium and gamma spec analytes collected. |
| PZ-116 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |

Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|---------------------|------------|------------|---|-----------------------------------|--|
| PZ-120 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-121 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-122 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-124 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-143 | Piezometer | Shallow | Dry | Dry | Phase II - well dry, no sample collected. |
| PZ-150 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-151 | Piezometer | Shallow | Bailer | Screening Sample, H-3, Gamma Spec | Phase II pre-purge screening sample, only tritium and gamma spec analytes collected. |
| PZ-160 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| PZ-161 | Piezometer | Shallow | Low flow sampling method | Priority 1 | |
| RD-07 | Open hole | Chatsworth | FLUTE™ | Priority 1 | |
| RD-13 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-14 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-15 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-16 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-17 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-18 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-19 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-20 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-21 | Open hole | Chatsworth | FLUTE™ - Port 2 | Priority 1 | |
| RD-22 | Open hole | Chatsworth | FLUTE™ - Port 2 | Priority 1 | |
| RD-23 | Open hole | Chatsworth | FLUTE™ - Port 3 | Priority 1 | |
| RD-24 | Open hole | Chatsworth | Well volume approach | Priority 1 | |

Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|---------------------|-----------|------------|---|--------------------|----------|
| RD-27 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-29 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-33A | Open hole | Chatsworth | FLUTE™ - Port 2 | Priority 1 | |
| RD-33B | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-33C | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-34A | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-34B | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-34C | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-50 | Open hole | Chatsworth | FLUTE™ - Port 2 | Priority 1 | |
| RD-54A | Open hole | Chatsworth | FLUTE™ - Port 2 | Priority 1 | |
| RD-54B | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-54C | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-56A | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-56B | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-57 | Open hole | Chatsworth | FLUTE™ - Port 7 | Priority 1 | |
| RD-63 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-64 | Open hole | Chatsworth | FLUTE™ - Port 6 | Priority 1 | |
| RD-65 | Open hole | Chatsworth | FLUTE™ - Port 7 | Priority 1 | |
| RD-70 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-85 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-86 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-87 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-88 | Open hole | Chatsworth | Bailer/Well volume approach | Priority 1 | |

Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|---------------------|--------------|------------|---|--------------------|---|
| RD-90 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-91 | -- | Chatsworth | Well volume approach | Priority 1 | |
| RD-92 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-93 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-94 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-95 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-96 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| RD-97 | Open hole | Chatsworth | Well volume approach | Priority 2 | |
| RD-98 | -- | Chatsworth | Well volume approach | Priority 2 | |
| RS-11 | Near surface | Shallow | Well volume approach | Priority 1 | |
| RS-16 | Near surface | Shallow | Low flow sampling method | Priority 1 | |
| RS-18 | Near surface | Shallow | Well volume approach | Priority 1 | |
| RS-23 | Near surface | Shallow | Bailer | Priority 1 | |
| RS-24 | Near surface | Shallow | Dry | Dry | Phase II - well dry, no sample collected. |
| RS-25 | Near surface | Shallow | Bailer | Priority 1 | |
| RS-27 | Near surface | Shallow | Bailer | Priority 1 | |
| RS-54 | Open hole | Shallow | Well volume approach | Priority 1 | |
| WS-07 | Open hole | Chatsworth | Well volume approach | Priority 1 | |
| WS-09A | -- | Chatsworth | Attached to Area I GET System | Priority 1 | |

**Table 3.5
Monitoring Well Sample Summary
Phase II Groundwater Sampling**

| Well Identification | Well Type | Formation | Sampling Method (Low Flow/Well Volume/Artesian) | Analytes Collected | Comments |
|----------------------|---------------------|------------|---|--------------------|---|
| Offsite Wells | | | | | |
| OS-02 | Open hole | Artesian | Artesian flowing | Priority 1 | Artesian flowing well |
| OS-03 | Open hole | Artesian | Artesian flowing | Priority 1 | Artesian flowing well |
| OS-04 | Artesian | Artesian | Artesian flowing | Priority 1 | Artesian flowing well |
| OS-05 | Artesian | Artesian | Artesian flowing | Dry | Phase II - well dry, no sample collected. |
| OS-09 | Artesian | Artesian | Artesian flowing | Priority 1 | Artesian flowing well |
| OS-09R | Westbay Pump System | Artesian | Westbay Pump System Port 1 | Priority 1 | Artesian flowing well |
| OS-10 | Open hole | Artesian | Artesian flowing | Priority 1 | Artesian flowing well |
| RD-59A | Open hole | Chatsworth | Artesian flowing | Priority 1 | |
| RD-59B | -- | Chatsworth | Artesian flowing | Priority 1 | |
| RD-59C | -- | Chatsworth | Artesian flowing | Priority 1 | |
| RD-68A | Open hole | Chatsworth | Artesian flowing | Priority 1 | |
| RD-68B | -- | Chatsworth | Artesian flowing | Priority 1 | |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Analyte list for Priority 1 samples: Tritium, Gamma Spec, Iso-U, Sr-90, Gross Alpha, and Gross Beta

Analyte list for Priority 2 samples: Iso-Am/Cm, Iso-Pu, Np-237, Ra-226, I-129, Tc-99, C-14 (also includes all Priority 1 analytes)

Offsite wells were only sampled during the Phase II Sampling Event.

FLUTE™ - Flexible Liner Underground Technologies

Table 3.6
FLUTE™ Well Ports Sampled
Groundwater Sampling

| Well Identification | Ports Used For Sampling | Port Top Elevation | Port Bottom Elevation | Port Midpoint Elevation |
|---------------------|-------------------------|--------------------|-----------------------|-------------------------|
| RD-07 | Port 3 | 90 | 100 | 1717.82 |
| RD-21 | Port 2 | 105 | 115 | 1756.96 |
| RD-22 | Port 2 | 330 | 340 | 1518.41 |
| RD-23 | Port 3 | 271 | 281 | 1562.19 |
| RD-33A | Port 2 | 231 | 241 | 1556.97 |
| RD-50 | Port 2 | -- | -- | -- |
| RD-54A | Port 2 | 170.5 | 180.5 | 1666.22 |
| RD-57 | Port 7 | 348 | 358 | 1421.15 |
| RD-64 | Port 6 | 270.5 | 280.5 | 1581.54 |
| RD-65* | Port 7 | -- | -- | -- |

Notes:

*Port #4 was proposed in FSP for its high hydraulic conductivity, but was dry, as was Port #5. Port #6 wasn't working properly, and thus Port #7 was used for both Phase I and Phase II.

-- data not available

FLUTE™ - Flexible Liner Underground Technologies

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|-------|-----------------------|--------------|-----------------|----------|-------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-96 | SMRD-96-GW081910 | Ac-227 | Filtered | 0.05 U | 9.7 | 2.9 | SMDUP-01-GW081910 | Ac-227 | Filtered | -3.2 U | 9.6 | 2.9 |
| RD-96 | SMRD-96-GW081910 | Ac-227 | Suspended | -0.2 U | 6.4 | 1.9 | SMDUP-01-GW081910 | Ac-227 | Suspended | -2.2 U | 4.4 | 1.3 |
| RD-96 | SMRD-96-GW081910 | Ac-228 | Filtered | 3.4 | 5.1 | 1.6 | SMDUP-01-GW081910 | Ac-228 | Filtered | 1.2 U | 4.7 | 1.4 |
| RD-96 | SMRD-96-GW081910 | Ac-228 | Suspended | 2.16 | 2.6 | 0.82 | SMDUP-01-GW081910 | Ac-228 | Suspended | -0.46 U | 2.9 | 0.94 |
| RD-96 | SMRD-96-GW081910 | Bi-212 | Filtered | 2.2 U | 12 | 3.4 | SMDUP-01-GW081910 | Bi-212 | Filtered | 4.2 U | 12 | 3.6 |
| RD-96 | SMRD-96-GW081910 | Bi-212 | Suspended | 3.9 | 5.6 | 1.7 | SMDUP-01-GW081910 | Bi-212 | Suspended | 2.5 U | 5.7 | 1.7 |
| RD-96 | SMRD-96-GW081910 | Bi-214 | Filtered | -0.8 U | 3.8 | 1.3 | SMDUP-01-GW081910 | Bi-214 | Filtered | -1.6 U | 4 | 2.1 |
| RD-96 | SMRD-96-GW081910 | Bi-214 | Suspended | 1.4 | 1.9 | 0.8 | SMDUP-01-GW081910 | Bi-214 | Suspended | 1.08 | 1.6 | 0.6 |
| RD-96 | SMRD-96-GW081910 | Cd-113m | Filtered | -300 U | 16000 | 4500 | SMDUP-01-GW081910 | Cd-113m | Filtered | 900 U | 17000 | 4900 |
| RD-96 | SMRD-96-GW081910 | Cd-113m | Suspended | 2400 U | 7100 | 2100 | SMDUP-01-GW081910 | Cd-113m | Suspended | -400 U | 7600 | 2200 |
| RD-96 | SMRD-96-GW081910 | Co-60 | Filtered | -0.001 U | 1.8 | 0.51 | SMDUP-01-GW081910 | Co-60 | Filtered | 0.0003 U | 1.5 | 0.4 |
| RD-96 | SMRD-96-GW081910 | Co-60 | Suspended | 0.13 U | 0.74 | 0.21 | SMDUP-01-GW081910 | Co-60 | Suspended | 0 U | 0.79 | 0.22 |
| RD-96 | SMRD-96-GW081910 | Cs-134 | Filtered | 0.32 U | 1.4 | 0.42 | SMDUP-01-GW081910 | Cs-134 | Filtered | -0.14 U | 1.5 | 0.43 |
| RD-96 | SMRD-96-GW081910 | Cs-134 | Suspended | -0.14 U | 0.95 | 0.28 | SMDUP-01-GW081910 | Cs-134 | Suspended | -0.01 U | 0.79 | 0.23 |
| RD-96 | SMRD-96-GW081910 | Cs-137 | Filtered | 0 U | 1.6 | 0.45 | SMDUP-01-GW081910 | Cs-137 | Filtered | 0.41 U | 1.2 | 0.34 |
| RD-96 | SMRD-96-GW081910 | Cs-137 | Suspended | 0.13 U | 0.74 | 0.22 | SMDUP-01-GW081910 | Cs-137 | Suspended | -0.02 U | 0.69 | 0.2 |
| RD-96 | SMRD-96-GW081910 | Eu-152 | Filtered | 0.08 U | 3.7 | 1.1 | SMDUP-01-GW081910 | Eu-152 | Filtered | -0.6 U | 4.2 | 1.2 |
| RD-96 | SMRD-96-GW081910 | Eu-152 | Suspended | 0.11 U | 1.8 | 0.52 | SMDUP-01-GW081910 | Eu-152 | Suspended | 0.63 U | 1.6 | 0.49 |
| RD-96 | SMRD-96-GW081910 | Eu-154 | Filtered | -0.3 U | 8.9 | 2.4 | SMDUP-01-GW081910 | Eu-154 | Filtered | 0.1 U | 13 | 3.6 |
| RD-96 | SMRD-96-GW081910 | Eu-154 | Suspended | -0.04 U | 5 | 1.4 | SMDUP-01-GW081910 | Eu-154 | Suspended | -1.5 U | 6.6 | 1.9 |
| RD-96 | SMRD-96-GW081910 | Eu-155 | Filtered | 0.334 U | 3.4 | 0.997 | SMDUP-01-GW081910 | Eu-155 | Filtered | 0.94 U | 3.1 | 0.94 |
| RD-96 | SMRD-96-GW081910 | Eu-155 | Suspended | 0.31 U | 1.2 | 0.37 | SMDUP-01-GW081910 | Eu-155 | Suspended | 0.01 U | 1.1 | 0.33 |
| RD-96 | SMRD-96-GW081910 | gross_alpha | Filtered | 11.7 | 0.53 | 0.83 | SMDUP-01-GW081910 | gross_alpha | Filtered | 4.49 | 0.4 | 0.42 |
| RD-96 | SMRD-96-GW081910 | gross_alpha | Suspended | 8.63 | 0.59 | 0.7 | SMDUP-01-GW081910 | gross_alpha | Suspended | 0.04 U | 0.59 | 0.15 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-96 | SMRD-96-GW081910 | gross_beta | Filtered | 13.4 | 2.1 | 1.2 | SMDUP-01-GW081910 | gross_beta | Filtered | 5.69 | 1.3 | 0.62 |
| RD-96 | SMRD-96-GW081910 | gross_beta | Suspended | 7.28 | 0.79 | 0.54 | SMDUP-01-GW081910 | gross_beta | Suspended | 0.39 U | 0.73 | 0.23 |
| RD-96 | SMRD-96-GW081910 | H-3 | Filtered | 43 U | 130 | 40 | SMDUP-01-GW081910 | H-3 | Filtered | 62 U | 140 | 42 |
| RD-96 | SMRD-96-GW081910 | H-3 | Suspended | 2.3 U | 12 | 3.5 | SMDUP-01-GW081910 | H-3 | Suspended | 8.1 | 13 | 4 |
| RD-96 | SMRD-96-GW081910 | Ho-166m | Filtered | -0.23 U | 2.5 | 0.72 | SMDUP-01-GW081910 | Ho-166m | Filtered | -0.42 U | 2.6 | 0.74 |
| RD-96 | SMRD-96-GW081910 | Ho-166m | Suspended | 0.23 U | 1.1 | 0.32 | SMDUP-01-GW081910 | Ho-166m | Suspended | 0.2 U | 1 | 0.3 |
| RD-96 | SMRD-96-GW081910 | K-40 | Filtered | -5.2 U | 23 | 7.8 | SMDUP-01-GW081910 | K-40 | Filtered | -10 U | 25 | 11 |
| RD-96 | SMRD-96-GW081910 | K-40 | Suspended | 6.4 | 9.7 | 3 | SMDUP-01-GW081910 | K-40 | Suspended | 1.2 U | 12 | 2.9 |
| RD-96 | SMRD-96-GW081910 | Na-22 | Filtered | -0.01 U | 1.6 | 0.44 | SMDUP-01-GW081910 | Na-22 | Filtered | -0.41 U | 2.1 | 0.61 |
| RD-96 | SMRD-96-GW081910 | Na-22 | Suspended | 0.28 U | 0.83 | 0.25 | SMDUP-01-GW081910 | Na-22 | Suspended | 0.02 U | 0.67 | 0.19 |
| RD-96 | SMRD-96-GW081910 | Nb-94 | Filtered | 0.45 U | 1.2 | 0.35 | SMDUP-01-GW081910 | Nb-94 | Filtered | 0.39 U | 1.3 | 0.37 |
| RD-96 | SMRD-96-GW081910 | Nb-94 | Suspended | 0.15 U | 0.7 | 0.21 | SMDUP-01-GW081910 | Nb-94 | Suspended | 0.24 U | 0.59 | 0.18 |
| RD-96 | SMRD-96-GW081910 | Np-236 | Filtered | 0.72 U | 2.8 | 0.84 | SMDUP-01-GW081910 | Np-236 | Filtered | 0.48 U | 2.6 | 0.78 |
| RD-96 | SMRD-96-GW081910 | Np-236 | Suspended | 0.02 U | 1.2 | 0.35 | SMDUP-01-GW081910 | Np-236 | Suspended | -0.12 U | 1.2 | 0.36 |
| RD-96 | SMRD-96-GW081910 | Np-239 | Filtered | 1.3 U | 8.8 | 2.6 | SMDUP-01-GW081910 | Np-239 | Filtered | 3.1 U | 8.3 | 2.5 |
| RD-96 | SMRD-96-GW081910 | Np-239 | Suspended | -0.8 U | 4 | 1.2 | SMDUP-01-GW081910 | Np-239 | Suspended | 0.03 U | 3.1 | 0.9 |
| RD-96 | SMRD-96-GW081910 | Pa-231 | Filtered | 3 U | 52 | 15 | SMDUP-01-GW081910 | Pa-231 | Filtered | 5 U | 55 | 16 |
| RD-96 | SMRD-96-GW081910 | Pa-231 | Suspended | 0.4 U | 29 | 8.5 | SMDUP-01-GW081910 | Pa-231 | Suspended | -1.2 U | 23 | 6.8 |
| RD-96 | SMRD-96-GW081910 | Pb-212 | Filtered | 0.47 U | 2.9 | 0.92 | SMDUP-01-GW081910 | Pb-212 | Filtered | -0.08 U | 2.8 | 0.77 |
| RD-96 | SMRD-96-GW081910 | Pb-212 | Suspended | 1.63 | 1.2 | 0.39 | SMDUP-01-GW081910 | Pb-212 | Suspended | 0.46 U | 1.3 | 0.44 |
| RD-96 | SMRD-96-GW081910 | Pb-214 | Filtered | 2.9 | 3 | 1 | SMDUP-01-GW081910 | Pb-214 | Filtered | 2.42 | 2.9 | 0.98 |
| RD-96 | SMRD-96-GW081910 | Pb-214 | Suspended | 2.16 | 1.5 | 0.5 | SMDUP-01-GW081910 | Pb-214 | Suspended | 0.86 | 1.4 | 0.55 |
| RD-96 | SMRD-96-GW081910 | Sb-125 | Filtered | 2.4 U | 14 | 4.2 | SMDUP-01-GW081910 | Sb-125 | Filtered | -0.1 U | 14 | 4 |
| RD-96 | SMRD-96-GW081910 | Sb-125 | Suspended | 0.7 U | 6.1 | 1.8 | SMDUP-01-GW081910 | Sb-125 | Suspended | -0.4 U | 6.2 | 1.8 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|--------|-----------------------|--------------|-----------------|-----------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-96 | SMRD-96-GW081910 | Sn-126 | Filtered | 0.93 | 1.4 | 0.44 | SMDUP-01-GW081910 | Sn-126 | Filtered | 0.73 | 1.4 | 0.42 |
| RD-96 | SMRD-96-GW081910 | Sn-126 | Suspended | 0.26 U | 0.78 | 0.23 | SMDUP-01-GW081910 | Sn-126 | Suspended | 0.03 U | 0.69 | 0.2 |
| RD-96 | SMRD-96-GW081910 | Tl-208 | Filtered | -0.7 U | 1.8 | 1.3 | SMDUP-01-GW081910 | Tl-208 | Filtered | -0.2 U | 1.9 | 0.63 |
| RD-96 | SMRD-96-GW081910 | Tl-208 | Suspended | 0.78 | 0.85 | 0.35 | SMDUP-01-GW081910 | Tl-208 | Suspended | 0.46 | 0.92 | 0.4 |
| RD-96 | SMRD-96-GW081910 | Tm-171 | Filtered | 9 U | 330 | 98 | SMDUP-01-GW081910 | Tm-171 | Filtered | 0 U | 360 | 100 |
| RD-96 | SMRD-96-GW081910 | Tm-171 | Suspended | -2 U | 120 | 36 | SMDUP-01-GW081910 | Tm-171 | Suspended | -48 U | 110 | 33 |
| RD-96 | SMRD-96-GW081910 | U-233/234 | Filtered | 3.89 | 0.06 | 0.21 | SMDUP-01-GW081910 | U-233/234 | Filtered | 2.43 | 0.05 | 0.15 |
| RD-96 | SMRD-96-GW081910 | U-233/234 | Suspended | 0.396 | 0.012 | 0.046 | SMDUP-01-GW081910 | U-233/234 | Suspended | 0.067 | 0.041 | 0.021 |
| RD-96 | SMRD-96-GW081910 | U-235/236 | Filtered | 0.225 | 0.016 | 0.038 | SMDUP-01-GW081910 | U-235/236 | Filtered | 0.112 | 0.048 | 0.029 |
| RD-96 | SMRD-96-GW081910 | U-235/236 | Suspended | 0.0056 U | 0.015 | 0.0056 | SMDUP-01-GW081910 | U-235/236 | Suspended | -0.0045 U | 0.037 | 0.0032 |
| RD-96 | SMRD-96-GW081910 | U-238 | Filtered | 3.83 | 0.03 | 0.21 | SMDUP-01-GW081910 | U-238 | Filtered | 2.02 | 0.04 | 0.13 |
| RD-96 | SMRD-96-GW081910 | U-238 | Suspended | 0.249 | 0.012 | 0.036 | SMDUP-01-GW081910 | U-238 | Suspended | 0.085 | 0.013 | 0.021 |
| RD-092 | SMRD-092-GW082410 | Ac-227 | Filtered | -2.5 U | 9 | 2.7 | SMDUP-02-GW082410 | Ac-227 | Filtered | 0.9 U | 8 | 2.4 |
| RD-092 | SMRD-092-GW082410 | Ac-227 | Suspended | -0.9 U | 3.8 | 1.1 | SMDUP-02-GW082410 | Ac-227 | Suspended | -0.2 U | 3.8 | 1.1 |
| RD-092 | SMRD-092-GW082410 | Ac-228 | Filtered | 3.3 | 4.1 | 1.3 | SMDUP-02-GW082410 | Ac-228 | Filtered | -3.6 U | 6.6 | 7.4 |
| RD-092 | SMRD-092-GW082410 | Ac-228 | Suspended | -0.9 U | 2.9 | 1.1 | SMDUP-02-GW082410 | Ac-228 | Suspended | 1.12 | 2.3 | 0.71 |
| RD-092 | SMRD-092-GW082410 | Bi-212 | Filtered | 0.1 U | 12 | 3.4 | SMDUP-02-GW082410 | Bi-212 | Filtered | -2.3 U | 15 | 4.5 |
| RD-092 | SMRD-092-GW082410 | Bi-212 | Suspended | 3.2 | 5.6 | 1.7 | SMDUP-02-GW082410 | Bi-212 | Suspended | -0.7 U | 6.8 | 3.8 |
| RD-092 | SMRD-092-GW082410 | Bi-214 | Filtered | 0.02 U | 2.9 | 0.79 | SMDUP-02-GW082410 | Bi-214 | Filtered | -1.8 U | 3.7 | 2.6 |
| RD-092 | SMRD-092-GW082410 | Bi-214 | Suspended | -0.48 U | 1.7 | 0.76 | SMDUP-02-GW082410 | Bi-214 | Suspended | 1.24 | 1.6 | 0.56 |
| RD-092 | SMRD-092-GW082410 | Cd-113m | Filtered | -3400 U | 14000 | 4100 | SMDUP-02-GW082410 | Cd-113m | Filtered | 4700 U | 13000 | 3900 |
| RD-092 | SMRD-092-GW082410 | Cd-113m | Suspended | -1100 U | 7300 | 2200 | SMDUP-02-GW082410 | Cd-113m | Suspended | 200 U | 7000 | 2000 |
| RD-092 | SMRD-092-GW082410 | Co-60 | Filtered | -0.21 U | 1.6 | 0.47 | SMDUP-02-GW082410 | Co-60 | Filtered | 0.12 U | 2.1 | 0.59 |
| RD-092 | SMRD-092-GW082410 | Co-60 | Suspended | 0.25 U | 0.73 | 0.22 | SMDUP-02-GW082410 | Co-60 | Suspended | 0.13 U | 0.85 | 0.25 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-092 | SMRD-092-GW082410 | Cs-134 | Filtered | -0.36 U | 1.5 | 0.46 | SMDUP-02-GW082410 | Cs-134 | Filtered | 0.22 U | 1.5 | 0.43 |
| RD-092 | SMRD-092-GW082410 | Cs-134 | Suspended | -0.23 U | 0.83 | 0.25 | SMDUP-02-GW082410 | Cs-134 | Suspended | -0.27 U | 0.94 | 0.28 |
| RD-092 | SMRD-092-GW082410 | Cs-137 | Filtered | -0.05 U | 1.2 | 0.33 | SMDUP-02-GW082410 | Cs-137 | Filtered | 0.8 | 1.5 | 0.45 |
| RD-092 | SMRD-092-GW082410 | Cs-137 | Suspended | -0.2 U | 0.7 | 0.21 | SMDUP-02-GW082410 | Cs-137 | Suspended | 0.13 U | 0.73 | 0.22 |
| RD-092 | SMRD-092-GW082410 | Eu-152 | Filtered | -0.3 U | 3.8 | 1.1 | SMDUP-02-GW082410 | Eu-152 | Filtered | 0.5 U | 3.7 | 1.1 |
| RD-092 | SMRD-092-GW082410 | Eu-152 | Suspended | 0.32 U | 1.7 | 0.5 | SMDUP-02-GW082410 | Eu-152 | Suspended | 0.16 U | 1.8 | 0.54 |
| RD-092 | SMRD-092-GW082410 | Eu-154 | Filtered | 1.2 U | 11 | 3.1 | SMDUP-02-GW082410 | Eu-154 | Filtered | 1.8 U | 13 | 3.8 |
| RD-092 | SMRD-092-GW082410 | Eu-154 | Suspended | 0.03 U | 4.9 | 1.4 | SMDUP-02-GW082410 | Eu-154 | Suspended | 0 U | 6.7 | 1.9 |
| RD-092 | SMRD-092-GW082410 | Eu-155 | Filtered | -0.04 U | 2.3 | 0.67 | SMDUP-02-GW082410 | Eu-155 | Filtered | -0.05 U | 3.4 | 1 |
| RD-092 | SMRD-092-GW082410 | Eu-155 | Suspended | -0.17 U | 1.2 | 0.35 | SMDUP-02-GW082410 | Eu-155 | Suspended | 0.25 U | 1.2 | 0.35 |
| RD-092 | SMRD-092-GW082410 | gross_alpha | Filtered | 1.68 | 0.45 | 0.27 | SMDUP-02-GW082410 | gross_alpha | Filtered | 2.89 | 0.55 | 0.37 |
| RD-092 | SMRD-092-GW082410 | gross_alpha | Suspended | 0.12 U | 0.55 | 0.15 | SMDUP-02-GW082410 | gross_alpha | Suspended | 0.08 U | 0.5 | 0.13 |
| RD-092 | SMRD-092-GW082410 | gross_beta | Filtered | 2.05 | 1.3 | 0.47 | SMDUP-02-GW082410 | gross_beta | Filtered | 3.12 | 1.1 | 0.47 |
| RD-092 | SMRD-092-GW082410 | H-3 | Filtered | 46 U | 130 | 38 | SMDUP-02-GW082410 | H-3 | Filtered | 43 U | 130 | 38 |
| RD-092 | SMRD-092-GW082410 | H-3 | Suspended | 7.3 | 14 | 4.4 | SMDUP-02-GW082410 | H-3 | Suspended | 12.6 | 14 | 4.9 |
| RD-092 | SMRD-092-GW082410 | Ho-166m | Filtered | 0 U | 2 | 0.56 | SMDUP-02-GW082410 | Ho-166m | Filtered | 0.24 U | 2.2 | 0.64 |
| RD-092 | SMRD-092-GW082410 | Ho-166m | Suspended | 0.15 U | 1.1 | 0.33 | SMDUP-02-GW082410 | Ho-166m | Suspended | -0.34 U | 1.2 | 0.35 |
| RD-092 | SMRD-092-GW082410 | K-40 | Filtered | -17 U | 22 | 55 | SMDUP-02-GW082410 | K-40 | Filtered | -6.2 U | 23 | 9.5 |
| RD-092 | SMRD-092-GW082410 | K-40 | Suspended | 4.9 U | 12 | 3 | SMDUP-02-GW082410 | K-40 | Suspended | -3 U | 11 | 4.1 |
| RD-092 | SMRD-092-GW082410 | Na-22 | Filtered | 0.41 U | 1.5 | 0.44 | SMDUP-02-GW082410 | Na-22 | Filtered | -0.02 U | 1.6 | 0.43 |
| RD-092 | SMRD-092-GW082410 | Na-22 | Suspended | -0.15 U | 0.84 | 0.25 | SMDUP-02-GW082410 | Na-22 | Suspended | -0.02 U | 0.84 | 0.24 |
| RD-092 | SMRD-092-GW082410 | Nb-94 | Filtered | -0.19 U | 1.2 | 0.36 | SMDUP-02-GW082410 | Nb-94 | Filtered | 0.07 U | 1.2 | 0.34 |
| RD-092 | SMRD-092-GW082410 | Nb-94 | Suspended | -0.09 U | 0.68 | 0.2 | SMDUP-02-GW082410 | Nb-94 | Suspended | -0.2 U | 0.73 | 0.22 |
| RD-092 | SMRD-092-GW082410 | Np-236 | Filtered | 0.69 U | 2.5 | 0.75 | SMDUP-02-GW082410 | Np-236 | Filtered | -0.04 U | 2.9 | 0.84 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|--------|-----------------------|--------------|-----------------|-----------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-092 | SMRD-092-GW082410 | Np-236 | Suspended | 0.14 U | 1.1 | 0.32 | SMDUP-02-GW082410 | Np-236 | Suspended | 0.01 U | 1.2 | 0.35 |
| RD-092 | SMRD-092-GW082410 | Np-239 | Filtered | 0.2 U | 7.6 | 2.2 | SMDUP-02-GW082410 | Np-239 | Filtered | -1.3 U | 8.7 | 2.6 |
| RD-092 | SMRD-092-GW082410 | Np-239 | Suspended | -0.3 U | 3.7 | 1.1 | SMDUP-02-GW082410 | Np-239 | Suspended | 1 U | 3.7 | 1.1 |
| RD-092 | SMRD-092-GW082410 | Pa-231 | Filtered | 15 U | 54 | 16 | SMDUP-02-GW082410 | Pa-231 | Filtered | 3 U | 59 | 17 |
| RD-092 | SMRD-092-GW082410 | Pa-231 | Suspended | 3.2 U | 25 | 7.5 | SMDUP-02-GW082410 | Pa-231 | Suspended | -1.6 U | 23 | 6.9 |
| RD-092 | SMRD-092-GW082410 | Pb-212 | Filtered | 0.67 U | 2.2 | 0.76 | SMDUP-02-GW082410 | Pb-212 | Filtered | 0.62 U | 2.9 | 0.98 |
| RD-092 | SMRD-092-GW082410 | Pb-212 | Suspended | 0.35 U | 1.2 | 0.37 | SMDUP-02-GW082410 | Pb-212 | Suspended | -0.04 U | 1.1 | 0.34 |
| RD-092 | SMRD-092-GW082410 | Pb-214 | Filtered | -0.5 U | 3 | 1.3 | SMDUP-02-GW082410 | Pb-214 | Filtered | 1.13 U | 3.3 | 0.92 |
| RD-092 | SMRD-092-GW082410 | Pb-214 | Suspended | 0.04 U | 1.5 | 0.51 | SMDUP-02-GW082410 | Pb-214 | Suspended | 0.91 | 1.6 | 0.44 |
| RD-092 | SMRD-092-GW082410 | Sb-125 | Filtered | 3.2 U | 11 | 3.4 | SMDUP-02-GW082410 | Sb-125 | Filtered | 1.2 U | 15 | 4.3 |
| RD-092 | SMRD-092-GW082410 | Sb-125 | Suspended | -1.1 U | 6.1 | 1.8 | SMDUP-02-GW082410 | Sb-125 | Suspended | -1.1 U | 6.3 | 1.9 |
| RD-092 | SMRD-092-GW082410 | Sn-126 | Filtered | 0.51 U | 1.3 | 0.4 | SMDUP-02-GW082410 | Sn-126 | Filtered | -0.33 U | 1.8 | 0.51 |
| RD-092 | SMRD-092-GW082410 | Sn-126 | Suspended | -0.09 U | 0.81 | 0.24 | SMDUP-02-GW082410 | Sn-126 | Suspended | 0.29 U | 0.82 | 0.25 |
| RD-092 | SMRD-092-GW082410 | Sr-90 | Filtered | 0.04 U | 0.25 | 0.073 | SMDUP-02-GW082410 | Sr-90 | Filtered | 0.034 U | 0.15 | 0.043 |
| RD-092 | SMRD-092-GW082410 | Sr-90 | Suspended | 0.091 U | 0.16 | 0.05 | SMDUP-02-GW082410 | Sr-90 | Suspended | 0.012 U | 0.16 | 0.046 |
| RD-092 | SMRD-092-GW082410 | Tl-208 | Filtered | -0.15 U | 1.7 | 0.58 | SMDUP-02-GW082410 | Tl-208 | Filtered | 1.2 | 1.7 | 0.57 |
| RD-092 | SMRD-092-GW082410 | Tl-208 | Suspended | 0.41 | 0.84 | 0.31 | SMDUP-02-GW082410 | Tl-208 | Suspended | 0.01 U | 0.99 | 0.27 |
| RD-092 | SMRD-092-GW082410 | Tm-171 | Filtered | 70 U | 350 | 100 | SMDUP-02-GW082410 | Tm-171 | Filtered | 30 U | 350 | 100 |
| RD-092 | SMRD-092-GW082410 | Tm-171 | Suspended | 6 U | 120 | 36 | SMDUP-02-GW082410 | Tm-171 | Suspended | 5 U | 130 | 40 |
| RD-092 | SMRD-092-GW082410 | U-233/234 | Filtered | 1.01 | 0.039 | 0.088 | SMDUP-02-GW082410 | U-233/234 | Filtered | 1 | 0.032 | 0.085 |
| RD-092 | SMRD-092-GW082410 | U-233/234 | Suspended | 0.015 U | 0.039 | 0.014 | SMDUP-02-GW082410 | U-233/234 | Suspended | 0.002 U | 0.036 | 0.01 |
| RD-092 | SMRD-092-GW082410 | U-235/236 | Filtered | 0.009 U | 0.043 | 0.011 | SMDUP-02-GW082410 | U-235/236 | Filtered | 0.02 | 0.018 | 0.011 |
| RD-092 | SMRD-092-GW082410 | U-235/236 | Suspended | 0.0038 U | 0.031 | 0.0065 | SMDUP-02-GW082410 | U-235/236 | Suspended | -0.0023 U | 0.031 | 0.0023 |
| RD-092 | SMRD-092-GW082410 | U-238 | Filtered | 0.742 | 0.015 | 0.072 | SMDUP-02-GW082410 | U-238 | Filtered | 0.843 | 0.027 | 0.076 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|------|-----------------------|--------------|-----------------|----------|-------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-092 | SMRD-092-GW082410 | U-238 | Suspended | 0.0103 | 0.025 | 0.01 | SMDUP-02-GW082410 | U-238 | Suspended | 0.008 U | 0.029 | 0.01 |
| WS-07 | SMWS-07-GW082710 | Ac-227 | Filtered | -4.2 U | 9.2 | 2.8 | SMDUP-03-GW082710 | Ac-227 | Filtered | -0.3 U | 7 | 2 |
| WS-07 | SMWS-07-GW082710 | Ac-227 | Suspended | 1.56 | 2.6 | 0.8 | SMDUP-03-GW082710 | Ac-227 | Suspended | 0.02 U | 3.6 | 1.1 |
| WS-07 | SMWS-07-GW082710 | Ac-228 | Filtered | 3.4 | 4.7 | 1.5 | SMDUP-03-GW082710 | Ac-228 | Filtered | 3 U | 6.6 | 1.8 |
| WS-07 | SMWS-07-GW082710 | Ac-228 | Suspended | 1.46 | 2.4 | 0.73 | SMDUP-03-GW082710 | Ac-228 | Suspended | -1.2 U | 3.3 | 1.6 |
| WS-07 | SMWS-07-GW082710 | Bi-212 | Filtered | -1.1 U | 12 | 3.4 | SMDUP-03-GW082710 | Bi-212 | Filtered | 1.2 U | 12 | 3.5 |
| WS-07 | SMWS-07-GW082710 | Bi-212 | Suspended | 1.8 U | 5.4 | 1.6 | SMDUP-03-GW082710 | Bi-212 | Suspended | 1.8 U | 6.1 | 1.8 |
| WS-07 | SMWS-07-GW082710 | Bi-214 | Filtered | 4.6 | 2.8 | 1.3 | SMDUP-03-GW082710 | Bi-214 | Filtered | 3.3 | 3.2 | 1.1 |
| WS-07 | SMWS-07-GW082710 | Bi-214 | Suspended | 1.87 | 1.3 | 0.5 | SMDUP-03-GW082710 | Bi-214 | Suspended | 1.52 | 1.8 | 0.73 |
| WS-07 | SMWS-07-GW082710 | Cd-113m | Filtered | -1900 U | 16000 | 4800 | SMDUP-03-GW082710 | Cd-113m | Filtered | -60 U | 17000 | 4900 |
| WS-07 | SMWS-07-GW082710 | Cd-113m | Suspended | 1400 U | 6700 | 2000 | SMDUP-03-GW082710 | Cd-113m | Suspended | 20 U | 6900 | 2000 |
| WS-07 | SMWS-07-GW082710 | Co-60 | Filtered | 0.05 U | 1.8 | 0.51 | SMDUP-03-GW082710 | Co-60 | Filtered | 0.03 U | 2 | 0.55 |
| WS-07 | SMWS-07-GW082710 | Co-60 | Suspended | 0.29 U | 0.75 | 0.23 | SMDUP-03-GW082710 | Co-60 | Suspended | 0.12 U | 0.78 | 0.23 |
| WS-07 | SMWS-07-GW082710 | Cs-134 | Filtered | -0.06 U | 2.4 | 0.69 | SMDUP-03-GW082710 | Cs-134 | Filtered | -0.12 U | 1.7 | 0.49 |
| WS-07 | SMWS-07-GW082710 | Cs-134 | Suspended | -0.13 U | 0.77 | 0.23 | SMDUP-03-GW082710 | Cs-134 | Suspended | -0.21 U | 0.88 | 0.26 |
| WS-07 | SMWS-07-GW082710 | Cs-137 | Filtered | 1.51 | 1.4 | 0.46 | SMDUP-03-GW082710 | Cs-137 | Filtered | 0.11 U | 1.5 | 0.42 |
| WS-07 | SMWS-07-GW082710 | Cs-137 | Suspended | -0.13 U | 0.78 | 0.28 | SMDUP-03-GW082710 | Cs-137 | Suspended | 0.1 U | 0.74 | 0.22 |
| WS-07 | SMWS-07-GW082710 | Eu-152 | Filtered | 2.07 | 3.2 | 0.99 | SMDUP-03-GW082710 | Eu-152 | Filtered | 0.1 U | 4.6 | 1.4 |
| WS-07 | SMWS-07-GW082710 | Eu-152 | Suspended | 0.31 U | 1.8 | 0.52 | SMDUP-03-GW082710 | Eu-152 | Suspended | -0.01 U | 1.7 | 0.5 |
| WS-07 | SMWS-07-GW082710 | Eu-154 | Filtered | 2.5 U | 12 | 3.5 | SMDUP-03-GW082710 | Eu-154 | Filtered | 3.2 U | 13 | 3.8 |
| WS-07 | SMWS-07-GW082710 | Eu-154 | Suspended | 0.7 U | 5.1 | 1.5 | SMDUP-03-GW082710 | Eu-154 | Suspended | 0.5 U | 5.5 | 1.6 |
| WS-07 | SMWS-07-GW082710 | Eu-155 | Filtered | 1.14 U | 3.1 | 0.94 | SMDUP-03-GW082710 | Eu-155 | Filtered | 0.25 U | 3.1 | 0.92 |
| WS-07 | SMWS-07-GW082710 | Eu-155 | Suspended | 0.17 U | 1.2 | 0.34 | SMDUP-03-GW082710 | Eu-155 | Suspended | 0.13 U | 1.2 | 0.35 |
| WS-07 | SMWS-07-GW082710 | gross_alpha | Filtered | 3.46 | 0.51 | 0.37 | SMDUP-03-GW082710 | gross_alpha | Filtered | 4 | 0.42 | 0.39 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| WS-07 | SMWS-07-GW082710 | gross_alpha | Suspended | 0.26 U | 0.5 | 0.15 | SMDUP-03-GW082710 | gross_alpha | Suspended | 0.72 | 0.43 | 0.19 |
| WS-07 | SMWS-07-GW082710 | gross_beta | Filtered | 5.6 | 1.4 | 0.66 | SMDUP-03-GW082710 | gross_beta | Filtered | 7.2 | 2.5 | 1.1 |
| WS-07 | SMWS-07-GW082710 | gross_beta | Suspended | 4.44 | 0.76 | 0.42 | SMDUP-03-GW082710 | gross_beta | Suspended | 0.37 U | 0.81 | 0.25 |
| WS-07 | SMWS-07-GW082710 | H-3 | Filtered | 22 U | 140 | 43 | SMDUP-03-GW082710 | H-3 | Filtered | -4 U | 130 | 40 |
| WS-07 | SMWS-07-GW082710 | H-3_Total | Filtered | 21.6 | 28 | 8.8 | SMDUP-03-GW082710 | H-3_Total | Filtered | -3.5 U | 26 | 7 |
| WS-07 | SMWS-07-GW082710 | Ho-166m | Filtered | -0.52 U | 2.3 | 0.67 | SMDUP-03-GW082710 | Ho-166m | Filtered | 0.9 U | 2.2 | 0.66 |
| WS-07 | SMWS-07-GW082710 | Ho-166m | Suspended | 0.21 U | 1 | 0.29 | SMDUP-03-GW082710 | Ho-166m | Suspended | -0.03 U | 1 | 0.29 |
| WS-07 | SMWS-07-GW082710 | K-40 | Filtered | 15.9 | 18 | 5.8 | SMDUP-03-GW082710 | K-40 | Filtered | -5.2 U | 23 | 8.7 |
| WS-07 | SMWS-07-GW082710 | K-40 | Suspended | -6 U | 11 | 7 | SMDUP-03-GW082710 | K-40 | Suspended | 4.3 U | 13 | 4.1 |
| WS-07 | SMWS-07-GW082710 | Na-22 | Filtered | -0.23 U | 1.6 | 0.45 | SMDUP-03-GW082710 | Na-22 | Filtered | -0.24 U | 1.8 | 0.5 |
| WS-07 | SMWS-07-GW082710 | Na-22 | Suspended | 0.23 U | 0.88 | 0.26 | SMDUP-03-GW082710 | Na-22 | Suspended | -0.002 U | 0.78 | 0.22 |
| WS-07 | SMWS-07-GW082710 | Nb-94 | Filtered | 0.13 U | 1.1 | 0.31 | SMDUP-03-GW082710 | Nb-94 | Filtered | -0.003 U | 1.3 | 0.35 |
| WS-07 | SMWS-07-GW082710 | Nb-94 | Suspended | 0.23 | 0.49 | 0.15 | SMDUP-03-GW082710 | Nb-94 | Suspended | 0.15 U | 0.53 | 0.16 |
| WS-07 | SMWS-07-GW082710 | Np-236 | Filtered | 0.05 U | 2.8 | 0.84 | SMDUP-03-GW082710 | Np-236 | Filtered | 0.21 U | 1.9 | 0.56 |
| WS-07 | SMWS-07-GW082710 | Np-236 | Suspended | 0.11 U | 1.2 | 0.36 | SMDUP-03-GW082710 | Np-236 | Suspended | 0.19 U | 1.2 | 0.37 |
| WS-07 | SMWS-07-GW082710 | Np-239 | Filtered | 2.6 U | 6.6 | 2 | SMDUP-03-GW082710 | Np-239 | Filtered | -0.06 U | 7.8 | 2.3 |
| WS-07 | SMWS-07-GW082710 | Np-239 | Suspended | -0.002 U | 3.6 | 1 | SMDUP-03-GW082710 | Np-239 | Suspended | -0.8 U | 3.6 | 1.1 |
| WS-07 | SMWS-07-GW082710 | Pa-231 | Filtered | 1 U | 59 | 17 | SMDUP-03-GW082710 | Pa-231 | Filtered | 7 U | 59 | 17 |
| WS-07 | SMWS-07-GW082710 | Pa-231 | Suspended | -2.9 U | 26 | 7.7 | SMDUP-03-GW082710 | Pa-231 | Suspended | -0.7 U | 23 | 6.7 |
| WS-07 | SMWS-07-GW082710 | Pb-212 | Filtered | 1.42 | 2.4 | 0.91 | SMDUP-03-GW082710 | Pb-212 | Filtered | 0.6 U | 2.7 | 0.84 |
| WS-07 | SMWS-07-GW082710 | Pb-212 | Suspended | 1.03 | 0.97 | 0.33 | SMDUP-03-GW082710 | Pb-212 | Suspended | 0.34 U | 1.2 | 0.41 |
| WS-07 | SMWS-07-GW082710 | Pb-214 | Filtered | 0.74 U | 3.2 | 0.9 | SMDUP-03-GW082710 | Pb-214 | Filtered | 2.5 | 3.1 | 1.1 |
| WS-07 | SMWS-07-GW082710 | Pb-214 | Suspended | 1.37 | 1.2 | 0.38 | SMDUP-03-GW082710 | Pb-214 | Suspended | 1.13 | 1.3 | 0.47 |
| WS-07 | SMWS-07-GW082710 | Sb-125 | Filtered | 2.4 U | 13 | 3.8 | SMDUP-03-GW082710 | Sb-125 | Filtered | -0.1 U | 14 | 4 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|--------|-----------------------|--------------|-----------------|----------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| WS-07 | SMWS-07-GW082710 | Sb-125 | Suspended | 2 U | 5.7 | 1.7 | SMDUP-03-GW082710 | Sb-125 | Suspended | -0.4 U | 6.2 | 1.8 |
| WS-07 | SMWS-07-GW082710 | Sn-126 | Filtered | 0.46 U | 1.5 | 0.43 | SMDUP-03-GW082710 | Sn-126 | Filtered | 0.56 U | 1.5 | 0.45 |
| WS-07 | SMWS-07-GW082710 | Sn-126 | Suspended | -0.001 U | 0.74 | 0.21 | SMDUP-03-GW082710 | Sn-126 | Suspended | 0.2 U | 0.84 | 0.25 |
| WS-07 | SMWS-07-GW082710 | Sr-90 | Filtered | 0.092 U | 0.19 | 0.057 | SMDUP-03-GW082710 | Sr-90 | Filtered | 0.025 U | 0.18 | 0.051 |
| WS-07 | SMWS-07-GW082710 | Sr-90 | Suspended | 0.107 | 0.14 | 0.046 | SMDUP-03-GW082710 | Sr-90 | Suspended | -0.056 U | 0.15 | 0.038 |
| WS-07 | SMWS-07-GW082710 | Tl-208 | Filtered | -0.04 U | 1.6 | 0.46 | SMDUP-03-GW082710 | Tl-208 | Filtered | 0.01 U | 2 | 0.53 |
| WS-07 | SMWS-07-GW082710 | Tl-208 | Suspended | -0.7 U | 1 | 1.2 | SMDUP-03-GW082710 | Tl-208 | Suspended | 0.14 U | 0.9 | 0.33 |
| WS-07 | SMWS-07-GW082710 | Tm-171 | Filtered | 0 U | 380 | 110 | SMDUP-03-GW082710 | Tm-171 | Filtered | 100 U | 340 | 100 |
| WS-07 | SMWS-07-GW082710 | U-233/234 | Filtered | 1.36 | 0.015 | 0.077 | SMDUP-03-GW082710 | U-233/234 | Filtered | 1.51 | 0.02 | 0.085 |
| WS-07 | SMWS-07-GW082710 | U-233/234 | Suspended | 0.018 | 0.033 | 0.014 | SMDUP-03-GW082710 | U-233/234 | Suspended | 0.0046 U | 0.013 | 0.0083 |
| WS-07 | SMWS-07-GW082710 | U-235/236 | Filtered | 0.085 | 0.007 | 0.015 | SMDUP-03-GW082710 | U-235/236 | Filtered | 0.061 | 0.007 | 0.013 |
| WS-07 | SMWS-07-GW082710 | U-235/236 | Suspended | 0 U | 0.018 | 0.0025 | SMDUP-03-GW082710 | U-235/236 | Suspended | 0 U | 0.016 | 0.0022 |
| WS-07 | SMWS-07-GW082710 | U-238 | Filtered | 1.06 | 0.015 | 0.064 | SMDUP-03-GW082710 | U-238 | Filtered | 1.14 | 0.006 | 0.069 |
| WS-07 | SMWS-07-GW082710 | U-238 | Suspended | 0.0033 U | 0.015 | 0.0077 | SMDUP-03-GW082710 | U-238 | Suspended | 0.0119 K | 0.013 | 0.0096 |
| RD-33B | SMRD-33B-GW090210 | Ac-227 | Filtered | 0.3 U | 8.7 | 2.5 | SMDUP-04-GW090210 | Ac-227 | Filtered | -3.5 U | 11 | 3.5 |
| RD-33B | SMRD-33B-GW090210 | Ac-227 | Suspended | 0.09 U | 3.2 | 0.93 | SMDUP-04-GW090210 | Ac-227 | Suspended | -0.69 U | 2.7 | 0.8 |
| RD-33B | SMRD-33B-GW090210 | Ac-228 | Filtered | 7.5 | 5.1 | 1.8 | SMDUP-04-GW090210 | Ac-228 | Filtered | 4 | 4.3 | 1.4 |
| RD-33B | SMRD-33B-GW090210 | Ac-228 | Suspended | 1.06 | 2.2 | 0.66 | SMDUP-04-GW090210 | Ac-228 | Suspended | 0.72 U | 1.7 | 0.52 |
| RD-33B | SMRD-33B-GW090210 | Am-241 | Filtered | 0.023 | 0.047 | 0.015 | SMDUP-04-GW090210 | Am-241 | Filtered | 0.016 U | 0.066 | 0.018 |
| RD-33B | SMRD-33B-GW090210 | Am-241 | Suspended | 0.0101 U | 0.037 | 0.0099 | SMDUP-04-GW090210 | Am-241 | Suspended | 0.017 U | 0.046 | 0.014 |
| RD-33B | SMRD-33B-GW090210 | Bi-212 | Filtered | 0 U | 13 | 3.8 | SMDUP-04-GW090210 | Bi-212 | Filtered | 4.3 U | 12 | 3.5 |
| RD-33B | SMRD-33B-GW090210 | Bi-212 | Suspended | 0.08 U | 4.1 | 1.2 | SMDUP-04-GW090210 | Bi-212 | Suspended | 0.5 U | 3.7 | 1.1 |
| RD-33B | SMRD-33B-GW090210 | Bi-214 | Filtered | -2.2 U | 3.6 | 3.2 | SMDUP-04-GW090210 | Bi-214 | Filtered | 2.4 | 3.5 | 0.99 |
| RD-33B | SMRD-33B-GW090210 | Bi-214 | Suspended | 1.36 | 1.4 | 0.56 | SMDUP-04-GW090210 | Bi-214 | Suspended | 0.27 U | 1.1 | 0.38 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|-------|-------|-----------------------|--------------|-----------------|----------|-------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-33B | SMRD-33B-GW090210 | C-14 | Filtered | 0.57 U | 2.2 | 0.67 | SMDUP-04-GW090210 | C-14 | Filtered | 1.45 | 2.4 | 0.73 |
| RD-33B | SMRD-33B-GW090210 | Cd-113m | Filtered | 2200 U | 16000 | 4600 | SMDUP-04-GW090210 | Cd-113m | Filtered | -2000 U | 18000 | 5400 |
| RD-33B | SMRD-33B-GW090210 | Cd-113m | Suspended | 1300 U | 5800 | 1700 | SMDUP-04-GW090210 | Cd-113m | Suspended | -1200 U | 4500 | 1400 |
| RD-33B | SMRD-33B-GW090210 | Cm-243/244 | Filtered | 0.025 U | 0.081 | 0.023 | SMDUP-04-GW090210 | Cm-243/244 | Filtered | 0.033 U | 0.11 | 0.032 |
| RD-33B | SMRD-33B-GW090210 | Cm-243/244 | Suspended | 0.024 U | 0.1 | 0.029 | SMDUP-04-GW090210 | Cm-243/244 | Suspended | 0.017 U | 0.068 | 0.019 |
| RD-33B | SMRD-33B-GW090210 | Cm-245/246 | Filtered | 0.028 | 0.023 | 0.01 | SMDUP-04-GW090210 | Cm-245/246 | Filtered | 0.0061 U | 0.03 | 0.008 |
| RD-33B | SMRD-33B-GW090210 | Cm-245/246 | Suspended | 0.017 | 0.033 | 0.01 | SMDUP-04-GW090210 | Cm-245/246 | Suspended | -0.004 U | 0.045 | 0.011 |
| RD-33B | SMRD-33B-GW090210 | Co-60 | Filtered | -0.23 U | 1.6 | 0.45 | SMDUP-04-GW090210 | Co-60 | Filtered | 0.54 U | 1.4 | 0.42 |
| RD-33B | SMRD-33B-GW090210 | Co-60 | Suspended | -0.0001 U | 0.66 | 0.18 | SMDUP-04-GW090210 | Co-60 | Suspended | -0.02 U | 0.64 | 0.18 |
| RD-33B | SMRD-33B-GW090210 | Cs-134 | Filtered | 0.55 U | 1.4 | 0.43 | SMDUP-04-GW090210 | Cs-134 | Filtered | 0.02 U | 1.5 | 0.43 |
| RD-33B | SMRD-33B-GW090210 | Cs-134 | Suspended | 0.006 U | 0.49 | 0.14 | SMDUP-04-GW090210 | Cs-134 | Suspended | 0.035 U | 0.3 | 0.087 |
| RD-33B | SMRD-33B-GW090210 | Cs-137 | Filtered | 0.17 U | 1.6 | 0.46 | SMDUP-04-GW090210 | Cs-137 | Filtered | 0.45 U | 1.6 | 0.47 |
| RD-33B | SMRD-33B-GW090210 | Cs-137 | Suspended | -0.18 U | 0.66 | 0.2 | SMDUP-04-GW090210 | Cs-137 | Suspended | 0.15 U | 0.45 | 0.13 |
| RD-33B | SMRD-33B-GW090210 | Eu-152 | Filtered | 0.02 U | 2.9 | 0.84 | SMDUP-04-GW090210 | Eu-152 | Filtered | 0.1 U | 3.4 | 1 |
| RD-33B | SMRD-33B-GW090210 | Eu-152 | Suspended | 0.31 U | 1.4 | 0.42 | SMDUP-04-GW090210 | Eu-152 | Suspended | -0.04 U | 1 | 0.29 |
| RD-33B | SMRD-33B-GW090210 | Eu-154 | Filtered | 0.1 U | 12 | 3.4 | SMDUP-04-GW090210 | Eu-154 | Filtered | -4.4 U | 13 | 3.9 |
| RD-33B | SMRD-33B-GW090210 | Eu-154 | Suspended | -1 U | 5.4 | 1.6 | SMDUP-04-GW090210 | Eu-154 | Suspended | 0.03 U | 4 | 1.1 |
| RD-33B | SMRD-33B-GW090210 | Eu-155 | Filtered | 0.44 U | 2.9 | 0.87 | SMDUP-04-GW090210 | Eu-155 | Filtered | -1.2 U | 4.2 | 1.3 |
| RD-33B | SMRD-33B-GW090210 | Eu-155 | Suspended | 0.24 U | 1 | 0.3 | SMDUP-04-GW090210 | Eu-155 | Suspended | 0.17 U | 0.59 | 0.18 |
| RD-33B | SMRD-33B-GW090210 | gross_alpha | Filtered | 3.64 | 0.48 | 0.41 | SMDUP-04-GW090210 | gross_alpha | Filtered | 1.75 | 0.51 | 0.28 |
| RD-33B | SMRD-33B-GW090210 | gross_alpha | Suspended | 1.37 | 0.64 | 0.29 | SMDUP-04-GW090210 | gross_alpha | Suspended | 0.71 | 0.69 | 0.25 |
| RD-33B | SMRD-33B-GW090210 | gross_beta | Filtered | 7.03 | 2.2 | 0.93 | SMDUP-04-GW090210 | gross_beta | Filtered | 4.2 | 2.5 | 0.89 |
| RD-33B | SMRD-33B-GW090210 | gross_beta | Suspended | 0.3 U | 0.77 | 0.23 | SMDUP-04-GW090210 | gross_beta | Suspended | 0.63 | 0.72 | 0.24 |
| RD-33B | SMRD-33B-GW090210 | H-3 | Filtered | -32 U | 140 | 41 | SMDUP-04-GW090210 | H-3 | Filtered | -44 U | 140 | 41 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|-------|--------|-----------------------|--------------|-----------------|-----------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-33B | SMRD-33B-GW090210 | Ho-166m | Filtered | -0.46 U | 2.6 | 0.75 | SMDUP-04-GW090210 | Ho-166m | Filtered | -0.88 U | 2.5 | 0.76 |
| RD-33B | SMRD-33B-GW090210 | Ho-166m | Suspended | 0.11 U | 0.86 | 0.25 | SMDUP-04-GW090210 | Ho-166m | Suspended | -0.19 U | 0.76 | 0.22 |
| RD-33B | SMRD-33B-GW090210 | I-129 | Filtered | 0.09 U | 0.43 | 0.13 | SMDUP-04-GW090210 | I-129 | Filtered | 0.1 U | 0.45 | 0.14 |
| RD-33B | SMRD-33B-GW090210 | I-129 | Suspended | 0.09 U | 0.5 | 0.15 | SMDUP-04-GW090210 | I-129 | Suspended | 0.14 U | 0.46 | 0.14 |
| RD-33B | SMRD-33B-GW090210 | K-40 | Filtered | -23 U | 26 | 35 | SMDUP-04-GW090210 | K-40 | Filtered | -3.6 U | 18 | 4.9 |
| RD-33B | SMRD-33B-GW090210 | K-40 | Suspended | 3.7 U | 8.8 | 2.5 | SMDUP-04-GW090210 | K-40 | Suspended | -6.9 U | 9.8 | 6.9 |
| RD-33B | SMRD-33B-GW090210 | Na-22 | Filtered | 0.03 U | 1.6 | 0.45 | SMDUP-04-GW090210 | Na-22 | Filtered | -0.04 U | 1.6 | 0.45 |
| RD-33B | SMRD-33B-GW090210 | Na-22 | Suspended | 0.03 U | 0.72 | 0.2 | SMDUP-04-GW090210 | Na-22 | Suspended | 0.006 U | 0.56 | 0.15 |
| RD-33B | SMRD-33B-GW090210 | Nb-94 | Filtered | 0.04 U | 1.4 | 0.4 | SMDUP-04-GW090210 | Nb-94 | Filtered | 0.55 | 1.1 | 0.34 |
| RD-33B | SMRD-33B-GW090210 | Nb-94 | Suspended | 0.21 U | 0.59 | 0.18 | SMDUP-04-GW090210 | Nb-94 | Suspended | -0.1 U | 0.5 | 0.15 |
| RD-33B | SMRD-33B-GW090210 | Np-236 | Filtered | -0.55 U | 2.7 | 0.81 | SMDUP-04-GW090210 | Np-236 | Filtered | -0.3 U | 3.7 | 1.1 |
| RD-33B | SMRD-33B-GW090210 | Np-236 | Suspended | -0.32 U | 1.1 | 0.32 | SMDUP-04-GW090210 | Np-236 | Suspended | -0.18 U | 0.69 | 0.21 |
| RD-33B | SMRD-33B-GW090210 | Np-239 | Filtered | -0.2 U | 7.9 | 2.3 | SMDUP-04-GW090210 | Np-239 | Filtered | 3.4 U | 9.1 | 2.8 |
| RD-33B | SMRD-33B-GW090210 | Np-239 | Suspended | -1 U | 3.4 | 1 | SMDUP-04-GW090210 | Np-239 | Suspended | 0.53 U | 2.2 | 0.66 |
| RD-33B | SMRD-33B-GW090210 | Pa-231 | Filtered | 18 U | 55 | 16 | SMDUP-04-GW090210 | Pa-231 | Filtered | 0 U | 73 | 21 |
| RD-33B | SMRD-33B-GW090210 | Pa-231 | Suspended | 5.3 U | 23 | 6.8 | SMDUP-04-GW090210 | Pa-231 | Suspended | -3.4 U | 18 | 5.4 |
| RD-33B | SMRD-33B-GW090210 | Pb-212 | Filtered | 0.676 U | 2.5 | 0.996 | SMDUP-04-GW090210 | Pb-212 | Filtered | 1.9 | 3 | 1.1 |
| RD-33B | SMRD-33B-GW090210 | Pb-212 | Suspended | 0.32 U | 0.93 | 0.34 | SMDUP-04-GW090210 | Pb-212 | Suspended | 0.07 U | 0.69 | 0.23 |
| RD-33B | SMRD-33B-GW090210 | Pb-214 | Filtered | 4.9 | 2.1 | 1.1 | SMDUP-04-GW090210 | Pb-214 | Filtered | 5.53 | 2.9 | 0.96 |
| RD-33B | SMRD-33B-GW090210 | Pb-214 | Suspended | 1.49 | 0.81 | 0.34 | SMDUP-04-GW090210 | Pb-214 | Suspended | 1.38 | 0.83 | 0.28 |
| RD-33B | SMRD-33B-GW090210 | Pu-238 | Filtered | 0.003 U | 0.048 | 0.011 | SMDUP-04-GW090210 | Pu-238 | Filtered | -0.006 U | 0.061 | 0.016 |
| RD-33B | SMRD-33B-GW090210 | Pu-238 | Suspended | 0.059 | 0.048 | 0.018 | SMDUP-04-GW090210 | Pu-238 | Suspended | 0.013 U | 0.041 | 0.012 |
| RD-33B | SMRD-33B-GW090210 | Pu-239/240 | Filtered | -0.0018 U | 0.025 | 0.0018 | SMDUP-04-GW090210 | Pu-239/240 | Filtered | -0.0054 U | 0.033 | 0.0064 |
| RD-33B | SMRD-33B-GW090210 | Pu-239/240 | Suspended | -0.0059 U | 0.028 | 0.0048 | SMDUP-04-GW090210 | Pu-239/240 | Suspended | -0.0018 U | 0.024 | 0.0018 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|-------|--------|-----------------------|--------------|-----------------|-----------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-33B | SMRD-33B-GW090210 | Pu-242 | Filtered | 0.0012 U | 0.029 | 0.0055 | SMDUP-04-GW090210 | Pu-242 | Filtered | 0.0054 U | 0.023 | 0.006 |
| RD-33B | SMRD-33B-GW090210 | Pu-242 | Suspended | -0.0038 U | 0.032 | 0.0066 | SMDUP-04-GW090210 | Pu-242 | Suspended | -0.0024 U | 0.036 | 0.006 |
| RD-33B | SMRD-33B-GW090210 | Ra-226 | Filtered | 1.22 | 0.17 | 0.14 | SMDUP-04-GW090210 | Ra-226 | Filtered | 0.9 | 0.16 | 0.11 |
| RD-33B | SMRD-33B-GW090210 | Ra-226 | Suspended | 0.166 | 0.075 | 0.038 | SMDUP-04-GW090210 | Ra-226 | Suspended | 0.115 | 0.099 | 0.037 |
| RD-33B | SMRD-33B-GW090210 | Sb-125 | Filtered | -2.5 U | 14 | 4.1 | SMDUP-04-GW090210 | Sb-125 | Filtered | -2.9 U | 17 | 5.1 |
| RD-33B | SMRD-33B-GW090210 | Sb-125 | Suspended | 1.5 U | 4.3 | 1.3 | SMDUP-04-GW090210 | Sb-125 | Suspended | -0.04 U | 2.6 | 0.75 |
| RD-33B | SMRD-33B-GW090210 | Sn-126 | Filtered | -0.05 U | 1.3 | 0.38 | SMDUP-04-GW090210 | Sn-126 | Filtered | 0.17 U | 1.7 | 0.5 |
| RD-33B | SMRD-33B-GW090210 | Sn-126 | Suspended | 0.003 U | 0.73 | 0.21 | SMDUP-04-GW090210 | Sn-126 | Suspended | 0.01 U | 0.47 | 0.13 |
| RD-33B | SMRD-33B-GW090210 | Sr-90 | Filtered | -0.041 U | 0.21 | 0.058 | SMDUP-04-GW090210 | Sr-90 | Filtered | 0.031 U | 0.23 | 0.067 |
| RD-33B | SMRD-33B-GW090210 | Sr-90 | Suspended | 0.048 U | 0.17 | 0.05 | SMDUP-04-GW090210 | Sr-90 | Suspended | -0.031 U | 0.14 | 0.038 |
| RD-33B | SMRD-33B-GW090210 | Tc-99 | Filtered | -0.33 U | 1.8 | 0.53 | SMDUP-04-GW090210 | Tc-99 | Filtered | -0.36 U | 1.6 | 0.46 |
| RD-33B | SMRD-33B-GW090210 | Tl-208 | Filtered | -1 U | 2 | 15 | SMDUP-04-GW090210 | Tl-208 | Filtered | 0.71 U | 1.6 | 0.62 |
| RD-33B | SMRD-33B-GW090210 | Tl-208 | Suspended | -1 U | 0.9 | 1.2 | SMDUP-04-GW090210 | Tl-208 | Suspended | -0.24 U | 0.57 | 0.38 |
| RD-33B | SMRD-33B-GW090210 | Tm-171 | Filtered | 66.8 U | 330 | 100 | SMDUP-04-GW090210 | Tm-171 | Filtered | 1 U | 460 | 140 |
| RD-33B | SMRD-33B-GW090210 | Tm-171 | Suspended | -26 U | 97 | 29 | SMDUP-04-GW090210 | Tm-171 | Suspended | -7 U | 68 | 20 |
| RD-33B | SMRD-33B-GW090210 | U-233/234 | Filtered | 0.214 | 0.029 | 0.034 | SMDUP-04-GW090210 | U-233/234 | Filtered | 0.316 | 0.029 | 0.042 |
| RD-33B | SMRD-33B-GW090210 | U-233/234 | Suspended | -0.003 U | 0.045 | 0.013 | SMDUP-04-GW090210 | U-233/234 | Suspended | 0.0025 U | 0.029 | 0.0096 |
| RD-33B | SMRD-33B-GW090210 | U-235/236 | Filtered | 0.0037 U | 0.03 | 0.0063 | SMDUP-04-GW090210 | U-235/236 | Filtered | 0.022 | 0.031 | 0.012 |
| RD-33B | SMRD-33B-GW090210 | U-235/236 | Suspended | 0.0039 U | 0.032 | 0.0074 | SMDUP-04-GW090210 | U-235/236 | Suspended | -0.0019 U | 0.026 | 0.006 |
| RD-33B | SMRD-33B-GW090210 | U-238 | Filtered | 0.101 | 0.013 | 0.023 | SMDUP-04-GW090210 | U-238 | Filtered | 0.097 | 0.025 | 0.023 |
| RD-33B | SMRD-33B-GW090210 | U-238 | Suspended | -0.0047 U | 0.037 | 0.0094 | SMDUP-04-GW090210 | U-238 | Suspended | 0.0124 | 0.021 | 0.0098 |
| RD-087 | SMRD-087-GW090210 | Ac-227 | Filtered | -3.3 U | 9 | 2.7 | SMDUP-05-GW090210Q | Ac-227 | Filtered | 0.6 U | 13 | 3.9 |
| RD-087 | SMRD-087-GW090210 | Ac-227 | Suspended | -2.5 U | 4.3 | 1.3 | SMDUP-05-GW090210Q | Ac-227 | Suspended | -1.2 U | 2.9 | 0.87 |
| RD-087 | SMRD-087-GW090210 | Ac-228 | Suspended | 1.66 | 2.2 | 0.7 | SMDUP-05-GW090210Q | Ac-228 | Suspended | 0 U | 2.3 | 0.66 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|------|-----------------------|--------------|-----------------|----------|-------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-087 | SMRD-087-GW090210 | Bi-212 | Filtered | -2.6 U | 12 | 3.5 | SMDUP-05-GW090210Q | Bi-212 | Filtered | 5.9 | 8.3 | 2.8 |
| RD-087 | SMRD-087-GW090210 | Bi-212 | Suspended | 3.2 | 6.2 | 1.9 | SMDUP-05-GW090210Q | Bi-212 | Suspended | 0.5 U | 4.4 | 1.3 |
| RD-087 | SMRD-087-GW090210 | Bi-214 | Filtered | -0.8 U | 3.2 | 1.5 | SMDUP-05-GW090210Q | Bi-214 | Filtered | 1.16 U | 2.9 | 0.92 |
| RD-087 | SMRD-087-GW090210 | Bi-214 | Suspended | 1.17 | 1.8 | 0.81 | SMDUP-05-GW090210Q | Bi-214 | Suspended | -0.24 U | 1.2 | 0.47 |
| RD-087 | SMRD-087-GW090210 | Cd-113m | Filtered | 3800 U | 14000 | 4200 | SMDUP-05-GW090210Q | Cd-113m | Filtered | -3400 U | 15000 | 4400 |
| RD-087 | SMRD-087-GW090210 | Cd-113m | Suspended | 2700 | 5300 | 1600 | SMDUP-05-GW090210Q | Cd-113m | Suspended | 300 U | 4200 | 1200 |
| RD-087 | SMRD-087-GW090210 | Co-60 | Filtered | 0.3 U | 1.6 | 0.46 | SMDUP-05-GW090210Q | Co-60 | Filtered | -0.11 U | 1.3 | 0.39 |
| RD-087 | SMRD-087-GW090210 | Co-60 | Suspended | -0.13 U | 0.83 | 0.24 | SMDUP-05-GW090210Q | Co-60 | Suspended | 0 U | 0.93 | 0.26 |
| RD-087 | SMRD-087-GW090210 | Cs-134 | Filtered | 0.08 U | 1.5 | 0.44 | SMDUP-05-GW090210Q | Cs-134 | Filtered | -0.23 U | 1.6 | 0.47 |
| RD-087 | SMRD-087-GW090210 | Cs-134 | Suspended | -0.22 U | 0.84 | 0.25 | SMDUP-05-GW090210Q | Cs-134 | Suspended | 0.43 SK | 0.59 | 0.12 |
| RD-087 | SMRD-087-GW090210 | Cs-137 | Filtered | -0.03 U | 1.4 | 0.39 | SMDUP-05-GW090210Q | Cs-137 | Filtered | -0.1 U | 1.2 | 0.36 |
| RD-087 | SMRD-087-GW090210 | Cs-137 | Suspended | 0.26 U | 0.66 | 0.2 | SMDUP-05-GW090210Q | Cs-137 | Suspended | 0.19 U | 0.53 | 0.16 |
| RD-087 | SMRD-087-GW090210 | Eu-152 | Filtered | -0.9 U | 4 | 1.2 | SMDUP-05-GW090210Q | Eu-152 | Filtered | 0.49 U | 3.3 | 0.97 |
| RD-087 | SMRD-087-GW090210 | Eu-152 | Suspended | 0.51 U | 1.8 | 0.53 | SMDUP-05-GW090210Q | Eu-152 | Suspended | 0.49 U | 1.2 | 0.36 |
| RD-087 | SMRD-087-GW090210 | Eu-154 | Filtered | 2 U | 10 | 3 | SMDUP-05-GW090210Q | Eu-154 | Filtered | -0.6 U | 10 | 2.9 |
| RD-087 | SMRD-087-GW090210 | Eu-154 | Suspended | -1.6 U | 6.7 | 2 | SMDUP-05-GW090210Q | Eu-154 | Suspended | 2 | 4.2 | 1.3 |
| RD-087 | SMRD-087-GW090210 | Eu-155 | Filtered | 1.05 U | 3.2 | 0.96 | SMDUP-05-GW090210Q | Eu-155 | Filtered | 0.61 U | 3.2 | 0.94 |
| RD-087 | SMRD-087-GW090210 | Eu-155 | Suspended | 0.01 U | 1.2 | 0.35 | SMDUP-05-GW090210Q | Eu-155 | Suspended | -0.01 U | 0.77 | 0.23 |
| RD-087 | SMRD-087-GW090210 | gross_alpha | Filtered | 17.9 | 0.4 | 1.1 | SMDUP-05-GW090210Q | gross_alpha | Filtered | 16.6 | 0.5 | 1 |
| RD-087 | SMRD-087-GW090210 | gross_alpha | Suspended | 0.43 | 0.74 | 0.23 | SMDUP-05-GW090210Q | gross_alpha | Suspended | 3.26 | 0.44 | 0.36 |
| RD-087 | SMRD-087-GW090210 | gross_beta | Filtered | 11.7 | 2 | 1.1 | SMDUP-05-GW090210Q | gross_beta | Filtered | 12.8 | 2.3 | 1.3 |
| RD-087 | SMRD-087-GW090210 | gross_beta | Suspended | 3.09 | 0.73 | 0.35 | SMDUP-05-GW090210Q | gross_beta | Suspended | 4.72 | 0.73 | 0.42 |
| RD-087 | SMRD-087-GW090210 | H-3 | Filtered | 7630 | 130 | 350 | SMDUP-05-GW090210Q | H-3 | Filtered | 8250 | 130 | 370 |
| RD-087 | SMRD-087-GW090210 | Ho-166m | Filtered | -0.25 U | 2.3 | 0.65 | SMDUP-05-GW090210Q | Ho-166m | Filtered | 0.07 U | 1.9 | 0.55 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|-------|-----------------------|--------------|-----------------|----------|------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-087 | SMRD-087-GW090210 | Ho-166m | Suspended | -0.01 U | 1 | 0.3 | SMDUP-05-GW090210Q | Ho-166m | Suspended | -0.16 U | 0.84 | 0.25 |
| RD-087 | SMRD-087-GW090210 | K-40 | Filtered | 13.6 | 15 | 4.9 | SMDUP-05-GW090210Q | K-40 | Filtered | 5.1 U | 25 | 6.3 |
| RD-087 | SMRD-087-GW090210 | K-40 | Suspended | -5.3 U | 11 | 5.3 | SMDUP-05-GW090210Q | K-40 | Suspended | 4.4 | 6 | 1.9 |
| RD-087 | SMRD-087-GW090210 | Na-22 | Filtered | -0.28 U | 1.8 | 0.51 | SMDUP-05-GW090210Q | Na-22 | Filtered | 0.06 U | 1.4 | 0.4 |
| RD-087 | SMRD-087-GW090210 | Na-22 | Suspended | 0.14 U | 0.84 | 0.24 | SMDUP-05-GW090210Q | Na-22 | Suspended | 0.02 U | 0.67 | 0.19 |
| RD-087 | SMRD-087-GW090210 | Nb-94 | Filtered | -0.4 U | 1.3 | 0.38 | SMDUP-05-GW090210Q | Nb-94 | Filtered | -0.003 U | 1.2 | 0.34 |
| RD-087 | SMRD-087-GW090210 | Nb-94 | Suspended | -0.19 U | 0.65 | 0.19 | SMDUP-05-GW090210Q | Nb-94 | Suspended | 0 U | 0.49 | 0.14 |
| RD-087 | SMRD-087-GW090210 | Np-236 | Filtered | -0.1 U | 2.7 | 0.8 | SMDUP-05-GW090210Q | Np-236 | Filtered | 0.17 U | 2.6 | 0.78 |
| RD-087 | SMRD-087-GW090210 | Np-236 | Suspended | 0.12 U | 1.1 | 0.34 | SMDUP-05-GW090210Q | Np-236 | Suspended | -0.15 U | 0.53 | 0.16 |
| RD-087 | SMRD-087-GW090210 | Np-239 | Filtered | -1.8 U | 8 | 2.4 | SMDUP-05-GW090210Q | Np-239 | Filtered | 5.2 | 7.5 | 2.3 |
| RD-087 | SMRD-087-GW090210 | Np-239 | Suspended | 0.23 U | 2.9 | 0.86 | SMDUP-05-GW090210Q | Np-239 | Suspended | -0.62 U | 2.2 | 0.65 |
| RD-087 | SMRD-087-GW090210 | Pa-231 | Filtered | 23 | 47 | 14 | SMDUP-05-GW090210Q | Pa-231 | Filtered | -0.5 U | 58 | 17 |
| RD-087 | SMRD-087-GW090210 | Pa-231 | Suspended | 8 U | 27 | 8.2 | SMDUP-05-GW090210Q | Pa-231 | Suspended | 0.7 U | 18 | 5.2 |
| RD-087 | SMRD-087-GW090210 | Pb-212 | Filtered | 0.8 U | 2.6 | 0.97 | SMDUP-05-GW090210Q | Pb-212 | Filtered | 0.87 U | 2.9 | 0.87 |
| RD-087 | SMRD-087-GW090210 | Pb-212 | Suspended | 0.83 | 1.3 | 0.47 | SMDUP-05-GW090210Q | Pb-212 | Suspended | 0.07 U | 0.77 | 0.25 |
| RD-087 | SMRD-087-GW090210 | Pb-214 | Filtered | -0.15 U | 3 | 0.94 | SMDUP-05-GW090210Q | Pb-214 | Filtered | 1.38 | 2.5 | 0.83 |
| RD-087 | SMRD-087-GW090210 | Pb-214 | Suspended | 0.26 U | 1.4 | 0.52 | SMDUP-05-GW090210Q | Pb-214 | Suspended | -0.13 U | 0.97 | 0.36 |
| RD-087 | SMRD-087-GW090210 | Sb-125 | Filtered | 1.6 U | 13 | 3.8 | SMDUP-05-GW090210Q | Sb-125 | Filtered | -0.4 U | 15 | 4.4 |
| RD-087 | SMRD-087-GW090210 | Sb-125 | Suspended | -1.8 U | 6.3 | 1.9 | SMDUP-05-GW090210Q | Sb-125 | Suspended | -0.4 U | 3.8 | 1.1 |
| RD-087 | SMRD-087-GW090210 | Sn-126 | Filtered | 0.55 U | 1.5 | 0.45 | SMDUP-05-GW090210Q | Sn-126 | Filtered | -0.24 U | 1.4 | 0.41 |
| RD-087 | SMRD-087-GW090210 | Sn-126 | Suspended | 0.18 U | 0.84 | 0.25 | SMDUP-05-GW090210Q | Sn-126 | Suspended | 0.29 | 0.57 | 0.17 |
| RD-087 | SMRD-087-GW090210 | Sr-90 | Filtered | 0.003 U | 0.17 | 0.05 | SMDUP-05-GW090210Q | Sr-90 | Filtered | 0.01 U | 0.13 | 0.039 |
| RD-087 | SMRD-087-GW090210 | Sr-90 | Suspended | -0.057 U | 0.11 | 0.029 | SMDUP-05-GW090210Q | Sr-90 | Suspended | 0.01 U | 0.1 | 0.03 |
| RD-087 | SMRD-087-GW090210 | Tl-208 | Filtered | -1 U | 1.9 | 3.1 | SMDUP-05-GW090210Q | Tl-208 | Filtered | 0.32 U | 1.7 | 0.57 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|-------|--------|-----------------------|--------------|-----------------|-----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-087 | SMRD-087-GW090210 | Tl-208 | Suspended | -0.06 U | 0.99 | 0.31 | SMDUP-05-GW090210Q | Tl-208 | Suspended | -0.2 U | 0.66 | 0.39 |
| RD-087 | SMRD-087-GW090210 | Tm-171 | Filtered | 20 U | 360 | 110 | SMDUP-05-GW090210Q | Tm-171 | Filtered | 200 U | 440 | 130 |
| RD-087 | SMRD-087-GW090210 | Tm-171 | Suspended | 12 U | 130 | 39 | SMDUP-05-GW090210Q | Tm-171 | Suspended | -4 U | 60 | 18 |
| RD-087 | SMRD-087-GW090210 | U-233/234 | Filtered | 8.58 | 0.03 | 0.38 | SMDUP-05-GW090210Q | U-233/234 | Filtered | 8.92 | 0.007 | 0.4 |
| RD-087 | SMRD-087-GW090210 | U-233/234 | Suspended | -0.0044 U | 0.015 | 0.0046 | SMDUP-05-GW090210Q | U-233/234 | Suspended | 0.0075 | 0.0056 | 0.0062 |
| RD-087 | SMRD-087-GW090210 | U-235/236 | Filtered | 0.361 | 0.019 | 0.034 | SMDUP-05-GW090210Q | U-235/236 | Filtered | 0.434 | 0.022 | 0.041 |
| RD-087 | SMRD-087-GW090210 | U-235/236 | Suspended | 0.0103 | 0.007 | 0.0052 | SMDUP-05-GW090210Q | U-235/236 | Suspended | 0 U | 0.007 | 0.0026 |
| RD-087 | SMRD-087-GW090210 | U-238 | Filtered | 8.14 | 0.02 | 0.37 | SMDUP-05-GW090210Q | U-238 | Filtered | 8.53 | 0.007 | 0.39 |
| RD-087 | SMRD-087-GW090210 | U-238 | Suspended | -0.0058 U | 0.019 | 0.0046 | SMDUP-05-GW090210Q | U-238 | Suspended | 0.00002 U | 0.015 | 0.0051 |
| RD-095 | SMRD-095-GW090210 | Ac-227 | Filtered | -0.2 U | 12 | 3.5 | SMDUP-06-GW090210Q | Ac-227 | Filtered | 0 U | 11 | 3.3 |
| RD-095 | SMRD-095-GW090210 | Ac-227 | Suspended | -0.06 U | 6 | 1.8 | SMDUP-06-GW090210Q | Ac-227 | Suspended | 0.08 U | 4.3 | 1.3 |
| RD-095 | SMRD-095-GW090210 | Ac-228 | Suspended | 0.2 U | 2.9 | 0.73 | SMDUP-06-GW090210Q | Ac-228 | Suspended | 0 U | 3.4 | 0.98 |
| RD-095 | SMRD-095-GW090210 | Bi-212 | Filtered | -1.3 U | 13 | 3.7 | SMDUP-06-GW090210Q | Bi-212 | Filtered | 1.8 U | 12 | 3.5 |
| RD-095 | SMRD-095-GW090210 | Bi-212 | Suspended | 1.6 U | 6.4 | 1.9 | SMDUP-06-GW090210Q | Bi-212 | Suspended | 2 U | 4.8 | 1.4 |
| RD-095 | SMRD-095-GW090210 | Bi-214 | Filtered | 1.8 | 3.5 | 1.3 | SMDUP-06-GW090210Q | Bi-214 | Filtered | -0.8 U | 3.1 | 1.3 |
| RD-095 | SMRD-095-GW090210 | Bi-214 | Suspended | -0.59 U | 1.9 | 0.95 | SMDUP-06-GW090210Q | Bi-214 | Suspended | -0.9 U | 1.7 | 1.7 |
| RD-095 | SMRD-095-GW090210 | Cd-113m | Filtered | 6500 U | 16000 | 4900 | SMDUP-06-GW090210Q | Cd-113m | Filtered | -3500 U | 16000 | 4700 |
| RD-095 | SMRD-095-GW090210 | Cd-113m | Suspended | -500 U | 5500 | 1600 | SMDUP-06-GW090210Q | Cd-113m | Suspended | -2000 U | 7500 | 2300 |
| RD-095 | SMRD-095-GW090210 | Co-60 | Filtered | 0.27 U | 1.8 | 0.51 | SMDUP-06-GW090210Q | Co-60 | Filtered | -0.34 U | 1.7 | 0.49 |
| RD-095 | SMRD-095-GW090210 | Co-60 | Suspended | 0.34 | 0.7 | 0.21 | SMDUP-06-GW090210Q | Co-60 | Suspended | 0 U | 0.68 | 0.18 |
| RD-095 | SMRD-095-GW090210 | Cs-134 | Filtered | -0.42 U | 1.6 | 0.46 | SMDUP-06-GW090210Q | Cs-134 | Filtered | -0.52 U | 1.5 | 0.46 |
| RD-095 | SMRD-095-GW090210 | Cs-134 | Suspended | -0.05 U | 0.78 | 0.23 | SMDUP-06-GW090210Q | Cs-134 | Suspended | 0 U | 1.1 | 0.33 |
| RD-095 | SMRD-095-GW090210 | Cs-137 | Filtered | 0.69 U | 1.6 | 0.47 | SMDUP-06-GW090210Q | Cs-137 | Filtered | 0.24 U | 1.4 | 0.42 |
| RD-095 | SMRD-095-GW090210 | Cs-137 | Suspended | 0.15 U | 0.76 | 0.22 | SMDUP-06-GW090210Q | Cs-137 | Suspended | -0.16 U | 0.77 | 0.35 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-095 | SMRD-095-GW090210 | Eu-152 | Filtered | -0.1 U | 4.8 | 1.4 | SMDUP-06-GW090210Q | Eu-152 | Filtered | -0.03 U | 3.3 | 0.94 |
| RD-095 | SMRD-095-GW090210 | Eu-152 | Suspended | -0.04 U | 1.4 | 0.42 | SMDUP-06-GW090210Q | Eu-152 | Suspended | -0.19 U | 1.7 | 0.51 |
| RD-095 | SMRD-095-GW090210 | Eu-154 | Filtered | 0 U | 17 | 4.9 | SMDUP-06-GW090210Q | Eu-154 | Filtered | -3.6 U | 13 | 3.9 |
| RD-095 | SMRD-095-GW090210 | Eu-154 | Suspended | -0.5 U | 5.7 | 1.7 | SMDUP-06-GW090210Q | Eu-154 | Suspended | -0.9 U | 5.7 | 1.6 |
| RD-095 | SMRD-095-GW090210 | Eu-155 | Filtered | 0.86 U | 2.8 | 0.85 | SMDUP-06-GW090210Q | Eu-155 | Filtered | 0.08 U | 3.4 | 1 |
| RD-095 | SMRD-095-GW090210 | Eu-155 | Suspended | 0.17 U | 1.2 | 0.37 | SMDUP-06-GW090210Q | Eu-155 | Suspended | 0.003 U | 1.2 | 0.34 |
| RD-095 | SMRD-095-GW090210 | gross_alpha | Filtered | 15.7 | 0.7 | 1.1 | SMDUP-06-GW090210Q | gross_alpha | Filtered | 12.7 | 0.47 | 0.88 |
| RD-095 | SMRD-095-GW090210 | gross_alpha | Suspended | 4.71 | 0.93 | 0.61 | SMDUP-06-GW090210Q | gross_alpha | Suspended | 3.85 | 0.78 | 0.48 |
| RD-095 | SMRD-095-GW090210 | gross_beta | Filtered | 11.5 | 2.2 | 1.2 | SMDUP-06-GW090210Q | gross_beta | Filtered | 13.9 | 2.4 | 1.3 |
| RD-095 | SMRD-095-GW090210 | gross_beta | Suspended | 2.36 | 0.77 | 0.34 | SMDUP-06-GW090210Q | gross_beta | Suspended | 3.38 | 0.85 | 0.41 |
| RD-095 | SMRD-095-GW090210 | H-3 | Filtered | 59700 | 200 | 2700 | SMDUP-06-GW090210Q | H-3 | Filtered | 54000 | 100 | 2400 |
| RD-095 | SMRD-095-GW090210 | Ho-166m | Filtered | -0.04 U | 1.8 | 0.5 | SMDUP-06-GW090210Q | Ho-166m | Filtered | -0.58 U | 2.3 | 0.68 |
| RD-095 | SMRD-095-GW090210 | Ho-166m | Suspended | -0.14 U | 1.1 | 0.33 | SMDUP-06-GW090210Q | Ho-166m | Suspended | 0.18 U | 1.1 | 0.32 |
| RD-095 | SMRD-095-GW090210 | K-40 | Filtered | -19 U | 25 | 32 | SMDUP-06-GW090210Q | K-40 | Filtered | 33 | 4 | 4.4 |
| RD-095 | SMRD-095-GW090210 | K-40 | Suspended | 8.1 | 12 | 3.3 | SMDUP-06-GW090210Q | K-40 | Suspended | -6.2 U | 11 | 8.7 |
| RD-095 | SMRD-095-GW090210 | Na-22 | Filtered | -0.1 U | 1.9 | 0.54 | SMDUP-06-GW090210Q | Na-22 | Filtered | 0.36 U | 1.6 | 0.47 |
| RD-095 | SMRD-095-GW090210 | Na-22 | Suspended | 0.01 U | 0.85 | 0.24 | SMDUP-06-GW090210Q | Na-22 | Suspended | 0.04 U | 0.81 | 0.23 |
| RD-095 | SMRD-095-GW090210 | Nb-94 | Filtered | -0.03 U | 1.4 | 0.39 | SMDUP-06-GW090210Q | Nb-94 | Filtered | 0.22 U | 1.2 | 0.36 |
| RD-095 | SMRD-095-GW090210 | Nb-94 | Suspended | 0.22 U | 0.62 | 0.18 | SMDUP-06-GW090210Q | Nb-94 | Suspended | -0.14 U | 0.66 | 0.19 |
| RD-095 | SMRD-095-GW090210 | Np-236 | Filtered | -0.28 U | 2.6 | 0.78 | SMDUP-06-GW090210Q | Np-236 | Filtered | -0.34 U | 2.7 | 0.79 |
| RD-095 | SMRD-095-GW090210 | Np-236 | Suspended | -0.33 U | 1.3 | 0.38 | SMDUP-06-GW090210Q | Np-236 | Suspended | -0.3 U | 1.3 | 0.38 |
| RD-095 | SMRD-095-GW090210 | Np-239 | Filtered | -2 U | 9 | 2.7 | SMDUP-06-GW090210Q | Np-239 | Filtered | 0.6 U | 7.8 | 2.3 |
| RD-095 | SMRD-095-GW090210 | Np-239 | Suspended | -0.1 U | 3.6 | 1.1 | SMDUP-06-GW090210Q | Np-239 | Suspended | -1 U | 3.5 | 1 |
| RD-095 | SMRD-095-GW090210 | Pa-231 | Filtered | -1 U | 62 | 18 | SMDUP-06-GW090210Q | Pa-231 | Filtered | -14 U | 59 | 17 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|--------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-095 | SMRD-095-GW090210 | Pa-231 | Suspended | -1.8 U | 27 | 8.1 | SMDUP-06-GW090210Q | Pa-231 | Suspended | -1.3 U | 22 | 6.5 |
| RD-095 | SMRD-095-GW090210 | Pb-212 | Filtered | 1.24 U | 2.8 | 0.94 | SMDUP-06-GW090210Q | Pb-212 | Filtered | 1.4 | 2.8 | 1.1 |
| RD-095 | SMRD-095-GW090210 | Pb-212 | Suspended | 0.3 U | 1.3 | 0.4 | SMDUP-06-GW090210Q | Pb-212 | Suspended | -0.58 U | 1.4 | 0.93 |
| RD-095 | SMRD-095-GW090210 | Pb-214 | Filtered | 2 | 3.4 | 1.2 | SMDUP-06-GW090210Q | Pb-214 | Filtered | -2 U | 3 | 48 |
| RD-095 | SMRD-095-GW090210 | Pb-214 | Suspended | -0.29 U | 1.6 | 0.51 | SMDUP-06-GW090210Q | Pb-214 | Suspended | -0.74 U | 1.5 | 0.84 |
| RD-095 | SMRD-095-GW090210 | Sb-125 | Filtered | -0.4 U | 14 | 4.1 | SMDUP-06-GW090210Q | Sb-125 | Filtered | -5.5 U | 14 | 4.3 |
| RD-095 | SMRD-095-GW090210 | Sb-125 | Suspended | -1 U | 6.3 | 1.9 | SMDUP-06-GW090210Q | Sb-125 | Suspended | -0.7 U | 6.3 | 1.9 |
| RD-095 | SMRD-095-GW090210 | Sn-126 | Filtered | 0.52 U | 1.5 | 0.44 | SMDUP-06-GW090210Q | Sn-126 | Filtered | 0.46 U | 1.4 | 0.43 |
| RD-095 | SMRD-095-GW090210 | Sn-126 | Suspended | 0.3 U | 0.76 | 0.23 | SMDUP-06-GW090210Q | Sn-126 | Suspended | 0.03 U | 0.91 | 0.26 |
| RD-095 | SMRD-095-GW090210 | Sr-90 | Filtered | 0.003 U | 0.14 | 0.04 | SMDUP-06-GW090210Q | Sr-90 | Filtered | 0.019 U | 0.13 | 0.038 |
| RD-095 | SMRD-095-GW090210 | Sr-90 | Suspended | 0.06 | 0.095 | 0.03 | SMDUP-06-GW090210Q | Sr-90 | Suspended | 0.008 U | 0.092 | 0.027 |
| RD-095 | SMRD-095-GW090210 | Tl-208 | Filtered | 1.12 | 1.6 | 0.52 | SMDUP-06-GW090210Q | Tl-208 | Filtered | -0.8 U | 1.8 | 1.8 |
| RD-095 | SMRD-095-GW090210 | Tl-208 | Suspended | -0.04 U | 0.96 | 0.28 | SMDUP-06-GW090210Q | Tl-208 | Suspended | 0.1 U | 0.74 | 0.2 |
| RD-095 | SMRD-095-GW090210 | Tm-171 | Filtered | 120 U | 360 | 110 | SMDUP-06-GW090210Q | Tm-171 | Filtered | 0 U | 420 | 130 |
| RD-095 | SMRD-095-GW090210 | U-233/234 | Filtered | 9.45 | 0.02 | 0.42 | SMDUP-06-GW090210Q | U-233/234 | Filtered | 9.35 | 0.006 | 0.42 |
| RD-095 | SMRD-095-GW090210 | U-233/234 | Suspended | 0.439 | 0.017 | 0.037 | SMDUP-06-GW090210Q | U-233/234 | Suspended | 0.402 | 0.017 | 0.035 |
| RD-095 | SMRD-095-GW090210 | U-235/236 | Filtered | 0.431 | 0.008 | 0.04 | SMDUP-06-GW090210Q | U-235/236 | Filtered | 0.399 | 0.007 | 0.036 |
| RD-095 | SMRD-095-GW090210 | U-235/236 | Suspended | 0.0308 | 0.0076 | 0.0094 | SMDUP-06-GW090210Q | U-235/236 | Suspended | 0.0307 | 0.0076 | 0.0094 |
| RD-095 | SMRD-095-GW090210 | U-238 | Filtered | 8.43 | 0.02 | 0.38 | SMDUP-06-GW090210Q | U-238 | Filtered | 8.34 | 0.02 | 0.37 |
| RD-095 | SMRD-095-GW090210 | U-238 | Suspended | 0.425 | 0.029 | 0.037 | SMDUP-06-GW090210Q | U-238 | Suspended | 0.343 | 0.016 | 0.032 |
| RD-027 | SMRD-027-GW090310 | Ac-227 | Filtered | -5.3 U | 9.9 | 3 | SMDUP-08-GW090310 | Ac-227 | Filtered | -5.9 L U | 9.3 | 2.8 |
| RD-027 | SMRD-027-GW090310 | Ac-227 | Suspended | -1.1 U | 3.6 | 1.1 | SMDUP-08-GW090310 | Ac-227 | Suspended | 0.3 U | 5.5 | 1.6 |
| RD-027 | SMRD-027-GW090310 | Ac-228 | Suspended | 1.94 | 2.1 | 0.68 | SMDUP-08-GW090310 | Ac-228 | Suspended | 1.2 | 2.6 | 0.79 |
| RD-027 | SMRD-027-GW090310 | Bi-212 | Filtered | -1 U | 9.7 | 2.7 | SMDUP-08-GW090310 | Bi-212 | Filtered | -1.4 U | 13 | 5.5 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|------|-----------------------|--------------|-----------------|----------|-------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-027 | SMRD-027-GW090310 | Bi-212 | Suspended | 2.6 | 5.6 | 1.7 | SMDUP-08-GW090310 | Bi-212 | Suspended | 3.1 | 5.9 | 1.8 |
| RD-027 | SMRD-027-GW090310 | Bi-214 | Filtered | -0.4 U | 3.2 | 1.1 | SMDUP-08-GW090310 | Bi-214 | Filtered | 1 U | 3 | 1 |
| RD-027 | SMRD-027-GW090310 | Bi-214 | Suspended | 0.19 U | 1.3 | 0.41 | SMDUP-08-GW090310 | Bi-214 | Suspended | -0.08 U | 1.8 | 0.74 |
| RD-027 | SMRD-027-GW090310 | Cd-113m | Filtered | 5700 U | 13000 | 3900 | SMDUP-08-GW090310 | Cd-113m | Filtered | 0 U | 13000 | 3900 |
| RD-027 | SMRD-027-GW090310 | Cd-113m | Suspended | -800 U | 7200 | 2100 | SMDUP-08-GW090310 | Cd-113m | Suspended | 2000 U | 6800 | 2000 |
| RD-027 | SMRD-027-GW090310 | Co-60 | Filtered | -0.44 U | 1.8 | 0.52 | SMDUP-08-GW090310 | Co-60 | Filtered | 0.05 U | 1.2 | 0.33 |
| RD-027 | SMRD-027-GW090310 | Co-60 | Suspended | 0.13 U | 0.78 | 0.22 | SMDUP-08-GW090310 | Co-60 | Suspended | 0.09 U | 0.76 | 0.22 |
| RD-027 | SMRD-027-GW090310 | Cs-134 | Filtered | -0.68 U | 1.7 | 0.51 | SMDUP-08-GW090310 | Cs-134 | Filtered | -0.45 U | 1.5 | 0.44 |
| RD-027 | SMRD-027-GW090310 | Cs-134 | Suspended | 0.007 U | 0.67 | 0.19 | SMDUP-08-GW090310 | Cs-134 | Suspended | 0.16 U | 0.88 | 0.26 |
| RD-027 | SMRD-027-GW090310 | Cs-137 | Filtered | -0.23 U | 1.5 | 0.43 | SMDUP-08-GW090310 | Cs-137 | Filtered | 0.1 U | 1.2 | 0.36 |
| RD-027 | SMRD-027-GW090310 | Cs-137 | Suspended | -0.12 U | 0.75 | 0.3 | SMDUP-08-GW090310 | Cs-137 | Suspended | 0.11 U | 0.72 | 0.21 |
| RD-027 | SMRD-027-GW090310 | Eu-152 | Filtered | 0 U | 3.7 | 1.1 | SMDUP-08-GW090310 | Eu-152 | Filtered | -0.41 U | 2.4 | 0.71 |
| RD-027 | SMRD-027-GW090310 | Eu-152 | Suspended | 0.002 U | 1.5 | 0.43 | SMDUP-08-GW090310 | Eu-152 | Suspended | 0 U | 1.9 | 0.56 |
| RD-027 | SMRD-027-GW090310 | Eu-154 | Filtered | -4.1 U | 12 | 3.6 | SMDUP-08-GW090310 | Eu-154 | Filtered | -2 U | 11 | 3.2 |
| RD-027 | SMRD-027-GW090310 | Eu-154 | Suspended | -0.7 U | 5.9 | 1.7 | SMDUP-08-GW090310 | Eu-154 | Suspended | 1.3 U | 6.2 | 1.8 |
| RD-027 | SMRD-027-GW090310 | Eu-155 | Filtered | -0.33 U | 2.5 | 0.74 | SMDUP-08-GW090310 | Eu-155 | Filtered | -0.2 U | 3.5 | 1 |
| RD-027 | SMRD-027-GW090310 | Eu-155 | Suspended | 0.26 U | 1 | 0.31 | SMDUP-08-GW090310 | Eu-155 | Suspended | 0.04 U | 1.1 | 0.34 |
| RD-027 | SMRD-027-GW090310 | gross_alpha | Filtered | 5.83 | 0.58 | 0.54 | SMDUP-08-GW090310 | gross_alpha | Filtered | 5.84 | 0.64 | 0.54 |
| RD-027 | SMRD-027-GW090310 | gross_alpha | Suspended | 0.85 | 0.61 | 0.25 | SMDUP-08-GW090310 | gross_alpha | Suspended | 2.06 | 0.58 | 0.33 |
| RD-027 | SMRD-027-GW090310 | gross_beta | Filtered | 5.69 | 1.2 | 0.6 | SMDUP-08-GW090310 | gross_beta | Filtered | 7.03 | 1.3 | 0.68 |
| RD-027 | SMRD-027-GW090310 | gross_beta | Suspended | 0.03 U | 0.84 | 0.24 | SMDUP-08-GW090310 | gross_beta | Suspended | 0.52 | 0.82 | 0.26 |
| RD-027 | SMRD-027-GW090310 | H-3 | Filtered | 4 U | 130 | 38 | SMDUP-08-GW090310 | H-3 | Filtered | 22 U | 130 | 39 |
| RD-027 | SMRD-027-GW090310 | Ho-166m | Filtered | -0.002 U | 2 | 0.56 | SMDUP-08-GW090310 | Ho-166m | Filtered | -0.02 U | 2 | 0.58 |
| RD-027 | SMRD-027-GW090310 | Ho-166m | Suspended | 0.16 U | 0.94 | 0.27 | SMDUP-08-GW090310 | Ho-166m | Suspended | 0.27 U | 1.1 | 0.31 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|-------|-----------------------|--------------|-----------------|----------|-------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-027 | SMRD-027-GW090310 | K-40 | Filtered | 35.4 | 3.9 | 4.4 | SMDUP-08-GW090310 | K-40 | Filtered | 0.3 U | 23 | 5.3 |
| RD-027 | SMRD-027-GW090310 | K-40 | Suspended | -5 U | 10 | 6.9 | SMDUP-08-GW090310 | K-40 | Suspended | 6.9 | 9.9 | 3.4 |
| RD-027 | SMRD-027-GW090310 | Na-22 | Filtered | -0.24 U | 1.7 | 0.47 | SMDUP-08-GW090310 | Na-22 | Filtered | 0.25 U | 1.4 | 0.4 |
| RD-027 | SMRD-027-GW090310 | Na-22 | Suspended | -0.23 U | 0.96 | 0.28 | SMDUP-08-GW090310 | Na-22 | Suspended | 0.17 U | 0.86 | 0.25 |
| RD-027 | SMRD-027-GW090310 | Nb-94 | Filtered | -0.13 U | 1.2 | 0.36 | SMDUP-08-GW090310 | Nb-94 | Filtered | -0.12 U | 1 | 0.31 |
| RD-027 | SMRD-027-GW090310 | Nb-94 | Suspended | 0.007 U | 0.64 | 0.18 | SMDUP-08-GW090310 | Nb-94 | Suspended | -0.15 U | 0.69 | 0.2 |
| RD-027 | SMRD-027-GW090310 | Np-236 | Filtered | -0.21 U | 2.7 | 0.8 | SMDUP-08-GW090310 | Np-236 | Filtered | 0.15 U | 2.6 | 0.78 |
| RD-027 | SMRD-027-GW090310 | Np-236 | Suspended | -0.11 U | 1.2 | 0.36 | SMDUP-08-GW090310 | Np-236 | Suspended | 0.14 U | 1 | 0.31 |
| RD-027 | SMRD-027-GW090310 | Np-239 | Filtered | 1.6 U | 7.8 | 2.3 | SMDUP-08-GW090310 | Np-239 | Filtered | 0.7 U | 7.6 | 2.3 |
| RD-027 | SMRD-027-GW090310 | Np-239 | Suspended | 0.02 U | 3.1 | 0.9 | SMDUP-08-GW090310 | Np-239 | Suspended | 0.4 U | 3.7 | 1.1 |
| RD-027 | SMRD-027-GW090310 | Pa-231 | Filtered | -0.03 U | 55 | 16 | SMDUP-08-GW090310 | Pa-231 | Filtered | -9 U | 56 | 17 |
| RD-027 | SMRD-027-GW090310 | Pa-231 | Suspended | 4.1 U | 26 | 7.7 | SMDUP-08-GW090310 | Pa-231 | Suspended | -7.4 U | 29 | 8.6 |
| RD-027 | SMRD-027-GW090310 | Pb-212 | Filtered | 1.85 | 2.5 | 0.97 | SMDUP-08-GW090310 | Pb-212 | Filtered | 0.04 U | 3 | 1.1 |
| RD-027 | SMRD-027-GW090310 | Pb-212 | Suspended | 0.39 U | 1.1 | 0.42 | SMDUP-08-GW090310 | Pb-212 | Suspended | 0.83 | 1.4 | 0.52 |
| RD-027 | SMRD-027-GW090310 | Pb-214 | Filtered | -0.12 U | 3 | 0.91 | SMDUP-08-GW090310 | Pb-214 | Filtered | 3.1 | 2.7 | 1 |
| RD-027 | SMRD-027-GW090310 | Pb-214 | Suspended | -1.2 U | 1.4 | 1.6 | SMDUP-08-GW090310 | Pb-214 | Suspended | -0.02 U | 1.6 | 0.42 |
| RD-027 | SMRD-027-GW090310 | Sb-125 | Filtered | 2.1 U | 13 | 3.7 | SMDUP-08-GW090310 | Sb-125 | Filtered | -2.7 U | 14 | 4.3 |
| RD-027 | SMRD-027-GW090310 | Sb-125 | Suspended | 0.7 U | 5.7 | 1.7 | SMDUP-08-GW090310 | Sb-125 | Suspended | 0.2 U | 6.1 | 1.8 |
| RD-027 | SMRD-027-GW090310 | Sn-126 | Filtered | 0.22 U | 1.5 | 0.45 | SMDUP-08-GW090310 | Sn-126 | Filtered | 0.37 U | 1.2 | 0.35 |
| RD-027 | SMRD-027-GW090310 | Sn-126 | Suspended | 0.3 U | 0.8 | 0.24 | SMDUP-08-GW090310 | Sn-126 | Suspended | 0.11 U | 0.81 | 0.24 |
| RD-027 | SMRD-027-GW090310 | Sr-90 | Filtered | 0.001 U | 0.076 | 0.022 | SMDUP-08-GW090310 | Sr-90 | Filtered | 0.031 U | 0.19 | 0.055 |
| RD-027 | SMRD-027-GW090310 | Sr-90 | Suspended | 0.014 U | 0.1 | 0.03 | SMDUP-08-GW090310 | Sr-90 | Suspended | 0.028 U | 0.094 | 0.028 |
| RD-027 | SMRD-027-GW090310 | Tl-208 | Filtered | 0.61 U | 1.4 | 0.46 | SMDUP-08-GW090310 | Tl-208 | Filtered | -0.13 U | 1.7 | 0.47 |
| RD-027 | SMRD-027-GW090310 | Tl-208 | Suspended | 0.12 U | 0.83 | 0.23 | SMDUP-08-GW090310 | Tl-208 | Suspended | 0.18 U | 0.84 | 0.3 |

Table 4.1
Parent and Field Duplicate Results Summary
Phase I Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|--------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-027 | SMRD-027-GW090310 | Tm-171 | Filtered | 60 U | 360 | 110 | SMDUP-08-GW090310 | Tm-171 | Filtered | -20 U | 430 | 130 |
| RD-027 | SMRD-027-GW090310 | U-233/234 | Filtered | 1.7 | 0.02 | 0.094 | SMDUP-08-GW090310 | U-233/234 | Filtered | 1.7 | 0.02 | 0.094 |
| RD-027 | SMRD-027-GW090310 | U-233/234 | Suspended | 0.0176 | 0.015 | 0.0081 | SMDUP-08-GW090310 | U-233/234 | Suspended | 0.0151 | 0.015 | 0.0077 |
| RD-027 | SMRD-027-GW090310 | U-235/236 | Filtered | 0.071 | 0.007 | 0.014 | SMDUP-08-GW090310 | U-235/236 | Filtered | 0.069 | 0.007 | 0.014 |
| RD-027 | SMRD-027-GW090310 | U-235/236 | Suspended | 0.0025 U | 0.0068 | 0.0025 | SMDUP-08-GW090310 | U-235/236 | Suspended | 0 U | 0.018 | 0.0035 |
| RD-027 | SMRD-027-GW090310 | U-238 | Filtered | 1.29 | 0.006 | 0.076 | SMDUP-08-GW090310 | U-238 | Filtered | 1.27 | 0.02 | 0.075 |
| RD-027 | SMRD-027-GW090310 | U-238 | Suspended | 0.0042 U | 0.015 | 0.0057 | SMDUP-08-GW090310 | U-238 | Suspended | 0.0059 | 0.0054 | 0.0053 |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

ID - identification

MDC - minimum detectable concentration

TPU - total propagated uncertainty

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

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

U - Not considered detected. The associated number is the reported concentration.

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|--------|--------|-----------------------|--------------|-----------------|------------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-19 | SMRD-19-GW031711 | Ac-227 | Filtered | -6.9 L U | 10 | 3.2 | SMDUP-01-GW031711Q | Ac-227 | Filtered | -0.3 U | 13 | 3.7 |
| RD-19 | SMRD-19-GW031711 | Ac-227 | Suspended | -1.3 U | 4.4 | 1.3 | SMDUP-01-GW031711Q | Ac-227 | Suspended | 0 U | 5.7 | 1.7 |
| RD-19 | SMRD-19-GW031711 | Ac-228 | Filtered | 4.2 | 3.3 | 1.1 | SMDUP-01-GW031711Q | Ac-228 | Filtered | -2.5 U | 5.3 | 1.6 |
| RD-19 | SMRD-19-GW031711 | Ac-228 | Suspended | 0.31 U | 2.7 | 0.71 | SMDUP-01-GW031711Q | Ac-228 | Suspended | 1.51 | 2.2 | 0.68 |
| RD-19 | SMRD-19-GW031711 | Am-241 | Filtered | 0.0257 | 0.022 | 0.0091 | SMDUP-01-GW031711Q | Am-241 | Filtered | 0.0176 | 0.016 | 0.007 |
| RD-19 | SMRD-19-GW031711 | Am-241 | Suspended | -0.007 U | 0.026 | 0.006 | SMDUP-01-GW031711Q | Am-241 | Suspended | 0.0042 U | 0.023 | 0.0065 |
| RD-19 | SMRD-19-GW031711 | Bi-212 | Filtered | -0.03 U | 9.3 | 2.6 | SMDUP-01-GW031711Q | Bi-212 | Filtered | -7 U | 13 | 42 |
| RD-19 | SMRD-19-GW031711 | Bi-212 | Suspended | -0.3 U | 4.8 | 1.4 | SMDUP-01-GW031711Q | Bi-212 | Suspended | -1.3 U | 5.8 | 6 |
| RD-19 | SMRD-19-GW031711 | Bi-214 | Filtered | 4.1 | 2.8 | 1.1 | SMDUP-01-GW031711Q | Bi-214 | Filtered | 2.2 | 3.3 | 1.2 |
| RD-19 | SMRD-19-GW031711 | Bi-214 | Suspended | 0.58 U | 1.8 | 0.75 | SMDUP-01-GW031711Q | Bi-214 | Suspended | 1.53 | 1.8 | 0.72 |
| RD-19 | SMRD-19-GW031711 | Cd-113m | Filtered | 200 U | 14000 | 4200 | SMDUP-01-GW031711Q | Cd-113m | Filtered | -700 U | 16000 | 4500 |
| RD-19 | SMRD-19-GW031711 | Cd-113m | Suspended | -1000 U | 6900 | 2000 | SMDUP-01-GW031711Q | Cd-113m | Suspended | 1400 U | 6800 | 2000 |
| RD-19 | SMRD-19-GW031711 | Cm-243/244 | Filtered | 0.0275 | 0.025 | 0.0098 | SMDUP-01-GW031711Q | Cm-243/244 | Filtered | -0.0064 U | 0.023 | 0.0037 |
| RD-19 | SMRD-19-GW031711 | Cm-243/244 | Suspended | 0 U | 0.0046 | 0.0017 | SMDUP-01-GW031711Q | Cm-243/244 | Suspended | 0.0019 U | 0.005 | 0.0019 |
| RD-19 | SMRD-19-GW031711 | Cm-245/246 | Filtered | 0.0218 J | 0.016 | 0.0078 | SMDUP-01-GW031711Q | Cm-245/246 | Filtered | 0.0035 U J | 0.021 | 0.0054 |
| RD-19 | SMRD-19-GW031711 | Cm-245/246 | Suspended | 0.0138 | 0.017 | 0.0064 | SMDUP-01-GW031711Q | Cm-245/246 | Suspended | 0.0122 | 0.022 | 0.0074 |
| RD-19 | SMRD-19-GW031711 | Co-60 | Filtered | 0.05 U | 0.94 | 0.26 | SMDUP-01-GW031711Q | Co-60 | Filtered | 0.29 U | 1.6 | 0.44 |
| RD-19 | SMRD-19-GW031711 | Co-60 | Suspended | 0.27 U | 0.66 | 0.2 | SMDUP-01-GW031711Q | Co-60 | Suspended | -0.2 U | 0.8 | 0.24 |
| RD-19 | SMRD-19-GW031711 | Cs-134 | Filtered | 0.003 U | 1.2 | 0.35 | SMDUP-01-GW031711Q | Cs-134 | Filtered | 0.46 U | 1.3 | 0.4 |
| RD-19 | SMRD-19-GW031711 | Cs-134 | Suspended | 0.02 U | 0.73 | 0.22 | SMDUP-01-GW031711Q | Cs-134 | Suspended | 0.02 U | 0.99 | 0.29 |
| RD-19 | SMRD-19-GW031711 | Cs-137 | Filtered | -0.04 U | 1.2 | 0.33 | SMDUP-01-GW031711Q | Cs-137 | Filtered | 0 U | 1.9 | 0.55 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-19 | SMRD-19-GW031711 | Cs-137 | Suspended | 0.19 U | 0.68 | 0.2 | SMDUP-01-GW031711Q | Cs-137 | Suspended | -0.002 U | 0.76 | 0.22 |
| RD-19 | SMRD-19-GW031711 | Eu-152 | Filtered | 0.009 U | 3.1 | 0.91 | SMDUP-01-GW031711Q | Eu-152 | Filtered | 0.7 U | 3.6 | 1.1 |
| RD-19 | SMRD-19-GW031711 | Eu-152 | Suspended | 0.32 U | 1.7 | 0.52 | SMDUP-01-GW031711Q | Eu-152 | Suspended | 0.45 U | 1.7 | 0.51 |
| RD-19 | SMRD-19-GW031711 | Eu-154 | Filtered | -0.6 U | 9 | 2.6 | SMDUP-01-GW031711Q | Eu-154 | Filtered | -0.2 U | 13 | 3.6 |
| RD-19 | SMRD-19-GW031711 | Eu-154 | Suspended | 0 U | 6.3 | 1.8 | SMDUP-01-GW031711Q | Eu-154 | Suspended | 0.3 U | 5.7 | 1.6 |
| RD-19 | SMRD-19-GW031711 | Eu-155 | Filtered | 0.49 U | 3 | 0.89 | SMDUP-01-GW031711Q | Eu-155 | Filtered | -0.4 U | 3.4 | 1 |
| RD-19 | SMRD-19-GW031711 | Eu-155 | Suspended | 0.46 U | 1.2 | 0.37 | SMDUP-01-GW031711Q | Eu-155 | Suspended | 0.29 U | 1.2 | 0.35 |
| RD-19 | SMRD-19-GW031711 | gross_alpha | Filtered | 20.8 | 0.4 | 1.2 | SMDUP-01-GW031711Q | gross_alpha | Filtered | 28 | 0.5 | 1.5 |
| RD-19 | SMRD-19-GW031711 | gross_beta | Filtered | 8 | 3.9 | 1.6 | SMDUP-01-GW031711Q | gross_beta | Filtered | 11.7 | 4.7 | 2 |
| RD-19 | SMRD-19-GW031711 | gross_beta | Suspended | 0.34 U | 0.84 | 0.26 | SMDUP-01-GW031711Q | gross_beta | Suspended | 0.68 | 0.82 | 0.27 |
| RD-19 | SMRD-19-GW031711 | H-3 | Total | -12 U | 150 | 43 | SMDUP-01-GW031711Q | H-3 | Total | 24 U | 150 | 44 |
| RD-19 | SMRD-19-GW031711 | Ho-166m | Filtered | -0.05 U | 1.6 | 0.47 | SMDUP-01-GW031711Q | Ho-166m | Filtered | -0.5 U | 2.6 | 0.76 |
| RD-19 | SMRD-19-GW031711 | Ho-166m | Suspended | -0.39 U | 1.1 | 0.34 | SMDUP-01-GW031711Q | Ho-166m | Suspended | 0.33 U | 1.1 | 0.33 |
| RD-19 | SMRD-19-GW031711 | I-129 | Filtered | -0.09 U | 0.59 | 0.18 | SMDUP-01-GW031711Q | I-129 | Filtered | -0.02 U | 0.54 | 0.16 |
| RD-19 | SMRD-19-GW031711 | I-129 | Suspended | 0.003 U | 0.47 | 0.14 | SMDUP-01-GW031711Q | I-129 | Suspended | -0.15 U | 0.49 | 0.15 |
| RD-19 | SMRD-19-GW031711 | K-40 | Filtered | 11.1 | 15 | 4.4 | SMDUP-01-GW031711Q | K-40 | Filtered | 9.3 | 20 | 4.6 |
| RD-19 | SMRD-19-GW031711 | K-40 | Suspended | 1 U | 12 | 3.5 | SMDUP-01-GW031711Q | K-40 | Suspended | -0.2 U | 11 | 2.7 |
| RD-19 | SMRD-19-GW031711 | Na-22 | Filtered | -0.21 U | 1.2 | 0.36 | SMDUP-01-GW031711Q | Na-22 | Filtered | -0.32 U | 1.8 | 0.51 |
| RD-19 | SMRD-19-GW031711 | Na-22 | Suspended | -0.04 U | 0.69 | 0.2 | SMDUP-01-GW031711Q | Na-22 | Suspended | 0.1 U | 0.77 | 0.22 |
| RD-19 | SMRD-19-GW031711 | Nb-94 | Filtered | 0.3 U | 1.1 | 0.32 | SMDUP-01-GW031711Q | Nb-94 | Filtered | -0.004 U | 1.5 | 0.43 |
| RD-19 | SMRD-19-GW031711 | Nb-94 | Suspended | -0.13 U | 0.68 | 0.2 | SMDUP-01-GW031711Q | Nb-94 | Suspended | -0.07 U | 0.65 | 0.19 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|--------|--------|-----------------------|--------------|-----------------|-----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-19 | SMRD-19-GW031711 | Np-236 | Filtered | -0.73 U | 2.8 | 0.83 | SMDUP-01-GW031711Q | Np-236 | Filtered | 0.05 U | 3.3 | 0.98 |
| RD-19 | SMRD-19-GW031711 | Np-236 | Suspended | -0.09 U | 1.2 | 0.36 | SMDUP-01-GW031711Q | Np-236 | Suspended | -0.22 U | 1.2 | 0.35 |
| RD-19 | SMRD-19-GW031711 | Np-237 | Filtered | 0 U | 0.034 | 0.0061 | SMDUP-01-GW031711Q | Np-237 | Filtered | 0.015 | 0.033 | 0.01 |
| RD-19 | SMRD-19-GW031711 | Np-237 | Suspended | 0 U | 0.0087 | 0.0023 | SMDUP-01-GW031711Q | Np-237 | Suspended | 0.0038 U | 0.01 | 0.0038 |
| RD-19 | SMRD-19-GW031711 | Np-239 | Filtered | 1.3 U | 7.1 | 2.1 | SMDUP-01-GW031711Q | Np-239 | Filtered | 2.4 U | 9 | 2.7 |
| RD-19 | SMRD-19-GW031711 | Np-239 | Suspended | 0.4 U | 3.7 | 1.1 | SMDUP-01-GW031711Q | Np-239 | Suspended | 0.4 U | 3.7 | 1.1 |
| RD-19 | SMRD-19-GW031711 | Pa-231 | Filtered | 21 U | 48 | 15 | SMDUP-01-GW031711Q | Pa-231 | Filtered | 0.5 U | 67 | 20 |
| RD-19 | SMRD-19-GW031711 | Pa-231 | Suspended | 0.09 U | 26 | 7.6 | SMDUP-01-GW031711Q | Pa-231 | Suspended | 2.5 U | 27 | 8.1 |
| RD-19 | SMRD-19-GW031711 | Pb-212 | Filtered | 0.8 U | 2.4 | 0.74 | SMDUP-01-GW031711Q | Pb-212 | Filtered | 1.21 | 2.4 | 0.76 |
| RD-19 | SMRD-19-GW031711 | Pb-212 | Suspended | 0.22 U | 1.2 | 0.44 | SMDUP-01-GW031711Q | Pb-212 | Suspended | 0.57 | 1.1 | 0.36 |
| RD-19 | SMRD-19-GW031711 | Pb-214 | Filtered | 2.4 | 2.6 | 1 | SMDUP-01-GW031711Q | Pb-214 | Filtered | 1.65 | 3 | 0.96 |
| RD-19 | SMRD-19-GW031711 | Pb-214 | Suspended | 0.02 U | 1.5 | 0.51 | SMDUP-01-GW031711Q | Pb-214 | Suspended | -0.1 U | 1.4 | 0.5 |
| RD-19 | SMRD-19-GW031711 | Pu-238 | Filtered | 0.0023 U | 0.024 | 0.006 | SMDUP-01-GW031711Q | Pu-238 | Filtered | 0.0092 | 0.017 | 0.0057 |
| RD-19 | SMRD-19-GW031711 | Pu-238 | Suspended | 0.0228 | 0.021 | 0.0083 | SMDUP-01-GW031711Q | Pu-238 | Suspended | 0.0124 | 0.019 | 0.0067 |
| RD-19 | SMRD-19-GW031711 | Pu-239/240 | Filtered | -0.0045 U | 0.027 | 0.0056 | SMDUP-01-GW031711Q | Pu-239/240 | Filtered | -0.0023 U | 0.021 | 0.004 |
| RD-19 | SMRD-19-GW031711 | Pu-239/240 | Suspended | 0.0035 U | 0.0047 | 0.0025 | SMDUP-01-GW031711Q | Pu-239/240 | Suspended | 0.0083 | 0.0056 | 0.0042 |
| RD-19 | SMRD-19-GW031711 | Pu-242 | Filtered | 0.0023 U | 0.017 | 0.0039 | SMDUP-01-GW031711Q | Pu-242 | Filtered | 0.0046 U | 0.0062 | 0.0033 |
| RD-19 | SMRD-19-GW031711 | Pu-242 | Suspended | 0.0018 U | 0.013 | 0.0032 | SMDUP-01-GW031711Q | Pu-242 | Suspended | -0.0042 U | 0.019 | 0.0033 |
| RD-19 | SMRD-19-GW031711 | Ra-226 | Filtered | 1.29 | 0.11 | 0.12 | SMDUP-01-GW031711Q | Ra-226 | Filtered | 1.22 | 0.13 | 0.12 |
| RD-19 | SMRD-19-GW031711 | Ra-226 | Suspended | 0.102 | 0.17 | 0.056 | SMDUP-01-GW031711Q | Ra-226 | Suspended | 0.028 U | 0.24 | 0.064 |
| RD-19 | SMRD-19-GW031711 | Sb-125 | Filtered | -0.3 U | 9.5 | 2.8 | SMDUP-01-GW031711Q | Sb-125 | Filtered | 1.3 U | 13 | 3.8 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|--------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-19 | SMRD-19-GW031711 | Sb-125 | Suspended | 0.09 U | 5.5 | 1.6 | SMDUP-01-GW031711Q | Sb-125 | Suspended | 1.5 U | 5.4 | 1.6 |
| RD-19 | SMRD-19-GW031711 | Sn-126 | Filtered | 0.14 U | 1.3 | 0.37 | SMDUP-01-GW031711Q | Sn-126 | Filtered | 0 U | 2.2 | 0.64 |
| RD-19 | SMRD-19-GW031711 | Sn-126 | Suspended | 0.18 U | 0.66 | 0.2 | SMDUP-01-GW031711Q | Sn-126 | Suspended | -0.1 U | 0.73 | 0.21 |
| RD-19 | SMRD-19-GW031711 | Sr-90 | Filtered | 0.112 | 0.16 | 0.049 | SMDUP-01-GW031711Q | Sr-90 | Filtered | 2.83 | 0.14 | 0.15 |
| RD-19 | SMRD-19-GW031711 | Sr-90 | Suspended | 0.066 U | 0.12 | 0.038 | SMDUP-01-GW031711Q | Sr-90 | Suspended | -0.035 U | 0.13 | 0.034 |
| RD-19 | SMRD-19-GW031711 | Tc-99 | Filtered | -0.14 U | 1.4 | 0.41 | SMDUP-01-GW031711Q | Tc-99 | Filtered | -0.36 U | 1.2 | 0.38 |
| RD-19 | SMRD-19-GW031711 | Tc-99 | Suspended | 0.24 U | 1.7 | 0.5 | SMDUP-01-GW031711Q | Tc-99 | Suspended | -0.13 U | 1.9 | 0.55 |
| RD-19 | SMRD-19-GW031711 | Tl-208 | Filtered | 0.78 | 1.3 | 0.41 | SMDUP-01-GW031711Q | Tl-208 | Filtered | 1.11 | 1.7 | 0.64 |
| RD-19 | SMRD-19-GW031711 | Tl-208 | Suspended | -0.31 U | 0.82 | 0.38 | SMDUP-01-GW031711Q | Tl-208 | Suspended | 0.59 | 0.68 | 0.25 |
| RD-19 | SMRD-19-GW031711 | Tm-171 | Filtered | 7 U | 310 | 92 | SMDUP-01-GW031711Q | Tm-171 | Filtered | -20 U | 350 | 100 |
| RD-19 | SMRD-19-GW031711 | Tm-171 | Suspended | 8 U | 110 | 32 | SMDUP-01-GW031711Q | Tm-171 | Suspended | 8 U | 90 | 27 |
| RD-19 | SMRD-19-GW031711 | U-233/234 | Filtered | 14 | 0.02 | 0.62 | SMDUP-01-GW031711Q | U-233/234 | Filtered | 13.8 | 0.006 | 0.61 |
| RD-19 | SMRD-19-GW031711 | U-233/234 | Suspended | 0.0275 | 0.0054 | 0.0088 | SMDUP-01-GW031711Q | U-233/234 | Suspended | 0.052 | 0.02 | 0.013 |
| RD-19 | SMRD-19-GW031711 | U-235/236 | Filtered | 0.598 | 0.009 | 0.05 | SMDUP-01-GW031711Q | U-235/236 | Filtered | 0.636 | 0.008 | 0.051 |
| RD-19 | SMRD-19-GW031711 | U-235/236 | Suspended | 0.005 U | 0.0068 | 0.0035 | SMDUP-01-GW031711Q | U-235/236 | Suspended | 0.0081 | 0.0073 | 0.0047 |
| RD-19 | SMRD-19-GW031711 | U-238 | Filtered | 13.2 | 0.02 | 0.58 | SMDUP-01-GW031711Q | U-238 | Filtered | 12.5 | 0.006 | 0.55 |
| RD-19 | SMRD-19-GW031711 | U-238 | Suspended | 0.0021 U | 0.0054 | 0.0045 | SMDUP-01-GW031711Q | U-238 | Suspended | 0.046 | 0.02 | 0.012 |
| RD-33C | SMRD-33C-GW032211 | Ac-227 | Filtered | 0.5 U | 14 | 4.1 | SMDUP-02-GW032211Q | Ac-227 | Filtered | -6.8 U | 12 | 3.6 |
| RD-33C | SMRD-33C-GW032211 | Ac-227 | Suspended | -1.7 U | 4.4 | 1.3 | SMDUP-02-GW032211Q | Ac-227 | Suspended | -3.5 L U | 4.8 | 1.5 |
| RD-33C | SMRD-33C-GW032211 | Ac-228 | Filtered | 8 | 3.6 | 1.9 | SMDUP-02-GW032211Q | Ac-228 | Filtered | 6.5 | 4.9 | 1.5 |
| RD-33C | SMRD-33C-GW032211 | Ac-228 | Suspended | 1.55 | 2.4 | 0.73 | SMDUP-02-GW032211Q | Ac-228 | Suspended | -0.28 U | 2.7 | 0.89 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|------|-----------------------|--------------|-----------------|----------|-------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-33C | SMRD-33C-GW032211 | Bi-212 | Filtered | 3.6 U | 11 | 3.2 | SMDUP-02-GW032211Q | Bi-212 | Filtered | 5.5 | 11 | 3.3 |
| RD-33C | SMRD-33C-GW032211 | Bi-212 | Suspended | -1 U | 6.1 | 4.6 | SMDUP-02-GW032211Q | Bi-212 | Suspended | 2.5 | 5.3 | 1.6 |
| RD-33C | SMRD-33C-GW032211 | Bi-214 | Filtered | 2.8 | 3.7 | 1.6 | SMDUP-02-GW032211Q | Bi-214 | Filtered | 1.6 | 3.4 | 1.2 |
| RD-33C | SMRD-33C-GW032211 | Bi-214 | Suspended | -0.17 U | 1.6 | 0.58 | SMDUP-02-GW032211Q | Bi-214 | Suspended | -0.29 U | 1.6 | 0.58 |
| RD-33C | SMRD-33C-GW032211 | Cd-113m | Filtered | 2200 U | 18000 | 5500 | SMDUP-02-GW032211Q | Cd-113m | Filtered | 2100 U | 17000 | 5000 |
| RD-33C | SMRD-33C-GW032211 | Cd-113m | Suspended | -20 U | 7400 | 2200 | SMDUP-02-GW032211Q | Cd-113m | Suspended | 1400 U | 6800 | 2000 |
| RD-33C | SMRD-33C-GW032211 | Co-60 | Filtered | 0.07 U | 1.6 | 0.44 | SMDUP-02-GW032211Q | Co-60 | Filtered | -0.24 U | 1.7 | 0.47 |
| RD-33C | SMRD-33C-GW032211 | Co-60 | Suspended | -0.1 U | 0.68 | 0.19 | SMDUP-02-GW032211Q | Co-60 | Suspended | 0.21 U | 0.66 | 0.19 |
| RD-33C | SMRD-33C-GW032211 | Cs-134 | Filtered | -0.55 U | 1.7 | 0.52 | SMDUP-02-GW032211Q | Cs-134 | Filtered | -0.06 U | 2.1 | 0.62 |
| RD-33C | SMRD-33C-GW032211 | Cs-134 | Suspended | -0.09 U | 0.77 | 0.23 | SMDUP-02-GW032211Q | Cs-134 | Suspended | -0.24 U | 0.67 | 0.2 |
| RD-33C | SMRD-33C-GW032211 | Cs-137 | Filtered | -0.45 U | 1.6 | 0.48 | SMDUP-02-GW032211Q | Cs-137 | Filtered | 0.04 U | 1.3 | 0.38 |
| RD-33C | SMRD-33C-GW032211 | Cs-137 | Suspended | -0.02 U | 0.62 | 0.18 | SMDUP-02-GW032211Q | Cs-137 | Suspended | 0.04 U | 0.71 | 0.21 |
| RD-33C | SMRD-33C-GW032211 | Eu-152 | Filtered | 0.4 U | 3.2 | 0.92 | SMDUP-02-GW032211Q | Eu-152 | Filtered | 1.1 U | 4 | 1.2 |
| RD-33C | SMRD-33C-GW032211 | Eu-152 | Suspended | -0.08 U | 1.7 | 0.51 | SMDUP-02-GW032211Q | Eu-152 | Suspended | -0.07 U | 1.8 | 0.52 |
| RD-33C | SMRD-33C-GW032211 | Eu-154 | Filtered | -0.06 U | 13 | 3.6 | SMDUP-02-GW032211Q | Eu-154 | Filtered | -0.04 U | 12 | 3.2 |
| RD-33C | SMRD-33C-GW032211 | Eu-154 | Suspended | -2 U | 6.5 | 1.9 | SMDUP-02-GW032211Q | Eu-154 | Suspended | -0.9 U | 6.3 | 1.8 |
| RD-33C | SMRD-33C-GW032211 | Eu-155 | Filtered | 0.5 U | 4 | 1.2 | SMDUP-02-GW032211Q | Eu-155 | Filtered | 0.02 U | 3.6 | 1.1 |
| RD-33C | SMRD-33C-GW032211 | Eu-155 | Suspended | 0.29 U | 1.1 | 0.34 | SMDUP-02-GW032211Q | Eu-155 | Suspended | -0.08 U | 1.2 | 0.36 |
| RD-33C | SMRD-33C-GW032211 | gross_alpha | Filtered | 2.02 | 0.38 | 0.29 | SMDUP-02-GW032211Q | gross_alpha | Filtered | 1.72 | 0.37 | 0.26 |
| RD-33C | SMRD-33C-GW032211 | gross_alpha | Suspended | 0.35 | 0.38 | 0.14 | SMDUP-02-GW032211Q | gross_alpha | Suspended | 0.6 | 0.38 | 0.16 |
| RD-33C | SMRD-33C-GW032211 | gross_beta | Filtered | 4.23 | 2.2 | 0.83 | SMDUP-02-GW032211Q | gross_beta | Filtered | 3.72 | 2 | 0.76 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-33C | SMRD-33C-GW032211 | gross_beta | Suspended | 0.7 | 0.99 | 0.31 | SMDUP-02-GW032211Q | gross_beta | Suspended | 0.58 | 0.88 | 0.28 |
| RD-33C | SMRD-33C-GW032211 | H-3 | Total | 47 U | 150 | 45 | SMDUP-02-GW032211Q | H-3 | Total | 27 U | 150 | 45 |
| RD-33C | SMRD-33C-GW032211 | Ho-166m | Filtered | -0.08 U | 2.3 | 0.65 | SMDUP-02-GW032211Q | Ho-166m | Filtered | -0.02 U | 2.4 | 0.68 |
| RD-33C | SMRD-33C-GW032211 | Ho-166m | Suspended | 0.16 U | 1.1 | 0.32 | SMDUP-02-GW032211Q | Ho-166m | Suspended | 0.002 U | 1.1 | 0.33 |
| RD-33C | SMRD-33C-GW032211 | K-40 | Filtered | -3.4 U | 24 | 7.4 | SMDUP-02-GW032211Q | K-40 | Filtered | 25.8 | 19 | 6.1 |
| RD-33C | SMRD-33C-GW032211 | K-40 | Suspended | 5.8 | 10 | 3.6 | SMDUP-02-GW032211Q | K-40 | Suspended | 5.9 | 12 | 3.6 |
| RD-33C | SMRD-33C-GW032211 | Na-22 | Filtered | -0.16 U | 1.5 | 0.43 | SMDUP-02-GW032211Q | Na-22 | Filtered | 0 U | 1.2 | 0.32 |
| RD-33C | SMRD-33C-GW032211 | Na-22 | Suspended | 0.07 U | 0.74 | 0.21 | SMDUP-02-GW032211Q | Na-22 | Suspended | 0.2 U | 0.74 | 0.22 |
| RD-33C | SMRD-33C-GW032211 | Nb-94 | Filtered | -0.04 U | 1.3 | 0.36 | SMDUP-02-GW032211Q | Nb-94 | Filtered | 0.37 U | 1.1 | 0.32 |
| RD-33C | SMRD-33C-GW032211 | Nb-94 | Suspended | 0.007 U | 0.61 | 0.17 | SMDUP-02-GW032211Q | Nb-94 | Suspended | 0.24 U | 0.67 | 0.2 |
| RD-33C | SMRD-33C-GW032211 | Np-236 | Filtered | 0.1 U | 9.3 | 2.7 | SMDUP-02-GW032211Q | Np-236 | Filtered | -0.04 U | 3.4 | 0.99 |
| RD-33C | SMRD-33C-GW032211 | Np-236 | Suspended | 0.001 U | 0.88 | 0.26 | SMDUP-02-GW032211Q | Np-236 | Suspended | -0.09 U | 1.2 | 0.36 |
| RD-33C | SMRD-33C-GW032211 | Np-239 | Filtered | -0.03 U | 9.3 | 2.7 | SMDUP-02-GW032211Q | Np-239 | Filtered | 0.3 U | 9.3 | 2.7 |
| RD-33C | SMRD-33C-GW032211 | Np-239 | Suspended | 0.4 U | 3.5 | 1 | SMDUP-02-GW032211Q | Np-239 | Suspended | 0.1 U | 3.2 | 0.93 |
| RD-33C | SMRD-33C-GW032211 | Pa-231 | Filtered | 18 U | 68 | 20 | SMDUP-02-GW032211Q | Pa-231 | Filtered | -5 U | 61 | 18 |
| RD-33C | SMRD-33C-GW032211 | Pa-231 | Suspended | 2.2 U | 22 | 6.4 | SMDUP-02-GW032211Q | Pa-231 | Suspended | 1.2 U | 27 | 7.9 |
| RD-33C | SMRD-33C-GW032211 | Pb-212 | Filtered | 0.03 U | 2.9 | 0.91 | SMDUP-02-GW032211Q | Pb-212 | Filtered | 0.16 U | 2.6 | 0.78 |
| RD-33C | SMRD-33C-GW032211 | Pb-212 | Suspended | -0.06 U | 1.1 | 0.37 | SMDUP-02-GW032211Q | Pb-212 | Suspended | 0.35 U | 1.2 | 0.4 |
| RD-33C | SMRD-33C-GW032211 | Pb-214 | Filtered | -0.4 U | 3.7 | 1.2 | SMDUP-02-GW032211Q | Pb-214 | Filtered | 1.9 | 3.2 | 1.1 |
| RD-33C | SMRD-33C-GW032211 | Pb-214 | Suspended | -0.32 U | 1.5 | 0.6 | SMDUP-02-GW032211Q | Pb-214 | Suspended | -0.17 U | 1.5 | 0.59 |
| RD-33C | SMRD-33C-GW032211 | Sb-125 | Filtered | -0.8 U | 16 | 4.7 | SMDUP-02-GW032211Q | Sb-125 | Filtered | -5.8 U | 17 | 5.1 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|-------|-----------------------|--------------|-----------------|----------|-------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-33C | SMRD-33C-GW032211 | Sb-125 | Suspended | 1.4 U | 5.4 | 1.6 | SMDUP-02-GW032211Q | Sb-125 | Suspended | 0.8 U | 4.8 | 1.4 |
| RD-33C | SMRD-33C-GW032211 | Sn-126 | Filtered | 0.62 U | 1.6 | 0.47 | SMDUP-02-GW032211Q | Sn-126 | Filtered | -0.3 U | 1.7 | 0.49 |
| RD-33C | SMRD-33C-GW032211 | Sn-126 | Suspended | 0.05 U | 0.82 | 0.24 | SMDUP-02-GW032211Q | Sn-126 | Suspended | 0.21 U | 0.77 | 0.23 |
| RD-33C | SMRD-33C-GW032211 | Sr-90 | Suspended | 0.015 U | 0.12 | 0.036 | SMDUP-02-GW032211Q | Sr-90 | Suspended | 0.013 U | 0.11 | 0.031 |
| RD-33C | SMRD-33C-GW032211 | Tl-208 | Filtered | 2.01 | 1.6 | 0.61 | SMDUP-02-GW032211Q | Tl-208 | Filtered | -0.05 U | 1.6 | 0.5 |
| RD-33C | SMRD-33C-GW032211 | Tl-208 | Suspended | -0.08 U | 0.83 | 0.26 | SMDUP-02-GW032211Q | Tl-208 | Suspended | -0.36 U | 0.86 | 0.45 |
| RD-33C | SMRD-33C-GW032211 | Tm-171 | Filtered | -20 U | 460 | 140 | SMDUP-02-GW032211Q | Tm-171 | Filtered | -50 U | 420 | 120 |
| RD-33C | SMRD-33C-GW032211 | Tm-171 | Suspended | -18 U | 110 | 34 | SMDUP-02-GW032211Q | Tm-171 | Suspended | -16 U | 100 | 31 |
| RD-86 | SMRD-86-GW032911 | Ac-227 | Filtered | -2.6 U | 8.5 | 2.6 | SMDUP-03-GW032411Q | Ac-227 | Filtered | -6.6 U | 12 | 3.7 |
| RD-86 | SMRD-86-GW032911 | Ac-227 | Suspended | -2.6 U | 4.4 | 1.3 | SMDUP-03-GW032411Q | Ac-227 | Suspended | 0.2 U | 5.5 | 1.6 |
| RD-86 | SMRD-86-GW032911 | Ac-228 | Filtered | 3.8 | 4.3 | 1.4 | SMDUP-03-GW032411Q | Ac-228 | Filtered | 2.8 | 4.9 | 1.3 |
| RD-86 | SMRD-86-GW032911 | Ac-228 | Suspended | 1.52 | 1.9 | 0.6 | SMDUP-03-GW032411Q | Ac-228 | Suspended | -0.14 U | 2.8 | 0.84 |
| RD-86 | SMRD-86-GW032911 | Bi-212 | Filtered | 2.4 U | 11 | 3.1 | SMDUP-03-GW032411Q | Bi-212 | Filtered | -0.07 U | 10 | 3 |
| RD-86 | SMRD-86-GW032911 | Bi-212 | Suspended | 2.2 U | 4.9 | 1.5 | SMDUP-03-GW032411Q | Bi-212 | Suspended | 2.4 | 4.5 | 1.4 |
| RD-86 | SMRD-86-GW032911 | Bi-214 | Filtered | -1.5 U | 3.1 | 7.4 | SMDUP-03-GW032411Q | Bi-214 | Filtered | 2.1 | 3.7 | 1.4 |
| RD-86 | SMRD-86-GW032911 | Bi-214 | Suspended | 0.86 | 1.4 | 0.49 | SMDUP-03-GW032411Q | Bi-214 | Suspended | 0.66 U | 1.6 | 0.56 |
| RD-86 | SMRD-86-GW032911 | Cd-113m | Filtered | 5500 U | 14000 | 4400 | SMDUP-03-GW032411Q | Cd-113m | Filtered | 5400 U | 17000 | 5200 |
| RD-86 | SMRD-86-GW032911 | Cd-113m | Suspended | 0 U | 6500 | 1900 | SMDUP-03-GW032411Q | Cd-113m | Suspended | 2 U | 7200 | 2100 |
| RD-86 | SMRD-86-GW032911 | Co-60 | Filtered | -0.22 U | 1.5 | 0.41 | SMDUP-03-GW032411Q | Co-60 | Filtered | 0.0008 U | 1.3 | 0.34 |
| RD-86 | SMRD-86-GW032911 | Co-60 | Suspended | -0.03 U | 0.52 | 0.14 | SMDUP-03-GW032411Q | Co-60 | Suspended | 0.01 U | 0.76 | 0.21 |
| RD-86 | SMRD-86-GW032911 | Cs-134 | Filtered | 0.71 SK | 1.3 | 0.38 | SMDUP-03-GW032411Q | Cs-134 | Filtered | 0.07 U | 1.6 | 0.11 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-86 | SMRD-86-GW032911 | Cs-134 | Suspended | 0.005 U | 0.69 | 0.2 | SMDUP-03-GW032411Q | Cs-134 | Suspended | 0.08 U | 0.7 | 0.21 |
| RD-86 | SMRD-86-GW032911 | Cs-137 | Filtered | 0.55 U | 1.4 | 0.41 | SMDUP-03-GW032411Q | Cs-137 | Filtered | 0.04 U | 1.1 | 0.32 |
| RD-86 | SMRD-86-GW032911 | Cs-137 | Suspended | 0.004 U | 0.64 | 0.18 | SMDUP-03-GW032411Q | Cs-137 | Suspended | 0.02 U | 0.7 | 0.2 |
| RD-86 | SMRD-86-GW032911 | Eu-152 | Filtered | 0 U | 4.6 | 1.4 | SMDUP-03-GW032411Q | Eu-152 | Filtered | 0.8 U | 4 | 1.2 |
| RD-86 | SMRD-86-GW032911 | Eu-152 | Suspended | 0.33 U | 1.7 | 0.49 | SMDUP-03-GW032411Q | Eu-152 | Suspended | 0.22 U | 1.9 | 0.56 |
| RD-86 | SMRD-86-GW032911 | Eu-154 | Filtered | 0 U | 12 | 3.5 | SMDUP-03-GW032411Q | Eu-154 | Filtered | 0.25 U | 13 | 0.25 |
| RD-86 | SMRD-86-GW032911 | Eu-154 | Suspended | 0 U | 6.2 | 1.8 | SMDUP-03-GW032411Q | Eu-154 | Suspended | -0.1 U | 5.6 | 1.6 |
| RD-86 | SMRD-86-GW032911 | Eu-155 | Filtered | -0.4 U | 4.8 | 1.4 | SMDUP-03-GW032411Q | Eu-155 | Filtered | -0.5 U | 4 | 1.2 |
| RD-86 | SMRD-86-GW032911 | Eu-155 | Suspended | 0.3 U | 1 | 0.31 | SMDUP-03-GW032411Q | Eu-155 | Suspended | 0.47 U | 1.1 | 0.33 |
| RD-86 | SMRD-86-GW032911 | gross_alpha | Filtered | 5.18 J | 0.57 | 0.52 | SMDUP-03-GW032411Q | gross_alpha | Filtered | 4.47 | 0.67 | 0.46 |
| RD-86 | SMRD-86-GW032911 | gross_alpha | Suspended | 1.37 | 0.5 | 0.25 | SMDUP-03-GW032411Q | gross_alpha | Suspended | 1.44 | 0.34 | 0.23 |
| RD-86 | SMRD-86-GW032911 | gross_beta | Suspended | 3.73 | 0.84 | 0.4 | SMDUP-03-GW032411Q | gross_beta | Suspended | 3.62 | 0.89 | 0.41 |
| RD-86 | SMRD-86-GW032911 | Ho-166m | Filtered | -0.39 U | 2.2 | 0.64 | SMDUP-03-GW032411Q | Ho-166m | Filtered | 0.54 U | 2.2 | 0.33 |
| RD-86 | SMRD-86-GW032911 | Ho-166m | Suspended | 0.22 U | 0.78 | 0.23 | SMDUP-03-GW032411Q | Ho-166m | Suspended | 0.02 U | 1.1 | 0.32 |
| RD-86 | SMRD-86-GW032911 | K-40 | Filtered | -7 U | 19 | 12 | SMDUP-03-GW032411Q | K-40 | Filtered | -11 U | 25 | 15 |
| RD-86 | SMRD-86-GW032911 | K-40 | Suspended | 0.05 U | 9.7 | 2.5 | SMDUP-03-GW032411Q | K-40 | Suspended | -6.3 U | 11 | 5.9 |
| RD-86 | SMRD-86-GW032911 | Na-22 | Filtered | 0.29 U | 1.4 | 0.42 | SMDUP-03-GW032411Q | Na-22 | Filtered | -0.12 U | 1.7 | 0.48 |
| RD-86 | SMRD-86-GW032911 | Na-22 | Suspended | -0.01 U | 0.63 | 0.18 | SMDUP-03-GW032411Q | Na-22 | Suspended | -0.16 U | 0.78 | 0.23 |
| RD-86 | SMRD-86-GW032911 | Nb-94 | Filtered | 0.08 U | 1.2 | 0.36 | SMDUP-03-GW032411Q | Nb-94 | Filtered | -0.43 U | 1.4 | 0.41 |
| RD-86 | SMRD-86-GW032911 | Nb-94 | Suspended | 0.02 U | 0.56 | 0.16 | SMDUP-03-GW032411Q | Nb-94 | Suspended | 0.0008 U | 0.6 | 0.17 |
| RD-86 | SMRD-86-GW032911 | Np-236 | Filtered | 0.06 U | 3.6 | 1.1 | SMDUP-03-GW032411Q | Np-236 | Filtered | 1.06 U | 3.1 | 0.92 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|-------|-----------------------|--------------|-----------------|----------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-86 | SMRD-86-GW032911 | Np-236 | Suspended | 0.02 U | 1.1 | 0.32 | SMDUP-03-GW032411Q | Np-236 | Suspended | 0.41 U | 0.97 | 0.29 |
| RD-86 | SMRD-86-GW032911 | Np-239 | Filtered | -1.5 U | 8.8 | 2.6 | SMDUP-03-GW032411Q | Np-239 | Filtered | 1.5 U | 7.7 | 2.3 |
| RD-86 | SMRD-86-GW032911 | Np-239 | Suspended | 0.24 U | 3.4 | 0.99 | SMDUP-03-GW032411Q | Np-239 | Suspended | -0.7 U | 3.9 | 1.2 |
| RD-86 | SMRD-86-GW032911 | Pa-231 | Filtered | 3 U | 64 | 19 | SMDUP-03-GW032411Q | Pa-231 | Filtered | 8 U | 61 | 18 |
| RD-86 | SMRD-86-GW032911 | Pa-231 | Suspended | -2.2 U | 26 | 7.6 | SMDUP-03-GW032411Q | Pa-231 | Suspended | 0.7 U | 27 | 8 |
| RD-86 | SMRD-86-GW032911 | Pb-212 | Filtered | 1.93 | 2.3 | 0.94 | SMDUP-03-GW032411Q | Pb-212 | Filtered | 1.7 | 2.8 | 1 |
| RD-86 | SMRD-86-GW032911 | Pb-212 | Suspended | 0.58 | 1.1 | 0.36 | SMDUP-03-GW032411Q | Pb-212 | Suspended | 0.58 | 1 | 0.32 |
| RD-86 | SMRD-86-GW032911 | Pb-214 | Filtered | 1.17 U | 2.8 | 0.83 | SMDUP-03-GW032411Q | Pb-214 | Filtered | -1.4 U | 3.6 | 2 |
| RD-86 | SMRD-86-GW032911 | Pb-214 | Suspended | -0.03 U | 1.4 | 0.4 | SMDUP-03-GW032411Q | Pb-214 | Suspended | 0.34 U | 1.5 | 0.53 |
| RD-86 | SMRD-86-GW032911 | Sb-125 | Filtered | 3.4 U | 15 | 4.4 | SMDUP-03-GW032411Q | Sb-125 | Filtered | 2.2 U | 16 | 1.2 |
| RD-86 | SMRD-86-GW032911 | Sb-125 | Suspended | -0.1 U | 5.2 | 1.5 | SMDUP-03-GW032411Q | Sb-125 | Suspended | 0.2 U | 4.4 | 1.3 |
| RD-86 | SMRD-86-GW032911 | Sn-126 | Filtered | -0.15 U | 1.5 | 0.43 | SMDUP-03-GW032411Q | Sn-126 | Filtered | -0.28 U | 1.7 | 0.49 |
| RD-86 | SMRD-86-GW032911 | Sn-126 | Suspended | -0.04 U | 0.69 | 0.2 | SMDUP-03-GW032411Q | Sn-126 | Suspended | 0.3 U | 0.72 | 0.22 |
| RD-86 | SMRD-86-GW032911 | Sr-90 | Suspended | 0.06 | 0.087 | 0.027 | SMDUP-03-GW032411Q | Sr-90 | Suspended | -0.018 U | 0.065 | 0.018 |
| RD-86 | SMRD-86-GW032911 | Tl-208 | Filtered | 0.72 | 1.3 | 0.43 | SMDUP-03-GW032411Q | Tl-208 | Filtered | 1.14 | 1.5 | 0.56 |
| RD-86 | SMRD-86-GW032911 | Tl-208 | Suspended | 0.53 | 0.7 | 0.26 | SMDUP-03-GW032411Q | Tl-208 | Suspended | 0.64 | 0.67 | 0.26 |
| RD-86 | SMRD-86-GW032911 | Tm-171 | Filtered | 220 U | 480 | 140 | SMDUP-03-GW032411Q | Tm-171 | Filtered | 9 U | 450 | 130 |
| RD-86 | SMRD-86-GW032911 | Tm-171 | Suspended | -4 U | 100 | 30 | SMDUP-03-GW032411Q | Tm-171 | Suspended | 7 U | 110 | 33 |
| RD-86 | SMRD-86-GW032911 | U-233/234 | Filtered | 2.41 | 0.005 | 0.12 | SMDUP-03-GW032411Q | U-233/234 | Filtered | 2.29 | 0.01 | 0.12 |
| RD-86 | SMRD-86-GW032911 | U-233/234 | Suspended | 0.079 | 0.014 | 0.014 | SMDUP-03-GW032411Q | U-233/234 | Suspended | 0.0318 | 0.012 | 0.0092 |
| RD-86 | SMRD-86-GW032911 | U-235/236 | Filtered | 0.109 | 0.02 | 0.018 | SMDUP-03-GW032411Q | U-235/236 | Filtered | 0.093 | 0.006 | 0.015 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|--------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-86 | SMRD-86-GW032911 | U-235/236 | Suspended | 0.0051 U | 0.0069 | 0.0036 | SMDUP-03-GW032411Q | U-235/236 | Suspended | 0.0023 U | 0.0063 | 0.0023 |
| RD-86 | SMRD-86-GW032911 | U-238 | Filtered | 2.33 | 0.01 | 0.12 | SMDUP-03-GW032411Q | U-238 | Filtered | 2.25 | 0.01 | 0.11 |
| RD-86 | SMRD-86-GW032911 | U-238 | Suspended | 0.058 | 0.006 | 0.012 | SMDUP-03-GW032411Q | U-238 | Suspended | 0.0319 | 0.005 | 0.0086 |
| RD-94 | SMRD-94-GW032811 | Ac-227 | Filtered | 1 U | 6.3 | 1.9 | SMDUP-04-GW032811Q | Ac-227 | Filtered | -5.5 U | 9.1 | 2.8 |
| RD-94 | SMRD-94-GW032811 | Ac-227 | Suspended | -3.1 L U | 4.5 | 1.4 | SMDUP-04-GW032811Q | Ac-227 | Suspended | -1 U | 3.8 | 1.1 |
| RD-94 | SMRD-94-GW032811 | Ac-228 | Filtered | 2.5 | 3.9 | 1.2 | SMDUP-04-GW032811Q | Ac-228 | Filtered | 0 U | 4.8 | 1.4 |
| RD-94 | SMRD-94-GW032811 | Ac-228 | Suspended | 0.009 U | 3 | 0.77 | SMDUP-04-GW032811Q | Ac-228 | Suspended | -0.5 U | 2.6 | 1 |
| RD-94 | SMRD-94-GW032811 | Bi-212 | Filtered | 3.7 U | 8.4 | 2.5 | SMDUP-04-GW032811Q | Bi-212 | Filtered | 1.7 U | 9.2 | 2.7 |
| RD-94 | SMRD-94-GW032811 | Bi-212 | Suspended | 1.7 U | 5.4 | 1.6 | SMDUP-04-GW032811Q | Bi-212 | Suspended | 1.4 U | 5.3 | 1.6 |
| RD-94 | SMRD-94-GW032811 | Bi-214 | Filtered | 1.11 | 2.3 | 0.78 | SMDUP-04-GW032811Q | Bi-214 | Filtered | 2.7 | 3.1 | 1.3 |
| RD-94 | SMRD-94-GW032811 | Bi-214 | Suspended | 1.08 | 1.6 | 0.61 | SMDUP-04-GW032811Q | Bi-214 | Suspended | -0.06 U | 1.5 | 0.45 |
| RD-94 | SMRD-94-GW032811 | Cd-113m | Filtered | 4000 U | 14000 | 4200 | SMDUP-04-GW032811Q | Cd-113m | Filtered | -0.5 U | 12000 | 3500 |
| RD-94 | SMRD-94-GW032811 | Cd-113m | Suspended | 300 U | 7100 | 2100 | SMDUP-04-GW032811Q | Cd-113m | Suspended | -40 U | 7500 | 2200 |
| RD-94 | SMRD-94-GW032811 | Co-60 | Filtered | 0.12 U | 1 | 0.3 | SMDUP-04-GW032811Q | Co-60 | Filtered | 0.01 U | 0.76 | 0.21 |
| RD-94 | SMRD-94-GW032811 | Co-60 | Suspended | 0 U | 1.1 | 0.32 | SMDUP-04-GW032811Q | Co-60 | Suspended | 0 U | 1.1 | 0.32 |
| RD-94 | SMRD-94-GW032811 | Cs-134 | Filtered | -0.15 U | 1.3 | 0.38 | SMDUP-04-GW032811Q | Cs-134 | Filtered | -0.18 U | 0.86 | 0.25 |
| RD-94 | SMRD-94-GW032811 | Cs-134 | Suspended | -0.09 U | 0.79 | 0.23 | SMDUP-04-GW032811Q | Cs-134 | Suspended | -0.13 U | 0.81 | 0.24 |
| RD-94 | SMRD-94-GW032811 | Cs-137 | Filtered | 0.53 | 1.1 | 0.33 | SMDUP-04-GW032811Q | Cs-137 | Filtered | 0.27 U | 1.2 | 0.37 |
| RD-94 | SMRD-94-GW032811 | Cs-137 | Suspended | -0.01 U | 0.74 | 0.22 | SMDUP-04-GW032811Q | Cs-137 | Suspended | -0.06 U | 0.6 | 0.17 |
| RD-94 | SMRD-94-GW032811 | Eu-152 | Filtered | 0.04 U | 3.3 | 0.95 | SMDUP-04-GW032811Q | Eu-152 | Filtered | -0.79 U | 3.2 | 0.95 |
| RD-94 | SMRD-94-GW032811 | Eu-152 | Suspended | 0.23 U | 1.7 | 0.49 | SMDUP-04-GW032811Q | Eu-152 | Suspended | -0.34 U | 1.9 | 0.55 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-94 | SMRD-94-GW032811 | Eu-154 | Filtered | 3.3 U | 9.3 | 2.8 | SMDUP-04-GW032811Q | Eu-154 | Filtered | 0.9 U | 9.4 | 2.7 |
| RD-94 | SMRD-94-GW032811 | Eu-154 | Suspended | -1.1 U | 6 | 1.8 | SMDUP-04-GW032811Q | Eu-154 | Suspended | 2.2 U | 6 | 1.8 |
| RD-94 | SMRD-94-GW032811 | Eu-155 | Filtered | -0.7 U | 3.4 | 1 | SMDUP-04-GW032811Q | Eu-155 | Filtered | 0.004 U | 2.6 | 0.78 |
| RD-94 | SMRD-94-GW032811 | Eu-155 | Suspended | 0.07 U | 1.4 | 0.41 | SMDUP-04-GW032811Q | Eu-155 | Suspended | 0.04 U | 1.2 | 0.36 |
| RD-94 | SMRD-94-GW032811 | gross_alpha | Filtered | 28.5 L | 0.9 | 1.7 | SMDUP-04-GW032811Q | gross_alpha | Filtered | 26.4 L | 0.7 | 1.6 |
| RD-94 | SMRD-94-GW032811 | gross_alpha | Suspended | 0.86 | 0.52 | 0.21 | SMDUP-04-GW032811Q | gross_alpha | Suspended | 1.32 | 0.79 | 0.34 |
| RD-94 | SMRD-94-GW032811 | gross_beta | Filtered | 16.5 | 4.6 | 2.1 | SMDUP-04-GW032811Q | gross_beta | Filtered | 11.8 | 4.4 | 1.8 |
| RD-94 | SMRD-94-GW032811 | H-3 | Total | 5000 | 170 | 250 | SMDUP-04-GW032811Q | H-3 | Total | 5000 | 160 | 240 |
| RD-94 | SMRD-94-GW032811 | Ho-166m | Filtered | -0.74 U | 2.1 | 0.64 | SMDUP-04-GW032811Q | Ho-166m | Filtered | -0.09 U | 1.6 | 0.46 |
| RD-94 | SMRD-94-GW032811 | Ho-166m | Suspended | -0.27 U | 1.2 | 0.37 | SMDUP-04-GW032811Q | Ho-166m | Suspended | 0.03 U | 1.1 | 0.33 |
| RD-94 | SMRD-94-GW032811 | K-40 | Filtered | 6 U | 17 | 4.3 | SMDUP-04-GW032811Q | K-40 | Filtered | 9.5 | 18 | 6 |
| RD-94 | SMRD-94-GW032811 | K-40 | Suspended | -4.5 U | 12 | 4.4 | SMDUP-04-GW032811Q | K-40 | Suspended | 2.7 U | 9.7 | 2.7 |
| RD-94 | SMRD-94-GW032811 | Na-22 | Filtered | -0.14 U | 1.2 | 0.36 | SMDUP-04-GW032811Q | Na-22 | Filtered | -0.12 U | 1.2 | 0.36 |
| RD-94 | SMRD-94-GW032811 | Na-22 | Suspended | -0.18 U | 0.78 | 0.23 | SMDUP-04-GW032811Q | Na-22 | Suspended | 0.1 U | 0.7 | 0.2 |
| RD-94 | SMRD-94-GW032811 | Nb-94 | Filtered | 0.09 U | 0.91 | 0.26 | SMDUP-04-GW032811Q | Nb-94 | Filtered | 0.3 U | 0.94 | 0.28 |
| RD-94 | SMRD-94-GW032811 | Nb-94 | Suspended | 0.16 U | 0.66 | 0.2 | SMDUP-04-GW032811Q | Nb-94 | Suspended | 0.34 | 0.65 | 0.2 |
| RD-94 | SMRD-94-GW032811 | Np-236 | Filtered | -0.11 U | 2.3 | 0.67 | SMDUP-04-GW032811Q | Np-236 | Filtered | -0.42 U | 2.4 | 0.73 |
| RD-94 | SMRD-94-GW032811 | Np-236 | Suspended | -0.28 U | 1.2 | 0.37 | SMDUP-04-GW032811Q | Np-236 | Suspended | 0.17 U | 1.2 | 0.37 |
| RD-94 | SMRD-94-GW032811 | Np-239 | Filtered | 1.6 U | 7.3 | 2.2 | SMDUP-04-GW032811Q | Np-239 | Filtered | 0.4 U | 7.6 | 2.2 |
| RD-94 | SMRD-94-GW032811 | Np-239 | Suspended | -0.04 U | 3.9 | 1.1 | SMDUP-04-GW032811Q | Np-239 | Suspended | -0.2 U | 3.8 | 1.1 |
| RD-94 | SMRD-94-GW032811 | Pa-231 | Filtered | -9 U | 52 | 15 | SMDUP-04-GW032811Q | Pa-231 | Filtered | -10 U | 52 | 16 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-94 | SMRD-94-GW032811 | Pa-231 | Suspended | -4.2 U | 25 | 7.4 | SMDUP-04-GW032811Q | Pa-231 | Suspended | -5.1 U | 26 | 7.9 |
| RD-94 | SMRD-94-GW032811 | Pb-212 | Filtered | 1.09 U | 2.3 | 0.71 | SMDUP-04-GW032811Q | Pb-212 | Filtered | 1.5 | 2.6 | 1 |
| RD-94 | SMRD-94-GW032811 | Pb-212 | Suspended | 0.4 U | 1.2 | 0.43 | SMDUP-04-GW032811Q | Pb-212 | Suspended | 0.24 U | 1.2 | 0.42 |
| RD-94 | SMRD-94-GW032811 | Pb-214 | Filtered | 0.8 U | 2.4 | 0.87 | SMDUP-04-GW032811Q | Pb-214 | Filtered | 0.52 U | 2.7 | 0.74 |
| RD-94 | SMRD-94-GW032811 | Pb-214 | Suspended | 0.48 U | 1.5 | 0.41 | SMDUP-04-GW032811Q | Pb-214 | Suspended | -0.11 U | 1.5 | 0.57 |
| RD-94 | SMRD-94-GW032811 | Sb-125 | Filtered | 0.4 U | 11 | 3.3 | SMDUP-04-GW032811Q | Sb-125 | Filtered | -0.4 U | 12 | 3.6 |
| RD-94 | SMRD-94-GW032811 | Sb-125 | Suspended | 0.3 U | 5.8 | 1.7 | SMDUP-04-GW032811Q | Sb-125 | Suspended | 0.7 U | 5.7 | 1.7 |
| RD-94 | SMRD-94-GW032811 | Sn-126 | Filtered | -0.01 U | 1.2 | 0.36 | SMDUP-04-GW032811Q | Sn-126 | Filtered | 0.48 U | 1.1 | 0.33 |
| RD-94 | SMRD-94-GW032811 | Sn-126 | Suspended | 0.43 | 0.75 | 0.23 | SMDUP-04-GW032811Q | Sn-126 | Suspended | 0.25 U | 0.76 | 0.23 |
| RD-94 | SMRD-94-GW032811 | Sr-90 | Suspended | -0.026 U | 0.12 | 0.035 | SMDUP-04-GW032811Q | Sr-90 | Suspended | 0.038 | 0.063 | 0.02 |
| RD-94 | SMRD-94-GW032811 | Tl-208 | Filtered | 0.43 U | 1.3 | 0.39 | SMDUP-04-GW032811Q | Tl-208 | Filtered | 0.93 | 1.3 | 0.51 |
| RD-94 | SMRD-94-GW032811 | Tl-208 | Suspended | 0.49 | 0.77 | 0.27 | SMDUP-04-GW032811Q | Tl-208 | Suspended | -0.01 U | 0.86 | 0.24 |
| RD-94 | SMRD-94-GW032811 | Tm-171 | Filtered | 140 U | 340 | 100 | SMDUP-04-GW032811Q | Tm-171 | Filtered | -220 U | 350 | 110 |
| RD-94 | SMRD-94-GW032811 | Tm-171 | Suspended | 41 U | 120 | 35 | SMDUP-04-GW032811Q | Tm-171 | Suspended | -15 U | 120 | 34 |
| RD-94 | SMRD-94-GW032811 | U-233/234 | Filtered | 18.1 | 0.006 | 0.79 | SMDUP-04-GW032811Q | U-233/234 | Filtered | 18.1 | 0.02 | 0.79 |
| RD-94 | SMRD-94-GW032811 | U-233/234 | Suspended | 0.081 | 0.016 | 0.014 | SMDUP-04-GW032811Q | U-233/234 | Suspended | 0.1 | 0.005 | 0.014 |
| RD-94 | SMRD-94-GW032811 | U-235/236 | Filtered | 0.815 | 0.024 | 0.06 | SMDUP-04-GW032811Q | U-235/236 | Filtered | 0.792 | 0.027 | 0.061 |
| RD-94 | SMRD-94-GW032811 | U-235/236 | Suspended | 0.0033 U | 0.019 | 0.0048 | SMDUP-04-GW032811Q | U-235/236 | Suspended | 0.0023 U | 0.0061 | 0.0023 |
| RD-94 | SMRD-94-GW032811 | U-238 | Filtered | 17.3 | 0.02 | 0.75 | SMDUP-04-GW032811Q | U-238 | Filtered | 17.3 | 0.007 | 0.76 |
| RD-94 | SMRD-94-GW032811 | U-238 | Suspended | 0.101 | 0.005 | 0.015 | SMDUP-04-GW032811Q | U-238 | Suspended | 0.093 | 0.005 | 0.014 |
| RD-91 | SMRD-91-GW033011 | Ac-227 | Filtered | -5.2 U | 9.5 | 2.9 | SMDUP-05-GW033011Q | Ac-227 | Filtered | -6.2 U | 11 | 3.4 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|------|-----------------------|--------------|-----------------|----------|-------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-91 | SMRD-91-GW033011 | Ac-227 | Suspended | -0.9 U | 4.5 | 1.3 | SMDUP-05-GW033011Q | Ac-227 | Suspended | 3.18 | 2.3 | 0.76 |
| RD-91 | SMRD-91-GW033011 | Ac-228 | Filtered | 3.4 | 3.6 | 1.2 | SMDUP-05-GW033011Q | Ac-228 | Filtered | -0.3 U | 5.5 | 1.6 |
| RD-91 | SMRD-91-GW033011 | Ac-228 | Suspended | -0.15 U | 2.8 | 0.83 | SMDUP-05-GW033011Q | Ac-228 | Suspended | -1.2 U | 2.9 | 1.6 |
| RD-91 | SMRD-91-GW033011 | Bi-212 | Filtered | -0.9 U | 9.2 | 3.9 | SMDUP-05-GW033011Q | Bi-212 | Filtered | -0.1 U | 11 | 3.2 |
| RD-91 | SMRD-91-GW033011 | Bi-212 | Suspended | 1.8 U | 6 | 1.8 | SMDUP-05-GW033011Q | Bi-212 | Suspended | 0.9 U | 6 | 1.8 |
| RD-91 | SMRD-91-GW033011 | Bi-214 | Filtered | 0.8 U | 2.9 | 1.1 | SMDUP-05-GW033011Q | Bi-214 | Filtered | 1.8 | 3.5 | 1.2 |
| RD-91 | SMRD-91-GW033011 | Bi-214 | Suspended | 0.83 | 1.6 | 0.57 | SMDUP-05-GW033011Q | Bi-214 | Suspended | 2.24 | 1.7 | 0.78 |
| RD-91 | SMRD-91-GW033011 | Cd-113m | Filtered | 4200 U | 13000 | 4000 | SMDUP-05-GW033011Q | Cd-113m | Filtered | 2200 U | 18000 | 5500 |
| RD-91 | SMRD-91-GW033011 | Cd-113m | Suspended | -2400 U | 7400 | 2200 | SMDUP-05-GW033011Q | Cd-113m | Suspended | 1900 U | 6300 | 1900 |
| RD-91 | SMRD-91-GW033011 | Co-60 | Filtered | 0.27 U | 1.1 | 0.31 | SMDUP-05-GW033011Q | Co-60 | Filtered | 0.14 U | 1.3 | 0.37 |
| RD-91 | SMRD-91-GW033011 | Co-60 | Suspended | 0.2 U | 0.71 | 0.21 | SMDUP-05-GW033011Q | Co-60 | Suspended | 0 U | 0.85 | 0.24 |
| RD-91 | SMRD-91-GW033011 | Cs-134 | Filtered | 0.03 U | 1.7 | 0.51 | SMDUP-05-GW033011Q | Cs-134 | Filtered | -0.98 U | 1.7 | 0.52 |
| RD-91 | SMRD-91-GW033011 | Cs-134 | Suspended | 0.23 U | 0.77 | 0.23 | SMDUP-05-GW033011Q | Cs-134 | Suspended | -0.19 U | 0.74 | 0.22 |
| RD-91 | SMRD-91-GW033011 | Cs-137 | Filtered | -0.005 U | 1.1 | 0.32 | SMDUP-05-GW033011Q | Cs-137 | Filtered | 0.51 U | 1.4 | 0.41 |
| RD-91 | SMRD-91-GW033011 | Cs-137 | Suspended | 0.29 U | 0.7 | 0.21 | SMDUP-05-GW033011Q | Cs-137 | Suspended | -0.11 U | 0.78 | 0.23 |
| RD-91 | SMRD-91-GW033011 | Eu-152 | Filtered | 0.4 U | 3 | 0.9 | SMDUP-05-GW033011Q | Eu-152 | Filtered | 0.02 U | 4.1 | 1.2 |
| RD-91 | SMRD-91-GW033011 | Eu-152 | Suspended | -0.04 U | 1.9 | 0.55 | SMDUP-05-GW033011Q | Eu-152 | Suspended | 0.17 U | 1.7 | 0.5 |
| RD-91 | SMRD-91-GW033011 | Eu-154 | Filtered | -1.1 U | 9.2 | 2.7 | SMDUP-05-GW033011Q | Eu-154 | Filtered | -1 U | 13 | 3.8 |
| RD-91 | SMRD-91-GW033011 | Eu-154 | Suspended | 0.05 U | 5.8 | 1.7 | SMDUP-05-GW033011Q | Eu-154 | Suspended | 0.5 U | 5.3 | 1.5 |
| RD-91 | SMRD-91-GW033011 | Eu-155 | Filtered | -0.5 U | 2.8 | 0.85 | SMDUP-05-GW033011Q | Eu-155 | Filtered | 0.4 U | 4 | 1.2 |
| RD-91 | SMRD-91-GW033011 | Eu-155 | Suspended | 0.07 U | 1.2 | 0.37 | SMDUP-05-GW033011Q | Eu-155 | Suspended | 0.5 U | 1.3 | 0.4 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-91 | SMRD-91-GW033011 | H-3 | Total | -53 U | 140 | 39 | SMDUP-05-GW033011Q | H-3 | Total | -19 U | 130 | 38 |
| RD-91 | SMRD-91-GW033011 | Ho-166m | Filtered | 0.16 U | 1.8 | 0.54 | SMDUP-05-GW033011Q | Ho-166m | Filtered | -0.01 U | 2.4 | 0.69 |
| RD-91 | SMRD-91-GW033011 | Ho-166m | Suspended | 0.11 U | 1.2 | 0.34 | SMDUP-05-GW033011Q | Ho-166m | Suspended | 0.03 U | 1.2 | 0.34 |
| RD-91 | SMRD-91-GW033011 | K-40 | Filtered | -4.1 U | 17 | 5.9 | SMDUP-05-GW033011Q | K-40 | Filtered | 9.8 | 20 | 5.9 |
| RD-91 | SMRD-91-GW033011 | K-40 | Suspended | 14.3 | 9.6 | 3.4 | SMDUP-05-GW033011Q | K-40 | Suspended | -2.2 U | 12 | 4 |
| RD-91 | SMRD-91-GW033011 | Na-22 | Filtered | 0.29 U | 1.1 | 0.32 | SMDUP-05-GW033011Q | Na-22 | Filtered | -0.34 U | 1.7 | 0.5 |
| RD-91 | SMRD-91-GW033011 | Na-22 | Suspended | -0.02 U | 0.8 | 0.23 | SMDUP-05-GW033011Q | Na-22 | Suspended | -0.02 U | 0.71 | 0.2 |
| RD-91 | SMRD-91-GW033011 | Nb-94 | Filtered | 0.5 | 0.96 | 0.29 | SMDUP-05-GW033011Q | Nb-94 | Filtered | 0.56 U | 1.2 | 0.38 |
| RD-91 | SMRD-91-GW033011 | Nb-94 | Suspended | 0.00001 U | 0.66 | 0.19 | SMDUP-05-GW033011Q | Nb-94 | Suspended | 0.01 U | 0.66 | 0.19 |
| RD-91 | SMRD-91-GW033011 | Np-236 | Filtered | -0.64 U | 2.7 | 0.81 | SMDUP-05-GW033011Q | Np-236 | Filtered | -0.82 U | 3.3 | 0.99 |
| RD-91 | SMRD-91-GW033011 | Np-236 | Suspended | 0.21 U | 1.1 | 0.34 | SMDUP-05-GW033011Q | Np-236 | Suspended | -0.03 U | 1.2 | 0.36 |
| RD-91 | SMRD-91-GW033011 | Np-239 | Filtered | 0.3 U | 7.2 | 2.1 | SMDUP-05-GW033011Q | Np-239 | Filtered | -2.8 U | 9.6 | 2.9 |
| RD-91 | SMRD-91-GW033011 | Np-239 | Suspended | 0.7 U | 3.9 | 1.2 | SMDUP-05-GW033011Q | Np-239 | Suspended | -1.1 U | 3.6 | 1.1 |
| RD-91 | SMRD-91-GW033011 | Pa-231 | Filtered | 13 U | 48 | 14 | SMDUP-05-GW033011Q | Pa-231 | Filtered | 0.4 U | 66 | 19 |
| RD-91 | SMRD-91-GW033011 | Pa-231 | Suspended | 0 U | 28 | 8.2 | SMDUP-05-GW033011Q | Pa-231 | Suspended | 1.2 U | 22 | 6.3 |
| RD-91 | SMRD-91-GW033011 | Pb-212 | Filtered | 0.24 U | 2.3 | 0.73 | SMDUP-05-GW033011Q | Pb-212 | Filtered | 0.06 U | 2.8 | 0.96 |
| RD-91 | SMRD-91-GW033011 | Pb-212 | Suspended | 1.48 | 1.2 | 0.45 | SMDUP-05-GW033011Q | Pb-212 | Suspended | 0.26 U | 1.1 | 0.34 |
| RD-91 | SMRD-91-GW033011 | Pb-214 | Filtered | 0.65 U | 2.5 | 0.9 | SMDUP-05-GW033011Q | Pb-214 | Filtered | 0.46 U | 3.5 | 0.95 |
| RD-91 | SMRD-91-GW033011 | Pb-214 | Suspended | -0.21 U | 1.5 | 0.58 | SMDUP-05-GW033011Q | Pb-214 | Suspended | 0.57 | 1.1 | 0.35 |
| RD-91 | SMRD-91-GW033011 | Sb-125 | Filtered | 2.2 U | 12 | 3.6 | SMDUP-05-GW033011Q | Sb-125 | Filtered | 4.3 U | 15 | 4.4 |
| RD-91 | SMRD-91-GW033011 | Sb-125 | Suspended | 0 U | 5.7 | 1.7 | SMDUP-05-GW033011Q | Sb-125 | Suspended | 0.6 U | 5.8 | 1.7 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-91 | SMRD-91-GW033011 | Sn-126 | Filtered | 0.14 U | 1.4 | 0.4 | SMDUP-05-GW033011Q | Sn-126 | Filtered | 0.21 U | 1.7 | 0.49 |
| RD-91 | SMRD-91-GW033011 | Sn-126 | Suspended | 0 U | 0.83 | 0.24 | SMDUP-05-GW033011Q | Sn-126 | Suspended | 0.35 U | 0.75 | 0.23 |
| RD-91 | SMRD-91-GW033011 | Tl-208 | Filtered | 0.61 U | 1.3 | 0.42 | SMDUP-05-GW033011Q | Tl-208 | Filtered | 0.8 | 1.5 | 0.5 |
| RD-91 | SMRD-91-GW033011 | Tl-208 | Suspended | 0.26 U | 0.88 | 0.25 | SMDUP-05-GW033011Q | Tl-208 | Suspended | 0.64 | 0.77 | 0.29 |
| RD-91 | SMRD-91-GW033011 | Tm-171 | Filtered | -20 U | 370 | 110 | SMDUP-05-GW033011Q | Tm-171 | Filtered | 93 U | 320 | 96 |
| RD-91 | SMRD-91-GW033011 | Tm-171 | Suspended | 19 U | 120 | 35 | SMDUP-05-GW033011Q | Tm-171 | Suspended | 9 U | 100 | 30 |
| RD-91 | SMRD-91-GW033011 | U-233/234 | Filtered | 5.2 | 0.006 | 0.24 | SMDUP-05-GW033011Q | U-233/234 | Filtered | 6.37 | 0.005 | 0.29 |
| RD-91 | SMRD-91-GW033011 | U-233/234 | Suspended | 0.099 | 0.013 | 0.016 | SMDUP-05-GW033011Q | U-233/234 | Suspended | 0.0378 | 0.014 | 0.0094 |
| RD-91 | SMRD-91-GW033011 | U-235/236 | Filtered | 0.199 | 0.022 | 0.025 | SMDUP-05-GW033011Q | U-235/236 | Filtered | 0.274 | 0.007 | 0.028 |
| RD-91 | SMRD-91-GW033011 | U-235/236 | Suspended | 0.0079 | 0.016 | 0.0053 | SMDUP-05-GW033011Q | U-235/236 | Suspended | 0.0005 U | 0.017 | 0.0035 |
| RD-91 | SMRD-91-GW033011 | U-238 | Filtered | 4.29 | 0.006 | 0.2 | SMDUP-05-GW033011Q | U-238 | Filtered | 5.27 | 0.01 | 0.24 |
| RD-91 | SMRD-91-GW033011 | U-238 | Suspended | 0.108 | 0.013 | 0.016 | SMDUP-05-GW033011Q | U-238 | Suspended | 0.0166 | 0.0056 | 0.0059 |
| RD-97 | SMRD-97-GW033011 | Ac-227 | Filtered | -7.6 L U | 11 | 3.5 | SMDUP-06-GW033011 | Ac-227 | Filtered | -7 L U | 9.7 | 3 |
| RD-97 | SMRD-97-GW033011 | Ac-227 | Suspended | -4 L U | 5 | 1.6 | SMDUP-06-GW033011 | Ac-227 | Suspended | 0.1 U | 6.1 | 1.8 |
| RD-97 | SMRD-97-GW033011 | Ac-228 | Filtered | 6.5 | 5.1 | 1.7 | SMDUP-06-GW033011 | Ac-228 | Filtered | 3.3 | 3.4 | 1.1 |
| RD-97 | SMRD-97-GW033011 | Ac-228 | Suspended | 3.5 | 2.4 | 0.96 | SMDUP-06-GW033011 | Ac-228 | Suspended | 3.93 | 2.3 | 0.79 |
| RD-97 | SMRD-97-GW033011 | Am-241 | Filtered | 0.0119 | 0.018 | 0.0063 | SMDUP-06-GW033011 | Am-241 | Filtered | 0.0061 U | 0.019 | 0.0054 |
| RD-97 | SMRD-97-GW033011 | Am-241 | Suspended | 0.0011 U | 0.017 | 0.0041 | SMDUP-06-GW033011 | Am-241 | Suspended | 0.0089 | 0.014 | 0.0048 |
| RD-97 | SMRD-97-GW033011 | Bi-212 | Filtered | 4.8 | 10 | 3.1 | SMDUP-06-GW033011 | Bi-212 | Filtered | 0.3 U | 9 | 2.5 |
| RD-97 | SMRD-97-GW033011 | Bi-212 | Suspended | 1.9 U | 6 | 1.8 | SMDUP-06-GW033011 | Bi-212 | Suspended | 2 U | 5.8 | 1.7 |
| RD-97 | SMRD-97-GW033011 | Bi-214 | Filtered | 1.1 U | 3.9 | 1.6 | SMDUP-06-GW033011 | Bi-214 | Filtered | 1.4 | 2.8 | 1.1 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-97 | SMRD-97-GW033011 | Bi-214 | Suspended | 1.12 | 1.9 | 0.81 | SMDUP-06-GW033011 | Bi-214 | Suspended | 3.35 | 1.7 | 0.72 |
| RD-97 | SMRD-97-GW033011 | Cd-113m | Filtered | -5500 U | 18000 | 5400 | SMDUP-06-GW033011 | Cd-113m | Filtered | 200 U | 13000 | 3700 |
| RD-97 | SMRD-97-GW033011 | Cd-113m | Suspended | -600 U | 7300 | 2200 | SMDUP-06-GW033011 | Cd-113m | Suspended | 700 U | 7300 | 2200 |
| RD-97 | SMRD-97-GW033011 | Cm-243/244 | Filtered | 0.0039 U | 0.018 | 0.0047 | SMDUP-06-GW033011 | Cm-243/244 | Filtered | 0.004 U | 0.04 | 0.011 |
| RD-97 | SMRD-97-GW033011 | Cm-243/244 | Suspended | 0.0003 U | 0.012 | 0.0023 | SMDUP-06-GW033011 | Cm-243/244 | Suspended | 0 U | 0.0044 | 0.0016 |
| RD-97 | SMRD-97-GW033011 | Cm-245/246 | Filtered | 0.0099 J | 0.019 | 0.0062 | SMDUP-06-GW033011 | Cm-245/246 | Filtered | 0.0091 J | 0.0061 | 0.0045 |
| RD-97 | SMRD-97-GW033011 | Cm-245/246 | Suspended | 0.0207 | 0.017 | 0.0074 | SMDUP-06-GW033011 | Cm-245/246 | Suspended | 0.0059 | 0.012 | 0.004 |
| RD-97 | SMRD-97-GW033011 | Co-60 | Filtered | 0.01 U | 1.7 | 0.47 | SMDUP-06-GW033011 | Co-60 | Filtered | -0.05 U | 1.1 | 0.32 |
| RD-97 | SMRD-97-GW033011 | Co-60 | Suspended | 0.32 | 0.68 | 0.21 | SMDUP-06-GW033011 | Co-60 | Suspended | 0.13 U | 0.76 | 0.22 |
| RD-97 | SMRD-97-GW033011 | Cs-134 | Filtered | 0.02 U | 0.95 | 0.27 | SMDUP-06-GW033011 | Cs-134 | Filtered | 0 U | 1.7 | 0.51 |
| RD-97 | SMRD-97-GW033011 | Cs-134 | Suspended | -0.22 U | 0.86 | 0.26 | SMDUP-06-GW033011 | Cs-134 | Suspended | -0.25 U | 0.86 | 0.26 |
| RD-97 | SMRD-97-GW033011 | Cs-137 | Filtered | -0.39 U | 1.6 | 0.48 | SMDUP-06-GW033011 | Cs-137 | Filtered | 0.21 U | 0.97 | 0.29 |
| RD-97 | SMRD-97-GW033011 | Cs-137 | Suspended | -0.007 U | 0.71 | 0.21 | SMDUP-06-GW033011 | Cs-137 | Suspended | -0.13 U | 0.67 | 0.2 |
| RD-97 | SMRD-97-GW033011 | Eu-152 | Filtered | 0.1 U | 3.7 | 1.1 | SMDUP-06-GW033011 | Eu-152 | Filtered | 0.41 U | 3.1 | 0.93 |
| RD-97 | SMRD-97-GW033011 | Eu-152 | Suspended | 0.22 U | 1.4 | 0.42 | SMDUP-06-GW033011 | Eu-152 | Suspended | 0.41 U | 1.8 | 0.53 |
| RD-97 | SMRD-97-GW033011 | Eu-154 | Filtered | -0.9 U | 13 | 3.6 | SMDUP-06-GW033011 | Eu-154 | Filtered | -1.8 U | 7.8 | 2.3 |
| RD-97 | SMRD-97-GW033011 | Eu-154 | Suspended | 0.8 U | 6.4 | 1.9 | SMDUP-06-GW033011 | Eu-154 | Suspended | 1.1 U | 6 | 1.8 |
| RD-97 | SMRD-97-GW033011 | Eu-155 | Filtered | 0 U | 4.2 | 1.3 | SMDUP-06-GW033011 | Eu-155 | Filtered | -0.93 U | 3.1 | 0.92 |
| RD-97 | SMRD-97-GW033011 | Eu-155 | Suspended | 0.26 U | 1.2 | 0.36 | SMDUP-06-GW033011 | Eu-155 | Suspended | -0.08 U | 1.2 | 0.35 |
| RD-97 | SMRD-97-GW033011 | gross_alpha | Filtered | 6.24 J | 0.59 | 0.57 | SMDUP-06-GW033011 | gross_alpha | Filtered | 7.98 J | 0.63 | 0.66 |
| RD-97 | SMRD-97-GW033011 | gross_alpha | Suspended | 2.97 | 0.56 | 0.37 | SMDUP-06-GW033011 | gross_alpha | Suspended | 2.34 | 0.52 | 0.33 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|-------|--------|-----------------------|--------------|-----------------|-----------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-97 | SMRD-97-GW033011 | gross_beta | Suspended | 1.58 | 0.7 | 0.28 | SMDUP-06-GW033011 | gross_beta | Suspended | 4.97 | 0.72 | 0.43 |
| RD-97 | SMRD-97-GW033011 | Ho-166m | Filtered | -0.3 U | 2.5 | 0.71 | SMDUP-06-GW033011 | Ho-166m | Filtered | 0.71 SK | 1.2 | 0.38 |
| RD-97 | SMRD-97-GW033011 | Ho-166m | Suspended | 0.16 U | 1.2 | 0.34 | SMDUP-06-GW033011 | Ho-166m | Suspended | -0.004 U | 1 | 0.29 |
| RD-97 | SMRD-97-GW033011 | I-129 | Filtered | -0.08 U | 0.57 | 0.17 | SMDUP-06-GW033011 | I-129 | Filtered | 0.21 U | 0.69 | 0.21 |
| RD-97 | SMRD-97-GW033011 | I-129 | Suspended | 0.02 U | 0.47 | 0.14 | SMDUP-06-GW033011 | I-129 | Suspended | 0.09 U | 0.81 | 0.25 |
| RD-97 | SMRD-97-GW033011 | K-40 | Filtered | 25.3 | 20 | 7.3 | SMDUP-06-GW033011 | K-40 | Filtered | 8.6 | 15 | 5.1 |
| RD-97 | SMRD-97-GW033011 | K-40 | Suspended | -2 U | 11 | 3.4 | SMDUP-06-GW033011 | K-40 | Suspended | 7.4 | 9.2 | 2.8 |
| RD-97 | SMRD-97-GW033011 | Na-22 | Filtered | 0.06 U | 1.5 | 0.41 | SMDUP-06-GW033011 | Na-22 | Filtered | -0.26 U | 1.3 | 0.37 |
| RD-97 | SMRD-97-GW033011 | Na-22 | Suspended | 0.01 U | 0.62 | 0.17 | SMDUP-06-GW033011 | Na-22 | Suspended | -0.07 U | 0.7 | 0.2 |
| RD-97 | SMRD-97-GW033011 | Nb-94 | Filtered | -0.28 U | 1.4 | 0.41 | SMDUP-06-GW033011 | Nb-94 | Filtered | 0.5 U | 1.1 | 0.33 |
| RD-97 | SMRD-97-GW033011 | Nb-94 | Suspended | 0.001 U | 0.66 | 0.19 | SMDUP-06-GW033011 | Nb-94 | Suspended | -0.01 U | 0.69 | 0.2 |
| RD-97 | SMRD-97-GW033011 | Np-236 | Filtered | 0.45 U | 2.8 | 0.82 | SMDUP-06-GW033011 | Np-236 | Filtered | -0.1 U | 2.7 | 0.81 |
| RD-97 | SMRD-97-GW033011 | Np-236 | Suspended | -0.33 U | 1.3 | 0.38 | SMDUP-06-GW033011 | Np-236 | Suspended | -0.13 U | 1.2 | 0.36 |
| RD-97 | SMRD-97-GW033011 | Np-237 | Filtered | -0.0024 U | 0.026 | 0.0024 | SMDUP-06-GW033011 | Np-237 | Filtered | -0.0021 U | 0.023 | 0.0021 |
| RD-97 | SMRD-97-GW033011 | Np-237 | Suspended | -0.002 U | 0.022 | 0.002 | SMDUP-06-GW033011 | Np-237 | Suspended | -0.0041 U | 0.034 | 0.0057 |
| RD-97 | SMRD-97-GW033011 | Np-239 | Filtered | -2.4 U | 9.5 | 2.9 | SMDUP-06-GW033011 | Np-239 | Filtered | 0.07 U | 6.9 | 2 |
| RD-97 | SMRD-97-GW033011 | Np-239 | Suspended | 0.3 U | 3.9 | 1.1 | SMDUP-06-GW033011 | Np-239 | Suspended | 0.6 U | 3.8 | 1.1 |
| RD-97 | SMRD-97-GW033011 | Pa-231 | Filtered | 0 U | 73 | 21 | SMDUP-06-GW033011 | Pa-231 | Filtered | 8 U | 48 | 14 |
| RD-97 | SMRD-97-GW033011 | Pa-231 | Suspended | -4 U | 28 | 8.3 | SMDUP-06-GW033011 | Pa-231 | Suspended | -2.4 U | 27 | 8 |
| RD-97 | SMRD-97-GW033011 | Pb-212 | Filtered | 0.84 U | 2.5 | 0.75 | SMDUP-06-GW033011 | Pb-212 | Filtered | -0.33 U | 2.4 | 0.83 |
| RD-97 | SMRD-97-GW033011 | Pb-212 | Suspended | 1.27 | 1.1 | 0.42 | SMDUP-06-GW033011 | Pb-212 | Suspended | 1.18 | 1.1 | 0.39 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|--------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-97 | SMRD-97-GW033011 | Pb-214 | Filtered | 1.3 U | 3.2 | 1.2 | SMDUP-06-GW033011 | Pb-214 | Filtered | 0.6 U | 2.7 | 0.74 |
| RD-97 | SMRD-97-GW033011 | Pb-214 | Suspended | -0.4 U | 1.4 | 0.59 | SMDUP-06-GW033011 | Pb-214 | Suspended | 1.75 | 1.4 | 0.49 |
| RD-97 | SMRD-97-GW033011 | Pu-238 | Filtered | 0.0032 U | 0.019 | 0.005 | SMDUP-06-GW033011 | Pu-238 | Filtered | 0.0064 U | 0.023 | 0.0064 |
| RD-97 | SMRD-97-GW033011 | Pu-238 | Suspended | 0.0176 | 0.011 | 0.0056 | SMDUP-06-GW033011 | Pu-238 | Suspended | 0.0134 | 0.015 | 0.0059 |
| RD-97 | SMRD-97-GW033011 | Pu-239/240 | Filtered | 0.004 U | 0.0053 | 0.0028 | SMDUP-06-GW033011 | Pu-239/240 | Filtered | 0.0021 U | 0.016 | 0.0037 |
| RD-97 | SMRD-97-GW033011 | Pu-239/240 | Suspended | 0.0029 U | 0.004 | 0.0021 | SMDUP-06-GW033011 | Pu-239/240 | Suspended | 0.0018 U | 0.0049 | 0.0018 |
| RD-97 | SMRD-97-GW033011 | Pu-242 | Filtered | 0 U | 0.0053 | 0.002 | SMDUP-06-GW033011 | Pu-242 | Filtered | 0 U | 0.016 | 0.003 |
| RD-97 | SMRD-97-GW033011 | Pu-242 | Suspended | -0.0044 U | 0.016 | 0.0028 | SMDUP-06-GW033011 | Pu-242 | Suspended | 0.0018 U | 0.0049 | 0.0018 |
| RD-97 | SMRD-97-GW033011 | Ra-226 | Filtered | 1.28 | 0.14 | 0.13 | SMDUP-06-GW033011 | Ra-226 | Filtered | 1.26 | 0.15 | 0.13 |
| RD-97 | SMRD-97-GW033011 | Ra-226 | Suspended | 1.03 | 0.22 | 0.13 | SMDUP-06-GW033011 | Ra-226 | Suspended | 1.25 | 0.22 | 0.14 |
| RD-97 | SMRD-97-GW033011 | Sb-125 | Filtered | 1.7 U | 15 | 4.5 | SMDUP-06-GW033011 | Sb-125 | Filtered | -1.4 U | 11 | 3.2 |
| RD-97 | SMRD-97-GW033011 | Sb-125 | Suspended | 0.5 U | 5.7 | 1.7 | SMDUP-06-GW033011 | Sb-125 | Suspended | -0.4 U | 5.7 | 1.7 |
| RD-97 | SMRD-97-GW033011 | Sn-126 | Filtered | -0.14 U | 1.6 | 0.47 | SMDUP-06-GW033011 | Sn-126 | Filtered | -0.04 U | 1.4 | 0.4 |
| RD-97 | SMRD-97-GW033011 | Sn-126 | Suspended | 0.26 U | 0.72 | 0.22 | SMDUP-06-GW033011 | Sn-126 | Suspended | 0.25 U | 0.79 | 0.24 |
| RD-97 | SMRD-97-GW033011 | Sr-90 | Filtered | 0.073 U | 0.17 | 0.051 | SMDUP-06-GW033011 | Sr-90 | Filtered | 0.063 | 0.096 | 0.03 |
| RD-97 | SMRD-97-GW033011 | Sr-90 | Suspended | 0.152 | 0.091 | 0.031 | SMDUP-06-GW033011 | Sr-90 | Suspended | 0.091 | 0.092 | 0.029 |
| RD-97 | SMRD-97-GW033011 | Tc-99 | Filtered | -0.14 U | 1.2 | 0.38 | SMDUP-06-GW033011 | Tc-99 | Filtered | -0.14 U | 1.3 | 0.4 |
| RD-97 | SMRD-97-GW033011 | Tc-99 | Suspended | 0.09 U | 1.5 | 0.44 | SMDUP-06-GW033011 | Tc-99 | Suspended | 0.12 U | 1.3 | 0.4 |
| RD-97 | SMRD-97-GW033011 | Tl-208 | Filtered | 0.28 U | 1.6 | 0.51 | SMDUP-06-GW033011 | Tl-208 | Filtered | -0.43 U | 1.5 | 0.56 |
| RD-97 | SMRD-97-GW033011 | Tl-208 | Suspended | 1.08 | 0.75 | 0.32 | SMDUP-06-GW033011 | Tl-208 | Suspended | 0.73 | 0.81 | 0.33 |
| RD-97 | SMRD-97-GW033011 | Tm-171 | Filtered | 120 U | 450 | 130 | SMDUP-06-GW033011 | Tm-171 | Filtered | -180 U | 350 | 110 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|--------|-----------------------|--------------|-----------------|----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-97 | SMRD-97-GW033011 | Tm-171 | Suspended | 1 U | 120 | 34 | SMDUP-06-GW033011 | Tm-171 | Suspended | 0.2 U | 120 | 36 |
| RD-97 | SMRD-97-GW033011 | U-233/234 | Filtered | 3.77 | 0.006 | 0.18 | SMDUP-06-GW033011 | U-233/234 | Filtered | 3.78 | 0.02 | 0.19 |
| RD-97 | SMRD-97-GW033011 | U-233/234 | Suspended | 0.149 | 0.02 | 0.02 | SMDUP-06-GW033011 | U-233/234 | Suspended | 0.14 | 0.006 | 0.019 |
| RD-97 | SMRD-97-GW033011 | U-235/236 | Filtered | 0.175 | 0.007 | 0.023 | SMDUP-06-GW033011 | U-235/236 | Filtered | 0.16 | 0.026 | 0.024 |
| RD-97 | SMRD-97-GW033011 | U-235/236 | Suspended | 0.0005 U | 0.017 | 0.0033 | SMDUP-06-GW033011 | U-235/236 | Suspended | 0.0026 U | 0.0069 | 0.0026 |
| RD-97 | SMRD-97-GW033011 | U-238 | Filtered | 3.46 | 0.006 | 0.17 | SMDUP-06-GW033011 | U-238 | Filtered | 3.4 | 0.007 | 0.17 |
| RD-97 | SMRD-97-GW033011 | U-238 | Suspended | 0.144 | 0.006 | 0.019 | SMDUP-06-GW033011 | U-238 | Suspended | 0.126 | 0.006 | 0.017 |
| RS-11 | SMRS-11-GW033111 | Ac-227 | Filtered | -5.8 U | 12 | 3.7 | SMDUP-07-GW033111Q | Ac-227 | Filtered | -0.3 U | 12 | 3.6 |
| RS-11 | SMRS-11-GW033111 | Ac-227 | Suspended | -0.6 U | 4.2 | 1.3 | SMDUP-07-GW033111Q | Ac-227 | Suspended | -0.26 U | 3.1 | 0.91 |
| RS-11 | SMRS-11-GW033111 | Ac-228 | Filtered | 3.2 | 5 | 1.5 | SMDUP-07-GW033111Q | Ac-228 | Filtered | 2.8 | 3.6 | 1.1 |
| RS-11 | SMRS-11-GW033111 | Ac-228 | Suspended | -2.3 U | 3.2 | 4.2 | SMDUP-07-GW033111Q | Ac-228 | Suspended | 1.5 | 1.5 | 0.5 |
| RS-11 | SMRS-11-GW033111 | Bi-212 | Filtered | -0.6 U | 10 | 3 | SMDUP-07-GW033111Q | Bi-212 | Filtered | 0.4 U | 7.1 | 2 |
| RS-11 | SMRS-11-GW033111 | Bi-212 | Suspended | 2.7 | 5.2 | 1.6 | SMDUP-07-GW033111Q | Bi-212 | Suspended | -0.4 U | 4.4 | 1.3 |
| RS-11 | SMRS-11-GW033111 | Bi-214 | Filtered | -0.6 U | 4.1 | 1.3 | SMDUP-07-GW033111Q | Bi-214 | Filtered | 3.2 | 2.6 | 1.2 |
| RS-11 | SMRS-11-GW033111 | Bi-214 | Suspended | 1.2 | 1.8 | 0.75 | SMDUP-07-GW033111Q | Bi-214 | Suspended | 1.17 | 1.4 | 0.62 |
| RS-11 | SMRS-11-GW033111 | Cd-113m | Filtered | -1400 U | 18000 | 5300 | SMDUP-07-GW033111Q | Cd-113m | Filtered | 7 U | 14000 | 4100 |
| RS-11 | SMRS-11-GW033111 | Cd-113m | Suspended | -100 U | 5700 | 1700 | SMDUP-07-GW033111Q | Cd-113m | Suspended | 700 U | 4400 | 1300 |
| RS-11 | SMRS-11-GW033111 | Co-60 | Filtered | 0.25 U | 1.6 | 0.44 | SMDUP-07-GW033111Q | Co-60 | Filtered | 0 U | 1.2 | 0.34 |
| RS-11 | SMRS-11-GW033111 | Co-60 | Suspended | 0.009 U | 0.7 | 0.2 | SMDUP-07-GW033111Q | Co-60 | Suspended | -0.006 U | 0.6 | 0.17 |
| RS-11 | SMRS-11-GW033111 | Cs-134 | Filtered | -0.07 U | 1.6 | 0.48 | SMDUP-07-GW033111Q | Cs-134 | Filtered | 0.05 U | 1.2 | 0.34 |
| RS-11 | SMRS-11-GW033111 | Cs-134 | Suspended | 0.33 U | 0.79 | 0.24 | SMDUP-07-GW033111Q | Cs-134 | Suspended | -0.13 U | 0.66 | 0.2 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RS-11 | SMRS-11-GW033111 | Cs-137 | Filtered | -0.3 U | 1.7 | 0.5 | SMDUP-07-GW033111Q | Cs-137 | Filtered | -0.005 U | 1.2 | 0.36 |
| RS-11 | SMRS-11-GW033111 | Cs-137 | Suspended | -0.06 U | 0.84 | 0.25 | SMDUP-07-GW033111Q | Cs-137 | Suspended | -0.13 U | 0.6 | 0.18 |
| RS-11 | SMRS-11-GW033111 | Eu-152 | Filtered | -0.4 U | 4.4 | 1.3 | SMDUP-07-GW033111Q | Eu-152 | Filtered | -0.55 U | 3.4 | 0.99 |
| RS-11 | SMRS-11-GW033111 | Eu-152 | Suspended | 0.28 U | 1.7 | 0.51 | SMDUP-07-GW033111Q | Eu-152 | Suspended | 0.02 U | 1.3 | 0.38 |
| RS-11 | SMRS-11-GW033111 | Eu-154 | Filtered | -0.8 U | 16 | 4.6 | SMDUP-07-GW033111Q | Eu-154 | Filtered | 1 U | 9.6 | 2.8 |
| RS-11 | SMRS-11-GW033111 | Eu-154 | Suspended | 0.008 U | 5.5 | 1.6 | SMDUP-07-GW033111Q | Eu-154 | Suspended | 0.9 U | 4 | 1.2 |
| RS-11 | SMRS-11-GW033111 | Eu-155 | Filtered | -0.03 U | 3.7 | 1.1 | SMDUP-07-GW033111Q | Eu-155 | Filtered | 0.04 U | 3.5 | 1 |
| RS-11 | SMRS-11-GW033111 | Eu-155 | Suspended | 0.43 U | 1.3 | 0.39 | SMDUP-07-GW033111Q | Eu-155 | Suspended | -0.12 U | 0.98 | 0.29 |
| RS-11 | SMRS-11-GW033111 | gross_beta | Filtered | 9.4 | 6.2 | 2.4 | SMDUP-07-GW033111Q | gross_beta | Filtered | 11.4 | 7.8 | 2.8 |
| RS-11 | SMRS-11-GW033111 | gross_beta | Suspended | 0.75 | 0.91 | 0.3 | SMDUP-07-GW033111Q | gross_beta | Suspended | 0.48 U | 0.89 | 0.28 |
| RS-11 | SMRS-11-GW033111 | H-3 | Total | -30 U | 180 | 54 | SMDUP-07-GW033111Q | H-3 | Total | -20 U | 160 | 48 |
| RS-11 | SMRS-11-GW033111 | Ho-166m | Filtered | -0.81 U | 2.8 | 0.83 | SMDUP-07-GW033111Q | Ho-166m | Filtered | 0.24 U | 1.8 | 0.51 |
| RS-11 | SMRS-11-GW033111 | Ho-166m | Suspended | 0.18 U | 0.95 | 0.28 | SMDUP-07-GW033111Q | Ho-166m | Suspended | 0.07 U | 0.82 | 0.24 |
| RS-11 | SMRS-11-GW033111 | K-40 | Filtered | 1.2 U | 22 | 6.4 | SMDUP-07-GW033111Q | K-40 | Filtered | -5 U | 19 | 5.8 |
| RS-11 | SMRS-11-GW033111 | K-40 | Suspended | -7.7 U | 13 | 4.7 | SMDUP-07-GW033111Q | K-40 | Suspended | 2.5 U | 7.8 | 2.1 |
| RS-11 | SMRS-11-GW033111 | Na-22 | Filtered | -0.31 U | 1.9 | 0.55 | SMDUP-07-GW033111Q | Na-22 | Filtered | 0.02 U | 1 | 0.28 |
| RS-11 | SMRS-11-GW033111 | Na-22 | Suspended | -0.13 U | 0.82 | 0.24 | SMDUP-07-GW033111Q | Na-22 | Suspended | 0.18 U | 0.58 | 0.17 |
| RS-11 | SMRS-11-GW033111 | Nb-94 | Filtered | 0 U | 1.5 | 0.44 | SMDUP-07-GW033111Q | Nb-94 | Filtered | 0.18 U | 0.96 | 0.28 |
| RS-11 | SMRS-11-GW033111 | Nb-94 | Suspended | -0.09 U | 0.55 | 0.16 | SMDUP-07-GW033111Q | Nb-94 | Suspended | -0.06 U | 0.54 | 0.16 |
| RS-11 | SMRS-11-GW033111 | Np-236 | Filtered | -0.3 U | 3.6 | 1.1 | SMDUP-07-GW033111Q | Np-236 | Filtered | -0.05 U | 3 | 0.88 |
| RS-11 | SMRS-11-GW033111 | Np-236 | Suspended | -0.3 U | 1.3 | 0.39 | SMDUP-07-GW033111Q | Np-236 | Suspended | -0.16 U | 0.99 | 0.29 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|-------|-----------------------|--------------|-----------------|----------|-------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RS-11 | SMRS-11-GW033111 | Np-239 | Filtered | 2.2 U | 9.1 | 2.7 | SMDUP-07-GW033111Q | Np-239 | Filtered | 0 U | 7.9 | 2.3 |
| RS-11 | SMRS-11-GW033111 | Np-239 | Suspended | -0.1 U | 3.9 | 1.1 | SMDUP-07-GW033111Q | Np-239 | Suspended | 0.5 U | 2.9 | 0.86 |
| RS-11 | SMRS-11-GW033111 | Pa-231 | Filtered | 5 U | 65 | 19 | SMDUP-07-GW033111Q | Pa-231 | Filtered | 0 U | 53 | 16 |
| RS-11 | SMRS-11-GW033111 | Pa-231 | Suspended | -5.4 U | 27 | 8 | SMDUP-07-GW033111Q | Pa-231 | Suspended | -2.6 U | 20 | 5.8 |
| RS-11 | SMRS-11-GW033111 | Pb-212 | Filtered | 1.28 U | 2.9 | 0.94 | SMDUP-07-GW033111Q | Pb-212 | Filtered | 1.46 | 2.4 | 0.8 |
| RS-11 | SMRS-11-GW033111 | Pb-212 | Suspended | 0.27 U | 1 | 0.33 | SMDUP-07-GW033111Q | Pb-212 | Suspended | -0.11 U | 0.86 | 0.35 |
| RS-11 | SMRS-11-GW033111 | Pb-214 | Filtered | 0.51 U | 3 | 0.95 | SMDUP-07-GW033111Q | Pb-214 | Filtered | 1.05 U | 2.3 | 0.77 |
| RS-11 | SMRS-11-GW033111 | Pb-214 | Suspended | 1.1 | 1.4 | 0.56 | SMDUP-07-GW033111Q | Pb-214 | Suspended | 1.32 | 1 | 0.43 |
| RS-11 | SMRS-11-GW033111 | Sb-125 | Filtered | 0.4 U | 16 | 4.6 | SMDUP-07-GW033111Q | Sb-125 | Filtered | 0.2 U | 13 | 4 |
| RS-11 | SMRS-11-GW033111 | Sb-125 | Suspended | -0.009 U | 5.9 | 1.8 | SMDUP-07-GW033111Q | Sb-125 | Suspended | -1.4 U | 4.7 | 1.4 |
| RS-11 | SMRS-11-GW033111 | Sn-126 | Filtered | 0.72 U | 1.6 | 0.5 | SMDUP-07-GW033111Q | Sn-126 | Filtered | 0.71 | 1.1 | 0.35 |
| RS-11 | SMRS-11-GW033111 | Sr-90 | Filtered | 0.0005 U | 0.13 | 0.038 | SMDUP-07-GW033111Q | Sr-90 | Filtered | -0.012 U | 0.12 | 0.033 |
| RS-11 | SMRS-11-GW033111 | Sr-90 | Suspended | -0.037 U | 0.07 | 0.019 | SMDUP-07-GW033111Q | Sr-90 | Suspended | 0.004 U | 0.068 | 0.02 |
| RS-11 | SMRS-11-GW033111 | Tl-208 | Filtered | 0.13 U | 2 | 0.52 | SMDUP-07-GW033111Q | Tl-208 | Filtered | 0.32 U | 1.3 | 0.41 |
| RS-11 | SMRS-11-GW033111 | Tl-208 | Suspended | 0.2 U | 0.78 | 0.27 | SMDUP-07-GW033111Q | Tl-208 | Suspended | 0.01 U | 0.6 | 0.16 |
| RS-11 | SMRS-11-GW033111 | Tm-171 | Filtered | 40 U | 480 | 140 | SMDUP-07-GW033111Q | Tm-171 | Filtered | 170 U | 370 | 110 |
| RS-11 | SMRS-11-GW033111 | Tm-171 | Suspended | 23 U | 120 | 36 | SMDUP-07-GW033111Q | Tm-171 | Suspended | 24 U | 80 | 24 |
| RS-11 | SMRS-11-GW033111 | U-233/234 | Filtered | 30.9 | 0.02 | 1.3 | SMDUP-07-GW033111Q | U-233/234 | Filtered | 30.4 | 0.02 | 1.3 |
| RS-11 | SMRS-11-GW033111 | U-235/236 | Filtered | 1.47 | 0.01 | 0.096 | SMDUP-07-GW033111Q | U-235/236 | Filtered | 1.5 | 0.024 | 0.097 |
| RS-11 | SMRS-11-GW033111 | U-238 | Filtered | 28.1 | 0.02 | 1.2 | SMDUP-07-GW033111Q | U-238 | Filtered | 27 | 0.02 | 1.2 |
| RD-70 | SMRD-70-GW041811 | Ac-227 | Filtered | -5.6 U | 9 | 2.8 | SMDUP-09-GW041811Q | Ac-227 | Filtered | 0.5 U | 13 | 3.8 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|------|-----------------------|--------------|-----------------|----------|-------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-70 | SMRD-70-GW041811 | Ac-227 | Suspended | -2.9 L U | 4.6 | 1.4 | SMDUP-09-GW041811Q | Ac-227 | Suspended | 0.05 U | 2.5 | 0.75 |
| RD-70 | SMRD-70-GW041811 | Ac-228 | Filtered | 3.7 | 3.7 | 1.2 | SMDUP-09-GW041811Q | Ac-228 | Filtered | 4 | 4.7 | 1.5 |
| RD-70 | SMRD-70-GW041811 | Ac-228 | Suspended | 0.09 U | 2.7 | 0.7 | SMDUP-09-GW041811Q | Ac-228 | Suspended | 1.8 | 1.7 | 0.55 |
| RD-70 | SMRD-70-GW041811 | Bi-212 | Filtered | 6.6 | 7.2 | 2.3 | SMDUP-09-GW041811Q | Bi-212 | Filtered | 2.5 U | 8.9 | 2.6 |
| RD-70 | SMRD-70-GW041811 | Bi-212 | Suspended | 2.4 | 5 | 1.5 | SMDUP-09-GW041811Q | Bi-212 | Suspended | 0.71 U | 2.8 | 0.82 |
| RD-70 | SMRD-70-GW041811 | Bi-214 | Filtered | 2.7 | 2.6 | 1.1 | SMDUP-09-GW041811Q | Bi-214 | Filtered | 1.97 | 2.8 | 0.93 |
| RD-70 | SMRD-70-GW041811 | Bi-214 | Suspended | 0.86 | 1.6 | 0.59 | SMDUP-09-GW041811Q | Bi-214 | Suspended | 1.05 | 1.1 | 0.4 |
| RD-70 | SMRD-70-GW041811 | Cd-113m | Filtered | 2400 U | 13000 | 3800 | SMDUP-09-GW041811Q | Cd-113m | Filtered | 3000 U | 15000 | 4400 |
| RD-70 | SMRD-70-GW041811 | Cd-113m | Suspended | -300 U | 6200 | 1800 | SMDUP-09-GW041811Q | Cd-113m | Suspended | 20 U | 4800 | 1400 |
| RD-70 | SMRD-70-GW041811 | Co-60 | Filtered | 0.3 U | 1.1 | 0.32 | SMDUP-09-GW041811Q | Co-60 | Filtered | -0.07 U | 1.8 | 0.49 |
| RD-70 | SMRD-70-GW041811 | Co-60 | Suspended | 0.33 | 0.53 | 0.17 | SMDUP-09-GW041811Q | Co-60 | Suspended | 0.01 U | 0.47 | 0.13 |
| RD-70 | SMRD-70-GW041811 | Cs-134 | Filtered | 0 U | 1.5 | 0.43 | SMDUP-09-GW041811Q | Cs-134 | Filtered | 0.22 U | 1.4 | 0.4 |
| RD-70 | SMRD-70-GW041811 | Cs-134 | Suspended | -0.32 U | 0.75 | 0.23 | SMDUP-09-GW041811Q | Cs-134 | Suspended | -0.03 U | 0.49 | 0.14 |
| RD-70 | SMRD-70-GW041811 | Cs-137 | Filtered | -0.57 U | 1.2 | 0.37 | SMDUP-09-GW041811Q | Cs-137 | Filtered | 0.31 U | 1.6 | 0.46 |
| RD-70 | SMRD-70-GW041811 | Cs-137 | Suspended | -0.2 U | 0.77 | 0.23 | SMDUP-09-GW041811Q | Cs-137 | Suspended | 0.001 U | 0.47 | 0.13 |
| RD-70 | SMRD-70-GW041811 | Eu-152 | Filtered | -0.28 U | 3.1 | 0.9 | SMDUP-09-GW041811Q | Eu-152 | Filtered | -0.02 U | 3.8 | 1.1 |
| RD-70 | SMRD-70-GW041811 | Eu-152 | Suspended | 0.07 U | 1.7 | 0.5 | SMDUP-09-GW041811Q | Eu-152 | Suspended | 0.16 U | 1.2 | 0.35 |
| RD-70 | SMRD-70-GW041811 | Eu-154 | Filtered | 1.2 U | 8.4 | 2.4 | SMDUP-09-GW041811Q | Eu-154 | Filtered | 0.6 U | 11 | 3.1 |
| RD-70 | SMRD-70-GW041811 | Eu-154 | Suspended | 0.9 U | 5 | 1.5 | SMDUP-09-GW041811Q | Eu-154 | Suspended | 0.1 U | 3.9 | 1.1 |
| RD-70 | SMRD-70-GW041811 | Eu-155 | Filtered | 0.008 U | 3.3 | 0.97 | SMDUP-09-GW041811Q | Eu-155 | Filtered | 0.9 U | 2.9 | 0.86 |
| RD-70 | SMRD-70-GW041811 | Eu-155 | Suspended | 0.22 U | 1.1 | 0.34 | SMDUP-09-GW041811Q | Eu-155 | Suspended | 0.23 U | 0.98 | 0.29 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-70 | SMRD-70-GW041811 | gross_alpha | Suspended | 0.22 U | 0.5 | 0.15 | SMDUP-09-GW041811Q | gross_alpha | Suspended | 0.23 U | 0.58 | 0.17 |
| RD-70 | SMRD-70-GW041811 | gross_beta | Filtered | 2.57 | 1.8 | 0.63 | SMDUP-09-GW041811Q | gross_beta | Filtered | 4.31 | 2.4 | 0.86 |
| RD-70 | SMRD-70-GW041811 | gross_beta | Suspended | 0.31 U | 0.93 | 0.28 | SMDUP-09-GW041811Q | gross_beta | Suspended | 0.58 | 0.88 | 0.28 |
| RD-70 | SMRD-70-GW041811 | H-3 | Total | -4 U | 240 | 69 | SMDUP-09-GW041811Q | H-3 | Total | -12 U | 150 | 45 |
| RD-70 | SMRD-70-GW041811 | Ho-166m | Filtered | 0.53 U | 1.8 | 0.53 | SMDUP-09-GW041811Q | Ho-166m | Filtered | -0.76 U | 2.3 | 0.68 |
| RD-70 | SMRD-70-GW041811 | Ho-166m | Suspended | 0.317 U | 1.2 | 0.08 | SMDUP-09-GW041811Q | Ho-166m | Suspended | 0.04 U | 0.86 | 0.25 |
| RD-70 | SMRD-70-GW041811 | K-40 | Filtered | -10.8 U | 19 | 9 | SMDUP-09-GW041811Q | K-40 | Filtered | -8 U | 24 | 14 |
| RD-70 | SMRD-70-GW041811 | K-40 | Suspended | 4 U | 11 | 3.8 | SMDUP-09-GW041811Q | K-40 | Suspended | -2.8 U | 8.8 | 3.2 |
| RD-70 | SMRD-70-GW041811 | Na-22 | Filtered | -0.19 U | 1.2 | 0.34 | SMDUP-09-GW041811Q | Na-22 | Filtered | 0 U | 1.4 | 0.38 |
| RD-70 | SMRD-70-GW041811 | Na-22 | Suspended | -0.02 U | 0.8 | 0.23 | SMDUP-09-GW041811Q | Na-22 | Suspended | 0.1 U | 0.65 | 0.19 |
| RD-70 | SMRD-70-GW041811 | Nb-94 | Filtered | 0.11 U | 1.1 | 0.31 | SMDUP-09-GW041811Q | Nb-94 | Filtered | -0.15 U | 1.3 | 0.38 |
| RD-70 | SMRD-70-GW041811 | Nb-94 | Suspended | -0.06 U | 0.59 | 0.17 | SMDUP-09-GW041811Q | Nb-94 | Suspended | 0.001 U | 0.53 | 0.15 |
| RD-70 | SMRD-70-GW041811 | Np-236 | Filtered | -0.03 U | 2.2 | 0.65 | SMDUP-09-GW041811Q | Np-236 | Filtered | -0.35 U | 3 | 0.9 |
| RD-70 | SMRD-70-GW041811 | Np-236 | Suspended | 0.07 U | 1.1 | 0.34 | SMDUP-09-GW041811Q | Np-236 | Suspended | 0.17 U | 0.98 | 0.29 |
| RD-70 | SMRD-70-GW041811 | Np-239 | Filtered | 1.3 U | 7.2 | 2.1 | SMDUP-09-GW041811Q | Np-239 | Filtered | -0.5 U | 6.4 | 1.9 |
| RD-70 | SMRD-70-GW041811 | Np-239 | Suspended | -0.1 U | 4.1 | 1.2 | SMDUP-09-GW041811Q | Np-239 | Suspended | 0.08 U | 2.5 | 0.72 |
| RD-70 | SMRD-70-GW041811 | Pa-231 | Filtered | 16 U | 51 | 15 | SMDUP-09-GW041811Q | Pa-231 | Filtered | -0.2 U | 57 | 16 |
| RD-70 | SMRD-70-GW041811 | Pa-231 | Suspended | -1.5 U | 27 | 8.1 | SMDUP-09-GW041811Q | Pa-231 | Suspended | -0.1 U | 20 | 5.9 |
| RD-70 | SMRD-70-GW041811 | Pb-212 | Filtered | 0.38 U | 2.1 | 0.58 | SMDUP-09-GW041811Q | Pb-212 | Filtered | 0.84 U | 2.1 | 0.59 |
| RD-70 | SMRD-70-GW041811 | Pb-212 | Suspended | 0.24 U | 1.1 | 0.38 | SMDUP-09-GW041811Q | Pb-212 | Suspended | 0.12 U | 0.58 | 0.18 |
| RD-70 | SMRD-70-GW041811 | Pb-214 | Filtered | 0.37 U | 2.5 | 0.94 | SMDUP-09-GW041811Q | Pb-214 | Filtered | 1 U | 3.2 | 1.1 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|--------|--------|-----------------------|--------------|-----------------|-----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| RD-70 | SMRD-70-GW041811 | Pb-214 | Suspended | 0.36 U | 1.6 | 0.63 | SMDUP-09-GW041811Q | Pb-214 | Suspended | 0.37 U | 0.99 | 0.38 |
| RD-70 | SMRD-70-GW041811 | Sb-125 | Filtered | 2.7 U | 12 | 3.7 | SMDUP-09-GW041811Q | Sb-125 | Filtered | 0.2 U | 13 | 3.9 |
| RD-70 | SMRD-70-GW041811 | Sb-125 | Suspended | -0.2 U | 5.6 | 1.7 | SMDUP-09-GW041811Q | Sb-125 | Suspended | -1.7 U | 4.5 | 1.4 |
| RD-70 | SMRD-70-GW041811 | Sn-126 | Filtered | 0.26 U | 1.2 | 0.35 | SMDUP-09-GW041811Q | Sn-126 | Filtered | 0.29 U | 1.6 | 0.45 |
| RD-70 | SMRD-70-GW041811 | Sn-126 | Suspended | 0.35 U | 0.75 | 0.23 | SMDUP-09-GW041811Q | Sn-126 | Suspended | 0.22 U | 0.63 | 0.19 |
| RD-70 | SMRD-70-GW041811 | Tl-208 | Filtered | 0.26 U | 1.2 | 0.37 | SMDUP-09-GW041811Q | Tl-208 | Filtered | 0.8 | 1.5 | 0.49 |
| RD-70 | SMRD-70-GW041811 | Tl-208 | Suspended | 0.46 | 0.63 | 0.22 | SMDUP-09-GW041811Q | Tl-208 | Suspended | 0.43 | 0.48 | 0.19 |
| RD-70 | SMRD-70-GW041811 | Tm-171 | Filtered | 90 U | 340 | 100 | SMDUP-09-GW041811Q | Tm-171 | Filtered | -40 U | 340 | 100 |
| RD-70 | SMRD-70-GW041811 | Tm-171 | Suspended | 7 U | 110 | 34 | SMDUP-09-GW041811Q | Tm-171 | Suspended | 42 | 78 | 24 |
| RD-70 | SMRD-70-GW041811 | U-233/234 | Filtered | 1.42 | 0.006 | 0.081 | SMDUP-09-GW041811Q | U-233/234 | Filtered | 1.55 | 0.006 | 0.088 |
| RD-70 | SMRD-70-GW041811 | U-233/234 | Suspended | 0.0095 | 0.013 | 0.0067 | SMDUP-09-GW041811Q | U-233/234 | Suspended | 0.0123 | 0.019 | 0.0079 |
| RD-70 | SMRD-70-GW041811 | U-235/236 | Filtered | 0.067 | 0.007 | 0.013 | SMDUP-09-GW041811Q | U-235/236 | Filtered | 0.052 | 0.007 | 0.012 |
| RD-70 | SMRD-70-GW041811 | U-235/236 | Suspended | 0.0029 U | 0.016 | 0.004 | SMDUP-09-GW041811Q | U-235/236 | Suspended | 0.0029 U | 0.016 | 0.004 |
| RD-70 | SMRD-70-GW041811 | U-238 | Filtered | 1.13 | 0.014 | 0.068 | SMDUP-09-GW041811Q | U-238 | Filtered | 1.18 | 0.015 | 0.071 |
| RD-70 | SMRD-70-GW041811 | U-238 | Suspended | 0.002 U | 0.0053 | 0.0044 | SMDUP-09-GW041811Q | U-238 | Suspended | -0.0019 U | 0.0053 | 0.0034 |
| WS-07 | SMWS-07-GW041911 | Ac-227 | Filtered | -1 U | 9.9 | 2.9 | SMDUP-10-GW041911 | Ac-227 | Filtered | -4 U | 8.9 | 2.7 |
| WS-07 | SMWS-07-GW041911 | Ac-227 | Suspended | 0.06 U | 5.2 | 1.5 | SMDUP-10-GW041911 | Ac-227 | Suspended | 0.1 U | 5.9 | 1.7 |
| WS-07 | SMWS-07-GW041911 | Ac-228 | Filtered | 3.5 | 5.1 | 1.6 | SMDUP-10-GW041911 | Ac-228 | Filtered | 2.8 | 3.7 | 1.2 |
| WS-07 | SMWS-07-GW041911 | Ac-228 | Suspended | -0.8 U | 3.2 | 1.4 | SMDUP-10-GW041911 | Ac-228 | Suspended | 1.11 | 2.4 | 0.84 |
| WS-07 | SMWS-07-GW041911 | Bi-212 | Filtered | 4.9 U | 11 | 3.3 | SMDUP-10-GW041911 | Bi-212 | Filtered | -0.3 U | 8.9 | 2.7 |
| WS-07 | SMWS-07-GW041911 | Bi-212 | Suspended | 3.4 | 5.3 | 1.6 | SMDUP-10-GW041911 | Bi-212 | Suspended | 0.8 U | 5.2 | 1.5 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|------|-----------------------|--------------|-----------------|----------|-------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| WS-07 | SMWS-07-GW041911 | Bi-214 | Filtered | 1.1 U | 3.7 | 1 | SMDUP-10-GW041911 | Bi-214 | Filtered | 0.17 U | 2.6 | 0.83 |
| WS-07 | SMWS-07-GW041911 | Bi-214 | Suspended | 0.91 | 1.7 | 0.61 | SMDUP-10-GW041911 | Bi-214 | Suspended | 0.55 U | 1.8 | 0.71 |
| WS-07 | SMWS-07-GW041911 | Cd-113m | Filtered | 4600 U | 16000 | 4900 | SMDUP-10-GW041911 | Cd-113m | Filtered | -2100 U | 14000 | 4100 |
| WS-07 | SMWS-07-GW041911 | Cd-113m | Suspended | 700 U | 7100 | 2100 | SMDUP-10-GW041911 | Cd-113m | Suspended | 2300 U | 7500 | 2300 |
| WS-07 | SMWS-07-GW041911 | Co-60 | Filtered | 0.36 U | 1.4 | 0.42 | SMDUP-10-GW041911 | Co-60 | Filtered | 0.04 U | 1.1 | 0.32 |
| WS-07 | SMWS-07-GW041911 | Co-60 | Suspended | -0.02 U | 0.57 | 0.16 | SMDUP-10-GW041911 | Co-60 | Suspended | -0.2 U | 0.82 | 0.24 |
| WS-07 | SMWS-07-GW041911 | Cs-134 | Filtered | -0.66 U | 1.8 | 0.54 | SMDUP-10-GW041911 | Cs-134 | Filtered | -0.31 U | 1.2 | 0.36 |
| WS-07 | SMWS-07-GW041911 | Cs-134 | Suspended | 0.21 U | 0.72 | 0.22 | SMDUP-10-GW041911 | Cs-134 | Suspended | -0.19 U | 0.84 | 0.25 |
| WS-07 | SMWS-07-GW041911 | Cs-137 | Filtered | -0.03 U | 1.4 | 0.4 | SMDUP-10-GW041911 | Cs-137 | Filtered | -0.03 U | 1.1 | 0.31 |
| WS-07 | SMWS-07-GW041911 | Cs-137 | Suspended | 0.21 U | 0.76 | 0.23 | SMDUP-10-GW041911 | Cs-137 | Suspended | 0.2 U | 0.76 | 0.23 |
| WS-07 | SMWS-07-GW041911 | Eu-152 | Filtered | 1 U | 4.3 | 1.3 | SMDUP-10-GW041911 | Eu-152 | Filtered | 0.4 U | 3 | 0.9 |
| WS-07 | SMWS-07-GW041911 | Eu-152 | Suspended | -0.19 U | 1.9 | 0.55 | SMDUP-10-GW041911 | Eu-152 | Suspended | -0.4 U | 1.9 | 0.55 |
| WS-07 | SMWS-07-GW041911 | Eu-154 | Filtered | 0.9 U | 11 | 3.2 | SMDUP-10-GW041911 | Eu-154 | Filtered | 1 U | 7.5 | 2.2 |
| WS-07 | SMWS-07-GW041911 | Eu-154 | Suspended | 2.8 | 6 | 1.8 | SMDUP-10-GW041911 | Eu-154 | Suspended | 0.5 U | 6 | 1.7 |
| WS-07 | SMWS-07-GW041911 | Eu-155 | Filtered | -1.5 U | 5 | 1.5 | SMDUP-10-GW041911 | Eu-155 | Filtered | 1.55 SK | 3 | 0.9 |
| WS-07 | SMWS-07-GW041911 | Eu-155 | Suspended | 0.33 U | 1.4 | 0.42 | SMDUP-10-GW041911 | Eu-155 | Suspended | 0.16 U | 1.1 | 0.33 |
| WS-07 | SMWS-07-GW041911 | gross_alpha | Filtered | 2.82 | 0.48 | 0.33 | SMDUP-10-GW041911 | gross_alpha | Filtered | 2.66 | 0.92 | 0.43 |
| WS-07 | SMWS-07-GW041911 | gross_alpha | Suspended | 0.38 | 0.59 | 0.19 | SMDUP-10-GW041911 | gross_alpha | Suspended | 0.51 | 0.54 | 0.19 |
| WS-07 | SMWS-07-GW041911 | gross_beta | Filtered | 5.2 | 2.8 | 1 | SMDUP-10-GW041911 | gross_beta | Filtered | 3.28 | 2.9 | 0.996 |
| WS-07 | SMWS-07-GW041911 | gross_beta | Suspended | -0.17 U | 0.82 | 0.23 | SMDUP-10-GW041911 | gross_beta | Suspended | 0.37 U | 0.79 | 0.25 |
| WS-07 | SMWS-07-GW041911 | H-3 | Total | -12 U | 150 | 45 | SMDUP-10-GW041911 | H-3 | Total | -75 U | 160 | 45 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| WS-07 | SMWS-07-GW041911 | Ho-166m | Filtered | -0.12 U | 2.5 | 0.71 | SMDUP-10-GW041911 | Ho-166m | Filtered | -0.07 U | 2 | 0.57 |
| WS-07 | SMWS-07-GW041911 | Ho-166m | Suspended | 0.4 U | 1.2 | 0.36 | SMDUP-10-GW041911 | Ho-166m | Suspended | 0.21 U | 1.2 | 0.34 |
| WS-07 | SMWS-07-GW041911 | K-40 | Filtered | -9 U | 21 | 19 | SMDUP-10-GW041911 | K-40 | Filtered | 14.8 | 15 | 5 |
| WS-07 | SMWS-07-GW041911 | K-40 | Suspended | 7.9 | 12 | 3.2 | SMDUP-10-GW041911 | K-40 | Suspended | 3.8 U | 11 | 4 |
| WS-07 | SMWS-07-GW041911 | Na-22 | Filtered | -0.03 U | 1.6 | 0.45 | SMDUP-10-GW041911 | Na-22 | Filtered | -0.21 U | 1.3 | 0.37 |
| WS-07 | SMWS-07-GW041911 | Na-22 | Suspended | 0.06 U | 0.69 | 0.2 | SMDUP-10-GW041911 | Na-22 | Suspended | 0.07 U | 0.75 | 0.21 |
| WS-07 | SMWS-07-GW041911 | Nb-94 | Filtered | 0 U | 1.6 | 0.47 | SMDUP-10-GW041911 | Nb-94 | Filtered | 0.39 U | 0.95 | 0.29 |
| WS-07 | SMWS-07-GW041911 | Nb-94 | Suspended | -0.11 U | 0.56 | 0.16 | SMDUP-10-GW041911 | Nb-94 | Suspended | -0.17 U | 0.64 | 0.19 |
| WS-07 | SMWS-07-GW041911 | Np-236 | Filtered | -0.01 U | 3.6 | 1.1 | SMDUP-10-GW041911 | Np-236 | Filtered | 0.01 U | 2.7 | 0.81 |
| WS-07 | SMWS-07-GW041911 | Np-236 | Suspended | 0.02 U | 1.2 | 0.36 | SMDUP-10-GW041911 | Np-236 | Suspended | 0.54 U | 1.1 | 0.34 |
| WS-07 | SMWS-07-GW041911 | Np-239 | Filtered | 1 U | 8.9 | 2.6 | SMDUP-10-GW041911 | Np-239 | Filtered | 1.3 U | 7.3 | 2.2 |
| WS-07 | SMWS-07-GW041911 | Np-239 | Suspended | 0.6 U | 3.8 | 1.1 | SMDUP-10-GW041911 | Np-239 | Suspended | 0.5 U | 3.8 | 1.1 |
| WS-07 | SMWS-07-GW041911 | Pa-231 | Filtered | -2 U | 61 | 18 | SMDUP-10-GW041911 | Pa-231 | Filtered | -2 U | 41 | 12 |
| WS-07 | SMWS-07-GW041911 | Pa-231 | Suspended | -2.5 U | 26 | 7.6 | SMDUP-10-GW041911 | Pa-231 | Suspended | 2.6 U | 26 | 7.8 |
| WS-07 | SMWS-07-GW041911 | Pb-212 | Filtered | 1.02 U | 2.8 | 0.79 | SMDUP-10-GW041911 | Pb-212 | Filtered | 1.6 | 2.6 | 1 |
| WS-07 | SMWS-07-GW041911 | Pb-212 | Suspended | 0.24 U | 1.2 | 0.4 | SMDUP-10-GW041911 | Pb-212 | Suspended | 0.36 U | 1.1 | 0.36 |
| WS-07 | SMWS-07-GW041911 | Pb-214 | Filtered | 1.46 U | 3.1 | 0.94 | SMDUP-10-GW041911 | Pb-214 | Filtered | 0.69 U | 2.8 | 0.77 |
| WS-07 | SMWS-07-GW041911 | Pb-214 | Suspended | 1.25 | 1.4 | 0.53 | SMDUP-10-GW041911 | Pb-214 | Suspended | 0.02 U | 1.5 | 0.51 |
| WS-07 | SMWS-07-GW041911 | Sb-125 | Filtered | 3.9 U | 16 | 4.9 | SMDUP-10-GW041911 | Sb-125 | Filtered | 4 U | 11 | 3.4 |
| WS-07 | SMWS-07-GW041911 | Sb-125 | Suspended | 1.8 U | 6 | 1.8 | SMDUP-10-GW041911 | Sb-125 | Suspended | 1.4 U | 5.4 | 1.6 |
| WS-07 | SMWS-07-GW041911 | Sn-126 | Filtered | 0.4 U | 1.6 | 0.46 | SMDUP-10-GW041911 | Sn-126 | Filtered | -0.01 U | 1.3 | 0.38 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|-------|--------|-----------------------|--------------|-----------------|-----------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| WS-07 | SMWS-07-GW041911 | Sn-126 | Suspended | -0.05 U | 0.89 | 0.26 | SMDUP-10-GW041911 | Sn-126 | Suspended | 0.28 U | 0.84 | 0.25 |
| WS-07 | SMWS-07-GW041911 | Sr-90 | Filtered | 0 U | 0.15 | 0.044 | SMDUP-10-GW041911 | Sr-90 | Filtered | 0.082 | 0.1 | 0.032 |
| WS-07 | SMWS-07-GW041911 | Tl-208 | Filtered | 1.1 | 1.3 | 0.41 | SMDUP-10-GW041911 | Tl-208 | Filtered | 0.09 U | 1.2 | 0.34 |
| WS-07 | SMWS-07-GW041911 | Tl-208 | Suspended | 0.14 U | 0.72 | 0.22 | SMDUP-10-GW041911 | Tl-208 | Suspended | 0.39 | 0.78 | 0.22 |
| WS-07 | SMWS-07-GW041911 | Tm-171 | Filtered | -190 U | 740 | 220 | SMDUP-10-GW041911 | Tm-171 | Filtered | -70 U | 330 | 98 |
| WS-07 | SMWS-07-GW041911 | Tm-171 | Suspended | 20 U | 120 | 35 | SMDUP-10-GW041911 | Tm-171 | Suspended | 1 U | 120 | 35 |
| WS-07 | SMWS-07-GW041911 | U-233/234 | Filtered | 1.19 | 0.014 | 0.071 | SMDUP-10-GW041911 | U-233/234 | Filtered | 1.25 | 0.014 | 0.074 |
| WS-07 | SMWS-07-GW041911 | U-233/234 | Suspended | -0.003 U | 0.022 | 0.0066 | SMDUP-10-GW041911 | U-233/234 | Suspended | -0.0032 U | 0.021 | 0.0063 |
| WS-07 | SMWS-07-GW041911 | U-235/236 | Filtered | 0.052 | 0.007 | 0.012 | SMDUP-10-GW041911 | U-235/236 | Filtered | 0.059 | 0.007 | 0.013 |
| WS-07 | SMWS-07-GW041911 | U-235/236 | Suspended | -0.0021 U | 0.018 | 0.0021 | SMDUP-10-GW041911 | U-235/236 | Suspended | 0 U | 0.0068 | 0.002 |
| WS-07 | SMWS-07-GW041911 | U-238 | Filtered | 0.958 | 0.006 | 0.06 | SMDUP-10-GW041911 | U-238 | Filtered | 0.97 | 0.006 | 0.061 |
| WS-07 | SMWS-07-GW041911 | U-238 | Suspended | 0.0011 U | 0.018 | 0.0057 | SMDUP-10-GW041911 | U-238 | Suspended | 0.0101 | 0.0055 | 0.0061 |
| OS-3 | SOOS-03-GW042111 | Ac-227 | Filtered | -3.4 U | 9.1 | 2.7 | SMDUP-11-GW042111Q | Ac-227 | Filtered | -3.7 U | 9.5 | 2.9 |
| OS-3 | SOOS-03-GW042111 | Ac-227 | Suspended | -0.08 U | 4.3 | 1.3 | SMDUP-11-GW042111Q | Ac-227 | Suspended | -2.3 U | 4.7 | 1.4 |
| OS-3 | SOOS-03-GW042111 | Ac-228 | Filtered | 4.4 | 4.4 | 1.5 | SMDUP-11-GW042111Q | Ac-228 | Filtered | 3 | 4.6 | 1.4 |
| OS-3 | SOOS-03-GW042111 | Ac-228 | Suspended | 1.75 | 2.5 | 0.79 | SMDUP-11-GW042111Q | Ac-228 | Suspended | -0.05 U | 3 | 0.8 |
| OS-3 | SOOS-03-GW042111 | Bi-212 | Filtered | 0.2 U | 9.2 | 2.6 | SMDUP-11-GW042111Q | Bi-212 | Filtered | 3.5 U | 9.8 | 2.9 |
| OS-3 | SOOS-03-GW042111 | Bi-212 | Suspended | 3.8 | 5.2 | 1.6 | SMDUP-11-GW042111Q | Bi-212 | Suspended | 2.2 U | 5.7 | 1.7 |
| OS-3 | SOOS-03-GW042111 | Bi-214 | Filtered | 0.4 U | 3.7 | 1 | SMDUP-11-GW042111Q | Bi-214 | Filtered | -0.6 U | 3.5 | 1.9 |
| OS-3 | SOOS-03-GW042111 | Bi-214 | Suspended | 1.73 | 1.6 | 0.61 | SMDUP-11-GW042111Q | Bi-214 | Suspended | 1.36 | 1.8 | 0.74 |
| OS-3 | SOOS-03-GW042111 | Cd-113m | Filtered | 3500 U | 17000 | 5000 | SMDUP-11-GW042111Q | Cd-113m | Filtered | 4500 U | 15000 | 4600 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|------|------|-----------------------|--------------|-----------------|----------|------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| OS-3 | SOOS-03-GW042111 | Cd-113m | Suspended | 1800 U | 7700 | 2300 | SMDUP-11-GW042111Q | Cd-113m | Suspended | 600 U | 7200 | 2100 |
| OS-3 | SOOS-03-GW042111 | Co-60 | Filtered | 0.22 U | 1.6 | 0.46 | SMDUP-11-GW042111Q | Co-60 | Filtered | 0.06 U | 1.6 | 0.45 |
| OS-3 | SOOS-03-GW042111 | Co-60 | Suspended | -0.08 U | 0.82 | 0.23 | SMDUP-11-GW042111Q | Co-60 | Suspended | 0.1 U | 0.75 | 0.22 |
| OS-3 | SOOS-03-GW042111 | Cs-134 | Filtered | -0.33 U | 0.87 | 0.26 | SMDUP-11-GW042111Q | Cs-134 | Filtered | -0.36 U | 1.5 | 0.45 |
| OS-3 | SOOS-03-GW042111 | Cs-134 | Suspended | -0.008 U | 0.73 | 0.21 | SMDUP-11-GW042111Q | Cs-134 | Suspended | 0.24 U | 0.68 | 0.2 |
| OS-3 | SOOS-03-GW042111 | Cs-137 | Filtered | 0.04 U | 1.2 | 0.34 | SMDUP-11-GW042111Q | Cs-137 | Filtered | -0.09 U | 1.4 | 0.41 |
| OS-3 | SOOS-03-GW042111 | Cs-137 | Suspended | 0.04 U | 0.71 | 0.2 | SMDUP-11-GW042111Q | Cs-137 | Suspended | 0.0004 U | 0.72 | 0.21 |
| OS-3 | SOOS-03-GW042111 | Eu-152 | Filtered | -0.1 U | 4.2 | 1.2 | SMDUP-11-GW042111Q | Eu-152 | Filtered | 2.3 | 3.3 | 1 |
| OS-3 | SOOS-03-GW042111 | Eu-152 | Suspended | -0.13 U | 1.8 | 0.52 | SMDUP-11-GW042111Q | Eu-152 | Suspended | 0.11 U | 1.7 | 0.51 |
| OS-3 | SOOS-03-GW042111 | Eu-154 | Filtered | -1 U | 12 | 3.4 | SMDUP-11-GW042111Q | Eu-154 | Filtered | -2.9 U | 12 | 3.6 |
| OS-3 | SOOS-03-GW042111 | Eu-154 | Suspended | -1.1 U | 6.8 | 2 | SMDUP-11-GW042111Q | Eu-154 | Suspended | -0.08 U | 6.4 | 1.9 |
| OS-3 | SOOS-03-GW042111 | Eu-155 | Filtered | 0.54 U | 3 | 0.89 | SMDUP-11-GW042111Q | Eu-155 | Filtered | -0.6 U | 4.9 | 1.4 |
| OS-3 | SOOS-03-GW042111 | Eu-155 | Suspended | 0.15 U | 1.4 | 0.42 | SMDUP-11-GW042111Q | Eu-155 | Suspended | 0.32 U | 1.3 | 0.4 |
| OS-3 | SOOS-03-GW042111 | gross_alpha | Filtered | 0.52 | 0.37 | 0.15 | SMDUP-11-GW042111Q | gross_alpha | Filtered | 1.19 | 0.37 | 0.22 |
| OS-3 | SOOS-03-GW042111 | gross_alpha | Suspended | 1.13 | 1.5 | 0.51 | SMDUP-11-GW042111Q | gross_alpha | Suspended | 0.16 U | 0.44 | 0.13 |
| OS-3 | SOOS-03-GW042111 | gross_beta | Filtered | 4.34 | 2.6 | 0.94 | SMDUP-11-GW042111Q | gross_beta | Filtered | 4.48 | 1.7 | 0.73 |
| OS-3 | SOOS-03-GW042111 | gross_beta | Suspended | 0.25 U | 0.82 | 0.25 | SMDUP-11-GW042111Q | gross_beta | Suspended | 0.32 U | 0.75 | 0.23 |
| OS-3 | SOOS-03-GW042111 | H-3 | Total | -24 U | 170 | 50 | SMDUP-11-GW042111Q | H-3 | Total | 37 U | 140 | 42 |
| OS-3 | SOOS-03-GW042111 | Ho-166m | Filtered | -0.26 U | 2.2 | 0.62 | SMDUP-11-GW042111Q | Ho-166m | Filtered | -0.23 U | 2.3 | 0.65 |
| OS-3 | SOOS-03-GW042111 | Ho-166m | Suspended | -0.02 U | 1.2 | 0.34 | SMDUP-11-GW042111Q | Ho-166m | Suspended | 0.21 U | 1.1 | 0.31 |
| OS-3 | SOOS-03-GW042111 | K-40 | Filtered | 7.1 U | 18 | 4.7 | SMDUP-11-GW042111Q | K-40 | Filtered | -6 U | 20 | 10 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|----------|-------|-------|-----------------------|--------------|-----------------|----------|-------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| OS-3 | SOOS-03-GW042111 | K-40 | Suspended | 2.5 U | 10 | 2.4 | SMDUP-11-GW042111Q | K-40 | Suspended | 7.6 | 12 | 3.3 |
| OS-3 | SOOS-03-GW042111 | Na-22 | Filtered | 0.14 U | 1.6 | 0.45 | SMDUP-11-GW042111Q | Na-22 | Filtered | 0.29 U | 1.5 | 0.43 |
| OS-3 | SOOS-03-GW042111 | Na-22 | Suspended | -0.12 U | 0.91 | 0.26 | SMDUP-11-GW042111Q | Na-22 | Suspended | -0.05 U | 0.66 | 0.19 |
| OS-3 | SOOS-03-GW042111 | Nb-94 | Filtered | -0.16 U | 1.4 | 0.41 | SMDUP-11-GW042111Q | Nb-94 | Filtered | 0 U | 1.2 | 0.33 |
| OS-3 | SOOS-03-GW042111 | Nb-94 | Suspended | -0.13 U | 0.71 | 0.21 | SMDUP-11-GW042111Q | Nb-94 | Suspended | 0.21 U | 0.69 | 0.2 |
| OS-3 | SOOS-03-GW042111 | Np-236 | Filtered | 0.04 U | 3.2 | 0.94 | SMDUP-11-GW042111Q | Np-236 | Filtered | -0.7 U | 3.5 | 1.1 |
| OS-3 | SOOS-03-GW042111 | Np-236 | Suspended | 0.29 U | 1.3 | 0.4 | SMDUP-11-GW042111Q | Np-236 | Suspended | 0.4 U | 1.2 | 0.37 |
| OS-3 | SOOS-03-GW042111 | Np-239 | Filtered | -0.2 U | 8.4 | 2.5 | SMDUP-11-GW042111Q | Np-239 | Filtered | 0.6 U | 9.2 | 2.7 |
| OS-3 | SOOS-03-GW042111 | Np-239 | Suspended | 0.7 U | 3.9 | 1.1 | SMDUP-11-GW042111Q | Np-239 | Suspended | 0.4 U | 3.9 | 1.1 |
| OS-3 | SOOS-03-GW042111 | Pa-231 | Filtered | 20 U | 59 | 18 | SMDUP-11-GW042111Q | Pa-231 | Filtered | 1 U | 63 | 18 |
| OS-3 | SOOS-03-GW042111 | Pa-231 | Suspended | -0.7 U | 26 | 7.7 | SMDUP-11-GW042111Q | Pa-231 | Suspended | -7.3 U | 26 | 7.7 |
| OS-3 | SOOS-03-GW042111 | Pb-212 | Filtered | -0.36 U | 2.3 | 0.84 | SMDUP-11-GW042111Q | Pb-212 | Filtered | 0.89 U | 2.4 | 0.94 |
| OS-3 | SOOS-03-GW042111 | Pb-212 | Suspended | 0.55 U | 1.2 | 0.4 | SMDUP-11-GW042111Q | Pb-212 | Suspended | 0.41 U | 1.1 | 0.36 |
| OS-3 | SOOS-03-GW042111 | Pb-214 | Filtered | 0.82 U | 2.9 | 0.91 | SMDUP-11-GW042111Q | Pb-214 | Filtered | 2.4 | 2.8 | 0.88 |
| OS-3 | SOOS-03-GW042111 | Pb-214 | Suspended | 0.66 U | 1.4 | 0.51 | SMDUP-11-GW042111Q | Pb-214 | Suspended | 0.48 U | 1.6 | 0.44 |
| OS-3 | SOOS-03-GW042111 | Sb-125 | Filtered | -4.7 U | 13 | 4 | SMDUP-11-GW042111Q | Sb-125 | Filtered | -0.5 U | 15 | 4.5 |
| OS-3 | SOOS-03-GW042111 | Sb-125 | Suspended | 0.4 U | 6.1 | 1.8 | SMDUP-11-GW042111Q | Sb-125 | Suspended | -0.1 U | 5.5 | 1.6 |
| OS-3 | SOOS-03-GW042111 | Sn-126 | Filtered | -0.32 U | 1.5 | 0.44 | SMDUP-11-GW042111Q | Sn-126 | Filtered | 0.68 | 1.4 | 0.42 |
| OS-3 | SOOS-03-GW042111 | Sn-126 | Suspended | 0.31 U | 0.78 | 0.23 | SMDUP-11-GW042111Q | Sn-126 | Suspended | 0.27 U | 0.86 | 0.26 |
| OS-3 | SOOS-03-GW042111 | Sr-90 | Filtered | 0.009 U | 0.1 | 0.029 | SMDUP-11-GW042111Q | Sr-90 | Filtered | 0.022 U | 0.095 | 0.028 |
| OS-3 | SOOS-03-GW042111 | Sr-90 | Suspended | 0.029 U | 0.059 | 0.018 | SMDUP-11-GW042111Q | Sr-90 | Suspended | -0.028 U | 0.067 | 0.018 |

Table 4.2
Parent and Field Duplicate Results Summary
Phase II Groundwater Sampling

| Well ID | Parent Sample | | | | | | Field Duplicate | | | | | |
|---------|-----------------------|--------------|-----------------|-----------|--------|--------|-----------------------|--------------|-----------------|-----------|-------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU | Sample Identification | Analyte Name | Reporting Basis | Activity | MDC | TPU |
| OS-3 | SOOS-03-GW042111 | Tl-208 | Filtered | 0.06 U | 1.8 | 0.46 | SMDUP-11-GW042111Q | Tl-208 | Filtered | -0.5 U | 1.8 | 1.2 |
| OS-3 | SOOS-03-GW042111 | Tl-208 | Suspended | -0.1 U | 0.86 | 0.28 | SMDUP-11-GW042111Q | Tl-208 | Suspended | -0.17 U | 0.9 | 0.33 |
| OS-3 | SOOS-03-GW042111 | Tm-171 | Filtered | -5 U | 260 | 76 | SMDUP-11-GW042111Q | Tm-171 | Filtered | -650 L U | 710 | 220 |
| OS-3 | SOOS-03-GW042111 | Tm-171 | Suspended | -49 U | 130 | 40 | SMDUP-11-GW042111Q | Tm-171 | Suspended | 32 U | 120 | 36 |
| OS-3 | SOOS-03-GW042111 | U-233/234 | Filtered | 0.271 | 0.017 | 0.027 | SMDUP-11-GW042111Q | U-233/234 | Filtered | 0.224 | 0.013 | 0.024 |
| OS-3 | SOOS-03-GW042111 | U-233/234 | Suspended | -0.0001 U | 0.014 | 0.0053 | SMDUP-11-GW042111Q | U-233/234 | Suspended | -0.0022 U | 0.014 | 0.0049 |
| OS-3 | SOOS-03-GW042111 | U-235/236 | Filtered | 0 U | 0.0068 | 0.002 | SMDUP-11-GW042111Q | U-235/236 | Filtered | 0.0055 | 0.017 | 0.0047 |
| OS-3 | SOOS-03-GW042111 | U-235/236 | Suspended | 0 U | 0.0069 | 0.002 | SMDUP-11-GW042111Q | U-235/236 | Suspended | 0.0077 | 0.007 | 0.0045 |
| OS-3 | SOOS-03-GW042111 | U-238 | Filtered | 0.092 | 0.005 | 0.015 | SMDUP-11-GW042111Q | U-238 | Filtered | 0.088 | 0.005 | 0.014 |
| OS-3 | SOOS-03-GW042111 | U-238 | Suspended | -0.0055 U | 0.014 | 0.0033 | SMDUP-11-GW042111Q | U-238 | Suspended | 0.0068 | 0.014 | 0.0061 |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

ID - identification

MDC - minimum detectable concentration

TPU - total propagated uncertainty

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

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

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

U - Not considered detected. The associated number is the reported concentration.

Table 4.3
Rinsate and Source Results Summary
Phase I Groundwater Sampling

| Sample Type | Sample Identification | Reporting Basis | H-3 | | | U-233/234 | | | U-235/236 | | | U-238 | | |
|-------------|-----------------------|-----------------|----------|-----|-----|------------|-------|--------|-----------|-------|--------|-----------|-------|--------|
| | | | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU |
| Rinsate | SMRinsate-01-EB081910 | Filtered | 12 U | 140 | 41 | 0.017 | 0.03 | 0.013 | 0 U | 0.017 | 0.0023 | 0.006 U | 0.025 | 0.0089 |
| Source | SMSource-01-EB081910 | Filtered | -1 U | 140 | 41 | -0.00005 U | 0.046 | 0.012 | 0 U | 0.018 | 0.0024 | -0.0111 U | 0.041 | 0.0068 |
| Rinsate | SMRinsate-01-EB081910 | Suspended | -0.2 U | 12 | 3.2 | 0.024 | 0.025 | 0.013 | -0.0047 U | 0.038 | 0.0033 | 0.011 | 0.025 | 0.01 |
| Source | SMSource-01-EB081910 | Suspended | 9.3 | 12 | 4.1 | -0.0074 U | 0.035 | 0.0076 | 0.0037 U | 0.03 | 0.0063 | 0.0035 U | 0.029 | 0.0086 |
| Rinsate | SMRinsate-02-EB082310 | Filtered | -9 U | 140 | 40 | 0.032 | 0.043 | 0.017 | -0.0047 U | 0.038 | 0.0034 | -- | -- | -- |
| Source | SMSource-02-EB082310 | Filtered | -24 U | 130 | 40 | -0.00003 U | 0.046 | 0.012 | 0.018 | 0.017 | 0.011 | -- | -- | -- |
| Rinsate | SMRinsate-02-EB082310 | Suspended | 6.7 | 13 | 4.1 | 0.016 | 0.036 | 0.013 | 0 U | 0.018 | 0.0025 | 0.008 U | 0.036 | 0.011 |
| Source | SMSource-02-EB082310 | Suspended | 4.1 U | 13 | 3.7 | -0.0086 U | 0.029 | 0.0054 | -0.0022 U | 0.03 | 0.0022 | -0.0061 U | 0.029 | 0.0054 |
| Rinsate | SMRinsate-03-EB082510 | Filtered | 63 U | 130 | 40 | -0.0069 U | 0.038 | 0.0086 | 0 U | 0.016 | 0.0022 | 0.0022 U | 0.032 | 0.009 |
| Source | SMSource-03-EB082510 | Filtered | 75 | 130 | 40 | 0.01 | 0.029 | 0.011 | 0 U | 0.016 | 0.0022 | 0.021 | 0.013 | 0.012 |
| Rinsate | SMRinsate-03-EB082510 | Suspended | -3.5 U | 20 | 4.7 | -0.0086 U | 0.033 | 0.0062 | -0.0026 U | 0.035 | 0.0026 | -0.0005 U | 0.033 | 0.0083 |
| Source | SMSource-03-EB082510 | Suspended | -2.6 U | 17 | 4.1 | 0.0017 U | 0.031 | 0.0092 | 0 U | 0.017 | 0.0024 | 0.001 U | 0.026 | 0.0074 |
| Rinsate | SMRinsate-04-EB082510 | Filtered | 35 U | 140 | 41 | 0.018 K | 0.041 | 0.013 | -0.005 U | 0.034 | 0.0035 | 0.034 | 0.041 | 0.015 |
| Source | SMSource-04-EB082510 | Filtered | 46 U | 140 | 41 | 0.0065 U | 0.024 | 0.0065 | -0.0054 U | 0.036 | 0.0038 | 0.0086 | 0.012 | 0.0061 |
| Rinsate | SMRinsate-05-EB082710 | Filtered | 15 U | 140 | 43 | -0.004 U | 0.043 | 0.01 | 0.0068 U | 0.018 | 0.0068 | -0.0007 U | 0.033 | 0.0082 |
| Source | SMSource-05-EB082710 | Filtered | 57 U | 130 | 40 | 0.024 K | 0.015 | 0.014 | 0 U | 0.019 | 0.0026 | 0.032 K | 0.015 | 0.015 |
| Rinsate | SMRinsate-05-EB082710 | Suspended | -- | -- | -- | 0.03 | 0.027 | 0.015 | -0.0025 U | 0.033 | 0.0025 | 0.014 K | 0.014 | 0.01 |
| Source | SMSource-05-EB082710 | Suspended | -- | -- | -- | -0.0084 U | 0.032 | 0.006 | -0.0049 U | 0.04 | 0.0035 | -0.0046 U | 0.039 | 0.0084 |
| Rinsate | SMRinsate-06-EB082710 | Filtered | 12 U | 140 | 41 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-06-EB082710 | Filtered | 13 U | 130 | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table 4.3
Rinsate and Source Results Summary
Phase I Groundwater Sampling

| Sample Type | Sample Identification | Reporting Basis | H-3 | | | U-233/234 | | | U-235/236 | | | U-238 | | |
|-------------|-----------------------|-----------------|----------|-----|-----|------------|-------|--------|-----------|-------|--------|-----------|-------|--------|
| | | | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU |
| Rinsate | SMRinsate-06-EB082710 | Suspended | -- | -- | -- | 0.003 U | 0.046 | 0.013 | -0.0007 U | 0.04 | 0.007 | 0.025 K | 0.032 | 0.014 |
| Source | SMSource-06-EB082710 | Suspended | -- | -- | -- | -0.00006 U | 0.013 | 0.0068 | 0.006 U | 0.016 | 0.006 | -0.0024 U | 0.013 | 0.0048 |
| Rinsate | SMRinsate-07-EB082710 | Filtered | 83 | 130 | 41 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-07-EB082710 | Filtered | 94 | 130 | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-07-EB082710 | Suspended | -- | -- | -- | 0.013 | 0.025 | 0.011 | 0.0016 U | 0.038 | 0.0071 | 0.0027 U | 0.014 | 0.0071 |
| Source | SMSource-07-EB082710 | Suspended | -- | -- | -- | -0.013 U | 0.044 | 0.0085 | -0.0046 U | 0.037 | 0.0033 | -0.0104 U | 0.044 | 0.0085 |
| Rinsate | SMRinsate-08-EB083010 | Filtered | -13 U | 180 | 52 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-08-EB083010 | Filtered | -40 U | 160 | 46 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-08-EB083010 | Suspended | -- | -- | -- | 0.017 | 0.036 | 0.013 | 0.0061 U | 0.016 | 0.0061 | 0.006 U | 0.033 | 0.01 |
| Source | SMSource-08-EB083010 | Suspended | -- | -- | -- | 0.017 | 0.032 | 0.013 | -0.0022 U | 0.029 | 0.0022 | 0.0049 U | 0.023 | 0.0082 |
| Rinsate | SMRinsate-09-EB083110 | Filtered | 68 | 130 | 39 | 0.022 K | 0.025 | 0.013 | 0.0015 U | 0.037 | 0.0068 | 0.008 U | 0.029 | 0.01 |
| Source | SMSource-09-EB083110 | Filtered | 78 | 120 | 38 | 0.017 K | 0.031 | 0.013 | 0 U | 0.017 | 0.0024 | 0.0044 U | 0.031 | 0.0093 |
| Rinsate | SMRinsate-09-EB083110 | Suspended | -- | -- | -- | -0.0127 U | 0.042 | 0.0081 | 0.0015 U | 0.035 | 0.0066 | -0.0055 U | 0.042 | 0.0093 |
| Source | SMSource-09-EB083110 | Suspended | -- | -- | -- | -0.0045 U | 0.037 | 0.0089 | 0.0116 | 0.016 | 0.0082 | -0.0078 U | 0.032 | 0.0055 |
| Rinsate | SMRinsate-10-EB083110 | Filtered | -- | -- | -- | 0.024 K | 0.026 | 0.014 | 0.0064 U | 0.017 | 0.0064 | 0.008 K | 0.014 | 0.0089 |
| Source | SMSource-10-EB083110 | Filtered | -- | -- | -- | 0.01 K | 0.029 | 0.011 | 0 U | 0.016 | 0.0022 | 0.007 K | 0.013 | 0.0083 |
| Rinsate | SMRinsate-10-EB083110 | Suspended | -- | -- | -- | -0.00192 U | 0.039 | 0.01 | -0.0046 U | 0.037 | 0.0032 | -0.0073 U | 0.033 | 0.006 |
| Source | SMSource-10-EB083110 | Suspended | -- | -- | -- | -0.004 U | 0.029 | 0.0071 | 0 U | 0.016 | 0.0022 | -0.0026 U | 0.013 | 0.0047 |
| Rinsate | SMRinsate-11-EB083110 | Filtered | -- | -- | -- | 0.01 U | 0.034 | 0.012 | 0.0079 U | 0.038 | 0.0095 | -0.0023 U | 0.014 | 0.005 |
| Source | SMSource-11-EB083110 | Filtered | -- | -- | -- | 0.022 K | 0.031 | 0.014 | 0.0064 U | 0.017 | 0.0064 | -0.0042 U | 0.026 | 0.0055 |

Table 4.3
Rinsate and Source Results Summary
Phase I Groundwater Sampling

| Sample Type | Sample Identification | Reporting Basis | H-3 | | | U-233/234 | | | U-235/236 | | | U-238 | | |
|-------------|-----------------------|-----------------|----------|-----|-----|-----------|-------|--------|-----------|-------|--------|-----------|--------|--------|
| | | | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU |
| Rinsate | SMRinsate-11-EB083110 | Suspended | -- | -- | -- | 0.012 U | 0.046 | 0.014 | 0.0051 U | 0.039 | 0.009 | 0.025 | 0.032 | 0.014 |
| Source | SMSource-11-EB083110 | Suspended | -- | -- | -- | 0.014 | 0.013 | 0.011 | 0 U | 0.016 | 0.0023 | -0.0025 U | 0.013 | 0.0049 |
| Rinsate | SMRinsate-12-EB090210 | Filtered | 58 U | 130 | 39 | 0.01 | 0.026 | 0.01 | 0.0098 | 0.013 | 0.0069 | 0.03 | 0.022 | 0.013 |
| Source | SMSource-12-EB090210 | Filtered | 33 U | 130 | 39 | 0.014 | 0.028 | 0.011 | 0 U | 0.031 | 0.0055 | 0.0109 | 0.0098 | 0.0081 |
| Rinsate | SMRinsate-12-EB090210 | Suspended | -- | -- | -- | 0.004 U | 0.04 | 0.011 | -0.0048 U | 0.032 | 0.0034 | -0.0016 U | 0.029 | 0.0075 |
| Source | SMSource-12-EB090210 | Suspended | -- | -- | -- | -0.0098 U | 0.029 | 0.0059 | 0.0021 U | 0.024 | 0.0048 | 0.003 U | 0.023 | 0.0073 |
| Rinsate | SMRinsate-13-EB090110 | Filtered | 19 U | 140 | 42 | -0.0017 U | 0.034 | 0.0073 | 0.0063 U | 0.023 | 0.0063 | 0.0134 | 0.028 | 0.0089 |
| Source | SMSource-13-EB090110 | Filtered | 14 U | 140 | 42 | -0.0038 U | 0.04 | 0.0084 | 0.014 | 0.013 | 0.0081 | 0.0037 U | 0.025 | 0.0059 |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

-- result was rejected during data validation and was not used in the Z-score analysis.

MDC - minimum detectable concentration

TPU - total propagated uncertainty

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

U - Not considered detected. The associated number is the reported concentration.

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

| Sample Type | Sample Identification | Reporting Basis | H-3 | | | U-233/234 | | | U-235/236 | | | U-238 | | |
|-------------|-----------------------|-----------------|----------|-----|-----|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|
| | | | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU |
| Rinsate | SMRinsate-01-EB031711 | Filtered | -- | -- | -- | 0.0053 | 0.012 | 0.0057 | 0 U | 0.0062 | 0.0018 | 0.0037 U | 0.0049 | 0.0045 |
| Source | SMSource-01-EB031711 | Filtered | -- | -- | -- | -0.0028 U | 0.018 | 0.0054 | 0 U | 0.0064 | 0.0019 | 0.0008 U | 0.013 | 0.0045 |
| Rinsate | SMRinsate-01-EB031711 | Suspended | -- | -- | -- | -0.0038 U | 0.014 | 0.0044 | 0.0043 U | 0.0059 | 0.0031 | 0.005 | 0.0047 | 0.0046 |
| Source | SMSource-01-EB031711 | Suspended | -- | -- | -- | 0.0156 | 0.016 | 0.0075 | 0 U | 0.0058 | 0.0017 | 0.0118 | 0.0046 | 0.0057 |
| Rinsate | SMRinsate-01-EB031711 | Total | 51 U | 140 | 42 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-01-EB031711 | Total | 82 | 140 | 42 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-02-EB031711 | Filtered | -- | -- | -- | 0.0038 U | 0.012 | 0.0055 | 0.0046 U | 0.0062 | 0.0033 | 0.0077 | 0.005 | 0.0052 |
| Source | SMSource-02-EB031711 | Filtered | -- | -- | -- | 0.0069 | 0.005 | 0.0055 | 0.0023 U | 0.0062 | 0.0023 | 0.0002 U | 0.0049 | 0.0037 |
| Rinsate | SMRinsate-02-EB031711 | Suspended | -- | -- | -- | 0.0035 U | 0.012 | 0.0053 | 0.0023 U | 0.0061 | 0.0023 | 0.011 | 0.0049 | 0.0057 |
| Source | SMSource-02-EB031711 | Suspended | -- | -- | -- | 0.0066 U | 0.02 | 0.007 | 0.0026 U | 0.015 | 0.0035 | -0.0053 U | 0.016 | 0.0039 |
| Rinsate | SMRinsate-03-EB031611 | Filtered | -- | -- | -- | -- | -- | -- | 0.0023 U | 0.0062 | 0.0023 | -- | -- | -- |
| Source | SMSource-03-EB031611 | Filtered | -- | -- | -- | -- | -- | -- | 0 U | 0.0061 | 0.0018 | -- | -- | -- |
| Rinsate | SMRinsate-03-EB031611 | Suspended | -- | -- | -- | -- | -- | -- | 0.0087 | 0.0059 | 0.0043 | 0.0101 | 0.0047 | 0.0055 |
| Source | SMSource-03-EB031611 | Suspended | -- | -- | -- | -- | -- | -- | 0.0023 U | 0.0061 | 0.0023 | 0.0036 U | 0.017 | 0.0057 |
| Rinsate | SMRinsate-03-EB031611 | Total | 66 U | 140 | 42 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-03-EB031611 | Total | 69 | 130 | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-04-EB031711 | Filtered | -- | -- | -- | 0.0061 | 0.013 | 0.006 | 0.0024 U | 0.0065 | 0.0024 | 0.0005 U | 0.0052 | 0.0039 |
| Source | SMSource-04-EB031711 | Filtered | -- | -- | -- | 0.0085 | 0.0049 | 0.0058 | 0.0023 U | 0.0062 | 0.0023 | 0.0073 | 0.0049 | 0.0052 |
| Rinsate | SMRinsate-04-EB031711 | Suspended | -- | -- | -- | 0.0025 U | 0.011 | 0.0049 | 0.0008 U | 0.017 | 0.0038 | 0.0049 | 0.011 | 0.0049 |
| Source | SMSource-04-EB031711 | Suspended | -- | -- | -- | -0.001 U | 0.0047 | 0.0039 | 0.0022 U | 0.0059 | 0.0022 | 0.0001 U | 0.012 | 0.0041 |

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

| Sample Type | Sample Identification | Reporting Basis | H-3 | | | U-233/234 | | | U-235/236 | | | U-238 | | |
|-------------|-----------------------|-----------------|----------|-----|-----|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
| | | | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU |
| Rinsate | SMRinsate-04-EB031711 | Total | 59 U | 140 | 42 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-04-EB031711 | Total | 14 U | 140 | 41 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-05-EB031811 | Filtered | -- | -- | -- | 0.0064 | 0.0055 | 0.0057 | 0 U | 0.0068 | 0.002 | -0.0028 U | 0.013 | 0.0038 |
| Source | SMSource-05-EB031811 | Filtered | -- | -- | -- | 0.0023 U | 0.02 | 0.0066 | 0.0025 U | 0.0067 | 0.0025 | -0.0052 U | 0.018 | 0.0043 |
| Rinsate | SMRinsate-05-EB031811 | Suspended | -- | -- | -- | -0.0051 U | 0.017 | 0.0046 | 0.0043 U | 0.0058 | 0.0031 | -0.0019 U | 0.0047 | 0.003 |
| Source | SMSource-05-EB031811 | Suspended | -- | -- | -- | -0.0009 U | 0.0047 | 0.0039 | 0.0044 U | 0.0059 | 0.0031 | 0.0016 U | 0.0047 | 0.0039 |
| Rinsate | SMRinsate-06-EB031811 | Filtered | -- | -- | -- | 0.0008 U | 0.0057 | 0.0047 | -- | -- | -- | -- | -- | -- |
| Source | SMSource-06-EB031811 | Filtered | -- | -- | -- | 0.0171 | 0.021 | 0.0086 | 0.0022 U | 0.006 | 0.0022 | 0.0017 U | 0.0048 | 0.004 |
| Rinsate | SMRinsate-06-EB031811 | Total | 16 U | 160 | 46 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-06-EB031811 | Total | 58 U | 160 | 48 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-07-EB031811 | Filtered | -- | -- | -- | -0.0011 U | 0.014 | 0.0049 | 0 U | 0.0069 | 0.002 | 0.003 U | 0.0056 | 0.0046 |
| Source | SMSource-07-EB031811 | Filtered | -- | -- | -- | -0.003 U | 0.014 | 0.0045 | 0.0078 | 0.007 | 0.0045 | -0.0009 U | 0.0056 | 0.0036 |
| Rinsate | SMRinsate-07-EB031811 | Suspended | -- | -- | -- | -0.0008 U | 0.0048 | 0.004 | 0.0044 U | 0.006 | 0.0031 | -0.00007 U | 0.0048 | 0.0035 |
| Source | SMSource-07-EB031811 | Suspended | -- | -- | -- | 0.0064 | 0.012 | 0.0057 | 0.0004 U | 0.014 | 0.0028 | 0.0033 U | 0.0047 | 0.0042 |
| Rinsate | SMRinsate-07-EB031811 | Total | 114 | 150 | 48 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-07-EB031811 | Total | 23 U | 150 | 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-08-EB031811 | Filtered | -- | -- | -- | 0.0087 | 0.016 | 0.0069 | 0 U | 0.0066 | 0.002 | 0.0009 U | 0.013 | 0.0047 |
| Source | SMSource-08-EB031811 | Filtered | -- | -- | -- | 0.0105 | 0.02 | 0.0076 | 0.0023 U | 0.0063 | 0.0023 | 0.0003 U | 0.005 | 0.0037 |
| Rinsate | SMRinsate-08-EB031811 | Suspended | -- | -- | -- | 0.0052 | 0.014 | 0.0059 | 0.0043 U | 0.0059 | 0.0031 | 0.0017 U | 0.0047 | 0.0039 |
| Source | SMSource-08-EB031811 | Suspended | -- | -- | -- | 0.0069 U | 0.023 | 0.0078 | 0.0024 U | 0.0066 | 0.0024 | -0.007 U | 0.017 | 0.0037 |

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

| Sample Type | Sample Identification | Reporting Basis | H-3 | | | U-233/234 | | | U-235/236 | | | U-238 | | |
|-------------|-----------------------|-----------------|----------|-----|-----|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|
| | | | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU |
| Rinsate | SMRinsate-08-EB031811 | Total | 62 U | 150 | 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-08-EB031811 | Total | 39 U | 160 | 47 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-11-EB032311 | Total | 6 U | 140 | 41 | -0.0004 U | 0.019 | 0.0061 | 0.0034 U | 0.019 | 0.0046 | -0.0009 U | 0.0061 | 0.0039 |
| Source | SMSource-11-EB032311 | Total | 22 U | 130 | 39 | 0.006 U | 0.022 | 0.0079 | 0.0035 U | 0.019 | 0.0047 | -0.0049 U | 0.023 | 0.0057 |
| Rinsate | SMRinsate-12-EB032311 | Total | 45 U | 140 | 41 | -0.0012 U | 0.014 | 0.0052 | 0 U | 0.0073 | 0.0022 | -0.0033 U | 0.0059 | 0.0031 |
| Source | SMSource-12-EB032311 | Total | -32 U | 140 | 40 | -0.009 U | 0.029 | 0.0072 | 0 U | 0.0079 | 0.0023 | 0.0068 U | 0.023 | 0.0077 |
| Rinsate | SMRinsate-13-EB032411 | Total | 27 U | 140 | 43 | 0.0183 | 0.019 | 0.0091 | 0 U | 0.0078 | 0.0023 | 0.0177 | 0.0063 | 0.0077 |
| Source | SMSource-13-EB032411 | Total | 22 U | 140 | 43 | 0.0024 U | 0.0057 | 0.0052 | 0.0079 | 0.0071 | 0.0046 | 0.0156 | 0.0057 | 0.007 |
| Rinsate | SMRinsate-16-EB032511 | Filtered | -- | -- | -- | 0.038 | 0.022 | 0.011 | 0.0105 | 0.017 | 0.006 | 0.031 | 0.021 | 0.01 |
| Source | SMSource-16-EB032511 | Filtered | -- | -- | -- | 0.034 | 0.02 | 0.01 | 0.0072 | 0.0065 | 0.0042 | 0.0235 | 0.02 | 0.009 |
| Rinsate | SMRinsate-16-EB032511 | Suspended | -- | -- | -- | 0.0052 | 0.014 | 0.0061 | 0.0026 U | 0.007 | 0.0026 | 0.0011 U | 0.0056 | 0.0041 |
| Source | SMSource-16-EB032511 | Suspended | -- | -- | -- | 0.0139 | 0.016 | 0.0074 | 0 U | 0.0064 | 0.0019 | 0.0042 | 0.0051 | 0.0046 |
| Rinsate | SMRinsate-16-EB032511 | Total | 19 U | 120 | 34 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-16-EB032511 | Total | 74 | 120 | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-17-EB032511 | Filtered | -- | -- | -- | 0.046 | 0.022 | 0.012 | 0.008 | 0.017 | 0.0054 | 0.021 | 0.022 | 0.0092 |
| Source | SMSource-17-EB032511 | Filtered | -- | -- | -- | 0.0106 | 0.0052 | 0.0064 | 0 U | 0.0064 | 0.0019 | 0.0079 | 0.013 | 0.0059 |
| Rinsate | SMRinsate-17-EB032511 | Suspended | -- | -- | -- | -0.0072 U | 0.023 | 0.0057 | -0.0021 U | 0.018 | 0.0021 | -0.0009 U | 0.019 | 0.0054 |
| Source | SMSource-17-EB032511 | Suspended | -- | -- | -- | 0.0071 | 0.005 | 0.0056 | 0.0023 U | 0.0063 | 0.0023 | -0.0035 U | 0.005 | 0.0026 |
| Rinsate | SMRinsate-18-EB032511 | Filtered | -- | -- | -- | 0.143 | 0.024 | 0.02 | 0.0028 U | 0.0077 | 0.0028 | 0.042 | 0.02 | 0.012 |
| Source | SMSource-18-EB032511 | Filtered | -- | -- | -- | 0.024 | 0.024 | 0.01 | 0 U | 0.0067 | 0.002 | 0.0141 | 0.0018 | 0.0077 |

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

| Sample Type | Sample Identification | Reporting Basis | H-3 | | | U-233/234 | | | U-235/236 | | | U-238 | | |
|-------------|-----------------------|-----------------|----------|-----|-----|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|
| | | | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU |
| Rinsate | SMRinsate-18-EB032511 | Suspended | -- | -- | -- | 0.0249 | 0.02 | 0.0095 | 0 U | 0.0069 | 0.002 | 0.0095 | 0.02 | 0.0074 |
| Source | SMSource-18-EB032511 | Suspended | -- | -- | -- | 0.0175 | 0.0062 | 0.008 | 0 U | 0.0077 | 0.0023 | 0.0068 | 0.015 | 0.0063 |
| Rinsate | SMRinsate-18-EB032511 | Total | 52 U | 120 | 35 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-18-EB032511 | Total | 61 | 120 | 35 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-19-EB032811 | Total | 2 U | 160 | 47 | -0.0012 U | 0.015 | 0.0052 | 0.0054 U | 0.0073 | 0.0038 | -0.0029 U | 0.014 | 0.0042 |
| Source | SMSource-19-EB032811 | Total | 59 U | 160 | 47 | 0.0081 | 0.0062 | 0.0065 | 0.0029 U | 0.0078 | 0.0029 | 0.0066 | 0.015 | 0.0064 |
| Rinsate | SMRinsate-20-EB032811 | Total | -23 U | 160 | 46 | 0.0042 U | 0.016 | 0.0065 | 0.0029 U | 0.0079 | 0.0029 | 0.0008 U | 0.022 | 0.0066 |
| Source | SMSource-20-EB032811 | Total | -19 U | 160 | 47 | 0.0087 | 0.015 | 0.0072 | -0.0023 U | 0.019 | 0.0023 | 0.0132 | 0.0063 | 0.007 |
| Rinsate | SMRinsate-21-EB032811 | Total | -0.5 U | 160 | 46 | 0.0072 | 0.0059 | 0.0062 | 0 U | 0.0074 | 0.0022 | 0.0015 U | 0.015 | 0.0052 |
| Source | SMSource-21-EB032811 | Total | 27 U | 150 | 44 | 0.0068 | 0.0066 | 0.0065 | 0 U | 0.0082 | 0.0024 | 0.007 | 0.0066 | 0.006 |
| Rinsate | SMRinsate-22-EB032911 | Filtered | -- | -- | -- | 0.0055 | 0.015 | 0.0065 | -0.0022 U | 0.018 | 0.0022 | 0.0055 | 0.006 | 0.0054 |
| Source | SMSource-22-EB032911 | Filtered | -- | -- | -- | 0.101 | 0.022 | 0.017 | 0.0027 U | 0.0074 | 0.0027 | 0.025 | 0.019 | 0.0095 |
| Rinsate | SMRinsate-22-EB032911 | Suspended | -- | -- | -- | 0.0168 | 0.011 | 0.0068 | 0.0019 U | 0.0053 | 0.0019 | 0.0115 | 0.011 | 0.0058 |
| Source | SMSource-22-EB032911 | Suspended | -- | -- | -- | 0.052 | 0.018 | 0.011 | 0.0021 U | 0.015 | 0.0036 | 0.0162 | 0.02 | 0.0079 |
| Rinsate | SMRinsate-22-EB032911 | Total | 28 U | 130 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-22-EB032911 | Total | 36 U | 130 | 38 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-23-EB032911 | Filtered | -- | -- | -- | 0.0183 | 0.019 | 0.0091 | 0.0058 U | 0.0078 | 0.0041 | 0.0113 | 0.015 | 0.0072 |
| Source | SMSource-23-EB032911 | Filtered | -- | -- | -- | 0.07 | 0.032 | 0.018 | 0.025 | 0.011 | 0.01 | 0.046 | 0.03 | 0.015 |
| Rinsate | SMRinsate-23-EB032911 | Suspended | -- | -- | -- | 0.0122 | 0.016 | 0.0069 | 0.0021 U | 0.0057 | 0.0021 | 0.0163 | 0.012 | 0.0067 |
| Source | SMSource-23-EB032911 | Suspended | -- | -- | -- | 0.075 | 0.018 | 0.013 | 0.0019 U | 0.0052 | 0.0019 | 0.0234 | 0.015 | 0.0076 |

Table 4.4
Rinsate and Source Results Summary
Phase II Groundwater Sampling

| Sample Type | Sample Identification | Reporting Basis | H-3 | | | U-233/234 | | | U-235/236 | | | U-238 | | |
|-------------|-----------------------|-----------------|----------|-----|-----|-----------|-------|--------|-----------|--------|--------|-----------|--------|--------|
| | | | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU | Activity | MDC | TPU |
| Rinsate | SMRinsate-23-EB032911 | Total | 16 U | 120 | 37 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-23-EB032911 | Total | 4 U | 130 | 38 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-24-EB032911 | Filtered | -- | -- | -- | 0.116 | 0.021 | 0.018 | 0.0005 U | 0.018 | 0.0034 | 0.0132 | 0.027 | 0.0094 |
| Source | SMSource-24-EB032911 | Filtered | -- | -- | -- | 0.0232 | 0.021 | 0.0097 | 0.0084 | 0.017 | 0.0057 | 0.028 | 0.019 | 0.0096 |
| Rinsate | SMRinsate-24-EB032911 | Suspended | -- | -- | -- | 0.0116 | 0.012 | 0.0063 | 0.002 U | 0.0054 | 0.002 | 0.0059 | 0.012 | 0.0051 |
| Source | SMSource-24-EB032911 | Suspended | -- | -- | -- | 0.0003 U | 0.018 | 0.0059 | 0 U | 0.0066 | 0.0025 | 0.0067 | 0.0053 | 0.0052 |
| Rinsate | SMRinsate-24-EB032911 | Total | 28 U | 130 | 38 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Source | SMSource-24-EB032911 | Total | 31 U | 130 | 38 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rinsate | SMRinsate-25-EB033011 | Total | 23 U | 130 | 39 | 0.0087 | 0.014 | 0.0068 | 0.0005 U | 0.017 | 0.0033 | 0.001 U | 0.014 | 0.0049 |
| Source | SMSource-25-EB033011 | Total | -23 U | 140 | 39 | 0.0078 | 0.018 | 0.0072 | 0.0027 U | 0.0073 | 0.0027 | 0.0014 U | 0.014 | 0.0051 |
| Rinsate | SMRinsate-26-EB033011 | Total | 0.5 U | 130 | 39 | -0.001 U | 0.019 | 0.0061 | 0 U | 0.0068 | 0.002 | -0.0016 U | 0.0055 | 0.0035 |
| Source | SMSource-26-EB033011 | Total | -59 U | 130 | 37 | -0.0016 U | 0.014 | 0.005 | 0.0052 U | 0.007 | 0.0037 | -0.0023 U | 0.02 | 0.0055 |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

-- analytical result for this reporting basis was not used in the Z-score analysis.

MDC - minimum detectable concentration

TPU - Total propagated uncertainty

U - Not considered detected. The associated number is the reported concentration.

Table 5.1
Radionuclide Activity Exceeding Maximum Concentration Levels
Groundwater Sampling

| Well Identification | Field Sample Identification | Analyte Name | Reporting Basis ¹ | Phase I Activity | Phase II Activity | MCL |
|---------------------|---|----------------------|------------------------------|------------------|-------------------|--------|
| PZ-105 | No Phase I sample/ SMPZ-105-GW032311 | adjusted gross alpha | Filtered | NS | -1.41 | 15 |
| | | adjusted gross alpha | Total | NS | 18.7 | 15 |
| PZ-116 | No Phase I sample/ SMPZ116GW032911 | U-233/U-234 | Filtered | NS | 23.9 | 20 |
| | | U-233/U-234 | Total | NS | 24 | 20 |
| | | U-238 | Filtered | NS | 22.9 | 20 |
| | | U-238 | Total | NS | 22.9 | 20 |
| PZ-124 | No Phase I sample/ SMPZ-124-GW033011 | U-233/U-234 | Filtered | NS | 36.7 | 20 |
| | | U-233/U-234 | Total | NS | 36.7 | 20 |
| | | U-238 | Filtered | NS | 35.6 | 20 |
| | | U-238 | Total | NS | 35.6 | 20 |
| RD-86 | SMRD-086-GW081910/ SMRD-86-GW032911 | gross beta | Filtered | 206 | 5.18 | 50 |
| | | gross beta | Total | 206 | 6.55 | 50 |
| RD-88 | SMRD-088-GW090210/ SMRD-88-GW032911 | H-3 | Filtered / Total | 44,800 | 4040 | 20,000 |
| RD-90 | SMRD-090-GW090210/ SMRD90GW032911 | H-3 | Filtered / Total | 41,000 | 54,900 | 20,000 |
| RD-95 | SMRD-095-GW090210/ SMRD-95-GW031711 | H-3 | Filtered / Total | 59,700 | 49,900 | 20,000 |
| RD-98 | SMRD-098-GW090210/ SMRD-98-GW041911 | Sr-90 | Filtered | 7 | 183 | 8 |
| | | Sr-90 | Total | 7.17 | 183 | 8 |
| RS-11 | No Phase I sample/ SMRS11GW033111 | U-233/U-234 | Filtered | NS | 30.9 | 20 |
| | | U-233/U-234 | Total | NS | 30.9 | 20 |
| | | U-238 | Filtered | NS | 28.1 | 20 |
| | | U-238 | Total | NS | 28.1 | 20 |
| RS-23 | No Phase I sample/ SMRS-23-GW032111 | adjusted gross alpha | Filtered | NS | 72.2 | 15 |
| | | adjusted gross alpha | Total | NS | 213.7 | 15 |
| | | gross beta | Total | NS | 313 | 50 |
| RS-27 | No Phase I sample/ SMRS-27-GW033011 | adjusted gross alpha | Filtered | NS | 3.93 | 15 |
| | | adjusted gross alpha | Total | NS | 37.3 | 15 |
| | | gross beta | Total | NS | 93.5 | 50 |
| OS-10 | No Phase I sample/ SOOS-10-GW041811 | adjusted gross alpha | Filtered | NS | 0.758 | 15 |
| | | adjusted gross alpha | Total | NS | 129.1 | 15 |
| | | gross beta | Total | NS | 145 | 50 |

Notes:

¹ The tritium concentrations reported for Phase I samples are filtered results. The tritium concentrations for Phase II are total results, the sample for the tritium analysis was not filtered.

Adjusted gross alpha - The gross alpha activity has been adjusted by subtracting the uranium activity for each corresponding filtered and total result.

Reporting units in picocuries per liter.

H-3 - tritium

NS - not sampled

MCL - maximum contaminant level

Sr - strontium

U - uranium

Table 5.2
Anthropogenic Radionuclides-Filtered Analysis,
Phase I Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Activity | MDC | TPU | Critical Value |
|----------------------|-----------------------|--------------|----------|-------|--------|----------------|
| <i>Shallow Wells</i> | | | | | | |
| ES-31 | SMES-031-GW082410 | H-3 | 88 | 130 | 40 | 64 |
| ES-31 | SMES-031-GW082410 | Nb-94 | 0.53 | 1 | 0.31 | 0.48 |
| PZ-052 | SMPZ-052-GW083010 | Sn-126 | 0.7 | 1.3 | 0.41 | 0.62 |
| PZ-056 | SMPZ-056-GW082410 | H-3 | 75 | 130 | 40 | 64 |
| PZ-098 | SMPZ-098-GW083110 | Nb-94 | 0.58 | 0.88 | 0.27 | 0.41 |
| PZ-100 | SMPZ-100-GW083010 | Tm-171 | 167 | 320 | 98 | 160 |
| PZ-105 | SMPZ-105-GW082710 | Sn-126 | 0.81 | 1.6 | 0.5 | 0.77 |
| PZ-109 | SMPZ-109-GW082510 | Cd-113m | 7500 | 11000 | 3400 | 5200 |
| RS-18 | SMRS-18-GW082310 | Sr-90 | 0.06 | 0.053 | 0.017 | 0.029 |
| <i>Deep Wells</i> | | | | | | |
| RD-07 | SMRD-07-GW090110 | Ba-137m | 0.58 | 1.2 | 0.37 | 0.56 |
| RD-07 | SMRD-07-GW090110 | Cs-137 | 0.61 | 1.3 | 0.39 | 0.6 |
| RD-13 | SMRD-013-GW082410 | Cm-245/246 | 0.021 | 0.034 | 0.011 | 0.014 |
| RD-17 | SMRD-17-GW082510 | Pu-238 | 0.054 | 0.064 | 0.021 | 0.03 |
| RD-18 | SMRD-18-GW081910 | Sn-126 | 0.5 | 1 | 0.31 | 0.49 |
| RD-19 | SMRD-019-GW081910 | C-14 | 1.18 | 2.2 | 0.69 | 1.1 |
| RD-24 | SMRD-24-GW083110 | H-3 | 79 | 120 | 38 | 61 |
| RD-24 | SMRD-24-GW083110 | Nb-94 | 0.64 | 1.1 | 0.35 | 0.52 |
| RD-29 | SMRD-29-GW083110 | Am-241 | 0.022 | 0.05 | 0.015 | 0.02 |
| RD-29 | SMRD-29-GW083110 | Cm-245/246 | 0.0191 | 0.02 | 0.0085 | 0.0062 |
| RD-29 | SMRD-29-GW083110 | Pu-239/240 | 0.0086 | 0.027 | 0.0078 | 0.0076 |
| RD-29 | SMRD-29-GW083110 | Sr-90 | 0.109 | 0.11 | 0.035 | 0.063 |
| RD-33A | SMRD-33A-GW081810 | Co-60 | 0.66 | 1.4 | 0.43 | 0.66 |
| RD-33A | SMRD-33A-GW081810 | Tm-171 | 230 | 450 | 140 | 220 |
| RD-33B | SMRD-33B-GW090210 | Am-241 | 0.023 | 0.047 | 0.015 | 0.02 |
| RD-33B | SMRD-33B-GW090210 | Cm-245/246 | 0.028 | 0.023 | 0.01 | 0.008 |
| RD-33C | SMRD-033C-GW090310 | Cs-134 | 0.71 SK | 1.3 | 0.4 | 0.6 |
| RD-34A | SMRD-034A-GW082010 | H-3 | 966 | 130 | 65 | 66 |
| RD-34B | SMRD-034B-GW082010 | Cd-113m | 7600 | 15000 | 4600 | 7300 |
| RD-34B | SMRD-034B-GW082010 | H-3 | 191 | 140 | 44 | 67 |
| RD-54B | SMRD-054B-GW083110 | Np-239 | 5.2 | 7 | 2.2 | 3.4 |
| RD-54B | SMRD-054B-GW083110 | Sr-90 | 0.097 | 0.16 | 0.051 | 0.097 |
| RD-56B | SMRD-56B-GW083110 | Cm-245/246 | 0.0132 | 0.024 | 0.0078 | 0.0083 |
| RD-57 | SMRD-57-GW081910 | Ba-137m | 0.66 | 1.1 | 0.35 | 0.51 |
| RD-57 | SMRD-57-GW081910 | Cs-137 | 0.7 | 1.2 | 0.37 | 0.54 |

Table 5.2
Anthropogenic Radionuclides-Filtered Analysis,
Phase I Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Activity | MDC | TPU | Critical Value |
|-------------------------------|-----------------------|--------------|----------|--------|--------|----------------|
| <i>Deep Wells (Continued)</i> | | | | | | |
| RD-63 | SMRD-63-GW090210 | Ba-137m | 0.8 | 1.3 | 0.4 | 0.59 |
| RD-63 | SMRD-63-GW090210 | Cs-137 | 0.84 | 1.3 | 0.42 | 0.62 |
| RD-63 | SMRD-63-GW090210 | Sn-126 | 0.64 | 1.4 | 0.42 | 0.64 |
| RD-64 | SMRD-064-GW091010 | H-3 | 78 | 130 | 41 | 65 |
| RD-64 | SMRD-064-GW091010 | Nb-94 | 0.69 | 1.2 | 0.37 | 0.56 |
| RD-87 | SMRD-087-GW090210 | H-3 | 7630 | 130 | 350 | 60 |
| RD-88 | SMRD-088-GW090210 | H-3 | 44800 | 200 | 2000 | 70 |
| RD-88 | SMRD-088-GW090210 | Sb-125 | 7.3 SK | 12 | 3.7 | 5.8 |
| RD-88 | SMRD-088-GW090210 | Te-125m | 1.7 SK | 2.8 | 0.85 | 1.3 |
| RD-90 | SMRD-090-GW090210 | H-3 | 41000 | 100 | 1800 | 70 |
| RD-90 | SMRD-090-GW090210 | Sn-126 | 0.88 | 1.4 | 0.45 | 0.66 |
| RD-91 | SMRD-091-GW082510 | H-3 | 75 | 130 | 39 | 63 |
| RD-93 | SMRD-093-GW090210 | H-3 | 8200 | 150 | 370 | 70 |
| RD-93 | SMRD-093-GW090210 | Np-236 | 1.23 SK | 2.4 | 0.73 | 1.2 |
| RD-94 | SMRD-94-GW083110 | H-3 | 9550 B | 130 | 430 | 60 |
| RD-94 | SMRD-94-GW083110 | Nb-94 | 0.42 | 0.88 | 0.27 | 0.42 |
| RD-95 | SMRD-095-GW090210 | H-3 | 59700 | 200 | 2700 | 70 |
| RD-96 | SMRD-96-GW081910 | Sn-126 | 0.93 | 1.4 | 0.44 | 0.65 |
| RD-98 | SMRD-098-GW090210 | Am-241 | 0.023 | 0.033 | 0.013 | 0.011 |
| RD-98 | SMRD-098-GW090210 | C-14 | 1.11 | 2.2 | 0.69 | 1.1 |
| RD-98 | SMRD-098-GW090210 | Cm-245/246 | 0.0172 | 0.0077 | 0.007 | 0.0058 |
| RD-98 | SMRD-098-GW090210 | I-129 | 0.29 | 0.44 | 0.14 | 0.22 |
| RD-98 | SMRD-098-GW090210 | Pu-242 | 0.0139 | 0.027 | 0.0094 | 0.0075 |
| RD-98 | SMRD-098-GW090210 | Sr-90 | 7 | 0.23 | 0.36 | 0.14 |
| WS-07 | SMWS-07-GW082710 | Ba-137m | 1.43 | 1.3 | 0.43 | 0.62 |
| WS-07 | SMWS-07-GW082710 | Cs-137 | 1.51 | 1.4 | 0.46 | 0.66 |
| WS-07 | SMWS-07-GW082710 | Eu-152 | 2.07 | 3.2 | 0.99 | 1.5 |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

Shaded cells represent activity greater than the MDC.

MDC - minimum detectable concentration

TPU - total propagated uncertainty

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

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

Table 5.3
Anthropogenic Radionuclides-Filtered Analysis,
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name ¹ | Activity | MDC | TPU | Critical Value |
|----------------------|-----------------------|---------------------------|----------|-------|-------|----------------|
| <i>Shallow Wells</i> | | | | | | |
| ES-31 | SMES-31-GW032511 | H-3 | 69 | 120 | 36 | 57 |
| PZ-005 | SMPZ-005-GW032311 | Ba-137m | 0.67 | 1.1 | 0.33 | 0.51 |
| PZ-005 | SMPZ-005-GW032311 | Cs-137 | 0.71 | 1.1 | 0.35 | 0.53 |
| PZ-005 | SMPZ-005-GW032311 | Tm-171 | 180 | 340 | 100 | 170 |
| PZ-041 | SMPZ-041-GW032511 | H-3 | 105 | 120 | 37 | 25 |
| PZ-052 | SMPZ-052-GW033111 | Sn-126 | 0.56 | 1 | 0.32 | 0.49 |
| PZ-052 | SMPZ-052-GW033111 | Sr-90 | 0.068 | 0.11 | 0.034 | 0.062 |
| PZ-098 | SMPZ-098-GW032911 | Tm-171 | 166 | 320 | 97 | 150 |
| PZ-101 | SMPZ-101-GW032811 | Eu-152 | 1.42 | 2.8 | 0.86 | 1.3 |
| PZ-101 | SMPZ-101-GW032811 | Tm-171 | 170 | 350 | 110 | 170 |
| PZ-102 | SMPZ-102-GW033011 | Eu-154 | 4.4 | 8.5 | 2.6 | 4 |
| PZ-102 | SMPZ-102-GW033011 | Tm-171 | 210 | 340 | 100 | 160 |
| PZ-105 | SMPZ-105-GW032311 | Sn-126 | 0.62 | 0.92 | 0.29 | 0.43 |
| PZ-105 | SMPZ-105-GW032311 | Sr-90 | 0.041 | 0.049 | 0.015 | 0.026 |
| PZ-108 | SMPZ-108-GW031711 | Co-60 | 0.63 | 1.4 | 0.43 | 0.63 |
| PZ-109 | SMPZ-109-GW032411 | Sr-90 | 0.042 | 0.071 | 0.022 | 0.04 |
| PZ-111 | SMPZ-111-GW033111 | Ho-166m | 0.74 SK | 1.2 | 0.37 | 0.55 |
| PZ-112 | SMPZ-112-GW031811 | H-3 | 82 | 160 | 50 | 79 |
| PZ-114 | SMPZ-114-GW032811 | Tm-171 | 650 | 490 | 190 | 240 |
| PZ-116 | SMPZ-116-GW032911 | H-3 | 119 | 180 | 54 | 86 |
| PZ-116 | SMPZ-116-GW032911 | Sr-90 | 0.077 | 0.12 | 0.038 | 0.066 |
| PZ-121 | SMPZ-121-GW031611 | Ag-108 | 0.06 | 0.08 | 0.025 | 0.037 |
| PZ-122 | SMPZ-122-GW032511 | Sr-90 | 0.105 | 0.14 | 0.044 | 0.079 |
| PZ-122 | SMPZ-122-GW032511 | Tm-171 | 177 | 320 | 99 | 160 |
| PZ-124 | SMPZ-124-GW033011 | Eu-154 | 4.2 | 7.5 | 2.3 | 3.5 |
| PZ-124 | SMPZ-124-GW033011 | Sn-126 | 0.54 | 1.1 | 0.33 | 0.51 |
| PZ-124 | SMPZ-124-GW033011 | Tm-171 | 190 | 340 | 100 | 170 |
| PZ-150 | SMPZ-150-GW032211 | Sr-90 | 0.043 | 0.057 | 0.018 | 0.032 |
| PZ-151 | SMPZ-151-GW032811 | Ho-166m | 1.45 | 2.7 | 0.82 | 1.3 |
| PZ-161 | SMPZ-161-GW032411 | Nb-94 | 0.67 K,S | 0.69 | 0.23 | 0.32 |
| PZ-161 | SMPZ-161-GW032411 | Sn-126 | 0.79 | 1.1 | 0.34 | 0.51 |

Table 5.3
Anthropogenic Radionuclides-Filtered Analysis,
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name ¹ | Activity | MDC | TPU | Critical Value |
|----------------------------------|-----------------------|---------------------------|----------|--------|--------|----------------|
| <i>Shallow Wells (Continued)</i> | | | | | | |
| RS-27 | SMRS-27-GW033011 | Sr-90 | 0.056 | 0.099 | 0.03 | 0.056 |
| RS-27 | SMRS-27-GW033011 | Tm-171 | 200 | 360 | 110 | 180 |
| <i>Deep Wells</i> | | | | | | |
| OS-10 | SOOS-10-GW041811 | Sr-90 | 0.079 | 0.13 | 0.039 | 0.072 |
| RD-07 | SMRD-7-GW040411 | Co-60 | 0.51 | 1.1 | 0.33 | 0.5 |
| RD-07 | SMRD-7-GW040411 | Sr-90 | 0.057 | 0.097 | 0.03 | 0.055 |
| RD-13 | SMRD-13-GW032911 | Am-241 | 0.009 | 0.017 | 0.0055 | 0.0052 |
| RD-13 | SMRD-13-GW032911 | Pu-239/240 | 0.0068 | 0.0061 | 0.0039 | 0.0053 |
| RD-14 | SMRD-14-GW032111 | Sr-90 | 0.086 | 0.07 | 0.023 | 0.04 |
| RD-15 | SMRD-15-GW032911 | Cs-134 | 0.46 SK | 0.91 | 0.28 | 0.43 |
| RD-15 | SMRD-15-GW032911 | Sn-126 | 0.56 | 1.1 | 0.33 | 0.51 |
| RD-15 | SMRD-15-GW032911 | Tm-171 | 220 | 340 | 100 | 160 |
| RD-17 | SMRD-17-GW032511 | Ho-166m | 1.4 SK | 2 | 0.79 | 0.94 |
| RD-17 | SMRD-17-GW032511 | Tm-171 | 330 | 330 | 120 | 160 |
| RD-19 | SMRD-19-GW031711 | Am-241 | 0.0257 | 0.022 | 0.0091 | 0.0077 |
| RD-19 | SMRD-19-GW031711 | Cm-243/244 | 0.0275 | 0.025 | 0.0098 | 0.0092 |
| RD-19 | SMRD-19-GW031711 | Cm-245/246 | 0.0218 J | 0.016 | 0.0078 | 0.0049 |
| RD-19 | SMRD-19-GW031711 | Sr-90 | 0.112 | 0.16 | 0.049 | 0.088 |
| RD-20 | SMRD-20-GW032211 | Nb-94 | 0.46 | 0.97 | 0.29 | 0.46 |
| RD-21 | SMRD-21-GW040111 | Sn-126 | 0.44 | 0.93 | 0.28 | 0.44 |
| RD-21 | SMRD-21-GW040111 | Sr-90 | 0.097 | 0.11 | 0.035 | 0.063 |
| RD-22 | SMRD-22-GW033111 | Ho-166m | 0.72 SK | 1.4 | 0.44 | 0.67 |
| RD-24 | SMRD-24-GW032411 | Sr-90 | 0.12 | 0.075 | 0.03 | 0.042 |
| RD-27 | SMRD-27-GW031711 | Ba-137m | 0.77 | 1.2 | 0.38 | 0.57 |
| RD-27 | SMRD-27-GW031711 | Co-60 | 0.009 | 1.5 | 0.42 | 0 |
| RD-27 | SMRD-27-GW031711 | Cs-137 | 0.82 | 1.3 | 0.4 | 0.6 |
| RD-29 | SMRD-29-GW032511 | Am-241 | 0.0203 | 0.017 | 0.0075 | 0.0053 |
| RD-29 | SMRD-29-GW032511 | Cm-245/246 | 0.0166 J | 0.0056 | 0.0059 | 0.0048 |
| RD-29 | SMRD-29-GW032511 | Pu-238 | 0.0152 | 0.028 | 0.0091 | 0.01 |
| RD-29 | SMRD-29-GW032511 | Sr-90 | 0.094 | 0.14 | 0.042 | 0.077 |
| RD-33B | SMRD-33B-GW032211 | Am-241 | 0.0159 | 0.017 | 0.0068 | 0.0053 |

Table 5.3
Anthropogenic Radionuclides-Filtered Analysis,
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name ¹ | Activity | MDC | TPU | Critical Value |
|-------------------------------|-----------------------|---------------------------|----------|--------|--------|----------------|
| <i>Deep Wells (Continued)</i> | | | | | | |
| RD-33B | SMRD-33B-GW032211 | Cm-245/246 | 0.0092 J | 0.0062 | 0.0046 | 0.0054 |
| RD-33B | SMRD-33B-GW032211 | Pu-238 | 0.0106 | 0.02 | 0.0064 | 0.007 |
| RD-33B | SMRD-33B-GW032211 | Tm-171 | 410 | 320 | 130 | 160 |
| RD-34A | SMRD34AGW032311 | H-3 | 342 | 89 | 36 | 43 |
| RD-34A | SMRD34AGW032311 | Sr-90 | 0.163 | 0.11 | 0.036 | 0.054 |
| RD-34B | SMRD-34B-GW031811 | H-3 | 187 | 150 | 50 | 75 |
| RD-34B | SMRD-34B-GW031811 | Sn-126 | 0.99 | 1.4 | 0.44 | 0.65 |
| RD-34C | SMRD-34C-GW032211 | H-3 | 132 | 150 | 48 | 74 |
| RD-56B | SMRD-56B-GW042011 | Cm-243/244 | 0.0116 | 0.018 | 0.0061 | 0.0064 |
| RD-56B | SMRD-56B-GW042011 | Cm-245/246 | 0.01 J | 0.0054 | 0.0045 | 0.0047 |
| RD-57 | SMRD-57-GW033111 | Tm-171 | 220 | 340 | 100 | 160 |
| RD-59A | SORD-59A-GW041811 | Cd-113m | 9700 | 14000 | 4500 | 6900 |
| RD-59A | SORD-59A-GW041811 | H-3 | 110 | 150 | 46 | 73 |
| RD-59B | SORD-59B-GW041811 | Sn-126 | 0.74 | 1.2 | 0.38 | 0.58 |
| RD-59B | SORD-59B-GW041811 | Tm-171 | 170 | 340 | 100 | 170 |
| RD-63 | SMRD-63-GW032311 | Ba-133 | 6.6 | 9.9 | 3.1 | 4.8 |
| RD-63 | SMRD-63-GW032311 | Sr-90 | 0.068 | 0.12 | 0.036 | 0.06 |
| RD-64 | SMRD-64-GW040411 | H-3 | 123 | 120 | 39 | 59 |
| RD-85 | SMRD-85-GW031711 | Ba-137m | 0.7 | 1.4 | 0.43 | 0.67 |
| RD-85 | SMRD-85-GW031711 | Cs-137 | 0.73 | 1.5 | 0.46 | 0.7 |
| RD-85 | SMRD-85-GW031711 | Nb-94 | 0.5 | 1.1 | 0.33 | 0.49 |
| RD-86 | SMRD-86-GW032911 | Cm-245/246 | 0.015 J | 0.032 | 0.011 | 0.01 |
| RD-86 | SMRD-86-GW032911 | Cs-134 | 0.71 SK | 1.3 | 0.38 | 0.59 |
| RD-86 | SMRD-86-GW032911 | Pu-238 | 0.0192 | 0.018 | 0.0072 | 0.0063 |
| RD-87 | SMRD-87-GW031811 | H-3 | 5600 B | 160 | 270 | 80 |
| RD-88 | SMRD-88-GW032911 | H-3 | 4040 | 130 | 200 | 60 |
| RD-90 | SMRD-90-GW032911 | H-3 | 54900 | 100 | 2500 | 70 |
| RD-91 | SMRD-91-GW033011 | Nb-94 | 0.5 | 0.96 | 0.29 | 0.45 |
| RD-92 | SMRD-92-GW032211 | Eu-154 | 4 | 6.3 | 2 | 2.9 |
| RD-93 | SMRD-93-GW031711 | H-3 | 9130 | 210 | 430 | 100 |
| RD-94 | SMRD-94-GW032811 | Ba-137m | 0.5 | 1 | 0.31 | 0.48 |

Table 5.3
Anthropogenic Radionuclides-Filtered Analysis,
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name ¹ | Activity | MDC | TPU | Critical Value |
|-------------------------------|-----------------------|---------------------------|----------|--------|--------|----------------|
| <i>Deep Wells (Continued)</i> | | | | | | |
| RD-94 | SMRD-94-GW032811 | Cs-137 | 0.53 | 1.1 | 0.33 | 0.51 |
| RD-94 | SMRD-94-GW032811 | H-3 | 5000 | 170 | 250 | 80 |
| RD-95 | SMRD-95-GW031711 | Ba-133 | 5.5 | 11 | 3.3 | 5.3 |
| RD-95 | SMRD-95-GW031711 | H-3 | 49900 | 200 | 2200 | 90 |
| RD-97 | SMRD-97-GW033011 | Am-241 | 0.0119 | 0.018 | 0.0063 | 0.0065 |
| RD-97 | SMRD-97-GW033011 | Cm-245/246 | 0.0099 J | 0.019 | 0.0062 | 0.0066 |
| RD-98 | SMRD-98-GW041911 | Cm-245/246 | 0.009 J | 0.0061 | 0.0045 | 0.0052 |
| RD-98 | SMRD-98-GW041911 | Sr-90 | 183 | 0.3 | 7.7 | 0.2 |
| RD-98 | SMRD-98-GW041911 | Tm-171 | 300 | 360 | 110 | 170 |

Notes:

¹ The Phase II tritium results are "total" results, the sample for the tritium analysis was not filtered.

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter.

MDC - minimum detectable concentration

TPU - total propagated uncertainty

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

K - Analyte present. 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.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

FIGURES



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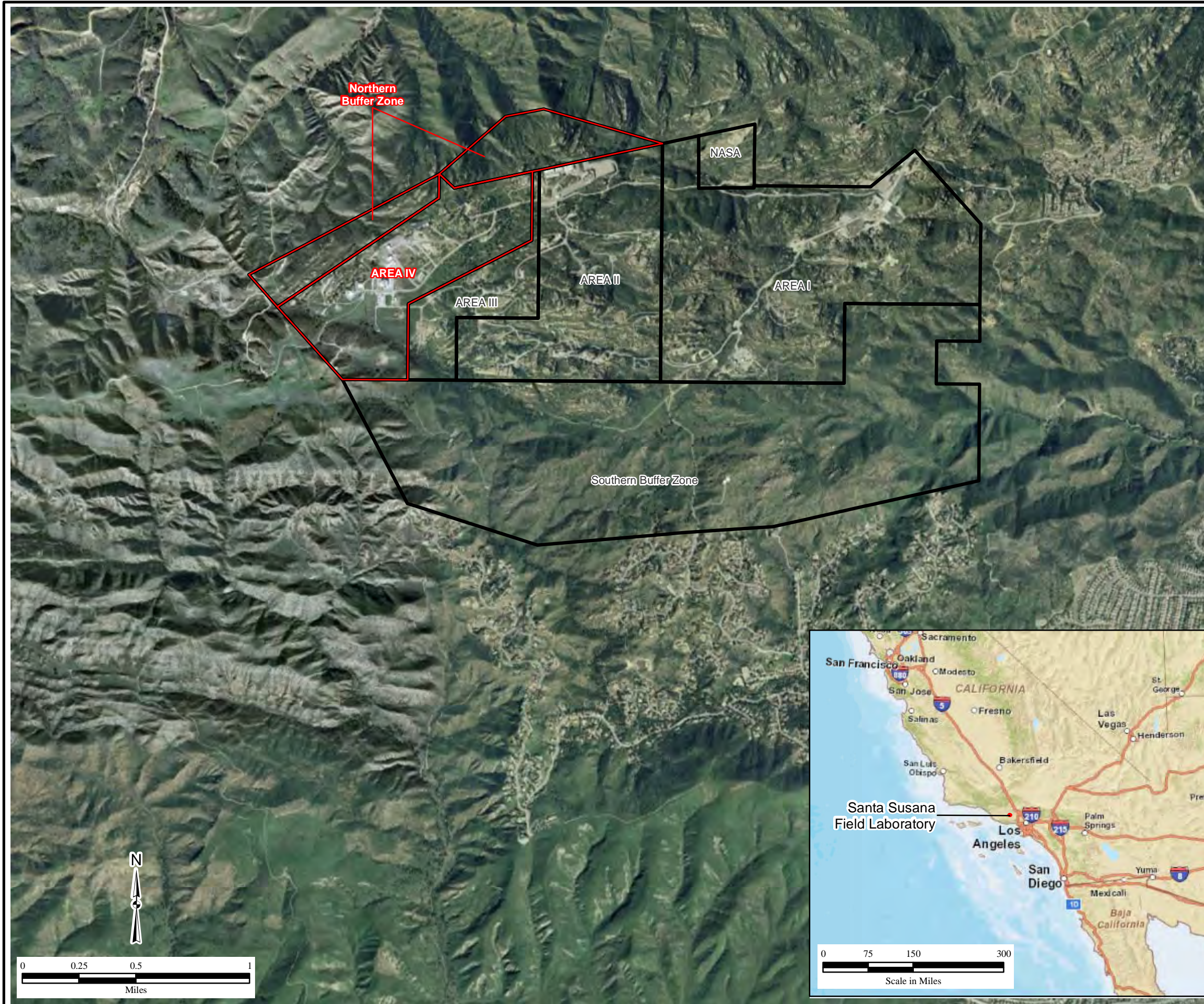
Figure 1.1 Site Location Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

-  Area IV Study Area Boundary
-  Property Boundary









Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(1-1)SiteMap.mxd
6/5/2012 pbbilock
Source: CaSil, NAIP 2009; Boeing 2008

Figure 1.3
Phase II Offsite Well Sampling Locations
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

-  Area IV Study Area Boundary
-  Property Boundary
-  Well included in SSFL Monitoring Network
-  1 Mile Survey Radius
-  Intermittent Stream
-  Perennial Stream
- OS-9 Off-Site Well Identification

Note:
Offsite well locations and the study area boundary were obtained from the following source:
Technical Memorandum Off-Site Well Inventory.
Santa Susana Field Laboratory; Ventura County, CA
DRAFT. April 4, 2007. Prepared for The Boeing Company,
Santa Susana Field Laboratory. Prepared by MWH.

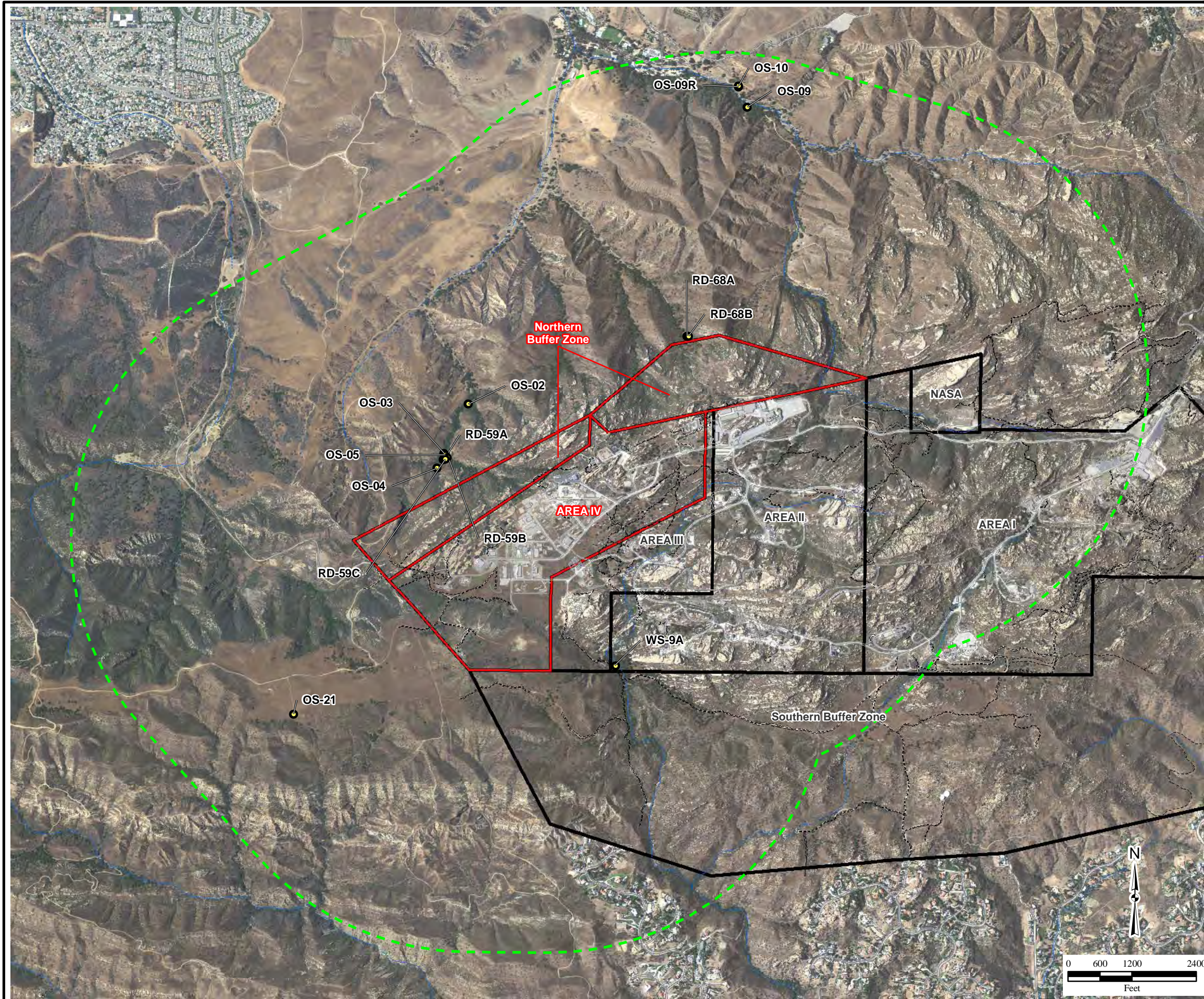




Figure 2.1 Topographic Map Santa Susana Field Laboratory

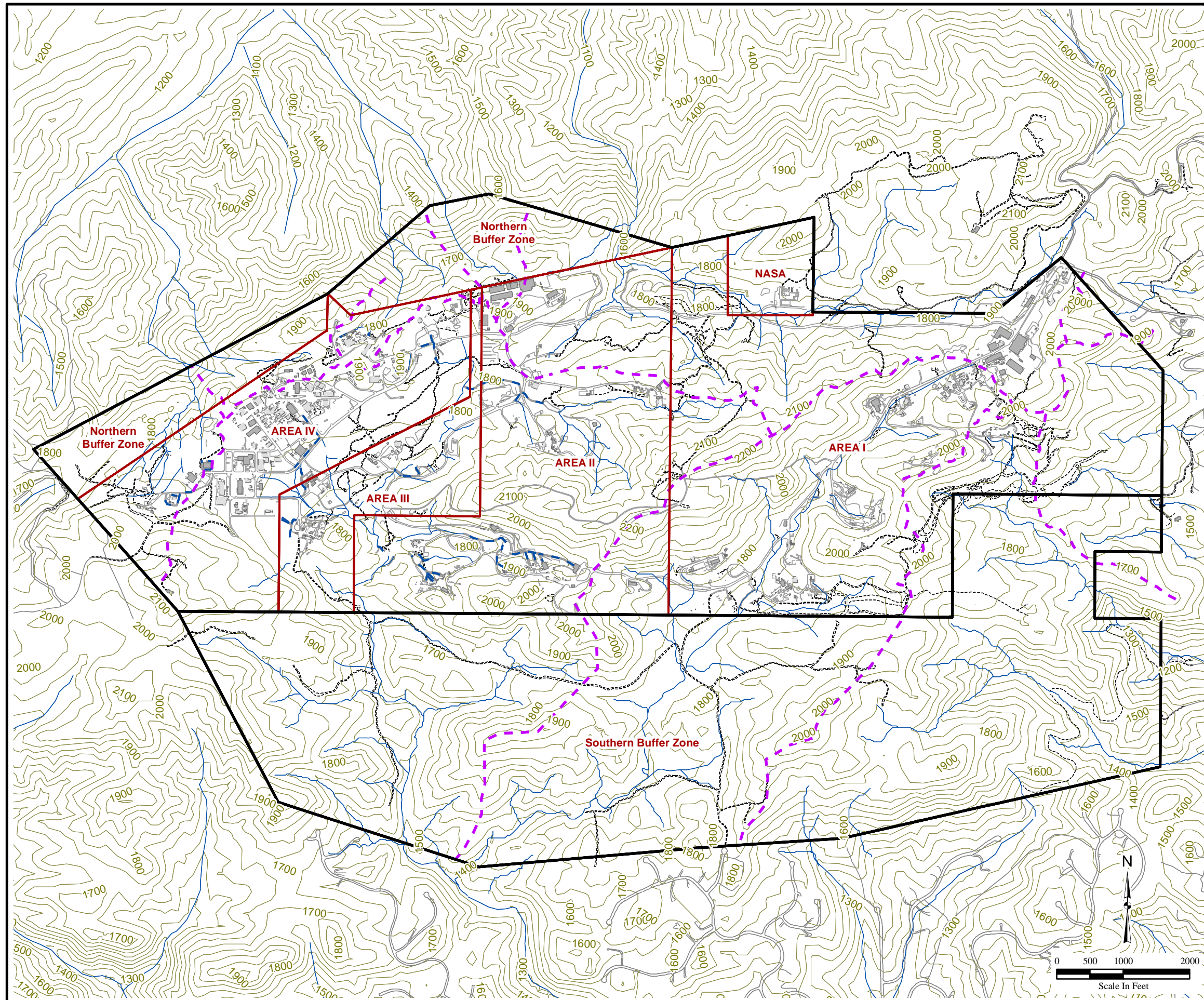
U.S. EPA Region 9



Legend

-  SSFL Property
-  SSFL Administrative Areas
-  Drainage Divide
-  Demolished Building
-  Existing Building
-  Lined Channel
-  Unlined Channel
-  Offsite Roads
-  Dirt Roads
-  50 ft Contours

Notes:
ft - feet
SSFL - Santa Susana Field Laboratory



Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(2-1)_Topography.mxd
6/5/2012 pbillcock
Source: CDM Inc. (2008). Draft Gap Analysis Report,
Submitted on June 1, 2008. Prepared for the U.S.
Department of Energy



Figure 2.2 Geologic Map Santa Susana Field Laboratory

U.S. EPA Region 9

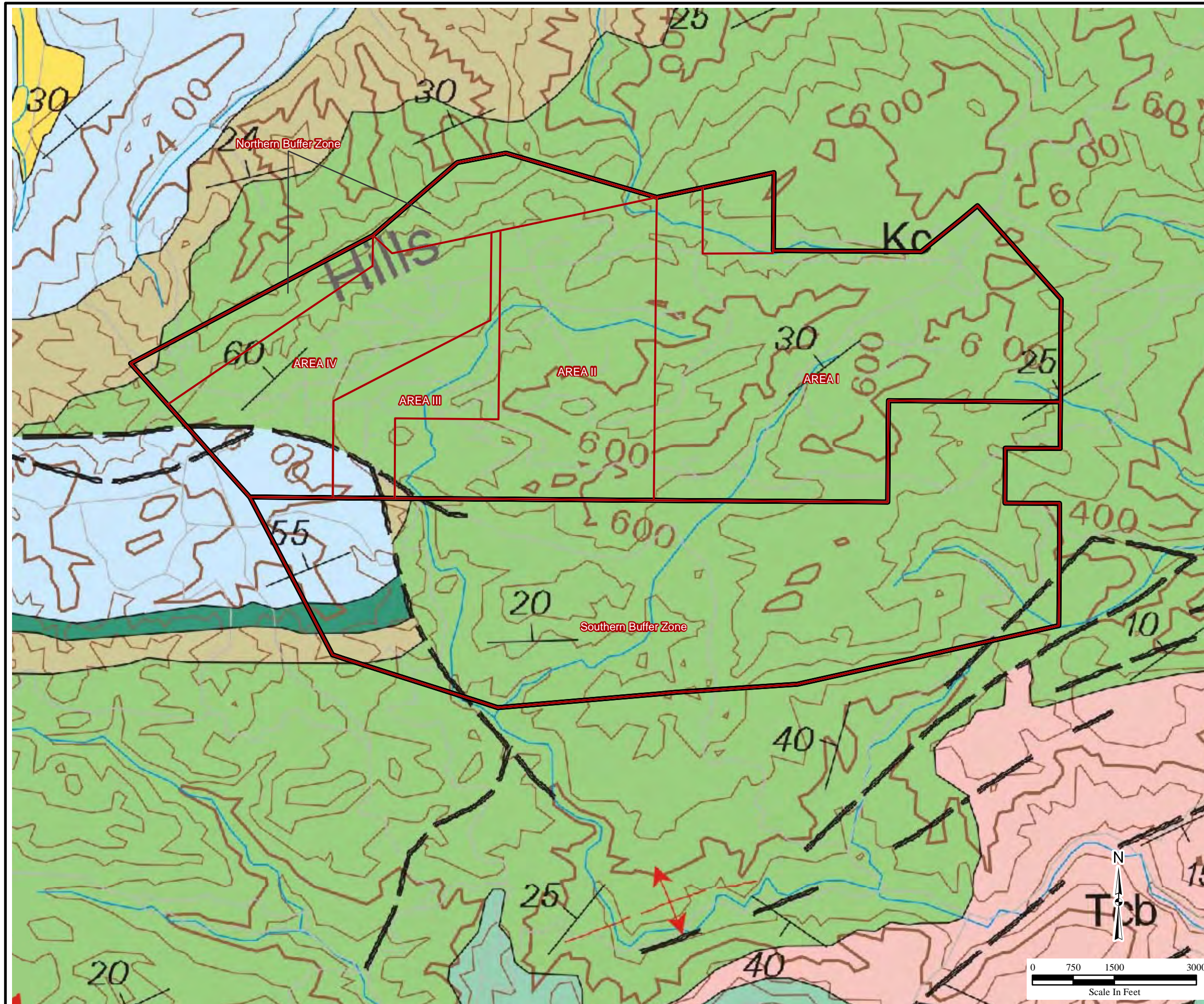


Legend

- Santa Susana Field Laboratory Property Boundary
- Administrative Boundaries at the Santa Susana Field Laboratory

Geologic Formation

- Kc Chatsworth Formation (late Cretaceous)
- Tss Santa Susana Formation (early Eocene to late Paleocene)
- Tlv Las Virgenes Formation (Paleocene)
- Tsi Simi Conglomerate, Undivided (Paleocene)
- Tcb Calabasas Formation, Undivided (early late Miocene and late middle Miocene)
- Tm Modelo Formation Undivided (late Miocene)
- Qof Old alluvial-fan deposits, Undivided (late to middle Pleistocene)



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(2-2)_GeologicMap.mxd
6/5/2012 phillock
Source:HGL 2010, CIRGIS 2007
Source: Preliminary Geologic Map of the Los Angeles 30' x 60'
Quadrangle, Southern California; Yerkes and Campbell; 2005

Figure 5.1
Groundwater Elevation Shallow Aquifer
Gauging Event 1 (7/21/2010)
Santa Susana Field Laboratory

U.S. EPA Region 9

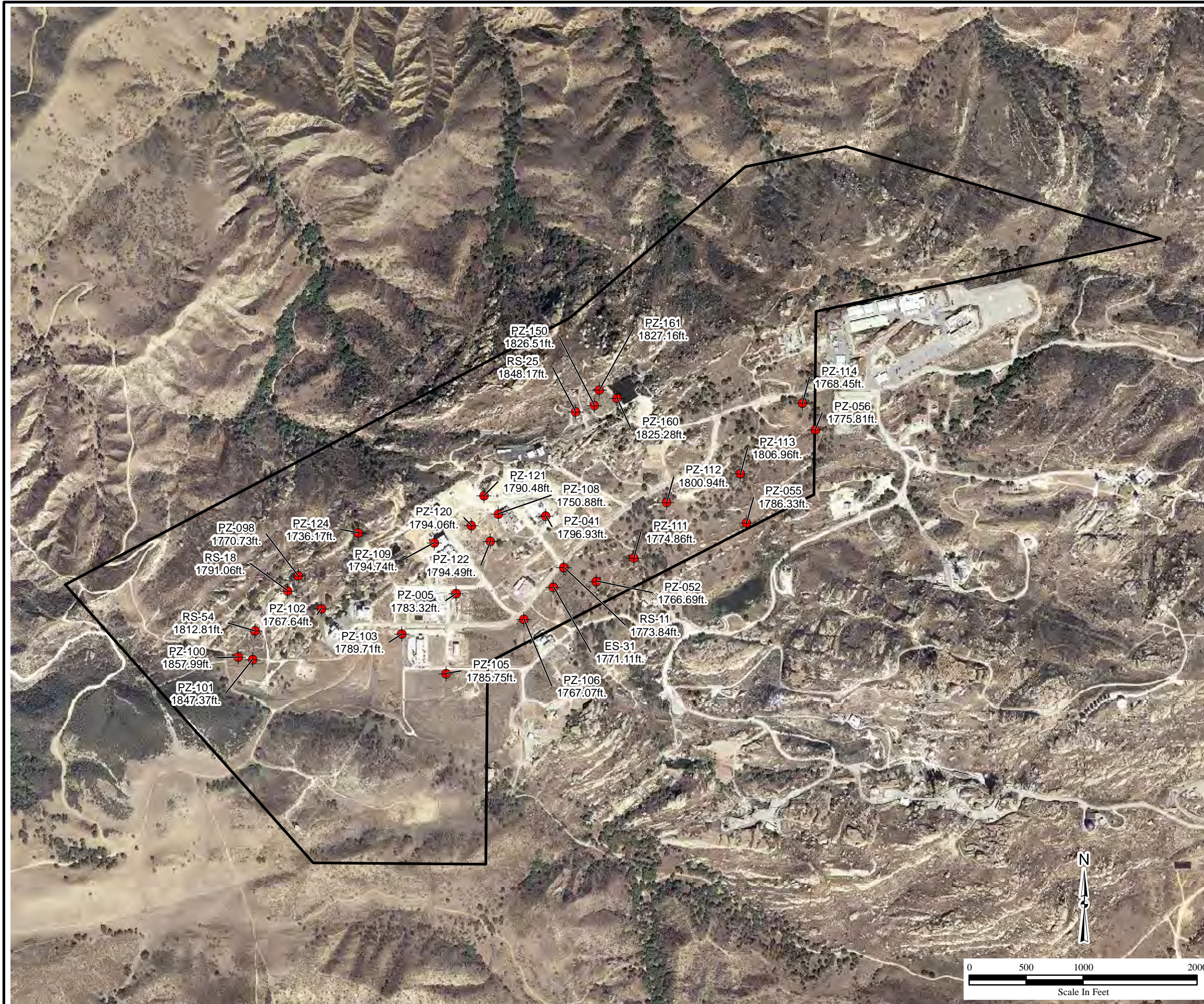


Legend

- Groundwater Sample Location
- Study Area
- PZ-111
1774.86 ft.

 Well ID
Groundwater Elevation
(above mean sea level)

Notes:
ft - feet
ID - Identification



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(5-1)_GW_Elevation_Shallow(Event1).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2010

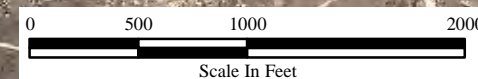


Figure 5.2
Groundwater Elevation Deep Aquifer
Gauging Event 1 (7/21/2010)
Santa Susana Field Laboratory

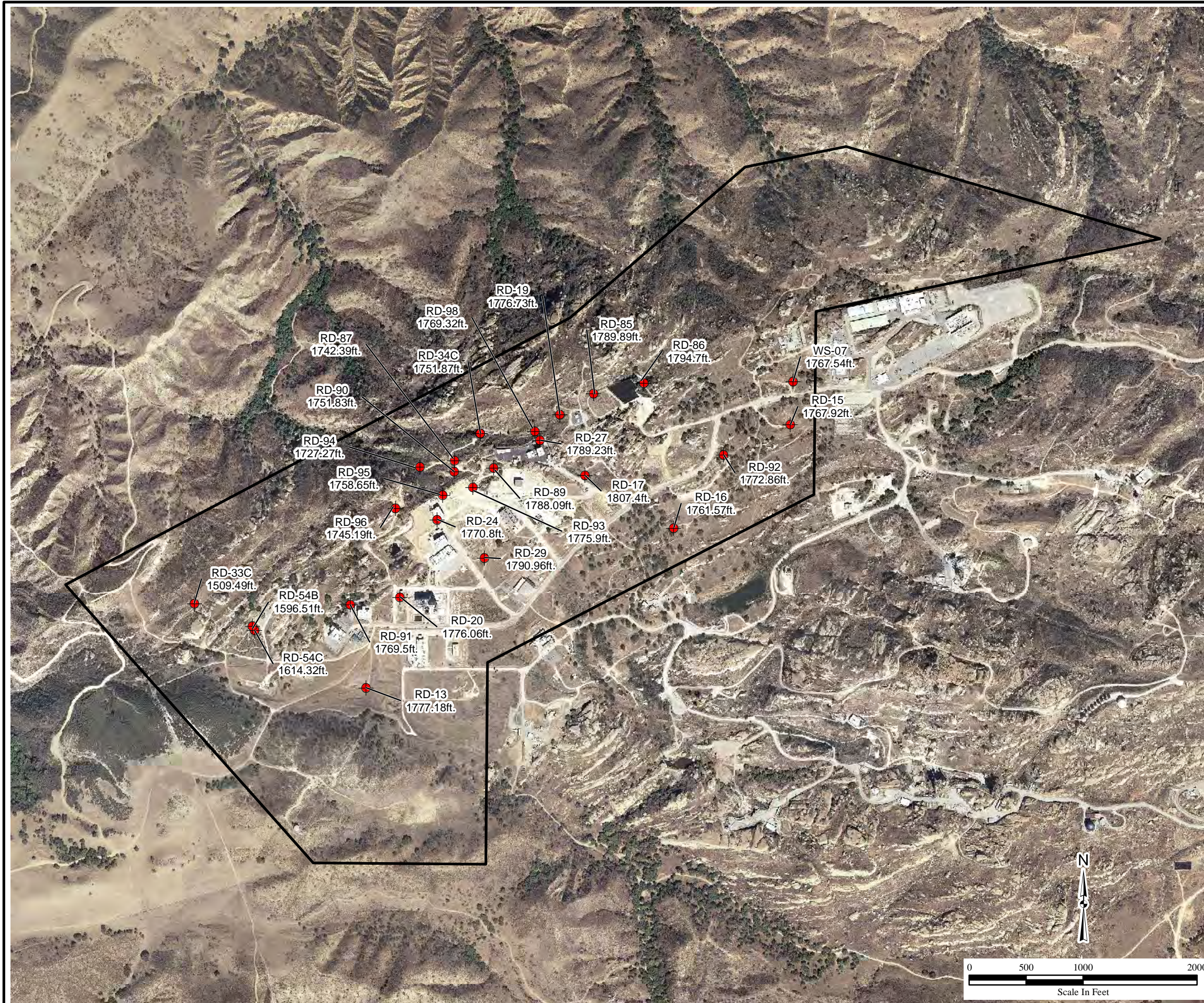
U.S. EPA Region 9



Legend

- Groundwater Sample Location
- Study Area
- RD-92
1772.86 ft. — Well ID
- RD-92
1772.86 ft. — Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification



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(5-2)_GW_Elevation_Deep(Event1).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2010

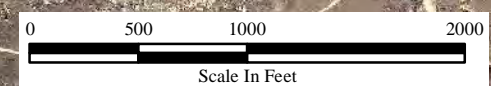


Figure 5.3
Groundwater Elevation Shallow Aquifer
Gauging Event 2 (1/10/2011- 1/11/2011)
Santa Susana Field Laboratory

U.S. EPA Region 9

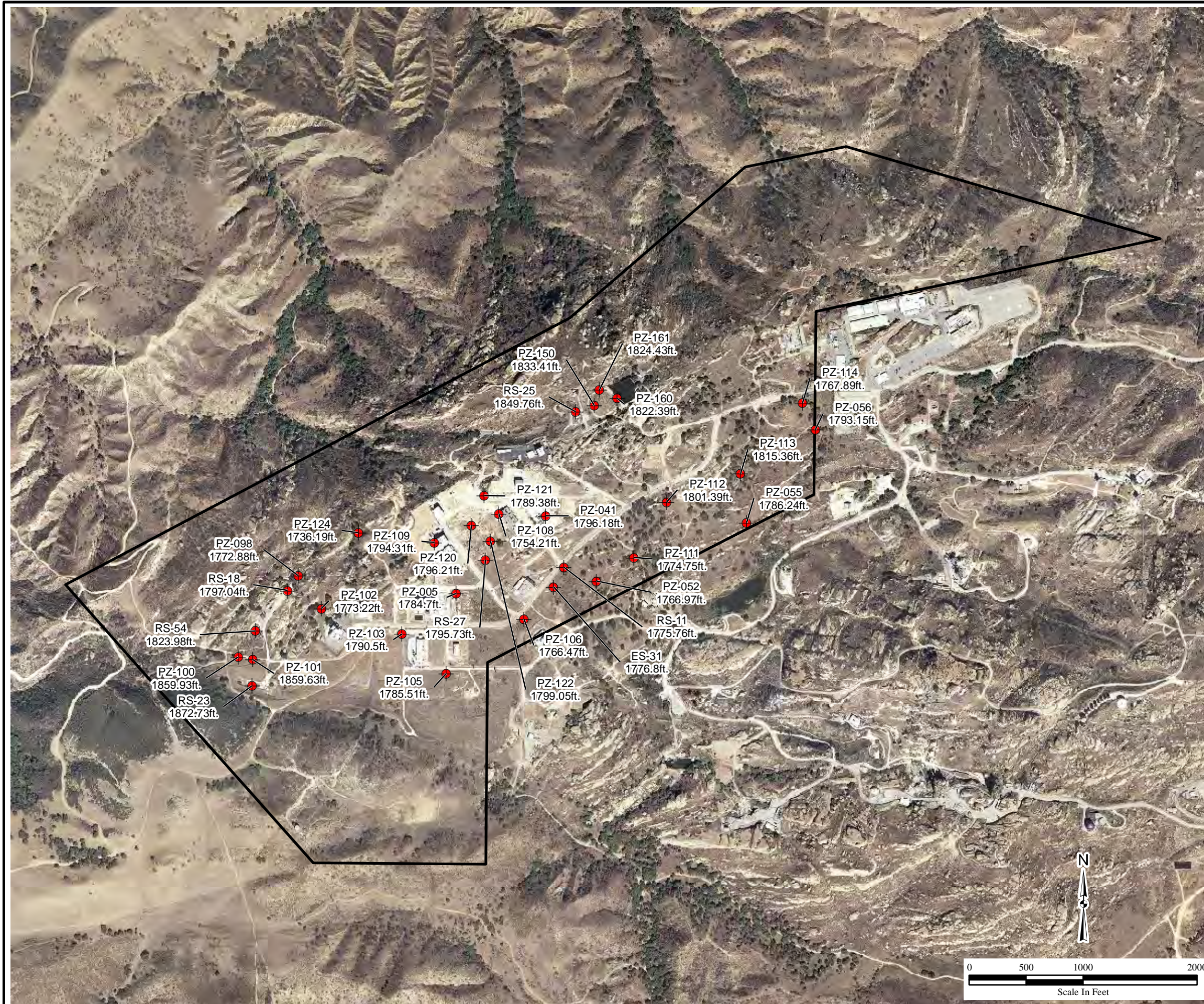


Legend

- Groundwater Sample Location
- Study Area
- PZ-111
1774.86 ft.

 Well ID
Groundwater Elevation
(above mean sea level)

Notes:
ft - feet
ID - Identification



Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-3)_GW_Elevation_Shallow(Event2).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2011



Figure 5.4
Groundwater Elevation Deep Aquifer
Gauging Event 2 (1/10/2011-1/11/2011)
Santa Susana Field Laboratory

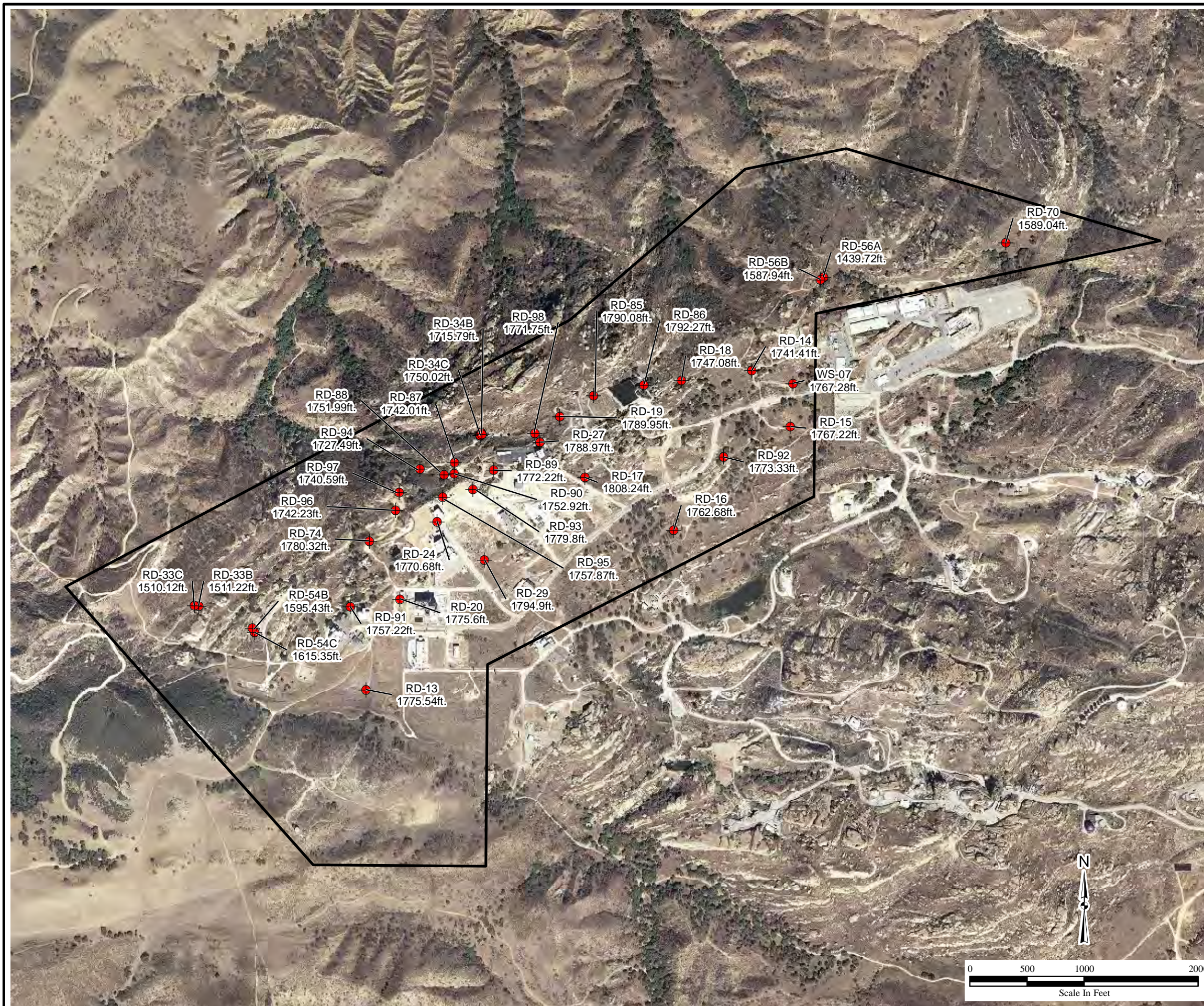
U.S. EPA Region 9



Legend

- Groundwater Sample Location
- Study Area
- RD-92 — Well ID
- 1772.86 ft. — Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification



Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-4)_GW_Elevation_Deep(Event2).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2011



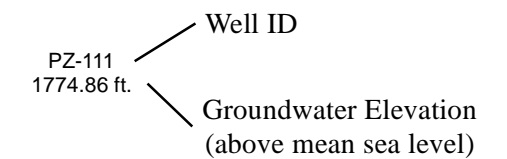
Figure 5.5
Groundwater Elevation Shallow Aquifer
Gauging Event 3 (3/16/2011)
Santa Susana Field Laboratory

U.S. EPA Region 9

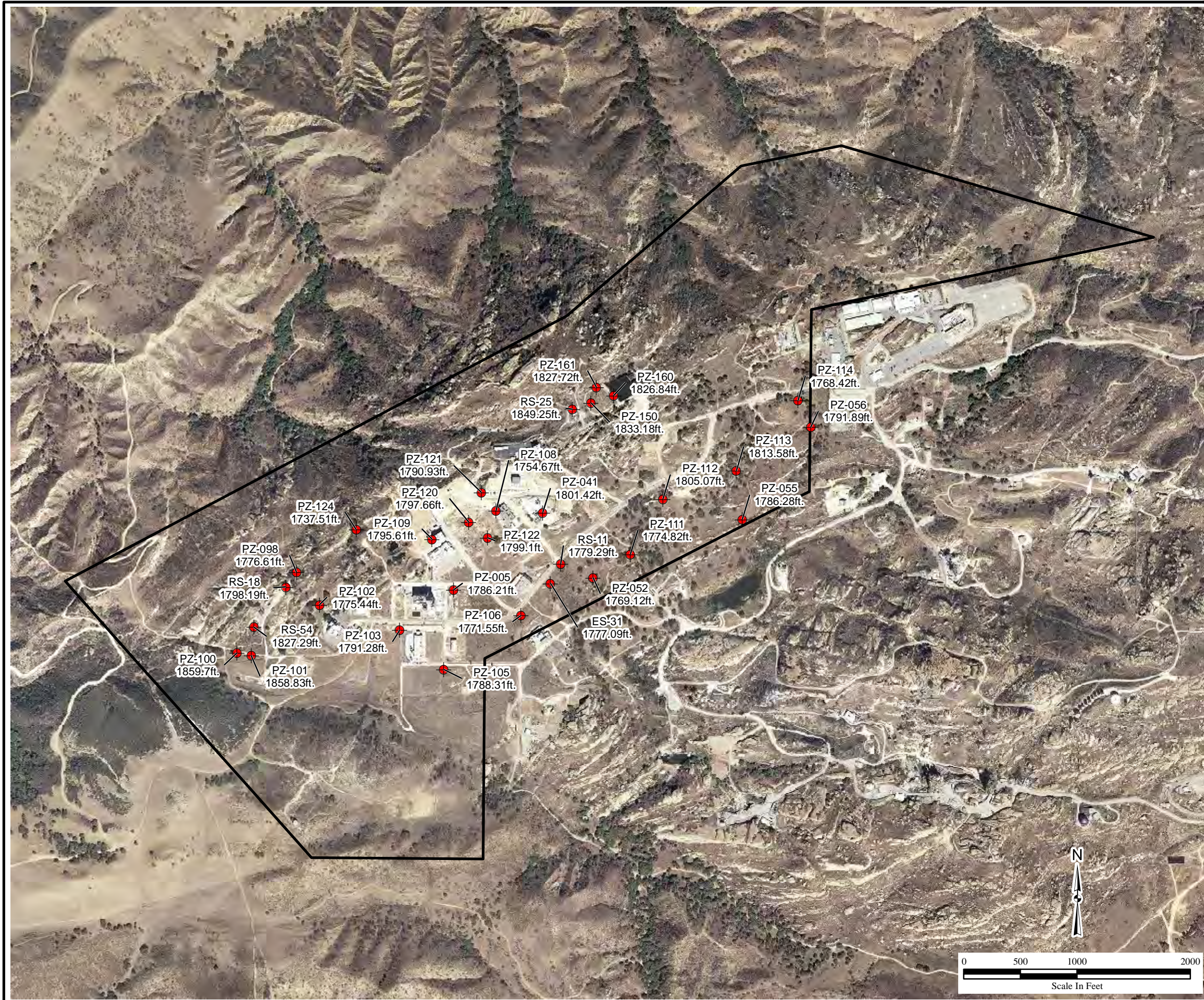


Legend

- Groundwater Sample Location
- Study Area



Notes:
ft - feet
ID - Identification



Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
(5-5)_GW_Elevation_Shallow(Event3).mxd
6/5/2012 pbillock
Source: CIRGIS 2007; Boeing 2009; HGL 2010



Figure 5.6
Groundwater Elevation Deep Aquifer
Gauging Event 3 (3/16/2011)
Santa Susana Field Laboratory

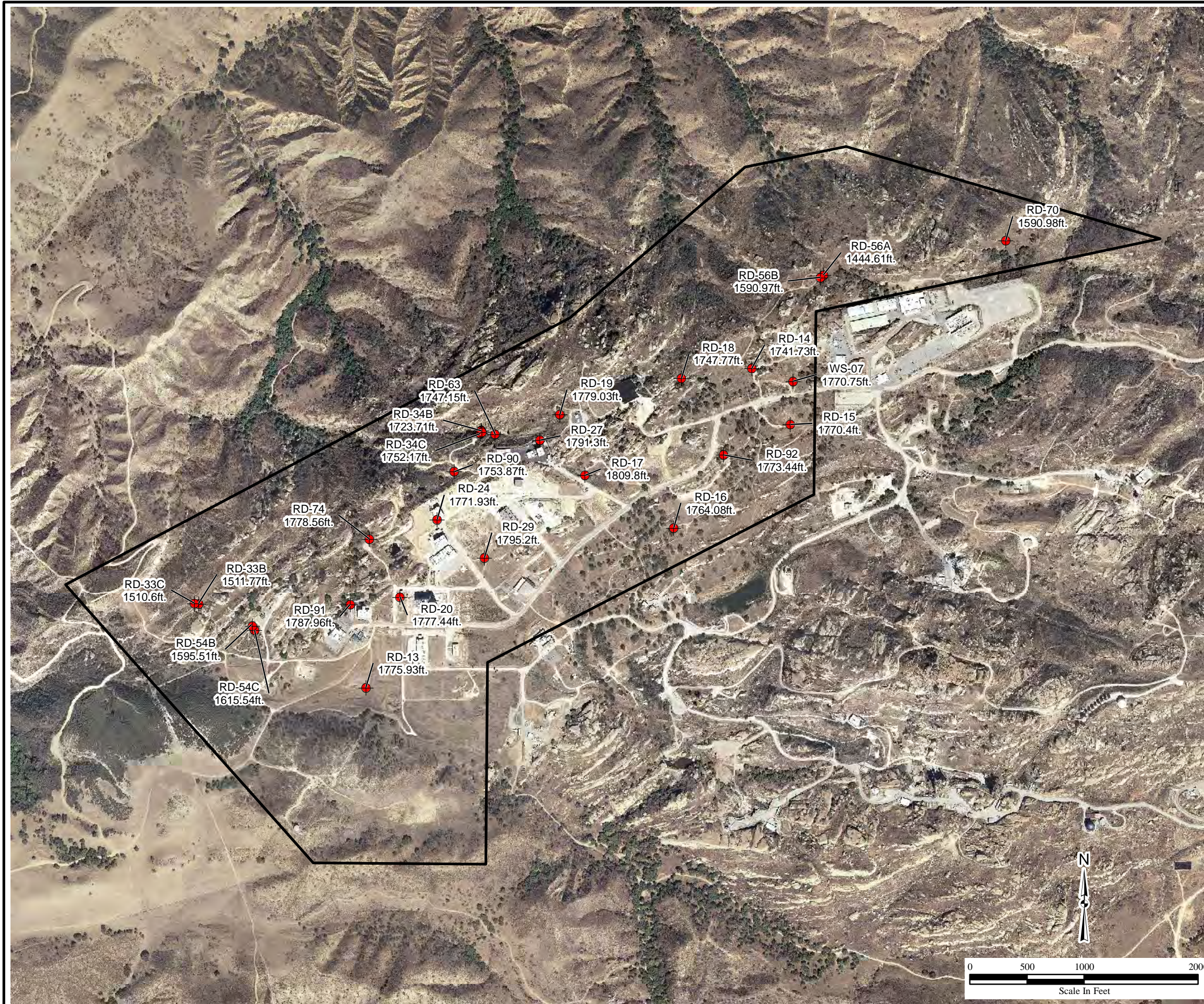
U.S. EPA Region 9



Legend

- Groundwater Sample Location
- Study Area
- RD-92 / 1772.86 ft. — Well ID
- RD-92 / 1772.86 ft. — Groundwater Elevation (above mean sea level)

Notes:
ft - feet
ID - Identification



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(5-6)_GW_Elevation_Deep(Event3).mxd
6/5/2012 pblock
Source: CIRGIS 2007; Boeing 2009; HGL 2011

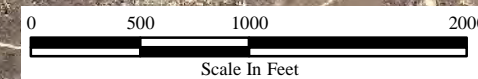


Figure 5.7
Phase I Onsite Sample Locations
Radionuclide Concentrations Above
Maximum Contaminant Levels
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

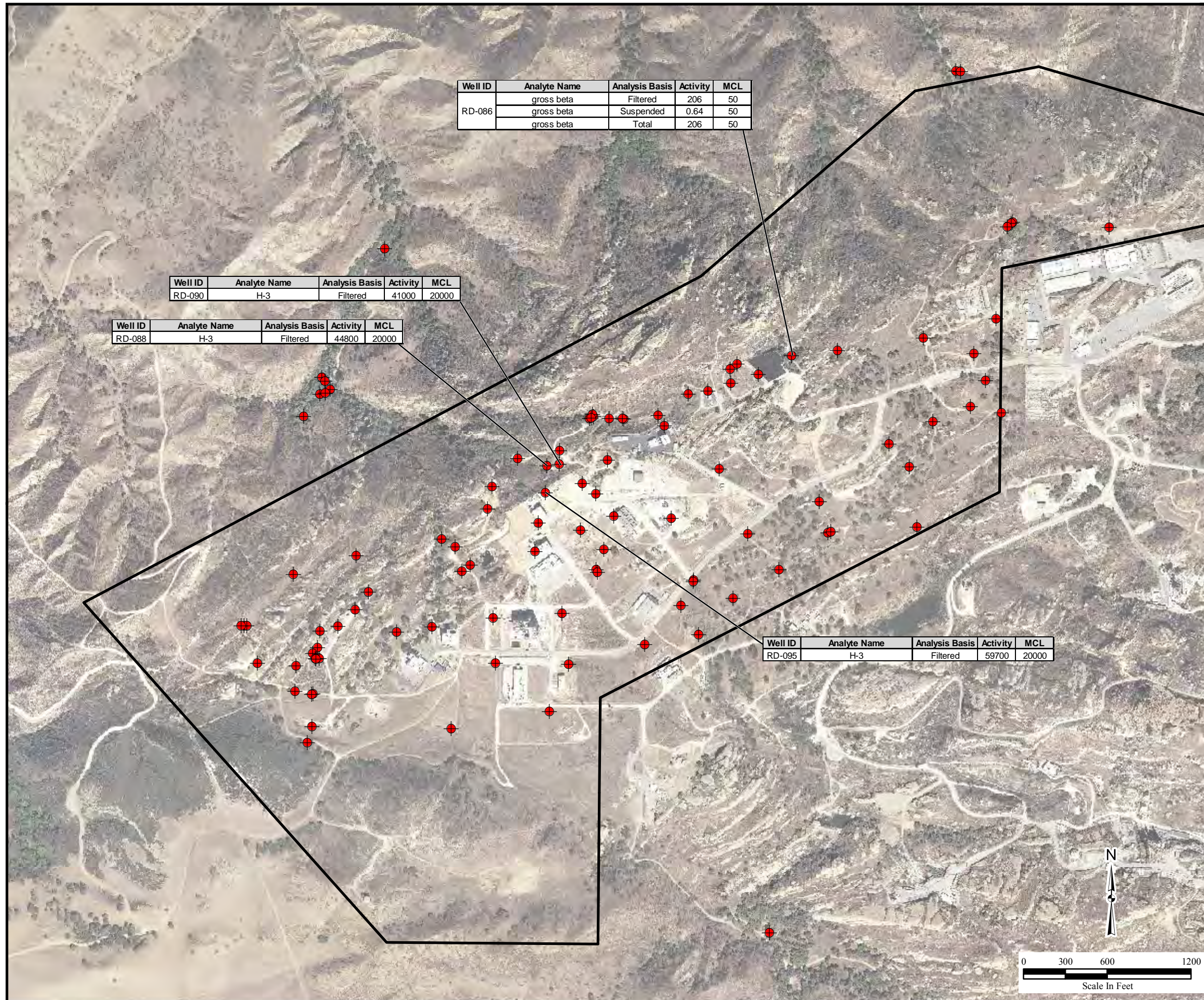
- Groundwater Sample Location
- Study Area

Note:

All activity and MCL values reported in pCi/L.

Tritium results are of the filtered fraction of the sample.

H-3 - tritium
 ID - identification
 MCL - maximum contaminant level
 pCi/L - picoCuries per liter



| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-----|
| RD-086 | gross beta | Filtered | 206 | 50 |
| | gross beta | Suspended | 0.64 | 50 |
| | gross beta | Total | 206 | 50 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-------|
| RD-090 | H-3 | Filtered | 41000 | 20000 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-------|
| RD-088 | H-3 | Filtered | 44800 | 20000 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-------|
| RD-095 | H-3 | Filtered | 59700 | 20000 |

Figure 5.9
Phase II Onsite Sample Locations
Radionuclide Concentrations Above
Maximum Contaminant Levels
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

◆ Groundwater Sample Location

□ Study Area

Note:
 All activity and MCL values reported in pCi/L.

Tritium results are reported as the total concentration of the unfiltered sample.

H-3 - tritium
 ID - identification
 MCL - maximum contaminant level
 pCi/L - picoCuries per liter
 Sr - strontium
 U - uranium

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-----|
| RD-98 | Sr-90 | Filtered | 183 | 8 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-----|
| PZ-116 | U-233/U-234 | Filtered | 24 | 20 |
| | U-238 | Filtered | 22.9 | 20 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-----|
| RD-93 | gross beta | Filtered | 14 | 50 |
| | gross beta | Suspended | 135 | 50 |
| | gross beta | Total | 149 | 50 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-------|
| RD-090 | H-3 | Total | 54900 | 20000 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-------|
| RD-95 | H-3 | Total | 49900 | 20000 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-----|
| PZ-124 | U-233/U-234 | Filtered | 36.7 | 20 |
| | U-238 | Filtered | 35.6 | 20 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|--------------|----------------|----------|-----|
| RS-11 | U-233/U-234 | Filtered | 30.9 | 20 |
| | U-238 | Filtered | 28.1 | 20 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|----------------------|----------------|----------|-----|
| RS-27 | adjusted gross alpha | Filtered | 3.92 | 15 |
| | adjusted gross alpha | Suspended | 18.7 | 15 |
| | adjusted gross alpha | Total | 37.3 | 15 |
| | gross beta | Filtered | 20.1 | 50 |
| | gross beta | Suspended | 73.4 | 50 |
| | gross beta | Total | 93.5 | 50 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|----------------------|----------------|----------|-----|
| PZ-105 | adjusted gross alpha | Filtered | -1.41 | 15 |
| | adjusted gross alpha | Suspended | 17.8 | 15 |
| | adjusted gross alpha | Total | 18.7 | 15 |

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|----------------------|----------------|----------|-----|
| RS-23 | adjusted gross alpha | Filtered | 72.2 | 15 |
| | adjusted gross alpha | Suspended | 141.6 | 15 |
| | adjusted gross alpha | Total | 213.7 | 15 |
| | gross beta | Filtered | 32.1 | 50 |
| | gross beta | Suspended | 281 | 50 |
| | gross beta | Total | 313 | 50 |

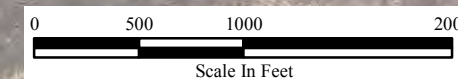




Figure 5.10
Phase II Offsite Locations
Radionuclide Concentrations Above
Maximum Contaminant Levels
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

-  Groundwater Sample Location
-  Study Area

Note:
 All activity and MCL values reported in pCi/L.

ID - identification
 MCL - maximum contaminant level
 pCi/L - picoCuries per liter

| Well ID | Analyte Name | Analysis Basis | Activity | MCL |
|---------|----------------------|----------------|----------|-----|
| OS-10 | adjusted gross alpha | Filtered | 0.758 | 15 |
| | adjusted gross alpha | Suspended | 128 | 15 |
| | adjusted gross alpha | Total | 129 | 15 |
| | gross beta | Filtered | 6.15 | 50 |
| | gross beta | Suspended | 139 | 50 |
| | gross beta | Total | 145 | 50 |

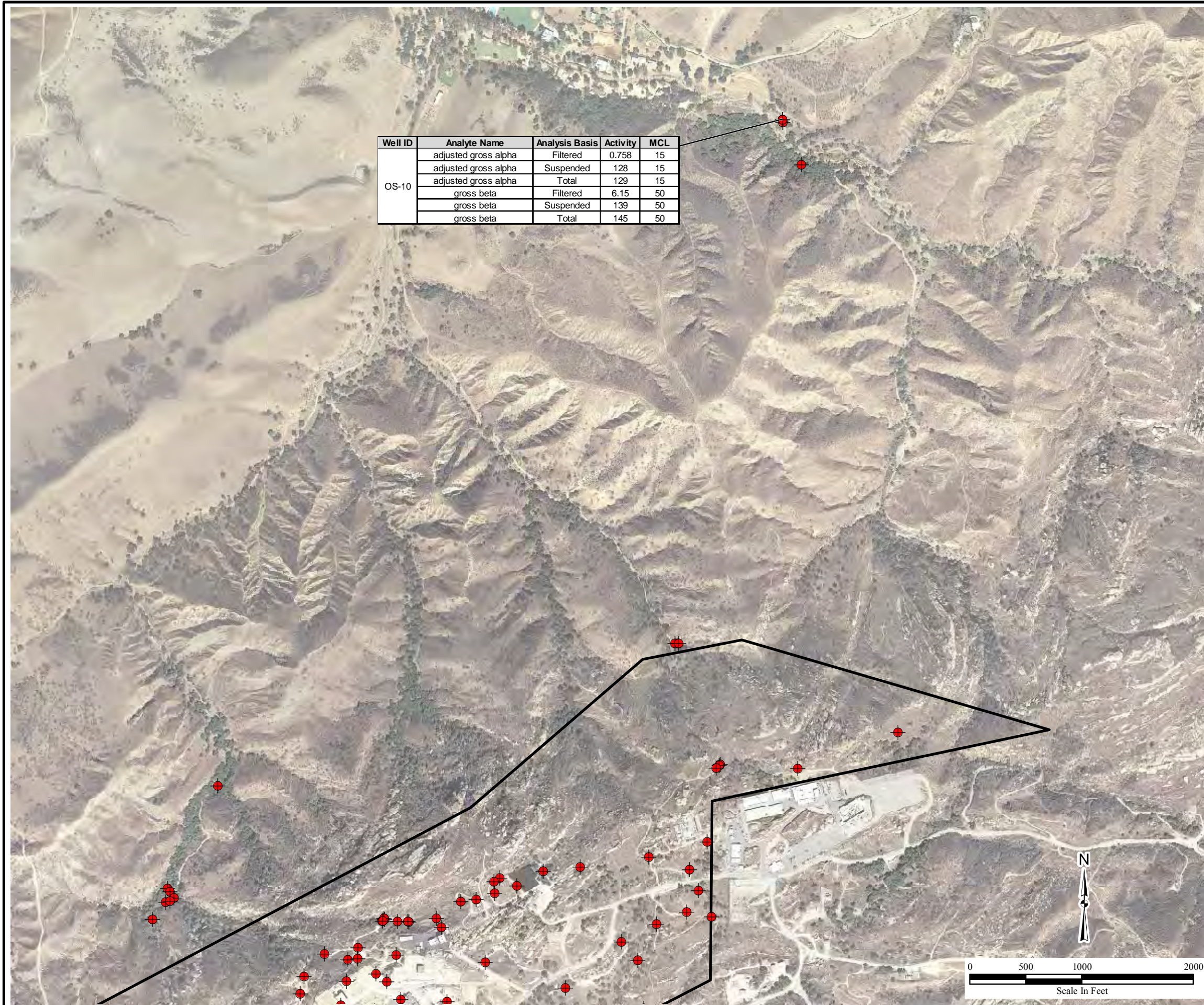


Figure 5.11
Phase II Sample Locations
Tritium Detections
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

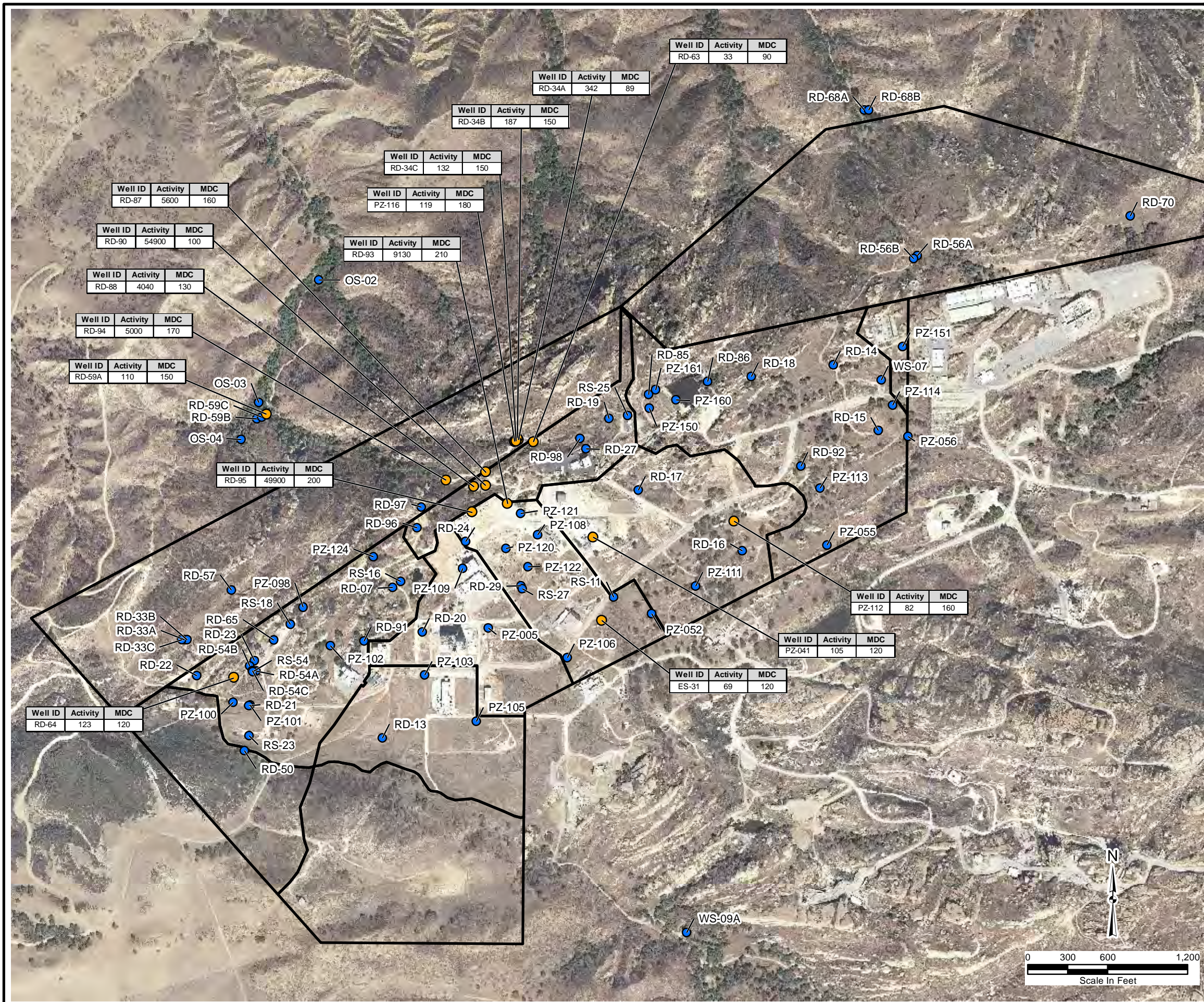
- Phase II Sample Location with H-3 Detection
- All Other Phase II Sample Locations
- Area IV and NBZ

Notes:

All activity and MDC values reported in pCi/L.

Tritium results are reported as the total concentration of the unfiltered sample.

ID - identification
 H-3 - tritium
 MDC - minimum detectable concentration
 NBZ - Northern Buffer Zone
 pCi/L - picoCuries per liter



Y:\Santa_Susana\EP9038\GW_SW_Sediment_FSP\GW_Report\
 (5-11)_GW_PhaseII_H-3_Detected.mxd
 6/27/2012 phillock
 Source: Streams, SWMUs, and AOC Data. Boeing. 2009.
 Aerial Imagery. Channel Islands Regional
 Geographic Information Systems 2007



APPENDIX A

GROUNDWATER FIELD SAMPLING DATA SHEETS

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**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---------------------------------------|--|
| Well No.: RD-07 | Site: SSFL Area IV |
| Sampler(s): TSW | Project No.: EP9038, 01.44.02 |
| Well Depth: FLUTE | Date: 09/01/10 Time: 0750 |
| DTW (ft): | DTP (ft): |
| MP Ht. Above/Below Ground Surface: | Courier: UPS Hand Other |
| Condition of Bottom of Well: | Sampling Method (G=grab, B=bailer, SP=submersible pump) FLUTE |
| Screen Interval (ft): | Type of Pump: FLUTE |
| Well Diameter (in): | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Placement of Pump (ft): FLUTE Port #3 | Sunny, Clear, No Breeze, ~ 80°F Breeze from NE |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---|------------------------------------|-----------------|--------------------|----|-----------|-----------------|-----|-------------|------------|---------------|
| 0750 | *2 | | 2 1/8 | - | - | - | - | - | - | No Water @ #1 |
| 0821 | ↓ | | 2 | - | - | - | - | - | - | ↓ |
| 0852 | | | 2 | - | - | - | - | - | - | |
| 0915 | - Sampled SMRD-07-GW090110 Port #3 | | | | | | | | | |
| Water level will be downloaded by MWH tomorrow | | | | | | | | | | |
| 09/01/10 | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): NO Odor No turb |
| Odor: None Low Medium High Very strong H2S Fuel-like NO Odor |
| Notes: Took 2 cycles to fill up the whole suite of bottles Sample collected from Port #3 |
| *1 Boring (MWH Haily and Aldrich) do not collect WQ during purging of the FLUTEs |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <i>A. Stewart</i> |

*2 Water level will be downloaded by MWH tomorrow
* Total Volume purged = 6 1/8 gallons

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: <u>RD-14</u> | Site: <u>SSFL Radiological Survey Area IV</u> |
| Sampler(s): <u>Stephanie Lepore/Monahan (HGL) / Andy Wolff (Blain Tech)</u> | Project No.: |
| Well Depth: <u>125</u> | Date: <u>8/18/10</u> Time: <u>1350</u> |
| DTW (ft): <u>82.34</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>dedicated pump (230 volt, 1/3 horse power)</u> |
| Screen Interval (ft): <u>open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>Sunny, clear, ~98° F</u> |
| Placement of Pump (ft): <u>117</u> | |

| Date | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|------------|---------------|-----------------|
| 8/18/10 | 1400 | 82.34 | 4.25 | 4.25 | — | — | — | — | — | — | Started purge |
| 8/18/10 | 1417 | — | 4.25 | 85 | 7.06 | 20.79 | 833 | -1 | 0.62 | 48.1 | |
| 8/18/10 | 1425 | 103 | 3 | 110 | 7.04 | 21.42 | 870 | -53 | 0.30 | 34.0 | |
| 8/18/10 | 1432 | — | 1 | 118 | 7.02 | 21.99 | 891 | -53 | 0.42 | 19.2 | |
| 8/18/10 | 1440 | — | 1 | 126 | 7.01 | 22.24 | 905 | -47 | 0.47 | 19.0 | |
| 8/18/10 | 1444 | Dry | 1 | 130 | — | — | — | — | — | — | well dry |
| 8/19/10 | 1145 | 82.91 | — | — | 7.00 | 25.34 | 922 | 73 | 1.66 | 132 | during sampling |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>PID 0.0 ppm</u> |
| <u>Sample ID: SMAD-014-GW 081910 / DUP: FD: SMDUP-01-GW081910</u> |
| <u>DTW = 82.91 Time = 1205 date: 8/19/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | | |
|---|--------------------|--|--------------------|
| Well No.: <u>RD-15</u> | | Site: <u>S.S.F.L. Area IV</u> | |
| Sampler(s): <u>Jason McDaniel (H4) Edwards (Blaine)</u> | | Project No.: | |
| Well Depth: <u>152.0</u> | | Date: <u>8-26-10</u> | Time: <u>11:25</u> |
| DTW (ft): <u>54.82</u> | DTP (ft): <u>—</u> | Courier: <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other | |
| MP Ht. Above/Below Ground Surface: <u>—</u> | | Sampling Method (G=grab, B=bailer, <u>SP=submersible pump</u>) | |
| Condition of Bottom of Well: <u>—</u> | | Type of Pump: <u>dedicated submersible</u> | |
| Screen Interval (ft): <u>Open Hole</u> | | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>8.25</u> | | <u>Sunny, clear ~100°F</u> | |
| Placement of Pump (ft): <u>—</u> | | | |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (DMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------|---------------------|-----------------|--------------------|------|-----------|-----------------|------|-------------|------------|-------------|
| 11:30 | 54.82 | — | — | — | — | — | — | — | — | <u>Open</u> |
| 11:42 | 64.40 | 4 gpm | 4 | 7.74 | 22.58 | 785 | -131 | 2.76 | 11.5 | |
| 11:47 | 69.77 | " | 24 | 7.24 | 20.43 | 850 | -134 | 0.65 | 59.1 | |
| 11:52 | 81.46 | " | 44 | 7.20 | 20.58 | 846 | -137 | 0.42 | 31.0 | |
| 11:57 | 89.83 | " | 64 | 7.19 | 20.68 | 846 | -137 | 0.33 | 25.5 | |
| 12:02 | 98.99 | " | 84 | 7.18 | 20.80 | 848 | -136 | 0.25 | 30.6 | |
| 12:07 | 107.12 | " | 104 | 7.18 | 20.94 | 849 | -134 | 0.23 | 35.9 | |
| 12:12 | 111.73 | " | 124 | 7.17 | 20.99 | 848 | -132 | 0.21 | 25.0 | |
| 12:17 | 117.25 | " | 144 | 7.17 | 21.13 | 845 | -128 | 0.18 | 11.7 | |
| 12:22 | 122.52 | " | 164 | 7.17 | 21.12 | 842 | -122 | 0.18 | 20.3 | |
| 12:27 | 126.18 | " | 184 | 7.17 | 21.16 | 844 | -116 | 0.17 | 26.4 | |
| 12:32 | 130.86 | " | 204 | 7.17 | 21.22 | 843 | -111 | 0.22 | 30.9 | |
| 12:37 | 135.28 | " | 224 | 7.18 | 21.28 | 837 | -106 | 0.42 | 32.9 | |
| 12:42 | 138.10 | " | 244 | 7.20 | 21.37 | 837 | -101 | 0.31 | 29.4 | |
| 12:47 | 139.41 | " | 264 | 7.22 | 21.36 | 840 | -94 | 1.24 | 61.5 | |
| 12:52 | 140.44 | " | 284 | 7.24 | 21.52 | 836 | -91 | 1.50 | 75.8 | |
| 12:57 | 141.34 | " | 304 | 7.26 | 21.48 | 837 | -82 | 1.90 | 106 | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>Sampled well @ 150 ft Total purge volume = 629 gallons</u> |
| |
| <u>1 Well Volume = 176 gal. 3 Well Volumes = 530 gal.</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>J. Edwards</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|---|--|-------------------------|
| Well No.: RD-15 | Site: SSFL Area IV | |
| Sampler(s): Jason M. Daniel (MGR) Eduardo (MGR) | Project No.: | |
| Well Depth: 152.0 | Date: 8-26-10 | Time: 11:25 |
| DTW (ft): 59.82 | DTP (ft): - | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: - | Sampling Method (G=grab, B=bailer, SP=submersible pump) | |
| Condition of Bottom of Well: - | Type of Pump: dedicated submersible | |
| Screen Interval (ft): Open Hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): 8.25 | Sunny clear ~ 100F | |
| Placement of Pump (ft): - | | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 13:02 | NA* | 4 gpm | 324 | 7.28 | 21.55 | 836 | -72 | 2.78 | 96.9 | |
| 13:07 | NA* | " | 344 | 7.29 | 21.54 | 844 | -66 | 2.74 | 86.2 | |
| 13:12 | NA* | " | 364 | 7.32 | 21.46 | 846 | -52 | 3.37 | 93.2 | |
| 13:17 | NA* | " | 384 | 7.35 | 21.25 | 841 | -41 | 4.05 | 30.6 | |
| 13:22 | NA* | " | 404 | 7.35 | 21.39 | 844 | -35 | 4.25 | 24.8 | |
| 13:27 | NA* | 3 gpm | 419 | 7.35 | 21.58 | 844 | -30 | 4.30 | 11.7 | |
| 13:32 | NA* | " | 434 | 7.35 | 21.51 | 845 | -28 | 4.55 | 10.6 | |
| 13:37 | NA* | " | 449 | 7.35 | 21.51 | 843 | -27 | 4.59 | 9.3 | |
| 13:42 | NA* | " | 464 | 7.34 | 21.52 | 845 | -27 | 4.55 | 9.9 | |
| 14:21 | NA* | 3 gpm | 464 | 7.47 | 21.57 | 843 | 17 | 5.12 | 11.3 | |
| 14:26 | NA* | " | 479 | 7.29 | 20.45 | 845 | -46 | 2.16 | 10.6 | |
| 14:31 | NA* | " | 494 | 7.27 | 20.53 | 841 | -47 | 1.77 | 6.2 | |
| 14:36 | NA* | " | 509 | 7.27 | 20.65 | 850 | -26 | 1.74 | 6.1 | |
| 14:41 | NA* | " | 524 | 7.29 | 20.75 | 850 | -14 | 2.22 | 8.5 | |
| 14:44 | NA* | " | 539 | 7.29 | 20.76 | 847 | -13 | 2.31 | 8.9 | |
| 14:47 | NA* | " | 554 | 7.30 | 20.81 | 854 | -25 | 2.40 | 9.5 | |
| 14:50 | NA* | " | 569 | 7.30 | 20.84 | 850 | -34 | 2.53 | 10.0 | |

OBSERVATIONS

| |
|--|
| Color: Clear Other (describe): |
| Odor: None Low Medium High Very strong H2S Fuel-like |
| Notes: Unable to get DTW past 142 - Probe will not go down any further Recalculated flow rate @ 13:27 @ 3 gpm 13:43 - Eduardo leaves to empty water / Back on site @ 14:20 / 14:22 began purge again Reached 3 well volumes @ 14:43 @ 3 gpm |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): JMD |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>RD-15</u> | Site: <u>SSFL Area IV</u> |
| Sampler(s): <u>Jay M. Dawid (HGL) Eduardo (Blanca)</u> | Project No.: |
| Well Depth: <u>152.0</u> | Date: <u>8-26-10</u> Time: <u>11:25</u> |
| DTW (ft): <u>54.82</u> DTP (ft): <u>—</u> | Courier: <u>UPS</u> Hand <u>Other</u> |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP= <u>submersible pump</u>) |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>Sunny, clear 100°F</u> |
| Placement of Pump (ft): <u>—</u> | |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------|---------------------|-----------------|--------------------|------|-----------|-----------------|-----|-------------|------------|----------|
| 14:53 | NA* | 3 gpm | 586 | 7.30 | 20.88 | 857 | -31 | 2.60 | 14.7 | |
| 14:56 | NA* | " | 599 | 7.30 | 20.90 | 850 | -24 | 2.75 | 13.8 | |
| 14:59 | NA* | " | 614 | 7.30 | 20.89 | 852 | -19 | 2.79 | 14.0 | |
| 15:02 | NA* | " | 629 | 7.30 | 20.93 | 854 | -14 | 2.81 | 14.5 | |
| 15:03 | Well stabilized | | | | | | | | | |
| | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>Total purge volume = 629 gallons</u> |
| |
| |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>Jay M. Dawid</u> |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|------------------------------------|--|
| Well No.: RD-16 | Site: SSFI / EPA REGION 9 |
| Sampler(s): JONATHAN VAIDETZ | Project No.: EP30 ²⁰ EP9038.01.22.04.02 |
| Well Depth: 220 | Date: 9/1/10 Time: 0725 |
| DTW (ft): 48.12 DTP (ft): | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: | Type of Pump: SUBMERSIBLE PUMP |
| Screen Interval (ft): OPEN HO/E | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 6-1/2 IN | SUNNY CLEAR |
| Placement of Pump (ft): | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|------------|--------------------|-----|-------------|------------|----------|
| 0745 | 107.50 | 5.0 | 115 | 7.03 | 19.96 | 765 | 103 | 0.84 | 1 | |
| 0800 | 133.41 | 3.75 | 173 | 7.04 | 20.28 | 784 | 42 | 0.38 | 0 | |
| 0815 | 152.79 | 3.5 | 220 | 7.08 | 20.47 | 795 | -6 | 0.29 | 0 | |
| 0830 | 165.34 | 3.25 | 283 | 7.10 | 20.66 | 810 | -24 | 0.30 | 0 | |
| 0845 | 177.98 | 3.0 | 327 | 7.11 | 20.79 | 810 | -30 | 0.27 | 0 | |
| 0900 | | 2.75 | 373 | 7.11 | 21.05 | 820 | -39 | 0.26 | 0 | |
| 0915 | | 2.5 | 416 | 7.09 | 21.30 | 826 | -45 | 0.26 | 0 | |
| 0930 | | 2.5 | 459 | 7.13 | 21.50 | 826 | -50 | 0.24 | 0 | |
| 0946 | | 2.5 | 503 | 7.16 | 21.81 | 832 | -53 | 0.22 | 0 | |
| 1000 | | 2.5 | 543 | 7.13 | 22.05 | 826 824 | -55 | 0.20 | 0 | |
| 1015 | | 2.0 | 589 | 7.15 | 22.21 | 836 | -60 | 0.19 | 0 | |
| 1031 | | 2 | 626 | 7.12 | 22.23 | 835 | -61 | 0.17 | 0 | |
| 1045 | | 2 | 663 | 7.13 | 21.07 | 838 | -63 | 0.18 | 0 | |
| 1059 | | 2 | 698 | 7.15 | 21.10 | 837 | -64 | 0.18 | 0 | |
| 1115 | | 2 | 743 | 7.16 | 21.21 | 837 | -66 | 0.18 | 0 | |
| 1131 | | 2 | 775 | 7.13 | 21.22 | 837 | -66 | 0.18 | 0 | |
| 1145 | | 2 | 812 | 7.11 | 21.28 | 836 | -68 | 0.17 | 0 | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): |
| Odor: None Low Medium High Very strong H2S Fuel-like |
| Notes: FLOWMETER 101757 START. TOTAL PURGE VOLUME 893.63 GAL. WATER TABLE TOO LOW TO COLLECT DTW AFTER 0845 READING. |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|-------------------------|
| Well No.: RD-17 | Site: 5JFL | |
| Sampler(s): Jason McDaniel (H&E) (H&E) | Project No.: | |
| Well Depth: 125 | Date: 8-24-10 | Time: 1303 |
| DTW (ft): 29.52 | DTP (ft): — | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) | |
| Condition of Bottom of Well: — | Type of Pump: dedicated submersible | |
| Screen Interval (ft): Open Hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): 8.25 | Sunny, clear midday | |
| Placement of Pump (ft): N/A | | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 13:42 | 29.52 | 6gpm | 18.0 | 7.17 | 20.77 | 883 | 217 | 0.67 | 57.0 | |
| 13:43 | 43.59 | 6gpm | 36.0 | 7.15 | 20.88 | 872 | 216 | 0.37 | 21.8 | |
| 13:46 | 51.75 | 6gpm | 52.0 | 7.15 | 20.95 | 858 | 213 | 0.29 | 15.9 | |
| 13:49 | 58.14 | 6gpm | 70.0 | 7.15 | 21.02 | 848 | 210 | 0.24 | 14.4 | |
| 13:52 | 62.88 | 6gpm | 88.0 | 7.16 | 21.07 | 817 | 207 | 0.39 | 14.2 | |
| 13:55 | 67.58 | 6gpm | 106 | 7.16 | 21.09 | 815 | 203 | 0.19 | 12.8 | |
| 13:58 | 72.52 | 6gpm | 124 | 7.18 | 21.13 | 838 | 201 | 0.18 | 13.9 | |
| 14:01 | 76.90 | 6gpm | 142 | 7.19 | 21.15 | 816 | 197 | 0.25 | 13.5 | |
| 14:04 | 81.11 | 6gpm | 160 | 7.24 | 21.15 | 777 | 195 | 0.73 | 11.2 | |
| 14:07 | 85.71 | 6gpm | 180 | 7.28 | 21.17 | 748 | 191 | 1.10 | 11.0 | |
| 14:10 | 88.91 | 6gpm | 198 | 7.28 | 21.16 | 751 | 190 | 1.16 | 11.9 | |
| 14:13 | 92.71 | 6gpm | 216 | 7.26 | 21.19 | 749 | 192 | 1.17 | 13.9 | |
| 14:16 | 95.70 | 6gpm | 234 | 7.25 | 21.22 | 751 | 193 | 1.15 | 14.6 | |
| 14:19 | 98.99 | 6gpm | 252 | 7.24 | 21.23 | 772 | 193 | 1.37 | 14.8 | |
| 14:22 | 101.53 | 6gpm | 270 | 7.25 | 21.24 | 787 | 194 | 1.89 | 19.89 | |
| 14:25 | 103.92 | 6gpm | 288 | 7.24 | 21.25 | 799 | 194 | 2.22 | 15.5 | |
| 14:28 | 105.10 | 6gpm | 306 | 7.24 | 21.25 | 803 | 195 | 2.33 | 14.5 | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like |
| Notes: <u>Well ran dry @ 1440 (Total purged = 378 gallons)</u> |
| |
| |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>J.M.D.</u> |

ATTACHMENT 1

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|---|
| Well No.: <u>RD-18</u> | Site: <u>SSFL Radiological Survey Area IV</u> |
| Sampler(s): <u>Stephanie Lopez Portman (HGL)</u> <u>Andy Wolfe (Blaine Tech)</u> | Project No.: |
| Well Depth: <u>240</u> | Date: <u>8/18/10</u> Time: <u>1200</u> |
| DTW (ft): <u>91.17</u> DTP (ft): <u>NA</u> | Courier: <u>UPS</u> <input type="checkbox"/> Hand <input type="checkbox"/> Other <input type="checkbox"/> |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>4" Grundfos (230 volt, 1/3 horsepower) dedicated pump</u> |
| Screen Interval (ft): <u>open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>sunny, clear, ~98° F</u> |
| Placement of Pump (ft): <u>231</u> | |

| Date | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-----------------|
| 8/18/10 | 1211 | 91.17 | 5 | 5 | — | — | — | — | — | — | Began Purge |
| 8/18/10 | 1231 | — | 5 | 100 | 7.37 | 19.25 | 553 | 11 | 1.54 | 9.5 | |
| 8/18/10 | 1241 | 179.00 | 5 | 150 | — | — | — | — | — | — | took DTW |
| 8/18/10 | 1251 | — | 5 | 200 | 7.39 | 19.62 | 547 | 10 | 1.64 | 9.6 | |
| 8/18/10 | 1311 | 221 | 1 | 250 | 7.40 | 20.12 | 553 | 10 | 1.45 | 10.2 | |
| 8/18/10 | 1317 | Dry | — | — | — | — | — | — | — | — | well dry |
| 8/19/10 | 1100 | 202.51 | — | — | 7.29 | 23.50 | 568 | 52 | 1.70 | 9.4 | during sampling |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>none</u> |
| Notes: <u>P10 0.0 ppm</u> |
| Sample ID: <u>SMRD-018-GW 081910</u> |
| sample date: <u>8/19/10</u> DTW = <u>202.51</u> Time: <u>1100</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

ATTACHMENT 1

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|---|
| Well No.: AD-19 | Site: SSFL Radiological Survey Area IV |
| Sampler(s): Stephanie Lepore (HGL) / Andy Wolff (Blair Tech) | Project No.: |
| Well Depth: 135 | Date: 8/18/10 |
| DTW (ft): 76.64 | DTP (ft): NA |
| MP Ht. Above/Below Ground Surface: — | Courier: UPS Hand Other |
| Condition of Bottom of Well: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) SP |
| Screen Interval (ft): open hole | Type of Pump: 230 volts, 1/2 horsepower dedicated pump |
| Well Diameter (in): 8.25 | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Sunny, clear, ~98° F |
| Placement of Pump (ft): 127 | |

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------------|-----|-------------|---------------|------------------------|
| 8/18/10 | 1515 | 76.64 | 4.5 | 4.5 | — | — | — | — | — | — | Started purging |
| 8/18/10 | 1526 | — | 4.5 | 54 | 7.19 | 20.12 | 1.57 | 59 | 0.26 | 5 | |
| 8/18/10 | 1538 | dry | 4.5 | 108 | 7.13 | 20.39 | 0.43 | 40 | 0.43 | 8 | well dry after reading |
| 8/19/10 | 1330 | 80.14 | — | — | 6.52 | 22.78 | 1,600 ^{us/cm} | 71 | 1.57 | 33 | during sampling |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like None

Notes: PID 0.0 ppm

Sample: SMAD-019-GW081910 (priority 122)

DTW: 80.14 Time: 1330 date: 8/19/10

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): *[Signature]*

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>BD-20</u> | Site: <u>S.S.F.L Area J</u> |
| Sampler(s): <u>Jason McDavid (HGL) Edwards</u> | Project No.: |
| Well Depth: <u>127.00</u> (B=baile) | Date: <u>8-26-10</u> Time: <u>0806</u> |
| DTW (ft): <u>44.11</u> DTP (ft): <u> </u> | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| MP Ht. Above/Below Ground Surface: <u> </u> | Sampling Method (G=grab, B=baile, SP=submersible pump) |
| Condition of Bottom of Well: <u> </u> | Type of Pump: <u>dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>Sunny, clear, ~85°</u> |
| Placement of Pump (ft): <u> </u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (UMHOS/CM) | ORP | D.O (MG/L) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|-----------|-----------------|-----|------------|------------|---------------|
| 0832 | 44.11 | | | | | | | | | Jan |
| 0834 | 45.93 | 7gpm | 7 | 7.18 | 20.92 | 161 | 127 | 3.66 | 85.2 | |
| 0834 | 46.40 | 7gpm | 14 | 7.20 | 21.12 | 158 | 67 | 1.71 | 10.7 | |
| 0838 | 46.40 | " | 49 | 7.20 | 21.17 | 157 | 64 | 1.18 | 11.0 | |
| 0843 | 50.10 | " | 84 | 7.21 | 21.22 | 152 | 68 | 0.88 | 12.9 | |
| 0848 | 46.53 | " | 119 | 7.21 | 21.30 | 154 | 62 | 0.62 | 18.4 | |
| 0853 | 46.40 | " | 154 | 7.22 | 21.30 | 153 | 63 | 0.56 | 10.9 | |
| 0858 | 46.70 | " | 189 | 7.23 | 21.29 | 151 | 62 | 0.52 | 12.9 | |
| 0903 | 46.91 | " | 224 | 7.24 | 21.30 | 151 | 57 | 0.58 | 11.0 | |
| 0908 | 48.50 | " | 259 | 7.24 | 21.30 | 1,500 | 51 | 0.36 | 11.3 | |
| 0916 | 48.70 | " | 259 | 7.31 | 21.62 | 1,492 | 40 | 2.25 | 65.2 | |
| 0951 | 48.65 | " | 294 | 7.27 | 21.24 | 1,458 | -24 | 1.57 | 34.1 | |
| 0956 | 50.30 | " | 329 | 7.27 | 21.31 | 1,450 | -17 | 0.56 | 31.3 | |
| 1001 | 50.29 | " | 364 | 7.27 | 21.33 | 1,427 | -3 | 0.42 | 33.9 | |
| 1006 | 50.81 | " | 399 | 7.27 | 21.34 | 1,422 | -11 | 0.34 | 33.5 | |
| 1011 | 51.03 | " | 434 | 7.27 | 21.38 | 1,442 | 1 | 0.32 | 25.5 | 3 Well Volume |
| 1014 | 50.62 | " | 469 | 7.28 | 21.39 | 1,423 | 6 | 0.30 | 29.1 | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>Water volume = 82.89</u> |
| <u>0832-0832 stopped pump to adjusted tubes on truck. 0833 restarted pump</u> |
| <u>0909 - stopped pump to unload water</u> |
| <u>1 Well Volume = 144 3 Well volumes = 432 gallons</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>J.M.D.</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: <u>RN-20</u> | Site: <u>S.S.F.L. Area IV</u> |
| Sampler(s): <u>Jason M. Daniel (HGL) Edwards</u> <u>(Plaine)</u> | Project No.: |
| Well Depth: <u>127.00</u> | Date: <u>8-26-10</u> Time: <u>0806</u> |
| DTW (ft): <u>44.11</u> DTP (ft): <u>---</u> | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| MP Ht. Above/Below Ground Surface: <u>---</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: <u>---</u> | Type of Pump: <u>dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>SUNNY, clear ~ 85°</u> |
| Placement of Pump (ft): <u>---</u> | |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------------------------|---------------------|-----------------|--------------------|------|-----------|-----------------|-----|-------------|------------|-----------------|
| 1017 | 50.74 | 7 gpm | 504 | 7.28 | 21.38 | 1424 | -5 | 0.29 | 28.7 | |
| 1020 | 50.72 | " | 539 | 7.28 | 21.38 | 1417 | 0 | 0.26 | 26.1 | |
| 1023 | 51.43 | " | 574 | 7.29 | 21.37 | 1405 | 2 | 0.25 | 23.7 | |
| 1026 | 51.62 | " | 609 | 7.29 | 21.37 | 1403 | 5 | 0.25 | 24.6 | |
| 1028 | Sampled well | | | | | | | | | Well Stabilized |
| DOM 08/24/10 | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>Total purge = 645 gallons</u> <u>Sampled @ 1028</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>J. Daniel</u> |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-------------------|
| Well No.: <u>RO-21 (port 2)</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area 14</u> | |
| Sampler(s): <u>Stephane Lepere Montrose</u> | Project No.: | |
| Well Depth: <u>175</u> | Date: <u>9/9/10</u> | Time: <u>0730</u> |
| DTW (ft): <u>NA</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> | |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>@ FLUTE</u> | |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>FLUTE wells</u> | |
| Screen Interval (ft): <u>open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>8.25</u> | <u>overcast, cool (~70°F)</u> | |
| Placement of Pump (ft): <u>FLUTE</u> | <u>cloudy - thunder in distance</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-----------------|---------------------|-----------------|--------------------|--------------|--------------|------------------|--------------|--------------|--------------|---------------------------------------|
| <u>0730</u> | <u>—</u> | <u>—</u> | <u>0.75</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>0730-0735 pumped 1 tubing vol.</u> |
| 0835 | — | — | — | — | — | — | — | — | — | |
| <u>0823</u> | <u>—</u> | <u>—</u> | <u>0.75</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>0823-0828</u> |
| <u>080918</u> | <u>—</u> | <u>—</u> | <u>0.50</u> | <u>6.58</u> | <u>18.2</u> | <u>1,253</u> | <u>185</u> | <u>1.10</u> | <u>13.3</u> | <u>0913-0918</u> |
| <u>8</u> | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>none Sulfur odor</u> |
| Notes: |
| <u>Port 2</u> |
| <u>Sample ID: SMRO-021-GW090910</u> |
| <u>Time: 1030</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|---|
| Well No.: <u>RD-22 (part 2)</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area IV</u> |
| Sampler(s): <u>Stephen's Lapagne Montrose</u> | Project No.: |
| Well Depth: <u>440</u> | Date: <u>9/9/10</u> Time: <u>0750</u> |
| DTW (ft): <u>NA</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>Flute well</u> |
| Condition of Bottom of Well: <u>-</u> | Type of Pump: <u>Flute well</u> |
| Screen Interval (ft): <u>0-8 open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>overcast, cool (~70°F)</u> |
| Placement of Pump (ft): <u>Flute well</u> | <u>cloudy - thunder in distance</u> |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|------------|-------------|------------|------------------|
| <u>0750</u> | <u>-</u> | <u>-</u> | <u>1.25</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>0750-0757</u> |
| <u>0835</u> | <u>-</u> | <u>-</u> | <u>1.50</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>0835-0842</u> |
| <u>0929</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>6.87</u> | <u>18.97</u> | <u>1.448</u> | <u>113</u> | <u>0.59</u> | <u>24</u> | <u>0929-0932</u> |
| <u>Ⓢ</u> | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>part 2</u> |
| <u>Sample ID: SMRD-022-GW090910</u> |
| <u>time: 1050</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>RD-23</u> | Site: <u>SSFL</u> |
| Sampler(s): | Project No.: |
| Well Depth: <u>440 ft</u> | Date: <u>09/01/10</u> Time: <u>1036</u> |
| DTW (ft): | DTP (ft): |
| MP Ht. Above/Below Ground Surface: | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| Condition of Bottom of Well: | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Screen Interval (ft): <u>FLUTE Port #3</u> | Type of Pump: <u>FLUTE</u> |
| Well Diameter (in): <u>10.5</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Placement of Pump (ft): <u>FLUTE Port #3</u> | <u>Sunny Clear, Slight Breeze ~ 85°F</u> |
| | <u>Breeze from NW</u> |

| | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-----------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|-------------|-------------|------------|------------------------|
| Cycle 1 1- [| <u>*2</u> | | <u>0</u> | - | - | - | - | - | - | <u>Nowater Quality</u> |
| | <u>*2</u> | | <u>1 gal</u> | - | - | - | - | - | - | |
| | | | <u>1</u> | - | - | - | - | - | - | |
| 2- [| ↓ | | <u>0.5 gal</u> | - | - | - | - | - | - | ↓ |
| 9/2/10 3- [| | | <u>0.5 gal</u> | | | | | | | ↓ |
| | | | <u>0.5 gal</u> | | | | | | | ↓ |
| | | | | | | | | | | |
| | | | | <u>7.11</u> | <u>22.05</u> | <u>0.563</u> | <u>-123</u> | <u>2.13</u> | <u>4.6</u> | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like No Odor

Notes: Boemey (Haley & Aldrich, MWH) do not collect parameters while purging the FLUTE wells

Water levels will be down loaded tomorrow by MWH

Purging Port # 3

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s):

SAMPLES SMRO-23-GW090210 COLLECTED ON 5TH CYCLE

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: <u>RD-24</u> | Site: <u>SSFL Area IV</u> |
| Sampler(s): <u>Jason McDaniel (H6L) Edwards</u> | Project No.: <u>EP9.038.01.22.000</u> ⁰⁷⁰² |
| Well Depth: <u>650</u> (Obs: <u>61</u>) | Date: <u>8-31-10</u> Time: <u>12:00</u> |
| DTW (ft): <u>71.8</u> DTP (ft): <u> </u> | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| MP Ht. Above/Below Ground Surface: <u> </u> | Sampling Method (G=grab, B=bailer, <u>SP=submersible pump</u>) |
| Condition of Bottom of Well: <u> </u> | Type of Pump: <u>dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>Sunny, clear ~ 90°</u> |
| Placement of Pump (ft): <u> </u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|------------|
| 12:04 | 39.18 | | | | | | | | | <u>ARM</u> |
| 12:18 | 50.92 | 5 | 40 | 7.16 | 20.92 | 1199 | -28 | 3.21 | 39.1 | |
| 12:23 | 57.00 | " | 65 | 7.02 | 20.97 | 1192 | -26 | 4.06 | 44.3 | |
| 12:28 | 64.90 | " | 90 | 7.01 | 21.03 | 1160 | -23 | 4.44 | 32.3 | |
| 12:33 | 83.63 | " | 115 | 7.02 | 21.06 | 1163 | -24 | 4.32 | 30.8 | |
| 12:38 | 87.37 | " | 140 | 7.02 | 21.08 | 1111 | -28 | 4.53 | 26.4 | |
| 12:43 | 90.95 | " | 165 | 6.99 | 21.10 | 1091 | -40 | 4.75 | 28.1 | |
| 12:48 | 94.43 | " | 190 | 7.03 | 21.13 | 1063 | -59 | 4.45 | 28.8 | |
| 12:53 | 97.15 | " | 215 | 7.06 | 21.15 | 1036 | -69 | 4.34 | 23.1 | |
| 12:58 | 99.86 | " | 240 | 7.09 | 21.16 | 1018 | -71 | 4.30 | 20.8 | |
| 13:03 | 102.11 | " | 265 | 7.11 | 21.19 | 995 | -71 | 5.20 | 21.1 | |
| 13:08 | 104.08 | " | 290 | 7.13 | 21.19 | 990 | -67 | 5.37 | 20.7 | |
| 13:13 | 106.41 | " | 315 | 7.14 | 21.20 | 970 | -60 | 5.40 | 19.3 | |
| 13:18 | 107.60 | " | 340 | 7.14 | 21.22 | 952 | -54 | 5.49 | 21.9 | |
| 13:23 | 109.11 | " | 365 | 7.15 | 21.26 | 963 | -51 | 5.47 | 19.1 | |
| 13:28 | 110.81 | " | 390 | 7.12 | 21.21 | 946 | -42 | 4.18 | 12.3 | |
| 13:33 | 114.22 | " | 435 | 7.18 | 21.27 | 944 | -42 | 0.81 | 11.5 | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>Water column = 110.82</u> |
| <u>Total purge volume = 700 gallons</u> |
| <u>1 Well Volume = 191 3 Well Volumes = 575 gallons</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>JPM</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: <u>RO-24</u> | Site: <u>S.S.F.L. Area IV</u> |
| Sampler(s): <u>Jason M. Dowling (HGL) Edwards</u> | Project No.: <u>EP9.038.01.22.04.02</u> |
| Well Depth: <u>150.0</u> (blaine) | Date: <u>8-31-10</u> Time: <u>12:00</u> |
| DTW (ft): <u>39.18</u> DTP (ft): <u>—</u> | Courier: <u>UPS</u> Hand Other |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, <u>SP=submersible pump</u>) |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>Sunny, clear ~ 90°</u> |
| Placement of Pump (ft): <u>—</u> | |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------|---------------------|-----------------|--------------------|------|-----------|-----------------|-----|-------------|------------|----------|
| 13:42 | 115.41 | 5 | 460 | 7.12 | 21.26 | 940 | -34 | 0.53 | 12.9 | |
| 13:47 | 116.82 | " | 485 | 7.09 | 21.26 | 941 | -31 | 0.41 | 11.2 | |
| 13:52 | 117.98 | " | 510 | 7.09 | 21.25 | 924 | -30 | 0.41 | 12.0 | |
| 13:57 | 119.30 | " | 535 | 7.09 | 21.28 | 935 | -27 | 0.43 | 11.4 | |
| 14:02 | 120.36 | " | 560 | 7.10 | 21.28 | 923 | -26 | 0.44 | 12.3 | |
| 14:05 | 120.78 | " | 585 | 7.10 | 21.28 | 929 | -25 | 0.44 | 11.3 | |
| 14:08 | 121.09 | " | 610 | 7.10 | 21.26 | 934 | -25 | 0.42 | 11.1 | |
| Well | Stab. lined | | | | | | | | | |
| 14:10 | Sampled Well | | | | | | | | | |
| | | | | | | | | | | |

OBSERVATIONS

| |
|--|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> Complete sampling @ 14:00 |
| Notes: <u>Total purge vol app 700 gallons.</u> |
| |
| |
| PURGE VOLUME CALCULATIONS For: well casing volume = $J (Rc)^2$ (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>J. Edwards</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---------------------------------------|--|
| Well No.: RD-27 | Site: SSFL Radiological Survey (EPA Region 9) Area 10 |
| Sampler(s): Stephanie Lepore Montrose | Project No.: |
| Well Depth: 150 | Date: 9/2/10 Time: 1220 |
| DTW (ft): 53.06 DTP (ft): NA | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) SP |
| Condition of Bottom of Well: — | Type of Pump: Dedicated pump |
| Screen Interval (ft): open hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 8.25 | Sunny, clear, ~95°F |
| Placement of Pump (ft): 138 | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|---------------------|
| 1249 | 92.38 | 6 | 120 | 7.19 | 19.61 | 608 | -21 | 0.82 | 7 | |
| 1334 | 135.97 | 6 | 204 | 7.13 | 19.45 | 600 | -6 | 0.69 | 7 | well dry at 230 gal |
| 0810 | 53.94 | — | 15 | 7.23 | 20.10 | 601 | 164 | 1.06 | .15 | sampled well |
| | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like None

Notes: P10 = 0.0 ppm well dry at 230 gal

Sample ID: SMRD-027-GW090310 / Blind Dil? : SM DWP-08-GW090310
 time: 0810 time: 9/3/10 / no time date = 9/3/10

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): *[Signature]*

ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-29 | Site: S.S.F.L. Area IV |
| Sampler(s): Jason M. David (HGL) & Eduardo (Blaine) | Project No.: CP9.038.01.22.04.02 |
| Well Depth: 100 | Date: 8/30/10 Time: 11:01 |
| DTW (ft): 15.80 DTP (ft): — | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: — | Type of Pump: dedicated submersible |
| Screen Interval (ft): Open Hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 8.25 | Sunny, clear ~ 70° |
| Placement of Pump (ft): — | |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------------------------|----------------------|-----------------|--------------------|------|-----------|-----------------|-----|-------------|------------|----------|
| 11:09 | 15.80 | | | | | | | | | ban |
| 11:20 | 28.19 | 7 gpm | 35 | 7.16 | 21.72 | 901 | -25 | 2.82 | 15.0 | |
| 11:25 | 41.71 | " | 70 | 7.14 | 21.82 | 906 | -11 | 1.02 | 14.8 | |
| 11:30 | 45.16 | " | 70 | 7.13 | 22.03 | 900 | -13 | 0.78 | 21.9 | |
| 11:35 | 62.20 | " | 105 | 7.12 | 21.83 | 900 | -9 | 1.10 | 13.0 | |
| 11:40 | 76.72 | " | 140 | 7.13 | 21.90 | 906 | -12 | 0.78 | 10.9 | |
| 11:45 | 89.46 | " | 175 | 7.20 | 21.97 | 896 | -22 | 2.15 | 21.2 | |
| 11:47 | Pump stopped pumping | | | | | | | | | ban |
| 8/31 0845 | 16.31 | 7 gpm | 90 | 7.15 | 21.76 | 904 | 43 | 5.66 | 17.5 | ban |
| ban 8/31/10 | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>Water column = 87.20</u> <u>8/31 = DTW 16.31</u> <u>Sampled well @ 0845</u> |
| <u>1 Well Volume = 87.20 147 gallons</u> <u>3 Well Volumes = 441 gallons</u> |
| <u>11:26-11:30 stopped purge to clean pump out. 11:30 resume purge</u> <u>Total purge = 189 gallons</u> |
| <u>11:47 pump stopped pumping, will return on 8/30 to 8/31 to collect samples (8/31)</u> <u>Total purge = 30 gal</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = $J(Rc)^2$ (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>JMD</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>RD-33B</u> | Site: <u>S.S.F.L. Area IV</u> |
| Sampler(s): <u>Jessie M (HGL) Nick (BGL)</u> | Project No.: <u>EP9038.01.22.04.02</u> |
| Well Depth: <u>415</u> | Date: <u>9-2-10</u> Time: <u>11:15</u> |
| DTW (ft): <u>304.33</u> DTP (ft): <u>—</u> | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, <u>SP=submersible pump</u>) |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>12.25 - 6.5</u> | <u>Sunny clear ~ 90°</u> |
| Placement of Pump (ft): <u>—</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|-------------|-------------|------------|----------|
| <u>1215</u> | <u>304.33</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> |
| <u>1220</u> | <u>304.33</u> | <u>N/A</u> | <u>61</u> | <u>7.43</u> | <u>21.50</u> | <u>744</u> | <u>-152</u> | <u>0.55</u> | <u>0</u> | <u>—</u> |
| <u>9/2/10</u> | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>In final Totalizer: 241393 Serial 241456</u> <u>Total purge ~ 61 gallons</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>Jessie M</u> |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-33C | Site: S.S.F.L. Area IV |
| Sampler(s): Jason M. (HGL) Nick (Blaine) Stephanie Leporello (HGL) | Project No.: EP9038.01.22.04.02 |
| Well Depth: 520.0 | Date: 9-2-10 Time: 11:15 |
| DTW (ft): 284.44 DTP (ft): — | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: — | Type of Pump: dedicated submersible |
| Screen Interval (ft): Open Hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 12.25 - 6.25 | SUNNY clear ~50°F |
| Placement of Pump (ft): — | |

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|--------|--------|---------------------|-----------------|--------------------|-------|------------|------------------|------|-------------|------------|---------------------------|
| 9/2/10 | 11:40 | 284.44 | — | — | — | — | — | — | — | — | SP |
| | 12:02 | | 7 gpm | 135 | 7.38 | 22.97 | 678 | -159 | 0.48 | 2 | |
| | 12:15 | | " | 217 | 7.32 | 23.07 | 702 | -145 | 0.29 | 9 | |
| | 12:32 | | " | 336 | 7.41 | 24.30 | 698 | -130 | 0.19 | 6 | |
| | 12:48 | 365.70 | " | 435 | 7.34 | 27.37 | 703 | -124 | 0.23 | 3 | |
| | 12:59 | | " | 509 | 7.47 | 26.97 | 693 | -140 | 0.74 | 4 | |
| | 13:15 | | " | 601 | 7.38 | 21.82 | 709 | -134 | 0.23 | 2 | |
| | 13:30 | | " | 691 | 7.35 | 22.42 | 706 | -136 | 0.13 | 2 | |
| | 13:46 | | " | 785 | 7.33 | 22.49 | 713 | -136 | 0.10 | 2 | |
| | 14:01 | | " | 859 | 7.37 | 22.80 | 715 | -136 | 0.10 | 2 | |
| | 14:16 | | " | 970 | 7.32 | 22.99 | 720 | -141 | 0.07 | 3 | |
| | 14:31 | | " | 1,027 | 7.36 | 22.50 | 714 | -138 | 0.08 | 2 | |
| | 9/4/10 | 14:46 | | " | 1,141 | 7.37 | 22.36 | 713 | -136 | 0.08 | 2 |
| 9/3/10 | 09:26 | 287.73 | 6 | 1202 | 7.44 | 24.26 | 685 | -144 | 0.85 | 55 | Collected during sampling |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like None

Notes: Initial totalizer readings: 103995 Final: 105136 / sample: SMRD-033C-GW090210
 Total purge = 1,141 gal. reached 3 well volumes @ 1445 / NIPS: SMRD-033C-GW090310 Q
 - Well returns to sample on 9/3 / MS: SMRD-033C-GW090310 MS
 1 Well Volume = 376 3 Well Volumes = 1128 time (all 3) = 0910 date = 9/3/10

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): *[Signature]*

ATTACHMENT 1

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No: RD-34A | Site: SSFL Areal Outfall #3 |
| Sampler(s): Stephanie Lepynkuta (HGL) / Ben Stevens (Blaine Tech) | Project No.: EP9038.01.22.04.02 |
| Well Depth: 60 ft | Date: 8/19/10 Time: 1110 |
| DTW (ft): 39.96 DTP (ft): NA | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: No Sediment | Type of Pump: Dedicated SP |
| Screen Interval (ft): Open Hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 8.25 | Sunny Clear Hot 85°F |
| Placement of Pump (ft): Dedicated pump 57 ft | |

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--------------------------|------|---------------------|--|--------------------|------|------------|---------------------|-----|-------------|---------------|-----------------|
| 8/19/10 | 1100 | 39.96 | 5.0 | 37 | 6.64 | 22.48 | 1,224 | 14 | 1.03 | 31 | Dry |
| 8/19/10 | 1115 | 55.56 | Final depth to water (water below pump intake) | | | | | | | | |
| 8/20/10 | 0815 | 42.05 | 0.5 | 10 | 6.89 | 23.39 | 1,251 ^{ms} | 98 | 2.12 | 9 | during sampling |
| Straw Outfall | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like No Odor

Notes: PID reading 0 ppm

* Well pumped dry after ~ 10 mins.

* The dedicated pumps

1 Vol 35 gallons

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): [Signature]

Sample ID: SMRD-034A-GW082010
Time: 0820 DTW = 42.05
Date: 8/20/10

ATTACHMENT 1

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: RD-34B | Site: SSFL Area IV - Out-fall 3 |
| Sampler(s): Stephen Lepore (HGL) Sen J. Evans (Blaine Tech) | Project No.: EP9038.01.22.04.02 |
| Well Depth: 240 ft | Date: 8/19/10 - Time: 0730 - |
| DTW (ft): 43.5 DTP (ft): NA | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: No Sediment | Type of Pump: Dedicated Submersible |
| Screen Interval (ft): Open Hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 6.25" | Sunny Clear n 75°F No wind |
| Placement of Pump (ft): dedicated pump 232 ft | |

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|---------------------|------|-------------|---------------|-----------------|
| 8/19/10 | 0815 | 43.5 | 9 | Initial | 6.71 | 19.70 | 602 | -125 | 4.49 | 1 | |
| | 0830 | NA | 9 | 180 | 7.34 | 24.90 | 537 | -168 | 0.25 | 4 | |
| | 0845 | NA | 5.5 | 248 | 7.26 | 20.44 | 586 | -153 | 1.5 | 4.5 | |
| | 0900 | NA | 5 | 288 | 7.18 | 20.96 | 626 | -166 | 0.11 | 3.3 | |
| | 0915 | NA | 3.8 | 345 | 7.17 | 21.37 | 845 | -84 | 6.0 | 1.8 | |
| | 0930 | NA | 3.8 | 391 | 7.01 | 22.51 | 863 | -65 | 6.99 | 5 | |
| | 0945 | NA | 2.25 | 418 | 6.95 | 22.81 | 879 | -58 | 6.90 | 3 | |
| | 1000 | NA | 2.0 | 456 | 6.92 | 23.26 | 889 | -51 | 6.77 | 2 | |
| | 1015 | NA | 1.5 | 495 | 6.90 | 23.40 | 895 | -47 | 6.61 | 0 | |
| | 1020 | NA | 1.0 | 515 | 6.59 | 23.66 | 898 | -46 | 6.59 | 0 | |
| 8/19/10 | 1035 | NA | 0.5 | 529 | 6.87 | 23.60 | 899 | -43 | 6.41 | 0 | Dry |
| | | | | | Dry | | | | | | |
| 8/20/10 | 0855 | 44.89 | 10 | 100 | 7.54 | 20.06 | 0.960 ^{ms} | -70 | 1.96 | 19 | during sampling |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like No Odor^{TSO} Odor

Notes: 240,252 initial flow meter reading

* The water level meter keeps getting stuck on something in well

* Well went dry right after reading 1035 * PID reading 0ppm

Casing 531 gal / 1592 gal Sample ID: SMRD-034B-GW082010 Time: 0905

PURGE VOLUME CALCULATIONS For well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): [Signature]

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No: <u>RD-54A</u> | Site: <u>SSFL Area IV</u> |
| Sampler(s): | Project No.: <u>EP9038.01.22.04.02</u> |
| Well Depth: <u>278</u> | Date: <u>09/01/10</u> Time: <u>1006</u> |
| DTW (ft): | DTP (ft): |
| MP Ht. Above/Below Ground Surface: | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| Condition of Bottom of Well: | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Screen Interval (ft): <u>Flute Port #2</u> | Type of Pump: <u>FLUTE</u> |
| Well Diameter (in): <u>6-1/4 (0-119) (5 7/8 (119-278))</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Placement of Pump (ft): <u>FLUTE Port #2</u> | <u>Sunny/clear Slight Breeze</u> |
| | <u>Breeze from NW</u> |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------------------------|---------------------|-----------------|---------------------------|-------------|--------------|------------------|-------------|-------------------------|------------|----------------|
| 1006 | <u>(#2)</u> | | <u>0</u> | - | - | - | - | - | - | No Water |
| 1028 | | | <u>1 1/4</u> | - | - | - | - | - | - | Quality |
| 1137 | | | - | - | - | - | - | - | - | |
| 1207 | ↓ | | <u>1 gal</u> | - | - | - | - | - | - | |
| <u>0740</u> | | | | - | - | - | - | - | - | |
| <u>0832</u> | | | <u>1 1/4</u> | - | - | - | - | - | - | |
| <u>0810</u> | | | | <u>6.84</u> | <u>22.09</u> | <u>0.817</u> | <u>-161</u> | <u>0.98^v</u> | <u>6.2</u> | <u>DO 0.74</u> |
| <u>0832^v</u> | | | <u>+ 1/4²⁰</u> | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>No Odor</u> |
| Notes: <u>* Hailey and Aldrich and MWH (Boeing) did not collect water quality during purging</u> |
| <u>Water levels will be downloaded by MWH tomorrow</u> |
| <u>Purging Port # 2</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

(#2) Depth to water will be collected by MWH tomorrow
 1356- SAMPLE SMRD-54A-GW 090210 COLLECTED ON 3RD SAMPLING CYCLE.

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|--------------------------------------|--|-------------------------|
| Well No.: RD-54B | Site: SSFL Biological Survey (EPA Region 9) Area IV | |
| Sampler(s): Stephen Lepuy Montou | Project No.: | |
| Well Depth: 437 | Date: 8/31/10 | Time: 1610 |
| DTW (ft): 314.55 | DTP (ft): NA | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) SP | |
| Condition of Bottom of Well: — | Type of Pump: Dedicated | |
| Screen Interval (ft): open hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): 12.125 | sunny, clear, ~85°F | |
| Placement of Pump (ft): | | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 1610 | 314.55 | 5 | 10 | 6.97 | 20.78 | 820 | 83 | 2.37 | 9 | Sample |
| | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): clear |
| Odor: None Low Medium High Very strong H2S Fuel-like None |
| Notes: PID = 0.0 ppm |
| Sample ID: SMRO-054B-6W083110 |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|--|--|-------------------|
| Well No.: <u>RD-54C</u> | Site: <u>SSPL Radiological Survey (BPA Region 9) Area 10</u> | |
| Sampler(s): <u>Stephen Legum Norman</u> | Project No.: | |
| Well Depth: <u>638</u> | Date: <u>9/1/10</u> | Time: <u>1445</u> |
| DTW (ft): <u>435.4</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> | |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> | |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>Dedicated pump</u> | |
| Screen Interval (ft): <u>open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>12.125</u> | <u>Sunny, clear vs 90° F</u> | |
| Placement of Pump (ft): <u>(see pump form)</u> | <u>8</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|-------------|-------------|------------|-------------------------|
| <u>1454</u> | <u>435.49</u> | <u>4</u> | <u>8</u> | <u>8.45</u> | <u>20.75</u> | <u>627</u> | <u>-105</u> | <u>1.49</u> | <u>30</u> | <u>sample collected</u> |
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OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>none</u> |
| Notes: <u>PID=0.0 ppm</u> |
| <u>SMRD-054C-GW090110</u> |
| <u>Time: 1455 date: 9/1/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: <u>RD-56A</u> | Site: <u>SSFL Area IV</u> |
| Sampler(s): <u>Jason M. David (HGL) Edwards (BGL)</u> | Project No.: |
| Well Depth: <u>397.50</u> | Date: <u>8-25-10</u> Time: <u>0942</u> |
| DTW (ft): <u>318.16</u> DTP (ft): <u>—</u> | Courier: <u>UPS Hand Other</u> |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>Dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>12.25</u> | <u>clear, sunny, light wind ~ 90°</u> |
| Placement of Pump (ft): <u>—</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-----------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|-------------|
| 1022 | 318.16 | | | | | | | | | began purge |
| 1025 | 334.00 | 4 gpm | 12 | 7.13 | 18.78 | 1036 | -31 | 3.67 | 62.0 | |
| 1028 | 339.00 | 4 gpm | 24 | 7.11 | 19.16 | 1035 | 6 | 5.50 | 20.9 | |
| 1031 | 343.27 | 4 gpm | 36 | 7.11 | 19.57 | 1035 | 17 | 5.33 | 30.0 | |
| 1034 | 347.86 | 4 gpm | 48 | 7.11 | 19.77 | 1037 | 19 | 5.37 | 18.5 | |
| 1037 | 355.19 | 4 gpm | 60 | 7.12 | 19.50 | 1034 | 26 | 5.53 | 8.5 | |
| 1040 | 361.90 | 4 gpm | 72 | 7.13 | 19.78 | 1022 | 33 | 5.32 | 7.0 | |
| 1043 | 367.95 | 4 gpm | 84 | 7.14 | 19.82 | 1031 | 37 | 4.96 | 4.0 | |
| 1046 | 374.76 | 4 gpm | 96 | 7.13 | 19.86 | 1025 | 41 | 4.72 | 3.5 | |
| 1049 | 380.94 | 4 gpm | 108 | 7.13 | 19.86 | 1023 | 44 | 4.63 | 4.3 | |
| 1052 | 384.65 | 4 gpm | 120 | 7.13 | 19.90 | 1026 | 48 | 4.47 | 4.8 | |
| 1052 | Well ran dry | | | | | | | | | |
| 8/26 0740 | 342.30 | 4 gpm | 40 | 7.16 | 17.86 | 1021 | 206 | 3.48 | 40.7 | arr |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>Well ran dry @ 1052 - will return on 8/26 to collect sample</u> |
| <u>Total purge volume = 120 gallons</u> |
| <u>Returned to well on 8/26: DTW = 342.30</u> |
| <u>8/25 water volume = 79.34 8/26 water volume = 55.20</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>J. David</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

Page of

| | |
|--|--|
| Well No.: RD56B | Site: SSF1 |
| Sampler(s): JONATHAN VALDEZ | Project No.: EP9038.01.22.04.02 |
| Well Depth: 463 | Date: 8/31/10 Time: 0722 |
| DTW (ft): 174.28 DTP (ft): | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: | Type of Pump: SUBMERSIBLE PUMP |
| Screen Interval (ft): OPEN HOLE | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): | SUNNY/CLEAR |
| Placement of Pump (ft): | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|----------------------|------|------------|------------------|------|-------------|------------|----------|
| 0742 | 182.56 | 15 | 290 | 7.45 | 18.67 | 655 | -246 | 1.59 | 4 | |
| 0802 | 182.64 | 15.5 | 611 | 7.30 | 19.03 | 713 | -162 | 0.75 | 7 | |
| 0817 | 182.70 | 15.5 | 837 | 7.31 | 18.44 | 705 | -143 | 0.53 | 4 | |
| 0832 | 182.75 | 15.5 | 1,087 | 7.16 | 19.36 | 716 | -137 | 0.33 | 3 | PH 7.34 |
| 0847 | 182.78 | 15.5 | 1322 | 7.31 | 19.13 | 709 | -134 | 0.32 | 1 | |
| 0901 | 182.81 | 15.5 | 1550 | 7.30 | 19.12 | 722 | -131 | 0.30 | 1 | |
| - | - | - | 1690 | - | - | - | - | - | - | |
| 1040 | 180.55 | 15.5 | 1999 | 7.27 | 20.42 | 724 | -126 | 0.58 | 2 | |
| 1055 | 181.79 | 15.5 | 2,184 | 7.31 | 21.32 | 722 | -129 | 0.39 | 2 | |
| 1110 | 182.24 | 15.5 | 2,425 | 7.35 | 22.20 | 722 | -128 | 0.29 | 2 | |
| 1125 | 182.70 | 15.5 | 2,642 | 7.34 | 21.54 | 723 | -127 | 0.24 | 1 | |
| 1140 | 182.73 | 15.5 | 2,863 | 7.32 | 22.48 | 722 | -128 | 0.21 | 1 | |
| 1155 | 182.75 | 15.5 | 3,115 | 7.34 | 22.64 | 725 | -130 | 0.20 | 1 | |
| 1210 | 182.79 | 15.5 | 3232 3327 | 7.32 | 22.83 | 721 | -129 | 0.20 | 1 | |
| 1225 | 182.82 | 15.5 | 3577 | 7.30 | 22.95 | 720 | -129 | 0.20 | 0 | |
| | | | | | | | | | | |
| | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): |
| Odor: None Low Medium High Very strong H2S Fuel-like |
| Notes: TOTALIZER START 97548 TOTALIZER END 99236 |
| COLLECTED SAMPLE SM RD-56B-GW083/10 P1 AND P2 |
| 0917 STOP PURGE START TOTALIZER 99236 TOTALIZER END 101275 STOP PURGE AT 1240 TOTAL PURGE 3,727 |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>RD-63</u> | Site: <u>S.S.F.L. Area IV</u> |
| Sampler(s): <u>Saxon M & Daniel / HGL Nick</u> | Project No.: <u>EP9.038.01.22.04.02</u> |
| Well Depth: <u>230.0</u> (Blaise) | Date: <u>9-2-10</u> Time: <u>0705</u> |
| DTW (ft): <u>23.12</u> DTP (ft): <u>—</u> | Courier: <u>UPS Hand Other</u> |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, <u>SP=submersible pump</u>) |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.25</u> | <u>Sunny, clear in 70°</u> |
| Placement of Pump (ft): <u>—</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|--------------------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|-----------|-------------|------------|-----------|
| <u>0717</u> | <u>23.12</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>SM</u> |
| <u>0749</u> | <u>35.40</u> | <u>5.75</u> | <u>145</u> | <u>6.72</u> | <u>18.72</u> | <u>1,179</u> | <u>47</u> | <u>0.78</u> | <u>4</u> | |
| <u>0801</u> | <u>47.63</u> | <u>6.50</u> | <u>290</u> | <u>6.73</u> | <u>18.82</u> | <u>1,179</u> | <u>67</u> | <u>0.64</u> | <u>2</u> | |
| <u>0817</u> | <u>50.62</u> | <u>"</u> | <u>415</u> | <u>6.77</u> | <u>20.25</u> | <u>1,202</u> | <u>38</u> | <u>0.72</u> | <u>1</u> | |
| <u>0831</u> | <u>51.98</u> | <u>"</u> | <u>490</u> | <u>6.78</u> | <u>22.50</u> | <u>1,201</u> | <u>34</u> | <u>0.48</u> | <u>1</u> | |
| <u>0851</u> | <u>52.64</u> | <u>"</u> | <u>620</u> | <u>6.85</u> | <u>23.01</u> | <u>1,181</u> | <u>32</u> | <u>0.51</u> | <u>0</u> | |
| <u>0900</u> | <u>53.60</u> | <u>"</u> | <u>695</u> | <u>6.88</u> | <u>23.15</u> | <u>1,196</u> | <u>33</u> | <u>0.36</u> | <u>0</u> | |
| <u>0915</u> | <u>57.16</u> | <u>"</u> | <u>795</u> | <u>6.79</u> | <u>21.70</u> | <u>1,199</u> | <u>34</u> | <u>0.45</u> | <u>0</u> | |
| <u>0930</u> | <u>58.90</u> | <u>"</u> | <u>896</u> | <u>6.79</u> | <u>21.96</u> | <u>1,203</u> | <u>39</u> | <u>0.49</u> | <u>0</u> | |
| <u>0945</u> | <u>60.67</u> | <u>"</u> | <u>996</u> | <u>6.78</u> | <u>22.14</u> | <u>1,200</u> | <u>43</u> | <u>0.52</u> | <u>0</u> | |
| <u>1000</u> | | <u>"</u> | <u>1,099</u> | <u>6.78</u> | <u>22.17</u> | <u>1,205</u> | <u>45</u> | <u>0.50</u> | <u>0</u> | |
| <u>Well Stabilized</u> | | | | | | | | | | |
| <u>1005 Sampled Well</u> | | | | | | | | | | |
| <u>in 9/2/10</u> | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like |
| Notes: <u>0715 - began purge</u> |
| <u>Totalize = 102839 (start 095) Reached 3 well volumes @ 1000</u> |
| <u>1 Well Volume = 358.84 3 Well Volumes = 1076</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>JB</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | | |
|-------------------------------------|-----------|--|------------|
| Well No.: RD-65 | | Site: SSFL Area IV | |
| Sampler(s): | | Project No.: | |
| Well Depth: | | Date: 09/01/10 | Time: 1048 |
| DTW (ft): | DTP (ft): | Courier: UPS Hand Other | |
| MP Ht. Above/Below Ground Surface: | | Sampling Method (G=grab, B=bailer, SP=submersible pump) | |
| Condition of Bottom of Well: | | Type of Pump: FLUTE | |
| Screen Interval (ft): FLUTE Port #6 | | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): | | Sunny Clear, Slight breeze w. 85°F | |
| Placement of Pump (ft): FLUTE #6 | | Breeze from NW | |

| | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|-----------|------------------|-----|-------------|------------|----------|
| 1- | 1048 | *2 | | 0 | - | - | - | - | - | - | No water |
| | 1116 | *2 | | 0.25 | - | - | - | - | - | - | Quality |
| 2- | 1228 | ↓ | | - | - | - | - | - | - | - | ↓ |
| 09/2/10 | 1252 | | | 0.25 | - | - | - | - | - | - | |
| | 0855 | | | - | - | - | - | - | - | - | ↓ |
| 3- | 0902 | ↓ | | 1.5 | - | - | - | - | - | - | |
| 4- | 1033 | | | - | - | - | - | - | - | - | |
| | 1044 | | | 1.5 | - | - | - | - | - | - | |
| 5- | 1235 | | | - | - | - | - | - | - | - | |
| | 1257 | | | 1.5 | - | - | - | - | - | - | |
| | - | - | - | - | - | - | - | - | - | - | |
| | | | | | 7.44 | 23.32 | .588 | 63 | 1.80 | 15.5 | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like NO Odor

Notes: Boeing (Haley & Aldrich) and MWH do not collect water quality parameters while purging the FLUTES

Water levels will be downloaded by MWH tomorrow

Had to sample Port 6 because 4 & 5 were dry

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s):

9/2/10 - will PURGE FROM PORT #7 INSTEAD OF PORT #6

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|---|
| Well No.: <u>RD-70</u> | Site: <u>SSFL Area IV</u> |
| Sampler(s): <u>TSW</u> | Project No.: <u>EP9038.01.22.04.02</u> |
| Well Depth: <u>278'</u> | Date: <u>8/23/10</u> Time: <u>0815</u> |
| DTW (ft): <u>144.61</u> DTP (ft): | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| MP Ht. Above/Below Ground Surface: | Sampling Method (G=grab, B=bailer, <u>SP</u> =submersible pump) |
| Condition of Bottom of Well: <u>good</u> | Type of Pump: <u>Dedicated Submersible</u> |
| Screen Interval (ft): <u>open hole</u> | Weather (<u>sun</u> /clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>12"</u> | <u>Hot Sunny Clear no wind</u> |
| Placement of Pump (ft): <u>Dedicated Submersible</u> | |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (µMHO/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---|---------------------|-----------------|--------------------|------|-----------|----------------|------|-------------|------------|------------|
| 0815 | 144.61 | 7 | — | — | — | — | — | — | — | Initial WL |
| 0845 | 144.61 | 7 | 115 | 6.87 | 20.30 | 999 | -174 | 3.15 | 20 | |
| 0900 | 144.61 | 7 | 231 | 6.94 | 21.34 | 1007 | -156 | 1.43 | 23 | |
| 0915 | 144.62 | 7 | 346 | 6.96 | 19.96 | 1011 | -145 | 0.55 | 5 | |
| 0959 | 144.61 | 7 | 462 | 6.94 | 20.22 | 1010 | -97 | 1.03 | 1 | |
| 1015 | 144.62 | 7 | 577 | 7.01 | 20.75 | 1006 | -94 | 0.53 | 2 | |
| 1032 | 144.62 | 7 | 693 | 7.04 | 20.48 | 1009 | -98 | 0.06 | 2 | |
| 1035 | Sample | | | | | | | | | |
| <i>[Handwritten signature and scribbles across the table]</i> | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>No Odor</u> |
| Notes: <u>well stabilized</u> <u>Calculated purge vol = 696.22 (3vol)</u> |
| <u>Sampled Priority 1 analytes 1035</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <i>[Handwritten signature]</i> |

ATTACHMENT 1

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|---|-------------------------|
| Well No.: RD-85 | Site: SSFL Radiological Survey Area IV | |
| Sampler(s): Andy Wolff (Blair Tech) / Stephen Gryn (HGL) | Project No.: | |
| Well Depth: 90 | Date: 8/18/10 | Time: 1100 |
| DTW (ft): 59.71 | DTP (ft): NA | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump disposable bailer) | |
| Condition of Bottom of Well: no sediment | Type of Pump: 2" Grunfos | |
| Screen Interval (ft): open hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): 8 | sunny / clear / hot (~98°F) | |
| Placement of Pump (ft): 89 | ② sample ID (see bottom) | |

| Date | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|--------------------|
| 8/13/10 | 1103 | 59.71 | 3 | 3 | — | — | — | — | — | — | Began Purge |
| 8/18/10 | 1108 | — | 3 | 15 | 6.72 | 20.63 | 1,394 | 89 | 0.50 | 10.1 | |
| 8/18/10 | 1113 | — | 3 | 30 | 6.75 | 20.95 | 1,395 | 83 | 0.41 | 10.1 | |
| 8/18/10 | 1118 | — | 3 | 45 | 6.74 | 21.09 | 1,388 | 82 | 0.71 | 9.8 | well dry at 45 gal |
| 8/19/10 | 0910 | 82.81 | — | — | 6.76 | 28.98 | 1,328 | 106 | 4.79 | 9.6 | during sampling |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): Clear |
| Odor: None Low Medium High Very strong H2S Fuel-like None |
| Notes: PID 0.0 ppm |
| Sample ID: SM RD-085 - GW 081910 |
| Sample date: 8/19/10 DTW = 82.81 Time: 0940 |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): [Signature] 8/19/10 |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|--|--|-------------------------|
| Well No.: RD-86 | Site: SSFL Radiological Survey Area IV | |
| Sampler(s): Stephens Lepp (MGL) / Andy Wolff (Blaine Tech) | Project No.: | |
| Well Depth: 80 | Date: 8/18/10 | Time: 1435 |
| DTW (ft): 38.71 | DTP (ft): NA | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) SP | |
| Condition of Bottom of Well: — | Type of Pump: dedicated pump 230 volts, 1/3 horse power | |
| Screen Interval (ft): open hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): 8 | Sunny, clear, ~98° F | |
| Placement of Pump (ft): 76 | | |

| Date | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-----------------|
| 8/18/10 | 14:35 | 38.71 | 8 | 23 | 7.37 | 19.87 | 0.911 | 76 | 4.34 | 45 | start purge |
| 8/18/10 | 14:38 | 75.02 | 8 | 56 | 7.18 | 19.45 | 0.901 | 100 | 3.82 | 28 | end purge |
| 8/19/10 | 1440 | 56.62 | — | — | 6.55 | 20.71 | 908 | 93 | 4.94 | 18.1 | during sampling |
| (8) | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like None

Notes: PID 0.0 ppm
waited 24 hours to sample (did not recharge to 80%)
Sample ID: SRD-086-GW031910 / Equip ment Blank: SMPinsate-01-EB081910

Time: 1445 data: 8/19/10 DTW: / time: 1250

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): *[Signature]*

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|--|--|-------------------|
| Well No.: <u>RO-87</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area 10</u> | |
| Sampler(s): <u>Stephanie Lepore Montrose</u> | Project No.: | |
| Well Depth: <u>60</u> | Date: <u>9/2/10</u> | Time: <u>0850</u> |
| DTW (ft): <u>47.19</u> DTP (ft): <u>NA</u> | Courier: <u>UPS</u> Hand Other | |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP*</u> | |
| Condition of Bottom of Well: <u>-</u> | Type of Pump: <u>Grupos non dedicated</u> | |
| Screen Interval (ft): <u>open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>8</u> | <u>Sunny, clear, ~90°F</u> | |
| Placement of Pump (ft): <u>59</u> | | |

| Date | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------------|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|------------|--------------|------------|-------------------------|
| <u>9/1/10</u> | <u>0909</u> | <u>-</u> | <u>7</u> | <u>8</u> | <u>6.57</u> | <u>19.69</u> | <u>1138</u> | <u>103</u> | <u>20.20</u> | <u>20</u> | <u>DO = 0.21</u> |
| <u>9/1/10</u> | <u>0911</u> | <u>-</u> | <u>4</u> | <u>16</u> | <u>6.64</u> | <u>19.81</u> | <u>1148</u> | <u>105</u> | <u>20.20</u> | <u>20</u> | <u>DO = 0.20</u> |
| <u>9/2/10</u> | <u>0910</u> | <u>50.71</u> | <u>-</u> | <u>-</u> | <u>6.61</u> | <u>20.30</u> | <u>1215</u> | <u>104</u> | <u>1.54</u> | <u>10</u> | <u>collected sample</u> |
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OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>PID = 0.0 ppm</u> <u>well dry at 16 gallons</u> |
| Sample ID: <u>SSRD-087-GW090210</u> / DWP: <u>SSRDWP-05-GW090210</u> |
| Time: <u>0910</u> Date: <u>9/2/10</u> / Date: <u>9/2/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: <u>RD-90</u> | Site: <u>SSFL Radiological Survey (EPA Region 9)</u> |
| Sampler(s): <u>Stephanie Lapeyre Montrose</u> | Project No.: |
| Well Depth: <u>125</u> | Date: <u>9/1/10</u> Time: <u>1030^{AM}</u> |
| DTW (ft): <u>33.60</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> |
| Condition of Bottom of Well: <u>-</u> | Type of Pump: <u>Grundfos non dedicated pump</u> |
| Screen Interval (ft): <u>open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8</u> | <u>Sunny, clear, ~90° F</u> |
| Placement of Pump (ft): <u>124</u> | |

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------------|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|-----------|-------------|------------|-------------------------|
| <u>9/1/10</u> | <u>1054</u> | <u>93.23</u> | <u>7</u> | <u>70</u> | <u>6.75</u> | <u>21.85</u> | <u>1182</u> | <u>95</u> | <u>2.10</u> | <u>40</u> | |
| <u>9/1/10</u> | <u>1104</u> | <u>104</u> | <u>7</u> | <u>140</u> | <u>6.79</u> | <u>22.01</u> | <u>1199</u> | <u>90</u> | <u>2.94</u> | <u>100</u> | |
| <u>9/1/10</u> | <u>1157</u> | <u>120</u> | <u>7</u> | <u>210</u> | <u>6.81</u> | <u>22.77</u> | <u>1205</u> | <u>88</u> | <u>5.14</u> | <u>160</u> | <u>dry at 245 gal</u> |
| <u>9/2/10</u> | <u>1005</u> | <u>36.13</u> | <u>-</u> | <u>-</u> | <u>6.81</u> | <u>21.11</u> | <u>1027</u> | <u>89</u> | <u>1.77</u> | <u>44</u> | <u>collected sample</u> |
| <u>⊕</u> | | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>NONE</u> |
| Notes: <u>PI = 0.0 ppm</u> <u>unloaded purge water into beaker tanks halfway through</u> <u>purge of RD-90</u> |
| Sample ID: <u>SMD-090-GW090210</u> } <u>well RD-90 dry at 245 gallons</u> <u>SMD-090-GW090210 MS</u> } <u>time: 1005 date: 9/2/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|---|
| Well No.: <u>RD-93</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area 10</u> |
| Sampler(s): <u>Stephane Lepere Marton</u> | Project No.: |
| Well Depth: <u>60</u> | Date: <u>9/1/10</u> @ Time: <u>1230</u> |
| DTW (ft): <u>34.47</u> DTP (ft): <u>NA</u> | Courier: <u>UPS</u> <input type="checkbox"/> Hand <input type="checkbox"/> Other <input type="checkbox"/> |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> |
| Condition of Bottom of Well: <u>-</u> | Type of Pump: <u>Grunds non dedicated pump</u> |
| Screen Interval (ft): <u>open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8</u> | <u>Sunny, clear, ~90°F</u> |
| Placement of Pump (ft): <u>59</u> | |

| Date | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|--------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|-----------------------|
| 9/1/10 | 1245 | — | 4 | 8 | 6.49 | 20.86 | 2000-1700 | 115 | 2.62 | 2,000 | |
| 9/1/10 | 1247 | — | 4 | 16 | 6.48 | 20.99 | 2000-1680 | 112 | 2.04 | 2,000 | |
| 9/1/10 | 1250 | — | 3 | 25 | 6.50 | 21.00 | 1983-1630 | 102 | 0.83 | 1,983 | well dry at 25 yellow |
| 9/2/10 | 1040 | 34.59 | — | — | 6.64 | 27.82 | 1500 | 94 | 1.22 | 40 | collecting sample |
| (S) | | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Brown</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>PID = 0.0 ppm</u> <u>well dry at 25 yellow</u> |
| Sample: <u>SMRD-093-GW-090210</u> <u>time = 1040</u> |
| <u>@ 090210</u> <u>date = 9/2/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>RD-94</u> | Site: <u>S.S.F.L Area IV</u> |
| Sampler(s): <u>John M. David (H66) Edwards</u> | Project No.: <u>EP9038.01.22.04.02</u> |
| Well Depth: <u>35.0</u> (Blaine) | Date: <u>8-30-10</u> Time: <u>0822</u> |
| DTW (ft): <u>18.39</u> DTP (ft): <u>---</u> | Courier: <u>UPS</u> Hand Other |
| MP Ht. Above/Below Ground Surface: <u>---</u> | Sampling Method (G=grab, B=bailer, <u>SR=submersible pump</u>) |
| Condition of Bottom of Well: <u>---</u> | Type of Pump: <u>non-dedicated submersible</u> |
| Screen Interval (ft): <u>Open Hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8.0</u> | <u>Sunny, clear ~ 70°</u> |
| Placement of Pump (ft): <u>---</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------|----------------------|-----------------|--------------------|------|------------|------------------|------|-------------|------------|----------|
| 0837 | 18.39 | --- | --- | --- | --- | --- | --- | --- | --- | Jan |
| 0908 | 19.91 | 1 gpm | 5 | 7.08 | 17.74 | 1,232 | -130 | 0.52 | 357 | |
| 0913 | 19.01 | " | 10 | 7.00 | 17.92 | 1,223 | -118 | 0.12 | 260 | |
| 0918 | 19.06 | " | 15 | 6.98 | 18.05 | 1,208 | -112 | 0.04 | 235 | |
| 0923 | 19.30 | " | 20 | 6.94 | 18.55 | 1,197 | -91 | 1.04 | 298 | |
| 0933 | 19.22 | " | 20 | 7.05 | 21.82 | 1,198 | -108 | 1.00 | 5,999 | |
| 0947 | 24.54 | 4 gpm | 20 | 7.08 | 17.54 | 1,257 | -132 | 0.33 | 1,346 | |
| 0952 | 26.87 | " | 40 | 6.99 | 17.36 | 1,204 | -93 | 1.06 | 518 | |
| 0957 | 28.01 | " | 60 | 6.95 | 17.28 | 1,213 | -53 | 1.56 | 116 | |
| 1002 | 29.54 | " | 80 | 6.96 | 17.25 | 1,212 | -38 | 1.81 | 101 | |
| 1007 | 30.42 | " | 100 | 6.95 | 17.29 | 1,221 | -27 | 3.02 | 384 | |
| 1012 | 30.51 | " | 120 | 6.95 | 17.43 | 1,222 | -14 | 3.84 | 180 | |
| 1017 | 30.51 | " | 140 | 6.95 | 17.57 | 1,218 | -13 | 4.29 | 194 | |
| 1020 | Pump stopped pumping | | | | | | | | | Jan |
| 08/31 | 19.15 | 4 gpm | 0 | 6.95 | 17.08 | 1,229 | -4 | 4.50 | 876 | Jan |

OBSERVATIONS

Color: Clear Other (describe): Cloudy, yellowish brown in color

Odor: None Low Medium High Very strong H2S Fuel-like None

Notes: Water column: 16.61 0923-0933-pump Sealed (overwater)

1 Well Volume = 16.61 x 2.61 = 43.35 *pump failed again @ 0934. Removed

3 Well Volumes = 43.35 x 3 = 130.06 sleeve from pump set pump @ 33.0 BTD

8/31/10 DTW = 19.15 0755-Sampled well New flow rate of 4 gpm 8/31 Total purge = 20 gal

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): John M. David

ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: <u>RD-95</u> | Site: <u>SSFC Radiological Survey (EPA Region 9)</u> |
| Sampler(s): <u>Stephanie Lopez-Morales</u> | Project No.: |
| Well Depth: <u>80</u> | Date: <u>9/1/10</u> Time: <u>1310</u> |
| DTW (ft): <u>52.70</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> |
| Condition of Bottom of Well: <u>-</u> | Type of Pump: <u>Grundfos non-dedicated pump</u> |
| Screen Interval (ft): <u>open hole</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>8</u> | <u>Sunny, clear, ~90°F</u> |
| Placement of Pump (ft): <u>79</u> | |

Date
9/1/10
9/1/10
9/1/10
9/1/10

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-----------------|---------------------|-----------------|--------------------|--------------|------------------|------------------|--------------|--------------|--------------|--------------------|
| 1343 | — | 3 | 9 | 6.40 | 19.79 | 1385 | 113 | 0.89 | 5999 | |
| 1346 | 77.14 | 3 | 18 | 6.42 | 20.13 | 1383 | 111 | 0.55 | 5999 | |
| 1349 | — | 3 | 27 | 6.43 | 20.14 | 1388 | 110 | 0.51 | 5999 | well dry at 33 gal |
| 1120 | — | — | — | — | 21.97 | — | — | — | — | — |
| 1120 | 83.02 | — | — | 6.45 | 21.97 | 1400 | 107 | 1.90 | 1497 | Sampling |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Brown</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>PLD = 0, 0 ppm</u> <u>well dry at 33 gal</u> <u>Rinsate</u> |
| DUP: <u>SM DUP - 06 - GW090210</u> <u>Sample: SM Source - 12 - 58090210</u> |
| <u>Sample: SM RD - 95 - GW020210</u> <u>SM Rinsate - 12 - 58090210</u> |
| <u>Time: 1120</u> <u>(both) Time: 1325/1110 date: 9/2/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

took equip. blank yesterday, but no sampling, so took equip. blank today at same well

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|---|--|-------------------------|
| Well No.: RD-96 | Site: SSFL Radiological Survey Area IV | |
| Sampler(s): Andy Wolf / Stephanie Lepeyn <small>(Graben Tech) (Mottrose)</small> | Project No.: | |
| Well Depth: 90 | Date: 8/18/10 | Time: 0920 |
| DTW (ft): 59.86 | DTW (ft): NA | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) <i>disposable bailer</i> | |
| Condition of Bottom of Well: no sediment | Type of Pump: 2" Grundfos | |
| Screen Interval (ft): open hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): 8.625 / 4 | Sunny, clear, ~95° F | |
| Placement of Pump (ft): 89 | Sample ID: SM RD-096-GW 081910 (see bottom of sheet) | |

| Date | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------------------|
| 8/18/10 | 1000 | 59.86 | 2 | 2 | — | — | — | — | — | — | Started purging |
| 8/18/10 | 1005 | — | 2 | 10 | 6.60 | 19.66 | 1,001 | 97 | 0.92 | 75.1 | |
| 8/18/10 | 1010 | — | 2 | 20 | 6.70 | 20.10 | 989 | 88 | 0.96 | 123 | |
| 8/18/10 | 1014 | dry | 2 | 28 | — | — | — | — | — | — | Dewatered (well dry) |
| 8/19/10 | 0800 | 60.21 | — | — | 6.65 | 21.18 | 978 | 121 | 1.96 | 42.0 | during sampling |
| (A large blue diagonal line is drawn across the remaining rows of the table, with a circled 'B' in the center.) | | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <i>clear</i> |
| Odor: None Low Medium High Very strong H2S Fuel-like <i>None</i> |
| Notes: |
| MP20 QED flow cell (QDO3460 serial #) |
| Multi Rae PID 0.0 ppm (serial # 095-521573) |
| Sample date: 8/19/10 time: 0835 DTW: 60.21 sample ID: SM RD-096-GW 081910 |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-------------------|
| Well No.: <u>RD-98</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area IV</u> | |
| Sampler(s): <u>Stephanie Lepynn Morhose</u> | Project No.: | |
| Well Depth: <u>65</u> | Date: <u>9/1/10</u> | Time: <u>0800</u> |
| DTW (ft): <u>40.39</u> DTP (ft): <u>NA</u> | Courier: <u>UPS</u> Hand Other | |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> | |
| Condition of Bottom of Well: <u>-</u> | Type of Pump: <u>Grundfos non dedicated pump</u> | |
| Screen Interval (ft): <u>-</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>~10</u> | <u>Sunny, clear, ~90°F</u> | |
| Placement of Pump (ft): <u>64</u> | | |

| Date | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------------|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|------------|-------------|------------|------------------------------------|
| <u>9/1/10</u> | <u>0820</u> | <u>-</u> | <u>6</u> | <u>30</u> | <u>6.67</u> | <u>18.98</u> | <u>770</u> | <u>136</u> | <u>1.53</u> | <u>7</u> | <u>well went dry at 43 gallons</u> |
| <u>9/1/10</u> | <u>0740</u> | <u>40.49</u> | <u>-</u> | <u>-</u> | <u>6.71</u> | <u>19.31</u> | <u>775</u> | <u>109</u> | <u>1.39</u> | <u>31</u> | <u>collected sample</u> |
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OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>PIV=0.0 ppm</u> <u>well dry at 43 gallons</u> |
| <u>sample ID: SMRD-098-GW090210</u> / <u>lab DUP = SMRD-098-GW090210Q</u> |
| <u>time: 0745</u> <u>date: 9/2/10</u> / <u>time: 0745</u> <u>date: 9/2/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | | |
|---|-------------------------|--|--------------------|
| Well No.: <u>RS-54</u> | | Site: <u>S.S.F.C. Area IV</u> | |
| Sampler(s): <u>Jason McDaniel (HGL) & Dyane B</u> | | Project No.: | |
| Well Depth: 38.0 <u>46.24</u> (Blaise) | | Date: <u>8-30-10</u> | Time: <u>12:25</u> |
| DTW (ft): <u>37.28</u> | DTP (ft): <u> </u> | Courier: <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other | |
| MP Ht. Above/Below Ground Surface: <u> </u> | | Sampling Method (G=grab, B=bailer, <u>SP=submersible pump</u>) | |
| Condition of Bottom of Well: <u> </u> | | Type of Pump: <u>dedicated submersible</u> | |
| Screen Interval (ft): <u>Open Hole</u> | | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>6.25</u> | | <u>Sunny, clear ~ 80°</u> | |
| Placement of Pump (ft): <u> </u> | | | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------------------|---|-----------------|--------------------|---------------|---------------|-----------------|---------------|---------------|---------------|--|
| <u>1240</u> | <u>37.28</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>DN</u> |
| <u>1243</u> | <u>43.90</u> | <u>8 gpm</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>DN</u> |
| <u>1243</u> | <u>Pump Stopped pumping/ unable to collect parameters</u> | | | | | | | | | <u>DN</u> |
| <u>8/31 0930</u> | <u>43.50</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>DN</u> |
| <u>9/1 0726</u> | <u>43.74</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>DN</u> |
| <u>9/13/10 0945</u> | <u>43.60</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>DN below pump intake - unable to purge sample</u> |
| <u>⊕</u> | | | | | | | | | | |

OBSERVATIONS

| |
|--|
| Color: <u>Clear</u> Other (describe): |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like |
| Notes: <u>DTW = 37.28 / approximate DTB = 46.24 Water column = 8.96</u> <u>Stopped pumping @ 1243 Total purge approximately 8 gallons.</u> <u>Will return on 8/31 to collect samples.</u> <u>8/31 Gaged well DTW = 43.50 No recharge unable to sample 9/1 DTW: 43.74 (No recharge)</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J(Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>PZ-005</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area 14</u> |
| Sampler(s): <u>Stephanie Lapeyre Norhouse</u> | Project No.: |
| Well Depth: <u>45</u> <small>According to TP in file = 26.14</small> | Date: <u>8/30/10</u> Time: <u>1305</u> |
| DTW (ft): <u>18.10</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> |
| Condition of Bottom of Well: <u>some sediment</u> | Type of Pump: <u>Prunkas non-dedicated</u> |
| Screen Interval (ft): <u>15-25</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>2"</u> | <u>Sunny, clear, ~85° F</u> |
| Placement of Pump (ft): <u>22'</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|----------|----------------------|------------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 1337 | 18.22 | 50 | 750 | 6.80 | 22.97 | 1138 | 84 | 4.16 | 459 | |
| 1341 | 18.22 ^{10'} | 100 ^e | 1050 ^e | 6.81 | 23.10 | 1138 | 85 | 4.07 | 411 | |
| 1343 | 18.28 ^{8'} | 200 ^e | 1650 | 6.82 | 22.54 | 1139 | 87 | 4.09 | 301 | |
| 1346 | 18.30 ^{2'} | 200 | 2250 | 6.80 | 22.14 | 1136 | 87 | 3.91 | 171 | |
| 1349 | 18.31 | 200 | 2850 | 6.83 | 22.13 | 1146 | 88 | 3.87 | 93.2 | |
| 1352 | 18.32 | 200 | 3450 | 6.83 | 22.11 | 1146 | 87 | 3.89 | 84.7 | |
| 1355 | 18.33 | 200 | 4050 | 6.84 | 22.14 | 1145 | 89 | 3.91 | 72.2 | |
| 1358 | 18.33 | 200 | 4650 | 6.84 | 21.99 | 1137 | 88 | 4.01 | 69.0 | |
| 1401 | 18.33 | 200 | 5250 | 6.84 | 22.04 | 1139 | 88 | 3.99 | 67.1 | |
| 1404 | 18.33 | 200 | 5850 | 6.83 | 22.03 | 1137 | 88 | 3.99 | 66.4 | |
| 1407 | 18.33 | 200 | 6450 | 6.85 | 22.05 | 1135 | 89 | 4.07 | 64.5 | |
| 1410 | 18.33 | 200 | 7050 | 6.86 | 21.94 | 1134 | 88 | 3.92 | 63.8 | |
| 1413 | 18.33 | 200 | 7650 | 6.86 | 22.03 | 1130 | 88 | 3.85 | 62.9 | |
| <u>⊕</u> | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>PID = 0.0 ppm</u> |
| Lab Dup: <u>SM PZ-005-GW083010 Q (time=1415)</u> / <u>Rinstate sample:</u> |
| Sample ID: <u>SM PZ-005-GW083010</u> / <u>SM Rinstate-08-EB083010</u> } <u>time: 1315</u> |
| time: <u>1415</u> date: <u>8/30/10</u> / <u>SM Source-08-EB083010</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: P2-041 | Site: S.S.F.L. Area IV |
| Sampler(s): Jason M. S. Daniels (HGL) Edwards | Project No.: |
| Well Depth: 29.6 ft (blaine) | Date: 8-27-10 Time: 11:18 |
| DTW (ft): 13.46 DTP (ft): — | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: — | Type of Pump: non-dedicated submersible |
| Screen Interval (ft): 19-29 | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 2 | Sunny, clear ~ 90° |
| Placement of Pump (ft): — 24.0 BTDL | |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---|---------------------|-----------------|--------------------|------|-----------|------------------|-----|-------------|------------|----------|
| 11:25 | 13.46 | | | | | | | | | Jan |
| 11:46 | 13.96 | 50 ML min | 600 | 7.25 | 27.89 | 953 | 109 | 1.89 | 19.9 | |
| 11:49 | 14.04 | " | 750 | 7.25 | 27.82 | 952 | 108 | 1.85 | 20.2 | |
| 11:52 | 14.15 | " | 900 | 7.26 | 27.70 | 951 | 107 | 1.79 | 20.3 | |
| 11:55 | 14.40 | " | 1050 | 7.26 | 27.47 | 954 | 106 | 1.78 | 19.6 | |
| Well stabilized | | | | | | | | | | |
| 11:57 | Sampled well | | | | | | | | | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Jan 08/27/10 </div> | | | | | | | | | | |

OBSERVATIONS

| |
|--|
| Color: Clear Other (describe): Clear |
| Odor: None Low Medium High Very strong H2S Fuel-like No Odor |
| Notes: Water column = 16.04 well stabilized @ 11:55 / Sampled well 11:57 Total purge = 1150 gal 1 Well Volume = 16.04 x 0.16 = 2.56 3 Well volumes = 2.56 x 3 = 7.74 PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): JMS |

ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: P2-052 | Site: S.S.F.L Area IV |
| Sampler(s): Jaquez, Ms. David (HGL) Zolvarado | Project No.: EPA-038, 01.22.04.02 |
| Well Depth: 31.34 (Blaine) | Date: 8-31-10 Time: 0943 |
| DTW (ft): 25.23 DTP (ft): — | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: — | Type of Pump: non-dedicated submersible |
| Screen Interval (ft): 18.9 - 28.9 | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 2" | Sunny, clear ~75° |
| Placement of Pump (ft): 28.0 | |

| TIME | DEPTH TO WATER (GD) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------------------------|---------------------|-----------------|--------------------|------|----------|-----------------|-----|-------------|------------|----------|
| 0449 | 25.23 | ML/min | ML | | | | | | | JPM |
| 1002 | 25.64 | 50 gph | 550 | 6.89 | 21.79 | 1321 | 76 | 3.75 | 16 | |
| 1005 | 25.76 | " | 700 | 6.85 | 21.77 | 1189 | 83 | 2.66 | 10.7 | |
| 1008 | 25.84 | " | 850 | 6.85 | 21.87 | 1140 | 84 | 2.55 | 8.9 | |
| 1011 | 25.92 | " | 1,000 | 6.84 | 21.82 | 1,118 | 85 | 2.29 | 8.9 | |
| 1014 | 25.92 | " | 1,150 | 6.84 | 21.90 | 1,123 | 86 | 2.27 | 8.6 | |
| 1017 | 25.94 | " | 1,300 | 6.84 | 21.93 | 1,117 | 87 | 2.21 | 8.8 | |
| Well stabilized @ 1017 | | | | | | | | | | |
| Sampled well @ 1020 | | | | | | | | | | JPM |
| | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): Clear |
| Odor: None Low Medium High Very strong H2S Fuel-like None |
| Notes: Total purge volume 1,300 mb |
| |
| |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): JPM |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: PZ-052 | Site: S.S.F.L. Area IV |
| Sampler(s): Jason M. Daniel (HGL) Edwards B. (HGL) | Project No.: SP9.038.01.22.04.02 |
| Well Depth: 31.34 | Date: 8/30/10 Time: 13:05 |
| DTW (ft): 25.03 DTP (ft): | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: — | Type of Pump: Non-dedicated bladder pump |
| Screen Interval (ft): 18.9 - 28.9 | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 2 | Sunny, clear ~ 80° |
| Placement of Pump (ft): 28 | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 13:15 | 25.03 | — | — | — | — | — | — | — | — | SP-1 |
| 13:52 | 25.32 | 50 mL | 550 mL | 7.08 | 23.38 | 1,279 | 67 | 2.56 | 22.1 | |
| 13:55 | 25.41 | " | 700 " | 7.06 | 23.19 | 1,246 | 68 | 2.27 | 22.0 | |
| 13:58 | 25.51 | " | 850 " | 7.05 | 23.15 | 1,248 | 68 | 2.28 | 22.9 | |
| 14:01 | 25.51 | " | 1,000 " | 7.04 | 23.10 | 1,229 | 68 | 2.27 | 23.3 | |
| 14:02 | Well stabilized | | | | | | | | | |
| 14:03 | Sampled well | | | | | | | | | |
| | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): Clear |
| Odor: None Low Medium High Very strong H2S Fuel-like None |
| Notes: Unable to collect all samples. Halted sampling @ 1600, will return on 8/31 to re-stabilize and finish sampling. Total purge = 1000 mL (1 liter) |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): JMD |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>P2-056^{Old} P2-56</u> | Site: <u>SSFL</u> |
| Sampler(s): <u>J. Daniel (HG) Edwards (HG)</u> | Project No.: |
| Well Depth: <u>30.36 on 30.35</u> | Date: <u>8-24-10</u> Time: <u>11:43</u> |
| DTW (ft): <u>30.41</u> DTP (ft): <u> </u> | Courier: <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other |
| MP Ht. Above/Below Ground Surface: <u> </u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: <u> </u> | Type of Pump: <u>Bailer</u> |
| Screen Interval (ft): <u>17-27</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>2"</u> | <u>Sunny clear ~100°</u> |
| Placement of Pump (ft): <u>N/A</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|----------------------------|---------------------|-----------------|--------------------|-----|------------|------------------|-----|-------------|------------|----------|
| 1210 | 30.41 | NA | NA | N/A | N/A | N/A | N/A | N/A | N/A | |
| <p><i>Jan 08/24/10</i></p> | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Cloudy Dark Grey in color</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like |
| Notes: <u>Water column ~ 0.51</u> |
| <u>Able to collect Tritium only / Not able to collect parameters</u> |
| <u>Returned on 08/25 DTW = 30.42 (bottom of well) No recharge</u> |
| <u>1 Well Volume = 0.05 gal 3 Well Volumes = 0.15</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>J. Daniel</u> |

ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-------------------|
| Well No.: <u>PZ-100</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area 1U</u> | |
| Sampler(s): <u>Stephanie Lopez-Montano</u> | Project No.: | |
| Well Depth: <u>19.32</u> | Date: <u>8/30/10</u> | Time: <u>0810</u> |
| DTW (ft): <u>12.26</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> | |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> | |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>Gruntas non-dedicated</u> | |
| Screen Interval (ft): <u>5.67-15.67</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>2"</u> | <u>Sunny, clear, ~75°F</u> | |
| Placement of Pump (ft): <u>15</u> | | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|--|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 0900 | 12.41 | 50 | 700 | 7.03 | 18.72 | 1294 | 107 | 3.66 | 14.4 | |
| 0904 | 12.44 | 50 | 900 | 7.05 | 18.75 | 1305 | 102 | 3.55 | 14.1 | |
| 0908 | 12.48 | 50 | 1100 | 7.08 | 18.93 | 1285 | 97 | 3.53 | 13.1 | |
| 0912 | 12.54 | 50 | 1300 | 7.10 | 19.09 | 1285 | 92 | 3.52 | 13.3 | |
| 0916 | 12.61 | 50 | 1500 | 7.12 | 19.20 | 1286 | 89 | 3.54 | 13.3 | |
| 0920 | 12.65 | 50 | 1700 | 7.12 | 19.27 | 1256 | 87 | 3.56 | 13.5 | |
| 0924 | 12.73 | 50 | 1900 | 7.16 | 19.41 | 1252 | 85 | 3.60 | 13.4 | |
| (The remaining rows of the table are crossed out with a large blue diagonal line.) | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>none</u> |
| Notes: <u>PID=0.0 ppm</u> <u>purged at lowest flow rate = 50 ml/min, but DTW still lowered to below 3%</u> <u>(final DTW = 15.81)</u> |
| <u>Smpl: SMT-100-GW083010</u> |
| <u>Time: 0925 date: 8/30/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

ATTACHMENT 1

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: PZ-103 | Site: SSFL Radiological Survey Area IV |
| Sampler(s): Stephanie Lapeyre Montrose (HGL) | Project No.: |
| Well Depth: 37.65 <i>per Siemens (blow test)</i> | Date: 8/23/10 |
| DTW (ft): 26.95 | DTP (ft): NA |
| MP Ht. Above/Below Ground Surface: - | Courier: UPS Hand Other |
| Condition of Bottom of Well: - | Sampling Method (G=grab, B=bailer, SP=submersible pump) SP |
| Screen Interval (ft): 28.5 - 38.5 | Type of Pump: non dedicated pump |
| Well Diameter (in): 2" | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Sunny, clear, 41.06°F |
| Placement of Pump (ft): 35 (35) | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|---------------|
| 1245 | 26.95 | 500 mL/min | | | | | | | | Began pumping |
| 1248 | 27.08 | 500 mL/min | 1,000 mL | 7.29 | 23.77 | 1.240 | 97 | 4.72 | 505 | |
| 1251 | 27.08 | 500 mL/min | 2,500 mL | 7.27 | 23.19 | 1.243 | 97 | 4.46 | 341 | |
| 1254 | 27.08 | 500 mL/min | 4,000 | 7.27 | 23.13 | 1.238 | 96 | 4.44 | 283 | |
| 1257 | 27.08 | 500 mL/min | 5,500 | 7.27 | 23.13 | 1.238 | 96 | 4.36 | 194 | |
| 1300 | 27.08 | 500 mL/min | 7,000 | 7.27 | 22.99 | 1.245 | 95 | 4.33 | 124 | |
| 1303 | 27.08 | 500 mL/min | 8,500 | 7.27 | 23.06 | 1.248 | 94 | 4.28 | 104 | |
| 1306 | 27.08 | 500 mL/min | 10,000 | 7.27 | 23.00 | 1.240 | 93 | 4.24 | 98 | |
| 1309 | 27.08 | 500 mL/min | 11,500 | 7.27 | 22.94 | 1.237 | 93 | 4.25 | 94 | |
| 1312 | 27.08 | 500 mL/min | 13,000 | 7.27 | 22.82 | 1.237 | 92 | 4.24 | 88 | |
| 1315 | 27.08 | 500 mL/min | 14,500 | 7.26 | 22.96 | 1.242 | 92 | 4.22 | 84 | |
| 1318 | 27.08 | 500 mL/min | 16,000 | 7.26 | 23.02 | 1.242 | 92 | 4.20 | 81 | |
| 1321 | 27.08 | 500 mL/min | 17,500 | 7.24 | 23.04 | 1.244 | 90 | 4.16 | 72 | |
| 1324 | 27.08 | 500 mL/min | 19,000 | 7.26 | 23.07 | 1.238 | 90 | 4.15 | 62 | |
| 1327 | 27.08 | 500 mL/min | 20,500 | 7.27 | 23.12 | 1.233 | 90 | 4.14 | 57 | |
| 1330 | 27.08 | 500 mL/min | 22,000 | 7.27 | 23.15 | 1.228 | 90 | 4.14 | 57 | |
| 1333 | 27.08 | 500 mL/min | 23,500 | 7.26 | 23.20 | 1.232 | 90 | 4.14 | 50 | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like None

Notes: PID = 0.0 ppm

Flow Rate = 500 mL/min

SMPZ-103-GW082310

Time: 1340 8/23/10

SM Bin site -02-EB082310 1425

SM Source -02-EB082310 1425 } 8/23/10

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): *[Signature]*

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: <u>PZ-103</u> | Site: <u>SSFL Radiological Survey Area IV</u> |
| Sampler(s): <u>Stephanie Lepore/Bradina (HGL)</u> <small>Ben Stokes (Blow Tech)</small> | Project No.: |
| Well Depth: <u>37.65</u> | Date: |
| DTW (ft): <u>26.95</u> DTP (ft): <u>NA</u> | Time: <u>1235</u> |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| Condition of Bottom of Well: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> |
| Screen Interval (ft): <u>28.5 - 38.5</u> | Type of Pump: <u>non dedicated pump</u> |
| Well Diameter (in): <u>2"</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Placement of Pump (ft): <u>35</u> | <u>sunny, clear, ~100° F</u> |

| TIME | DEPTH TO WATER (FT) | ML/M FLOW RATE (GPM) | ML TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|------|---------------------|----------------------|-----------------------|------|------------|------------------|-----|-------------|---------------|------------------------------|
| 1336 | 27.08 | 500 mL/min | 25,000 | 7.27 | 23.43 | 1.239 | 90 | 4.95 | 49 | |
| 1339 | 27.08 | 500 mL/min | 26,500 | 7.27 | 23.38 | 1.236 | 90 | 4.74 | 47 | |
| 1342 | 27.08 | 500 mL/min | 28,000 | 7.27 | 23.35 | 1.236 | 90 | 4.76 | 47 | End purge / collected sample |
| | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>P10 = 0.0 ppm</u> |
| <u>Flow Rate = 500 mL/min</u> |
| <u>SMPZ - 103 - Gw082310</u> |
| <u>Time 1340 8/23/10</u> |
| <u>SM Binette - 02 - EB082310 1425</u> |
| <u>SM Same - 02 - EB082310 1425</u> } 8/23/10 |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>[Signature]</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|---|--|-------------------|
| Well No.: <u>PZ-105</u> | Site: <u>SSFL Ecological Survey (EPA Region 9) Area IV</u> | |
| Sampler(s): <u>Stephanie Lepore Motrose</u> | Project No.: | |
| Well Depth: <u>30.33</u> | Date: <u>8/26/10</u> | Time: <u>1350</u> |
| DTW (ft): <u>18.75</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> | |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> | |
| Condition of Bottom of Well: <u>-</u> | Type of Pump: <u>Grundfos non dedicated pump</u> | |
| Screen Interval (ft): <u>17-27</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>2"</u> | <u>clear, sunny, in 99°F</u> | |
| Placement of Pump (ft): <u>26</u> | | |

| DATE | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------------|
| 8/26/10 | 1355 | 50 mL/min | 50 g | | | | | | | extended purge |
| | 1407 | 50 mL/min | 900 mL | 7.28 | 27.99 | 905 | -23 | 0.51 | 22 | |
| | 1412 | 50 mL/min | 1,150 mL | 7.28 | 28.07 | 902 | -26 | 0.40 | 21 | |
| | 1417 | 50 mL/min | 1,400 | 7.28 | 27.82 | 904 | -27 | 0.36 | 16 | |
| | 1422 | 50 | 1,650 | 7.28 | 27.99 | 912 | -27 | 0.34 | 16 | |
| 8/26/10 | 1427 | 50 | 1,900 | 7.27 | 28.10 | 901 | -27 | 0.32 | 16 | |
| | 1432 | 50 | 2,150 | 7.27 | 27.98 | 909 | -27 | 0.31 | 16 | End purge |
| 8/27/10 | 0736 | 50 | 650 | 7.12 | 23.31 | 905 | 188 | 1.80 | 4 | |
| | 0741 | 50 | 900 | 7.11 | 23.23 | 905 | 188 | 1.35 | 3 | |
| | 0746 | 50 | 1150 | 7.10 | 23.27 | 916 | 185 | 1.31 | 3 | |
| | 0751 | 50 | 1400 | 7.09 | 23.36 | 916 | 190 | 1.37 | 3 | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>P10 = 0.0 ppm</u> |
| <u>sample ID: SMPZ-105-GW082610</u> <u>Sample ID: SMPZ-105-GW082710</u> |
| <u>time: 1455</u> <u>date: 8/26/10</u> <u>time: 0755</u> <u>date: 8/27/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: P2-106 | Site: SSFL Radiological Survey (EPA Region 9) Area 14 |
| Sampler(s): Stephen Lapeyre Montreux | Project No.: |
| Well Depth: 35 - ^{actual} (TD = 31.05) - ^{target} | Date: 8/26/10 |
| DTW (ft): 17.80 DTP (ft): NA | Time: 0920 |
| MP Ht. Above/Below Ground Surface: - | Courier: UPS Hand Other |
| Condition of Bottom of Well: - | Sampling Method (G=grab, B=bailer, SP=submersible pump) SP |
| Screen Interval (ft): 18-28 | Type of Pump: Groutos non dedicated pump |
| Well Diameter (in): 2" | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Placement of Pump (ft): 28 | clear, sunny, ~99° F |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|---------------|
| 0946 | 17.80 | 50 ml/min | 50 | | | | | | | started purge |
| 1001 | 17.95 | 50 ml/min | 750 ml | 6.83 | 26.08 | 897 | 13 | 1.15 | 8 | |
| 1006 | 17.98 | 50 ml/min | 1,000 ml | 6.84 | 25.58 | 888 | 35 | 0.92 | 7 | |
| 1011 | 17.98 | 50 | 1,250 | 6.85 | 25.39 | 896 | 35 | 0.74 | 4 | |
| 1016 | 18.00 | 75 ml/min | 1,625 | 6.86 | 24.52 | 897 | 35 | 0.67 | 3 | |
| 1021 | 18.02 | 75 | 2,000 | 6.89 | 24.02 | 899 | 36 | 0.63 | 4 | |
| 1026 | 18.02 | 75 | 2,375 | 6.91 | 23.71 | 897 | 34 | 0.56 | 4 | |
| 1031 | 18.02 | 100 ml/min | 2,875 | 6.93 | 23.44 | 895 | 33 | 0.54 | 4 | |
| 1036 | 18.02 | 100 | 3,375 | 6.94 | 22.96 | 893 | 33 | 0.50 | 4 | |
| 1041 | 18.02 | 100 | 3,875 | 6.95 | 22.95 | 894 | 34 | 0.46 | 2 | |
| 1046 | 18.02 | 100 | 4,375 | 6.96 | 22.85 | 894 | 36 | 0.44 | 2 | |
| 1051 | 18.02 | 100 | 4,875 | 6.96 | 22.96 | 893 | 39 | 0.37 | 2 | |
| 1056 | 18.02 | 100 | 5,375 | 6.97 | 23.05 | 894 | 40 | 0.36 | 1 | |
| 1101 | 18.02 | 100 | 5,875 | 6.97 | 22.91 | 892 | 43 | 0.35 | 1 | took sample |
| (Signature) | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): clear |
| Odor: None Low Medium High Very strong H2S Fuel-like none |
| Notes: PND > 0.0 ppm |
| Sample ID = SMP2-106 - Gw082610 (finished sample at 1310) |
| Time: 1105 Date: 8/26/10 |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): (Signature) |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|---|
| Well No.: P2-1φ8 | Site: S.S.F.L. Area IV |
| Sampler(s): Jason M. David (HLE) Edwards (Bottle) | Project No.: |
| Well Depth: 3φ φ | Date: 8-27-10 |
| DTW (ft): 13.φ1 | DTP (ft): — |
| MP Ht. Above/Below Ground Surface: — | Courier: UPS Hand Other |
| Condition of Bottom of Well: — | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Screen Interval (ft): 16.26 | Type of Pump: Non-dedicated submersible pump |
| Well Diameter (in): 2 | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): sunny, clear ~75° |
| Placement of Pump (ft): — 22.φ BTOL | |

| TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|-----------|------------------|-----|-------------|------------|----------|
| 0745 | 13.φ1 | — | — | — | — | — | — | — | — | Jan |
| 0759 | 13.4φ | 75 ml/min | 525 mL | 7.φ1 | 23.37 | 1,φ87 | 188 | 1.9φ | 25.5 | |
| 08φ2 | 13.43 | 75 ml/min | 75φ mL | 7.φ2 | 23.3φ | 1,φ9φ | 187 | 1.49 | 28.3 | |
| 08φ5 | 13.59 | " | 975 " | 7.φ3 | 23.22 | 1,φ87 | 18φ | 1.44 | 28.9 | |
| 08φ8 | 13.69 | " | 1,2φφ " | 7.φ4 | 23.16 | 1,φ94 | 181 | 1.4φ | 29.9 | |
| 08φ8 | Well Stabilized | | | | | | | | | Jan |
| 081φ | Sampled well | | | | | | | | | |
| | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like None

Notes: DTW = 13.φ1 Water volume = 16.99 (16.99 x φ.16 = 2.72)
 Flow rate φ.75 ml/min Well Stabilized @ 081φ φ.8φ8 Sampled well @ 081φ
 Total purge = 15φφ mL
 1 Well Volume = 2.72 gal 3 Well Volumes = 8.16

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): JMD

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: P2-109 | Site: 50 FL Ave IV |
| Sampler(s): Jason McDonald (AW) Eduardo (AW) | Project No.: |
| Well Depth: 36.5 | Date: 8-25-10 Time: 11:16 |
| DTW (ft): 15.01 DTP (ft): | Courier: UPS Hand Other |
| MP Ht. Above/Below Ground Surface: | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: | Type of Pump: non-dedicated submersible bladder pump |
| Screen Interval (ft): 25-35 | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): 2.0 | Sunny, clear - 100° no wind |
| Placement of Pump (ft): 30.0 | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|----------|---------------------|-----------------|-------------------------|------|------------|------------------|-----|-------------|------------|----------|
| 12:05 | 15.01 | 125 ml/m | | | | | | | | 21" |
| 12:25 | 16.24 | 50 ml/m | 650 ml | 7.49 | 31.65 | 1,061 | 29 | 2.22 | 67.2 | |
| 12:28 | 16.49 | 50 ml/m | 2,150 ^{80%} ml | 7.50 | 32.56 | 1,054 | 33 | 2.33 | 54.3 | |
| 12:31 | 16.59 | 50 ml/m | 3,650 ^{93%} ml | 7.51 | 32.87 | 1,054 | 37 | 2.40 | 54.7 | |
| 12:34 | 16.69 | 50 ml/m | 1,100 | 7.52 | 33.18 | 1,049 | 39 | 2.53 | 54.0 | |
| 12:37 | 16.81 | 50 ml/m | 1,250 | 7.53 | 33.44 | 1,037 | 43 | 2.67 | 49.0 | |
| 12:40 | 16.91 | 50 ml/m | 1,400 | 7.53 | 33.62 | 1,037 | 44 | 2.76 | 51.2 | |
| 12:43 | 17.01 | 50 ml/m | 1,550 | 7.54 | 33.73 | 1,044 | 45 | 2.78 | 50.1 | |
| 12:46 | 17.15 | 50 ml/m | 1,700 | 7.55 | 33.82 | 1,035 | 48 | 2.82 | 50.3 | |
| 12:49 | 17.24 | 50 ml/m | 1,850 | 7.56 | 33.90 | 1,037 | 49 | 2.93 | 44.6 | |
| 12:52 | 17.33 | 50 ml/m | 2,000 | 7.56 | 33.97 | 1,036 | 51 | 2.97 | 46.6 | |
| 12:55 | 17.48 | 50 ml/m | 2,150 | 7.57 | 30.91 | 1,029 | 53 | 2.99 | 44.7 | |
| 12:56 | Sampled well | | | | | | | | | |
| 08/25/10 | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): Clear |
| Odor: None Low Medium High Very strong H2S Fuel-like No odor |
| Notes: Water column = 21.49 |
| Began purge @ 12:05 / @ 12:10 adjusted flow rate to 30 ml/min / adjusted to 50 ml/min @ 12:25 / 16:45 had to cease well sampling due to time. |
| 1 Well Volume = 3.44 3 Well Volumes = 10.32 |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <i>[Signature]</i> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: <u>PZ-112</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area 10</u> |
| Sampler(s): <u>Stephanie Lopez-Morales</u> | Project No.: |
| Well Depth: <u>37.06</u> | Date: <u>8/31/10</u> Time: <u>0755</u> |
| DTW (ft): <u>29.41</u> DTP (ft): <u>NA</u> | Courier: <u>UPS Hand Other</u> |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>Grubbs non-dedicated</u> |
| Screen Interval (ft): <u>24-34</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>2</u> | <u>Sunny, clear, ~85°F</u> |
| Placement of Pump (ft): <u>33</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 0822 | 29.61 | 100 | 900 | 6.31 | 19.36 | 1144 | 120 | 3.73 | 18 | |
| 0825 | 29.71 | 100 | 1200 | 6.25 | 19.43 | 1132 | 125 | 3.43 | 16 | |
| 0828 | 29.70 | 100 | 1500 | 6.24 | 19.47 | 1144 | 129 | 3.19 | 18 | |
| 0831 | 29.70 | 100 | 1800 | 6.24 | 19.49 | 1145 | 130 | 3.12 | 14 | |
| 0834 | 29.70 | 100 | 2100 | 6.24 | 19.56 | 1140 | 130 | 3.12 | 13 | |
| 0837 | 29.70 | 100 | 2400 | 6.25 | 19.65 | 1132 | 131 | 3.07 | 13 | |
| | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>Clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>PI0 = 0.0 ppm</u> |
| Sample ID: <u>SMPZ-112-GW083110</u> |
| Time: <u>0840</u> Date: <u>8/31/10</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|---|--|
| Well No.: <u>P2-121</u> | Site: <u>S.S.F.L Area IV</u> |
| Sampler(s): <u>Josue M. Daniel (HGL) Edwards (Blaine)</u> | Project No.: <u>EP9 038.01.22.04.02</u> |
| Well Depth: <u>33.0</u> | Date: <u>09/01/10</u> Time: <u>0900</u> |
| DTW (ft): <u>18.74</u> DTP (ft): <u>—</u> | Courier: <u>UPS</u> Hand Other |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>non-dedicated submersible</u> |
| Screen Interval (ft): <u>15-25</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>2"</u> | <u>Sunny, clear ~ 80°</u> |
| Placement of Pump (ft): <u>23</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|----------------------|------------------------|------------------|--------------------|-------------|--------------|------------------|------------|-------------|-------------|-------------|
| <u>0904</u> | <u>18.74</u> | <u>ML/min</u> | <u>ML</u> | | | | | | | <u>SP-1</u> |
| <u>0930</u> | <u>18.80</u> | <u>50 mL/min</u> | <u>500</u> | <u>6.15</u> | <u>28.46</u> | <u>1,079</u> | <u>159</u> | <u>2.28</u> | <u>17.0</u> | |
| <u>0933</u> | <u>18.80</u> | <u>"</u> | <u>650</u> | <u>6.15</u> | <u>28.37</u> | <u>1,061</u> | <u>160</u> | <u>2.04</u> | <u>18.5</u> | |
| <u>0936</u> | <u>18.82</u> | <u>"</u> | <u>800</u> | <u>6.15</u> | <u>28.27</u> | <u>1,062</u> | <u>162</u> | <u>1.85</u> | <u>18.8</u> | |
| <u>0939</u> | <u>18.85</u> | <u>"</u> | <u>950</u> | <u>6.15</u> | <u>28.19</u> | <u>1,062</u> | <u>164</u> | <u>1.72</u> | <u>18.1</u> | |
| <u>0942</u> | <u>18.92</u> | <u>"</u> | <u>1,100</u> | <u>6.16</u> | <u>28.25</u> | <u>1,055</u> | <u>167</u> | <u>1.56</u> | <u>15.5</u> | |
| <u>0945</u> | <u>18.97</u> | <u>"</u> | <u>1,250</u> | <u>6.16</u> | <u>28.30</u> | <u>1,066</u> | <u>169</u> | <u>1.47</u> | <u>16.0</u> | |
| <u>0948</u> | <u>19.02</u> | <u>"</u> | <u>1,400</u> | <u>6.16</u> | <u>28.34</u> | <u>1,065</u> | <u>170</u> | <u>1.44</u> | <u>16.4</u> | |
| <u>0949</u> | <u>Well stabilized</u> | | | | | | | | | |
| <u>0950</u> | <u>Sampled Well</u> | | | | | | | | | |
| <u>done 09/01/10</u> | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): <u>Clear</u> |
| Odor: <u>None</u> Low Medium High Very strong H2S Fuel-like <u>None</u> |
| Notes: <u>Water column = 14.26</u> |
| <u>1 well volume = 14.26 x 0.16 = 2.28 3 well volumes = 2.28 x 3 = 6.84</u> |
| <u>Total purge = 1,450 mL (1.4 liters)</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): <u>Josue M. Daniel</u> |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|---|--|-------------------|
| Well No.: <u>PZ-122</u> | Site: <u>SSFL Radiological Survey (Region 9) Area 14</u> | |
| Sampler(s): <u>Stephanie Lepage Montoux</u> | Project No.: | |
| Well Depth: <u>27.5</u> | Date: <u>8/27/10</u> | Time: <u>1305</u> |
| DTW (ft): <u>17.00</u> DTP (ft): <u>NA</u> | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> | |
| MP Ht. Above/Below Ground Surface: <u>-</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> | |
| Condition of Bottom of Well: <u>-</u> | Type of Pump: <u>Grundfos non dedicated pump</u> | |
| Screen Interval (ft): <u>15.5 - 25.5</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>2"</u> | <u>sunny, clear, ~95°F</u> | |
| Placement of Pump (ft): <u>23</u> | | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|------------|------------|--------------------------|
| 1315 | 17.25 | 50 ml/min | 600 | 6.71 | 26.35 | 990 | 71 | 1.87 | 18 | started purge |
| 1320 | 17.24 | 50 ml/min | 850 | 6.71 | 25.81 | 1001 | 79 | 1.07 | 15 | |
| 1325 | 17.26 | 50 ml/min | 1,000 | 6.71 | 25.63 | 1001 | 81 | 0.95 | 10 | |
| 1330 | 17.30 | 50 | 1,250 | 6.73 | 24.74 | 1004 | 83 | 0.77 | 9 | |
| 1335 | 17.32 | 50 | 1,500 | 6.75 | 24.40 | 1002 | 85 | 0.62 | 8 | |
| 1340 | 17.32 | 50 | 1,750 | 6.75 | 24.40 | 1002 | 86 | 0.60 | 9 | |
| 1345 | 17.33 | 50 | 1,800 | 6.74 | 24.31 | 1003 | 89 | 0.58 | 9 | End purge/began sampling |
| | | | | | | | | | | |

OBSERVATIONS

| | | | | | | |
|--|--|--|--|---------------------------------|--|--|
| Color: Clear Other (describe): <u>clear</u> | | | | | | |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>None</u> | | | | | | |
| Notes: <u>PID 0.0 ppm</u> | | | | | | |
| <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">sample ID = <u>SMPZ-122-GW082710</u></td> <td style="width: 50%;">Equip. Blank: ID: <u>SM50000-07-082710</u></td> </tr> <tr> <td>time: <u>1345</u> date: <u>8/27/10</u></td> <td>ID: <u>SM binsate-07-082710</u></td> </tr> <tr> <td></td> <td>time: <u>1545</u> date: <u>8/27/10</u></td> </tr> </table> | sample ID = <u>SMPZ-122-GW082710</u> | Equip. Blank: ID: <u>SM50000-07-082710</u> | time: <u>1345</u> date: <u>8/27/10</u> | ID: <u>SM binsate-07-082710</u> | | time: <u>1545</u> date: <u>8/27/10</u> |
| sample ID = <u>SMPZ-122-GW082710</u> | Equip. Blank: ID: <u>SM50000-07-082710</u> | | | | | |
| time: <u>1345</u> date: <u>8/27/10</u> | ID: <u>SM binsate-07-082710</u> | | | | | |
| | time: <u>1545</u> date: <u>8/27/10</u> | | | | | |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) | | | | | | |
| Signed/Sampler(s): | | | | | | |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>P2-154</u> | Site: <u>SSFL</u> |
| Sampler(s): <u>Jason M. Daniels (HGL) Edwards</u> <u>(blower)</u> | Project No.: |
| Well Depth: <u>3048</u> | Date: <u>8-24-10</u> Time: <u>0928</u> |
| DTW (ft): <u>28.10</u> DTP (ft): <u>—</u> | Courier: <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, <u>B=bailer</u> , SP=submersible pump) |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>Bailer</u> |
| Screen Interval (ft): <u>NA</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>NA on 4.0"</u> | <u>Sunny, clear ~95°</u> |
| Placement of Pump (ft): <u>—</u> | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|----------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|------------|-------------|------------|----------|
| <u>0940</u> | <u>28.10</u> | <u>N/A</u> | <u>N/A</u> | <u>7.40</u> | <u>31.07</u> | <u>1,438</u> | <u>198</u> | <u>4.30</u> | <u>5.0</u> | |
| <u>8-24-10</u> | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): Clear

Odor: None Low Medium High Very strong H2S Fuel-like

Notes: Water column = 2.08
Unable to collect space volumes due to no water, unable to collect Gross Alpha & Beta / one SR90 bottle only 75% full
1 well volume = 1.55 3 well volumes = 4.64 8-25-10 returned to well
DTW ^{28.10} 28.10 (No recovery)

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H₂O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): JMD

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | | |
|--|---|-------------------|
| Well No.: <u>PZ-161</u> | Site: <u>SSFL Radiological Survey (EPA Region 9) Area 1</u> | |
| Sampler(s): <u>Stephanie Lynn Morrow</u> | Project No.: | |
| Well Depth: <u>30.07</u> | Date: <u>8/25/10</u> | Time: <u>0910</u> |
| DTW (ft): <u>25.63</u> DTP (ft): <u>NP</u> | Courier: <u>UPS</u> <input type="checkbox"/> Hand <input type="checkbox"/> Other <input type="checkbox"/> | |
| MP Ht. Above/Below Ground Surface: <u>—</u> | Sampling Method (G=grab, B=bailer, SP=submersible pump) <u>SP</u> | |
| Condition of Bottom of Well: <u>—</u> | Type of Pump: <u>Grufos pump (non dedicated)</u> | |
| Screen Interval (ft): <u>—</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Well Diameter (in): <u>4</u> | <u>Sunny, clear, ~100°F</u> | |
| Placement of Pump (ft): <u>29.5</u> | | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|--------------------------------|
| 0933 | 25.63 | 100 mL/m | 600 mL | 6.67 | 26.03 | 1.267 | 81 | 2.34 | 40 | Started purge |
| 0937 | 25.79 | 100 | 900 | 6.96 | 25.73 | 2.34 | 62 | 3.18 | 28 | |
| 0940 | 25.80 | 75 | 1,125 | 6.88 | 25.92 | 2.54 | 66 | 2.51 | 24 | |
| 0943 | 25.80 | 75 | 1,350 | 6.84 | 25.99 | 2.53 | 66 | 2.23 | 22 | |
| 0946 | 25.80 | 75 | 1,575 | 6.83 | 26.13 | 2.53 | 65 | 1.93 | 21 | |
| 0949 | 25.80 | 75 | 1,800 | 6.83 | 26.15 | 2.52 | 65 | 1.93 | 20 | |
| 0952 | 25.80 | 75 | 2,025 | 6.83 | 26.17 | 2.50 | 65 | 1.91 | 20 | after reading - began sampling |
| | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): <u>clear</u> |
| Odor: None Low Medium High Very strong H2S Fuel-like <u>NONE</u> |
| Notes: <u>PID = 0.0 ppm</u> |
| <u>Equip. Blank: SM Rinsets-03-EB082510 1340 / Source</u> |
| <u>Sample ID: SMPZ-161-GW082510</u> <u>Sample began at 1005 and</u> |
| <u>Time: 1005</u> <u>Date: 8/25/10</u> <u>ended at 1330</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>WS 07</u> | Site: <u>SSFL EPA REGION 9</u> |
| Sampler(s): <u>JONATHAN VAIDEZ</u> | Project No.: <u>EP9038-01-22-04-02</u> |
| Well Depth: | Date: <u>8/25/10-8/26/10</u> Time: <u>0800</u> |
| DTW (ft): <u>59.37</u> DTP (ft): | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| MP Ht. Above/Below Ground Surface: | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: | Type of Pump: <u>SUBMERSIBLE PUMP</u> |
| Screen Interval (ft): <u>OPEN HOLE</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): <u>12</u> | <u>SUN/CLEAR 100%</u> |
| Placement of Pump (ft): | |

8/24/10

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (NTU) | COMMENTS |
|-------|---------------------|-----------------|--------------------|------|------------|------------------|------|------------|------------|------------------------------|
| 1100 | 62.00 | 14 | 168 | 7.42 | 22.12 | 778 | 155 | 1.82 | 32 | START PURGE |
| 1200 | 69.38 | 14.25 | | | | | | | | |
| 1300 | 72.04 | 14.25 | 855 | | | | | | | |
| 1400 | 73.95 | 14.25 | 855 | | | | | | | STOP PURGE VAC TRUCK FULL |
| <hr/> | | | | | | | | | | |
| 0725 | 60.76 | 14 | | | | | | | | |
| 0740 | 68.34 | 14 | | 6.90 | 21.46 | 820 | -106 | 0.87 | 36 | |
| 0825 | 69.30 | 14 | 840 | | | | | | | |
| 0925 | 72.56 | 14 | 840 | | | | | | | |
| 1025 | 74.79 | 14 | 840 | | | | | | | |
| 1056 | 75.64 | | | | | | | | | STOP PURGE VAC TRUCK FULL |
| 1203 | 67.95 | 14 | | | | | | | | STARTED PURGE |
| 1303 | 75.39 | 14 | 840 | | | | | | | |
| 1307 | | 14 | | 7.14 | 23.49 | 802 | -89 | 0.83 | 25 | |
| 1403 | 77.73 | 14 | 840 | | | | | | | |
| 1503 | 79.40 | 14 | 840 | | | | | | | |
| 1537 | 80.00 | 14 | | | | | | | | STOP PURGE VAC TRUCK FULL |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): |
| Odor: None Low Medium High Very strong H2S Fuel-like |
| Notes: <u>1050 BEGAN PURGE AT 14 GPM. FLOWMETER START AT 69.38/66.280. STOPPED PURGE AT 1422</u> <u>VAC TRUCK FULL 3101 GAL. FLOWMETER END AT 69.38/1. WILL CONTINUE PURGING WELL TOMORROW 8/26/10</u> <u>KAT (WDC) ONLY ABLE TO RUN 360 FT OF PIPE DUE TO OBSTRUCTION IN WELL. 08/24/10 BEGAN PURGE AT</u> <u>0725. FLOWMETER START 69.38/STOP PURGE VAC TRUCK FULL 12950 GAL/END OF WORK DAY/ FLOWMETER END 75320</u> PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

**ATTACHMENT 1
GROUNDWATER FIELD SAMPLING DATA SHEET**

| | |
|--|--|
| Well No.: <u>WS07</u> | Site: <u>SSFL EPA REGION 9</u> |
| Sampler(s): <u>JONATHAN VAIDEZ</u> | Project No.: <u>EP9038-01-22-04-02</u> |
| Well Depth: | Date: <u>8/27/10</u> Time: <u>0730</u> |
| DTW (ft): <u>59.37</u> DTP (ft): | Courier: <u>UPS</u> <u>Hand</u> <u>Other</u> |
| MP Ht. Above/Below Ground Surface: | Sampling Method (G=grab, B=bailer, SP=submersible pump) |
| Condition of Bottom of Well: | Type of Pump: <u>SUBMERSIBLE PUMP</u> |
| Screen Interval (ft): <u>OPEN HOLE</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): | <u>SUNNY / CLEAR</u> |
| Placement of Pump (ft): | |

| TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|------------|-------------|------------|--------------------|
| <u>0730</u> | <u>63.40</u> | <u>13.5</u> | | | | | | | | <u>START PURGE</u> |
| <u>0830</u> | <u>71.78</u> | <u>13.75</u> | | | | | | | | |
| <u>0930</u> | <u>74.78</u> | <u>13.75</u> | | | | | | | | |
| <u>1030</u> | <u>76.75</u> | <u>13.75</u> | | | | | | | | |
| <u>1103</u> | <u>77.69</u> | | | <u>7.16</u> | <u>22.42</u> | <u>810</u> | <u>-70</u> | <u>0.72</u> | <u>15</u> | <u>STOP PURGE</u> |
| | | | | | | | | | | |
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OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): |
| Odor: None Low Medium High Very strong H2S Fuel-like |
| Notes: <u>WILL CONTINUE PURGING WELL WS 07 TOMORROW 8/27/10. TOTAL NUMBER OF GAL PURGED 9040 GAL FLOWMETER START 75320 ON 8/27/10. COLLECTED TOTAL 12060 GAL PURGED END READING FLOWMETER 78340</u> |
| <u>COLLECTED SAMPLE AT SMWS-07-BW082710, ALSO COLLECTED A DUP AT THIS LOCATION</u> |
| <u>SMDUP03-BW082710</u> |
| PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc) ² (well depth - static H ₂ O depth) x (conversion 7.48 gal/ft ³) |
| Signed/Sampler(s): |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RS-11 | Site: SSFL Area IV |
| Sampler(s): Japo, M & David (HGL) | Project No.: EPA 038, 01.22.04.02 |
| Sampler(s): Nick Harel (Blowline Tech) | Date: 3-30-11 (3-31-11) Time: 1400 (0745) |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Electric Ground Gas |
| Sample ID: SMRS116W033111 | Sample Date: 3-31-11 Sample Time: 0750 |
| Additional Samples (DUP/MSD/Blanks): SM Dup 074W033111 | Sample Date: 3-31-11 Sample Time: 0800 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Well Depth: 17.70 | DTW (ft): 7.57 (8.10) Type of Pump: Ground Gas |
| Condition of Bottom of Well: Soft | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): — | Sunny, clear, NW wind @ 80° |
| Well Diameter (in): Open Hole | Placement of Pump (ft) 17.5 BTCL |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|------------------------|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-30-11 | 14:23 | 9.20 | 1.0 | 3.0 | 6.90 | 18.03 | 2040 | 132 | 3.09 | 15 | |
| " | 14:26 | 9.40 | " | 6.0 | 6.95 | 17.95 | 2030 | 131 | 3.71 | 15 | |
| " | 14:29 | 10.25 | " | 9.0 | 6.93 | 17.65 | 2,020 | 129 | 4.44 | 8 | |
| " | 14:32 | 11.30 | " | 12.0 | 6.94 | 17.61 | 2,060 | 127 | 3.85 | 9 | |
| " | 14:35 | 12.10 | " | 15.0 | 6.95 | 17.51 | 2,070 | 124 | 3.77 | 10 | |
| " | 14:38 | 13.12 | " | 18.0 | 6.94 | 17.65 | 2,110 | 122 | 3.62 | 4 | |
| " | 14:41 | 14.05 | " | 21.0 | 6.92 | 17.90 | 2,130 | 120 | 2.91 | 5 | |
| " | 14:44 | 15.05 | " | 24.0 | 6.87 | 18.14 | 2,040 | 120 | 2.00 | 5 | |
| " | 14:47 | 15.60 | " | 27.0 | 6.87 | 18.29 | 2,140 | 118 | 1.40 | 6 | |
| " | 14:50 | 16.55 | " | 30.0 | 6.88 | 18.56 | 2,230 | 104 | 1.22 | 6 | |
| " | 14:52 | Well ran dry | | | | | | | | | |
| 3-31-11 | 0745 | 8.10 | N/A | Log | 6.81 | 20.21 | 2,220 | 224 | 4.57 | 3 | |
| " | 0750 | Sampled well | | SMRS116W033111 | | | | | | | |
| APM 3-31-11 | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Water Column: 10.13
 1 Well Vol: 105.75 3 Well Vol: 317.27
 14:52 Well ran dry. Will return on 3-30 to collect sample.
 Sampled well @ 0750 on 3-31 SMRS-116W033111 Total purge = 32 gallons

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): APM D

| | | |
|--|--|--|
| Well No.: AS-16 | Site: SSFL RAD Survey Area IV + NBZ EPA Reg 9 | |
| Sampler(s): Timothy Morse | Project No.: EP9088-01-22-04-02 | |
| Sampler(s): ED Budano | Date: 3/30/11 | Time: 0910 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Sample Pro Blower Pump |
| Sample ID: SMRS-16-6W033011 | Sample Date: 3/30/11 | Sample Time: 0910^c 1030 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 22.05 | DTW (ft): 17.77 | Type of Pump: Sample Pro Bladder pump |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 16.5-20.5 | Sunny N 75°F, light wind | |
| Well Diameter (in): 4" | Placement of Pump (ft) ~ 21' bgs. | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|----------------------------------|-------|---------------------|-----------------|--------------------|-------|------------|------------------|------|-------------|---------------|----------|
| 3/30/11 | 0954 | 17.88 | 60 ml | 780 ml | 6.76 | 19.82 | 0.901 | -191 | 3.06 | 20.7 | |
| | 0957 | 17.82 | 60 ml | 960 | 6.76 | 19.87 | 0.900 | -189 | 3.11 | 20.2 | |
| | 1000 | 17.82 | 60 | 1140 | 6.76 | 19.82 | 0.901 | -188 | 3.25 | 19.7 | |
| | 1003 | 17.82 | 60 | 1320 | 6.76 | 19.93 | 0.899 | -189 | 3.04 | 18.8 | |
| | 1006 | 17.82 | 60 | 1500 | 6.75 | 19.94 | 0.893 | -187 | 2.87 | 18.3 | |
| | 1009 | 17.82 | 60 | 1680 | 6.76 | 19.90 | 0.899 | -188 | 3.00 | 18.0 | |
| | 1012 | 17.82 | 60 | 1860 | 6.76 | 19.87 | 0.899 | -188 | 3.02 | 17.7 | |
| | 1015 | 17.82 | 60 | 2040 | 6.76 | 19.92 | 0.890 | -188 | 2.72 | 17.5 | |
| | 1018 | 17.82 | 60 | 2220 | 6.76 | 19.97 | 0.891 | -188 | 2.81 | 16.6 | |
| | 1021 | 17.82 | 60 | 2400 | 6.76 | 20.03 | 0.891 | -189 | 2.87 | 17.1 | |
| 1024 | 17.82 | 60 | 2580 | 6.76 | 20.06 | 0.899 | -188 | 2.83 | 15.8 | | |
| Parameters stabilized | | | | | | | | | | | |
| | 1500 | | | | 6.99 | 23.46 | 1.118 | -269 | 3.09 | 85.9 | TA |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: **75 gal minimum system purge volume**
1025 - sample collection begun

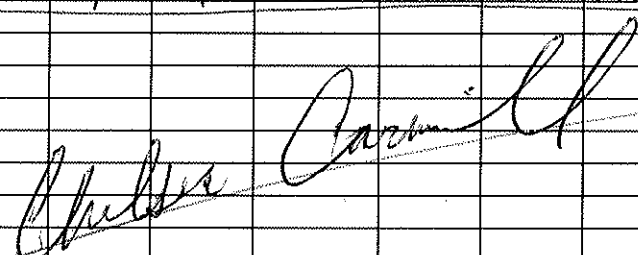
PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|----------------------|
| Well No.: RS-18 | Site: SSFL Radiological Study, Area IV | |
| Sampler(s): C. Carmichael | Project No.: R9008, 01, 22, 04, 02 | |
| Sampler(s): | Date: 3-17-11 | Time: 1512 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP ² B | Type of Pump: 2 Bailer | |
| Sample ID: SMRS-18-GW031811 | Sample Date: 3-18-11 | Sample Time: 0820 |
| Additional Samples (DUP/MSD/Blanks): SMRS-18-GW031811 Q | Sample Date: 3-18-11 | Sample Time: 0820 |
| Additional Samples (DUP/MSD/Blanks): SMRS-18-GW031811 MS | Sample Date: 3-18-11 | Sample Time: 0820 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 14.29' | DTW (ft): 4.57' | Type of Pump: Bailer |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 7.5-13' | partly cloudy, 73° | |
| Well Diameter (in): 4" | Placement of Pump (ft) n/a | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--|------|---------------------|-----------------|--------------------|------|----------------------|------------------|-----|-------------|---------------|---------------|
| 3-17-11 | 1520 | 8.31 | n/a | 3 | 6.95 | 17.21 | 900 | 203 | 5.72 | 110 | start purging |
| 3-17-11 | 1524 | 9.25 | n/a | 6 | 7.00 | 16.82 | 928 | 203 | 5.43 | 127 | |
| 3-17-11 | 1527 | 9.42 | n/a | 9 | 7.00 | 16.79 ⁽²⁾ | 911 | 199 | 5.37 | 119 | |
| 3-17-11 | 1531 | 10.23 | n/a | 12 | 7.00 | 16.80 | 900 | 197 | 4.91 | 140 | |
| 3-17-11 | 1535 | 10.92 | n/a | 15 | 7.02 | 16.83 | 894 | 196 | 5.56 | 132 | |
| 3-17-11 | 1544 | 11.35 | n/a | 19 | 7.03 | 17.01 | 861 | 199 | 5.21 | 166 | end purge |
| 3-18-11 | 0740 | 4.82 | n/a | n/a | 7.05 | 13.79 | 831 | 193 | 5.23 | 60 | sample |
|  | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Purged dry until parameters stable at 1544.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|---------------------------|
| Well No.: RS-25 | Site: SSFL RAD Survey Area IV+NBZ EPA Reg. 9 | |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): ED Budano (BlainTech) | Date: 3/22/11 | Time: 1500 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Bailer |
| Sample ID: SMRS-25-6W032211 | Sample Date: 3/22/11 | Sample Time: 1510 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: (pre-sample) |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: (disregard) |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 14.87 TM 14.92 | DTW (ft): 12.18 | Type of Pump: Bailer |
| Condition of Bottom of Well: - | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 8.5-13.5 | Partly cloudy, light wind, 65°F | |
| Well Diameter (in): 4" | Placement of Pump (ft) Bailer | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|-------|---------|---------------------|-----------------|--------------------------|-----------------------|------------|------------------|---------------------|-------------|---------------|------------------|
| START | 3/22/11 | 1500 | 14.92 | - | 6.66 | 16.04 | 0.892 | -202 | 1.62 | 116 | |
| | | | | | - samples collected - | | | | | | |
| | | | | (2 gal + sample volume) | 6.65 | 17.04 | 0.886 | -200 | 2.17 | 97.1 | murky/sandy |
| | | | | (4 gal + sample volume) | 6.68 | 17.17 | 0.886 | -193 | 2.45 | 124 | murky |
| | | | | (8 gal + sample volume) | 6.71 | 17.12 | 0.879 | -172 | 2.50 | 138 | murky |
| | | | | (12 gal + sample volume) | 6.67 | 17.16 | 0.890 | -183 | 2.92 | 161 | murky |
| ✓ | | 1535 | 13.87 | (14 gal + sample volume) | 6.66 | 17.15 | 0.891 | -180 | 2.71 | 153 | murky |
| END | | | | Stopped Bailer | | | | Purge ~16 gal total | | | |
| START | 3/23/11 | 0830 | 12.43 | 16 | | | | start | Bailing | | |
| | | 0840 | 12.43 | 16 | 6.52 | 14.60 | 0.349 | 48 | 4.21 | 143 | murky |
| | | 0855 | 12.63 | 22 | 6.51 | 16.56 | 0.468 | -21 | 1.64 | 665 | very murky |
| | | 0903 | - | 4 | 6.55 | 17.14 | 0.856 | -116 | 2.42 | 2000 | silt/mud |
| | | 0909 | 12.79 | 6 | 6.64 | 17.07 | 0.866 | -106 | 3.74 | 2000 | " |
| | | 0918 | - | 6 | 6.70 | 16.87 | 0.858 | -116 | 3.57 | 2000 | " |
| | | 0923 | 1309 | 6 | 6.62 | 16.35 | 0.854 | -124 | 3.60 | 5999 | muddy |
| END | ✓ | 0932 | 13.22 | 6 | 6.65 | 17.07 | 0.869 | -130 | 3.93 | 5999 | very muddy/silty |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): murky to very murky/silty/muddy (due to use of bailer purge) |
| Odor (circle one): None Low Medium High Very strong H2S Fuel-like |
| PID reading: |
| Notes: 1500 - collected samples |
| 1517 - continued to purge (bailer) water from RS-25 - 1535 (stop) |
| 90% = 12.95 DTW, will return to collect post-purge sample once silt settles |
| PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"] |
| Signed/Sampler(s): <i>Ed Budano</i> |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|----------------------|
| Well No.: RS-25 | Site: SSFL RAD Survey Area IV + MBZ EPA Reg. 9 | |
| Sampler(s): Timothy Morse | Project No.: EP90388.01.22.04.02 | |
| Sampler(s): ED Bruno (Bantech) | Date: 3/24/11 | Time: 0740 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Bailer |
| Sample ID: SMRS-25-6W032411 | Sample Date: 3/24/11 | Sample Time: 0815 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 14.92 | DTW (ft): 12.80 | Type of Pump: Bailer |
| Condition of Bottom of Well: - | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 8.5-15.5 | Partly cloudy, light wind, cool ~50°F | |
| Well Diameter (in): 4" | Placement of Pump (ft) Bailer | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|------------------|
| 3/24/11 | 0808 | 12.80 | - | - | 6.73 | 15.80 | 0.904 | -121 | 2.35 | 550 | Sample collected |
| TM | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): clear at first until well surged by bailer activity

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Samples turbid (~500-1000 ntu) due to hard bailing sample technique

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|----------------------|
| Well No.: RS-27 | Site: SSFL Radiological Study, Area III | |
| Sampler(s): C Carmichael | Project No.: ER9038.01.22.04.02 | |
| Sampler(s): | Date: 3-30-11 | Time: 1400 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): B | Type of Pump: bailer | |
| Sample ID: SMRS-27-GW033011 | Sample Date: 3-30-11 | Sample Time: 1400 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 9.83 | DTW (ft): 6.97 | Type of Pump: bailer |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 5-9' | Sunny, 82° | |
| Well Diameter (in): 4" | Placement of Pump (ft) n/a | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|----------------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-------------------|
| 3-30-11 | 1413 | 6.97 | — | — | 6.97 | 21.36 | 764 | 117 | 5.65 | 516 | Sample parameters |
| <p><i>Chelsea Carmichael</i></p> | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): slight yellowish-brown tint

Odor (circle one): (None) Low Medium High Very strong H2S Fuel-like

PID reading: —

Notes: Sample collected first - little to no recharge with <3 ft water column. All 9 bottles were filled.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: <u>RS-54</u> | Site: <u>SSFL Radiological Study, Area IV</u> |
| Sampler(s): <u>C. Carmichael</u> | Project No.: <u>EP9038.01.22.04.020</u> |
| Sampler(s): <u>—</u> | Date: <u>3-28-11</u> Time: <u>1425</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>SP</u> | Type of Pump: <u>dedicated submersible</u> |
| Sample ID: <u>SMRS-54-GW032811</u> | Sample Date: <u>3-28-11</u> Sample Time: <u>1450</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> Sample Time: <u>/</u> |
| Well Depth: <u>46.24'</u> | DTW (ft): <u>17.26'</u> Type of Pump: <u>dedicated submersible</u> |
| Condition of Bottom of Well: <u>—</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>sunny, 68"</u> |
| Screen Interval (ft): <u>open hole</u> | Placement of Pump (ft): <u>—</u> |
| Well Diameter (in): <u>6.25"</u> | |

1449

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS | |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-------------------|---------------|
| 3-28-11 | 1451 | 24.35 | 3 | 9 | 7.42 | 19.92 | 1189 | 141 | 2.07 | 105 | sample | |
| 3-28-11 | 1454 | 28.89 | 3 | 18 | 7.08 | 20.00 | 1190 | 130 | 0.63 | 105 | post-sample purge | |
| 3-28-11 | 1457 | 33.23 | 3 | 27 | 7.05 | 19.93 | 1180 | 125 | 0.54 | 98.5 | | |
| 3-28-11 | 1500 | 38.93 | 3 | 36 | 7.07 | 19.77 | 1189 | 125 | 0.53 | 99.5 | | |
| 3-28-11 | 1503 | 44.30 | 3 | 43 | 7.05 | 19.79 | 1187 | 120 | 0.71 | 103 | | |
| 3-28-11 | 1504 | Pump ceases | | | | | | | | | | Purge stopped |
| | | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: 3 gail

Notes: Start purge at 50 ml/min using Franklin electric box → sampled first because there is no recharge. Well went dry at 1504 (~44 gallons purged)

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

Ben Stevens

| | | |
|---|--|-----------------------|
| Well No.: PZ-005 | Site: SSFL Area IV Radiological Study | |
| Sampler(s): C. Carmichael | Project No.: 89038.01.22.04.02 | |
| Sampler(s): | Date: 3-23-11 | Time: 0815 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: bladder | |
| Sample ID: SMPZ-005-GW032311 | Sample Date: 3-23-11 | Sample Time: 1000 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 25.92' | DTW (ft): 14.28' | Type of Pump: bladder |
| Condition of Bottom of Well: some sediment | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): overcast, 51° | |
| Screen Interval (ft): 15-25 | Placement of Pump (ft): 22' | |
| Well Diameter (in): 2" | | |

0827

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) (ml/min) | TOTAL VOLUME (GAL) (ml) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|--------------|---------------------|--------------------------|-------------------------|------|------------|------------------|-----|-------------|---------------|-----------------------|
| 3-23-11 | 0832 | 14.39 | 100 ml/min | 800 | 6.87 | 17.01 | 1,093 | 181 | 5.84 | 5999 | Start purge |
| 3-23-11 | 0835 | 14.41 | 200 | 1400 | 6.99 | 18.28 | 1090 | 174 | 6.03 | 5999 | |
| 3-23-11 | 0838 | 14.41 | 200 | 2000 | 7.04 | 18.45 | 1079 | 170 | 6.16 | 5999 | |
| 3-23-11 | 0841 | 14.41 | 200 | 2600 | 7.10 | 18.48 | 1074 | 169 | 6.29 | 2000 | |
| 3-23-11 | 0844 | 14.41 | 200 | 3200 | 7.12 | 18.52 | 1075 | 167 | 6.34 | 2000 | |
| 3-23-11 | 0847 | 14.41 | 200 | 3800 | 7.11 | 18.54 | 1072 | 166 | 6.36 | 2000 | stabilization reached |
| | start sample | | 0849 | | | | | | | | |

Chelsea Carmichael

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Start sampling at 0849; Flow rate for sample: 100 ml/min

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *Chelsea Carmichael*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|-------------------------------|
| Well No.: PZ-041 | Site: SSFL RAD SURVEY AREA | |
| Sampler(s): Timothy Morse | Project No.: EPA D38.01.22.04.02 | |
| Sampler(s): ED Budano | Date: 3/25/11 | Time: 0905 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Sample Pro micro purge |
| Sample ID: SMPZ-041-6W032511 | Sample Date: 3/25/11 | Sample Time: 1000 |
| Additional Samples (DUP/MSD/Blanks): SM source-16-EB032511 | Sample Date: 3/25/11 | Sample Time: 1420 |
| Additional Samples (DUP/MSD/Blanks): SM source-16-EB032511 | Sample Date: 3/25/11 | Sample Time: 1420 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 29.6' | DTW (ft): 5.99 | Type of Pump: Sample Pro pump |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 19-29 | cloudy, light breeze | |
| Well Diameter (in): 2" | Placement of Pump (ft) 24' | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|-----------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3/25/11 | 0928 | 6.29 | 60 mL | 815 | 7.12 | 16.14 | 1.111 | -162 | 0.87 | 25.3 | |
| | 0931 | 6.43 | 60 | 925 | 7.12 | 16.07 | 1.111 | -165 | 0.82 | 24.0 | |
| | 0934 | 6.57 | 60 | 1055 | 7.12 | 15.99 | 1.111 | -167 | 0.77 | 21.5 | |
| | 0937 | 6.70 | 50 mL | 1105 | 7.12 | 15.94 | 1.113 | -169 | 0.75 | 20.1 | |
| | 0940 | 6.83 | 50 | 1165 | 7.12 | 15.90 | 1.114 | -172 | 0.78 | 18.7 | |
| | 0943 | 7.01 | 50 | 1205 | 7.12 | 15.85 | 1.099 | -173 | 0.75 | 7.6 | |
| | 0948 | 7.10 | 50 | 1255 | 7.12 | 15.80 | 1.098 | -174 | 0.74 | 16.7 | |
| | 0949 | 7.20 | 50 | 1305 | 7.12 | 15.51 | 1.098 | -176 | 0.74 | 16.5 | |
| Parameters stabilized | | | | | | | | | | | |
| FM | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: 772 mL needed to purge system volume
pump on @ 0915
50 mL/min continues to cause drawdown

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|------------------------------------|
| Well No.: P2-052 | Site: SDFL Area IV | |
| Sampler(s): Jason M's Daniel (HGL) | Project No.: EP9.038.01.22.04.02 | |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-31-11 | Time: 0850 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Bladder | Non-dedicated submersible |
| Sample ID: SMP20526W03311 | Sample Date: 3-31-11 | Sample Time: 0942 |
| Additional Samples (DUP/MSD/Blanks): SM Dup 086W03311 Q | Sample Date: 3-31-11 | Sample Time: 1230 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 21.35 | DTW (ft): 16.70 | Type of Pump: non ded. submersible |
| Condition of Bottom of Well: / | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 18.9-28.9 | Sunny, clear, light N wind ~ 70° | |
| Well Diameter (in): 2.0 | Placement of Pump (ft) 25.0 ft 24.0 BTL | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------|------|------------------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 3-31-11 | 0938 | 17.10 | 50 gal/hr | 700 gal | 7.05 | 21.52 | 1,024 | 114 | 4.26 | 39 | |
| " | 0939 | 17.19 | " | 850 " | 7.06 | 21.19 | 1,026 | 105 | 4.49 | 37 | |
| " | 0934 | 17.22 | " | 1000 " | 7.08 | 21.01 | 1,027 | 96 | 4.50 | 35 | |
| " | 0937 | 17.24 | " | 1150 " | 7.09 | 20.95 | 1,028 | 91 | 4.61 | 35 | |
| " | 0940 | 17.27 | " | 1300 " | 7.10 | 20.81 | 1,026 | 92 | 4.72 | 36 | |
| " | 0941 | well stabilized | | | | | | | | | |
| " | 0942 | Sampled well: SMP20526W03311 | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Water Column: 14.65

0942 Sampled well: SMP20526W03311

1 Well Vol: 2.54 3 Well Vol: 7.03 Total Purge: 1700 ml

PURGE VOLUME CALCULATIONS For: well casing volume = J (Re)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): JND

| | | |
|--|---|-----------------------------|
| Well No.: <u>PZ-055</u> | Site: <u>SSFL RAD SURVEY AREA II+NBZ EPA Rg 9</u> | |
| Sampler(s): <u>Timothy Mase</u> | Project No.: <u>EP9058.01.22.04.02</u> | |
| Sampler(s): <u>Ed Bubano</u> | Date: <u>3/31/11</u> | Time: <u>0800</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: <u>Bailer</u> | |
| Sample ID: <u>SMPZ-055-6W033111</u> | Sample Date: <u>3/31/11</u> | Sample Time: <u>0810</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Well Depth: <u>32.30</u> | DTW (ft): <u>32.18</u> | Type of Pump: <u>Bailer</u> |
| Condition of Bottom of Well: <u>-</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>Sunny, mod. wind, ~75°F</u> | |
| Screen Interval (ft): <u>open hole</u> | Placement of Pump (ft) <u>Bailer (bottom)</u> | |
| Well Diameter (in): <u>2"</u> | | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|----------------|------|---------------------|-----------------|--------------------|----|------------|------------------|-----|-------------|---------------|-------------------------------------|
| <u>3/31/11</u> | | | | | | | | | | | <u>Insufficient amount of water</u> |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): Silty, murky

Odor (circle one): (None) Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: insufficient water column to purge and/or collect sample. Used bailer to try and retrieve sample and was only able to collect 1/2 of 250-mL Tritium sample.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|--------------------------|
| Well No.: PZ-056 | Site: SSFL RAD Survey Area # + NBZ EPA Reg. 2 | |
| Sampler(s): ED Budano (BlainTech) | Project No.: EP9038, 01.22.04.02 | |
| Sampler(s): Timothy Morse (HBL) | Date: 3/28/11 | Time: 0910 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Sample Pro Micro Purge |
| Sample ID: SMPZ-056-6W032811 | Sample Date: 3/28/11 | Sample Time: 1030 |
| Additional Samples (DUP/MSD/Blanks): SMA site-19-EB032811 | Sample Date: 3/28/11 | Sample Time: 1310 |
| Additional Samples (DUP/MSD/Blanks): SMSOURCE-19-EB032811 | Sample Date: 3/28/11 | Sample Time: 1310 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 30.25 (30.3 ft gauged) | DTW (ft): 8.1 ft | Type of Pump: Sample Pro |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 17-27 | Sunny, light wind, ~65°F | |
| Well Diameter (in): 2" | Placement of Pump (ft): 25' | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|-----------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3/28/11 | 0942 | 8.33 | 75 mL | 675 mL | 6.41 | 15.41 | 0.408 | -205 | 1.02 | 31.2 | |
| | 0945 | 8.43 | 75 | 750 | 6.39 | 15.41 | 0.402 | -207 | 0.96 | 27.2 | |
| | 0948 | 8.53 | 75 | 1125 | 6.38 | 15.34 | 0.404 | -211 | 0.75 | 23.7 | |
| | 0951 | 8.62 | 75 | 1350 | 6.37 | 15.40 | 0.403 | -213 | 0.62 | 22.7 | |
| | 0954 | 8.72 | 75 | 1575 | 6.37 | 15.40 | 0.403 | -216 | 0.55 | 33.8 | |
| | 0957 | 8.76 | 75 | 1800 | 6.37 | 15.33 | 0.404 | -217 | 0.50 | 38.5 | |
| | 1000 | 8.81 | 75 | 2025 | 6.37 | 15.47 | 0.404 | -219 | 0.46 | 36.1 | |
| | 1003 | 8.90 | 75 | 2250 | 6.37 | 15.61 | 0.403 | -219 | 0.43 | 27.1 | |
| | 1006 | 8.92 | 75 | 2475 | 6.37 | 15.75 | 0.403 | -221 | 0.40 | 23.0 | |
| | 1009 | 8.93 | 75 | 2700 | 6.37 | 15.96 | 0.402 | -224 | 0.38 | 20.1 | |
| | 1012 | 8.96 | 75 | 2925 | 6.37 | 15.99 | 0.402 | -226 | 0.35 | 19.5 | |
| | 1015 | 8.98 | 75 | 3150 | 6.37 | 15.96 | 0.400 | -226 | 0.34 | 19.2 | |
| | 1018 | 9.03 | 75 | 3375 | 6.37 | 16.07 | 0.400 | -227 | 0.33 | 17.9 | |
| | 1021 | 9.06 | 75 | 3600 | 6.37 | 16.13 | 0.401 | -228 | 0.32 | 17.9 | |
| Parameters Stabilized | | | | | | | | | | | |
| AA | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): *water is slightly turbid*

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: *pump placed @ 25' bgs. due to possible shutdown
650 mL needed for minimum system purge
pump on @ 0953 pump off @ 1022*

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

| | | |
|--|--|---------------------|
| Well No.: PZ-073 | Site: SSFL Radiological Survey Area 10/NB2 (EPA Region 9) | |
| Sampler(s): Stephanie Lopez-Nortone (HGL) | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Nick Mamed (Blow Tech) | Date: 4/19/11 | Time: 0915 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: _____ | |
| Sample ID: no sample - well dry | Sample Date: _____ | Sample Time: _____ |
| Additional Samples (DUP/MSD/Blanks): _____ | Sample Date: _____ | Sample Time: _____ |
| Additional Samples (DUP/MSD/Blanks): _____ | Sample Date: _____ | Sample Time: _____ |
| Additional Samples (DUP/MSD/Blanks): _____ | Sample Date: _____ | Sample Time: _____ |
| Well Depth: 55 | DTW (ft): Dry | Type of Pump: _____ |
| Condition of Bottom of Well: _____ | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 41-51 | overcast, ~70°F (cool), slight breeze from North | |
| Well Diameter (in): _____ | Placement of Pump (ft) _____ | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---|------|---------------------|-----------------|--------------------|-----|------------|------------------|-----|-------------|---------------|----------|
| 4/19/11 | 0915 | Dry | --- | --- | --- | --- | --- | --- | --- | --- | well dry |
| (A large diagonal line is drawn across the remaining rows of the table, indicating no further data was recorded.) | | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: Clear Other (describe): _____ NA |
| Odor (circle one): None Low Medium High Very strong H2S Fuel-like _____ NA |
| PID reading: NA |
| Notes: well dry |
| PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"] |
| Signed/Sampler(s): <i>[Signature]</i> |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|-------------------------------------|
| Well No.: PZ-098 | Site: SSFL RAD Survey Area DE+NBZ EPA Reg. 9 | |
| Sampler(s): Timothy Morse | Project No.: EP9038-01.22.04.02 | |
| Sampler(s): ED Budano (BlainTech) | Date: 3/29/11 | Time: 1015 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | dedicated submersible |
| Sample ID: SMPZ-098-6W032211 | Sample Date: 3/29/11 | Sample Time: 1130 |
| Additional Samples (DUP/MSD/Blanks): SMAinsate-24-EB032211 | Sample Date: 3/29/11 | Sample Time: 1520 |
| Additional Samples (DUP/MSD/Blanks): SMSOURCE-24-EB032211 | Sample Date: 3/29/11 | Sample Time: 1520 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 37.88 | DTW (ft): 18.55 | Type of Pump: dedicated submersible |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 24-34 | Sunny, N70E, light wind | |
| Well Diameter (in): 2" | Placement of Pump (ft) 28.5-29' | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|-----------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3/29/11 | 1047 | 19.53 | 75 ml | 825ml | 6.62 | 17.72 | 1.114 | -183 | 3.60 | 5.1 | |
| | 1050 | 19.72 | 75 | 1050ml | 6.68 | 17.96 | 1.127 | -181 | 3.32 | 5.1 | |
| | 1053 | 19.92 | 75 | 1275 | 6.68 | 18.05 | 1.129 | -179 | 3.33 | 6.2 | |
| | 1057 | 20.10 | 50 | 1475 | 6.68 | 18.35 | 1.121 | -177 | 3.21 | 5.6 | |
| | 1101 | 20.27 | 50 | 1675 | 6.68 | 18.57 | 1.129 | -175 | 3.21 | 5.9 | |
| | 1105 | 20.45 | 50 | 1875 | 6.68 | 18.77 | 1.117 | -174 | 3.15 | 6.7 | |
| | 1109 | 20.55 | 50 | 2075 | 6.68 | 18.83 | 1.117 | -173 | 3.08 | 6.4 | |
| | 1113 | 20.72 | 50 | 2275 | 6.67 | 19.00 | 1.129 | -172 | 3.14 | 6.8 | |
| | 1117 | 20.81 | 50 | 2475 | 6.68 | 18.97 | 1.129 | -172 | 3.01 | 6.7 | |
| | | | | Parameters stabilized | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: 781 ml needed to purge minimum system volume
 (1119 begin filling sample bottles
 1510 samples finished)

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|----------------------------|
| Well No.: PZ-100 | Site: SSFL Radiological Study, Area IV | |
| Sampler(s): C. Carmichael | Project No.: R7038.01.22.04.02 | |
| Sampler(s): | Date: 3-18-11 | Time: 0855 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Bladder | |
| Sample ID: SMPZ-100-GW031811 | Sample Date: 3-18-11 | Sample Time: 1100 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 19.34 | DTW (ft): 10.54' | Type of Pump: Bladder pump |
| Condition of Bottom of Well: / | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 5.67' - 15.67' | Clear, 62° | |
| Well Diameter (in): 2" | Placement of Pump (ft) 15' | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) (ML/MIN) | TOTAL VOLUME (GAL) (L) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--------------------|------|---------------------|--------------------------|------------------------|------|------------|------------------|-----|-------------|---------------|-----------------------------------|
| 3-18-11 | 0928 | 10.54' | 50 | 800 | 7.33 | 15.11 | 1416 | 153 | 5.84 | 25 | Start purge (after system volume) |
| 3-18-11 | 0928 | 10.76 | 50 | 1,000 | 7.31 | 15.28 | 1427 | 164 | 5.92 | 28 | |
| 3-18-11 | 0932 | 10.84 | 50 | 1,200 | 7.33 | 15.29 | 1422 | 169 | 5.93 | 28 | |
| 3-18-11 | 0936 | 10.91 | 50 | 1,400 | 7.35 | 15.43 | 1428 | 170 | 6.04 | 28 | |
| 3-18-11 | 0940 | 11.00 | 50 | 1,600 | 7.39 | 15.57 | 1412 | 170 | 6.05 | 27 | |
| 3-18-11 | 0944 | 11.05 | 50 | 1,800 | 7.38 | 15.69 | 1425 | 170 | 6.08 | 27 | Purge ended - equilibrium |
| Chelsea Carmichael | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Purged until equilibrium reached at 0944.
Final DTW: 14.11'

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2", x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-----------------------|
| Well No.: PZ-101 | Site: SSFL Radiological Study, Area IV | |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): | Date: 3-28-11 | Time: 0815 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: bladder | |
| Sample ID: SMPZ-101-CW032811 | Sample Date: 3-28-11 | Sample Time: 1000 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 23.23' | DTW (ft): 6.44' | Type of Pump: bladder |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 10-20' | clear, sunny, 61" | |
| Well Diameter (in): 2" | Placement of Pump (ft): | |

0830

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) (ML/min) | TOTAL VOLUME (GAL) (ML) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|----------------------------------|------|---------------------|--------------------------|-------------------------|------|------------|-------------------|-----|-------------|---------------|-----------------------|
| 3-28-11 | 0842 | 6.90' | 50 | 600 | 7.49 | 16.96 | 783 | 185 | 6.09 | 311 | start purge |
| 3-28-11 | 0845 | 7.04' | 50 | 750 | 7.49 | 17.24 | 781 ⁰⁰ | 189 | 5.81 | 313 | |
| 3-28-11 | 0848 | 7.19' | 50 | 900 | 7.50 | 17.20 | 782 | 188 | 5.76 | 307 | |
| 3-28-11 | 0851 | 7.34' | 50 | 1050 | 7.49 | 17.20 | 780 | 187 | 5.74 | 304 | Stabilization reached |
| <p><i>Chelsea Carmichael</i></p> | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Begin purge at 0830, stabilization reached at 0851. Start sample at 0852. Flow rate increased to 70/ml a minute at 1100. Sample complete at 1156.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *Chelsea Carmichael*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: PZ-102 | Site: SSFL Radiological Study Area IV |
| Sampler(s): C. Carmichael | Project No.: 609038.01.22.04.02 |
| Sampler(s): | Date: 3-30-11 Time: 0800 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: bladder |
| Sample ID: SMPZ-102-GW033011 | Sample Date: 3-30-11 Sample Time: 1100 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 60.7 | DTW (ft): 51.20 Type of Pump: bladder |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): 48.5-59.2 | Sunny, 72° |
| Well Diameter (in): 2" | Placement of Pump (ft) 58' |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) (ml/min) | TOTAL VOLUME (GAL) (ml) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|--------------------------|-------------------------|------|------------|------------------|-----|-------------|---------------|-------------------------------|
| 3-30-11 | 0938 | 51.49 | 50 | 850 | 6.82 | 19.32 | 273 | 134 | 5.92 | 399 | |
| 3-30-11 | 0941 | 51.52 | 50 | 1000 | 6.65 | 19.35 | 271 | 134 | 6.02 | 377 | |
| 3-30-11 | 0944 | 51.52 | 50 | 1150 | 6.55 | 19.36 | 270 | 135 | 5.77 | 342 | |
| 3-30-11 | 0947 | 51.52 | 50 | 1300 | 6.50 | 19.29 | 267 | 135 | 6.30 | 324 | |
| 3-30-11 | 0950 | 51.56 | 50 | 1450 | 6.48 | 19.25 | 265 | 134 | 6.22 | 303 | |
| 3-30-11 | 0953 | | 50 | 1600 | 6.47 | | | | 6.46 | | Airline blocked, purge paused |
| 3-30-11 | 0958 | 51.56 | 50 | 1850 | 6.45 | 19.35 | 264 | 134 | 6.20 | 320 | |
| 3-30-11 | 1001 | 51.58 | 50 | 2000 | 6.45 | 19.48 | 262 | 134 | 6.43 | 306 | |
| 3-30-11 | 1004 | 51.58 | 50 | 2150 | 6.44 | 19.51 | 261 | 134 | 6.45 | 294 | Stabilization reached |

Chelsea Carmichael
3-30-11

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: _____ Honda GX-120 Gas powered compressor

Notes: Because of restricted access to well, a pressurized gas tank system (portable) in conjunction with a bladder pump is used to purge/sample well. Sample begun at 1005. Sample complete at 1311. All 9 bottles filled.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x). [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *Chelsea Carmichael*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: PZ-103 | Site: SSFL Radiological Study, Area IV |
| Sampler(s): C. Carmichael | Project No.: 609038.01.28.04.02 |
| Sampler(s): | Date: 3-25-11 Time: 1025 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: non-dedicated SP (bladder) |
| Sample ID: SMPZ-103-CW032511 | Sample Date: 3-25-11 Sample Time: 1245 |
| Additional Samples (DUP/MSD/Blanks) SMS source-18-EB032511 | Sample Date: 3-25-11 Sample Time: 1025 |
| Additional Samples (DUP/MSD/Blanks) SMR insate-18-EB032511 | Sample Date: 3-25-11 Sample Time: 1025 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 37.65 | DTW (ft): 24.05 Type of Pump: non-dedicated SP (bladder) |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): 28.5 - 38.5' | Overcast, 54° |
| Well Diameter (in): 2" | Placement of Pump (ft): 35' |

1043

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) (ML/min) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|--------------------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-25-11 | 1046 | 24.08 | 500 | 1500 | 7.61 | 19.11 | 1097 | 138 | 5.96 | 1267 | |
| 3-25-11 | 1049 | 24.08 | 500 | 3000 | 7.48 | 19.59 | 1105 | 140 | 6.67 | 2000 | |
| 3-25-11 | 1052 | 24.08 | 500 | 4500 | 7.23 | 19.95 | 1099 | 138 | 6.71 | 2000 | |
| 3-25-11 | 1055 | 24.08 | 500 | 6000 | 7.34 | 19.78 | 1096 | 138 | 6.17 | 2000 | |
| 3-25-11 | 1058 | 24.08 | 500 | 7500 | 7.35 | 19.79 | 1095 | 137 | 5.83 | 2000 | |
| 3-25-11 | 1101 | 24.08 | 500 | 9000 | 7.36 | 19.80 | 1095 | 136 | 5.63 | 2000 | |
| 3-25-11 | 1104 | 24.08 | 500 | 10500 | 7.36 | 19.83 | 1092 | 136 | 5.68 | 2000 | |
| 3-25-11 | 1107 | 24.08 | 500 | 12000 | 7.35 | 19.84 | 1094 | 136 | 5.68 | 2000 | |
| 3-25-11 | 1110 | 24.08 | 500 | 13500 | 7.36 | 19.85 | 1093 | 136 | 5.67 | 1773 | |
| 3-25-11 | 1113 | 24.08 | 500 | 15000 | 7.35 | 19.75 | 1098 | 136 | 5.65 | 1631 | |
| 3-25-11 | 1116 | 24.08 | 500 | 16500 | 7.35 | 19.76 | 1105 | 137 | 5.64 | 1586 | |
| 3-25-11 | 1119 | 24.08 | 500 | 18000 | 7.35 | 19.74 | 1095 | 137 | 5.64 | 1576 | |
| 3-25-11 | 1124 | 24.08 | 500 | 19500 | 7.36 | 19.75 | 1094 | 135 | 5.68 | 1407 | |
| 3-25-11 | 1129 | 24.08 | 500 | 21000 | 7.36 | 19.78 | 1092 | 136 | 5.65 | 1198 | |
| 3-25-11 | 1134 | 24.08 | 500 | 22500 | 7.35 | 19.80 | 1093 | 136 | 5.66 | 1105 | |
| 3-25-11 | 1139 | 24.08 | 500 | 24000 | 7.36 | 19.81 | 1087 | 136 | 5.65 | 932 | |
| 3-25-11 | 1144 | 24.08 | 500 | 25500 | 7.35 | 19.64 | 1091 | 136 | 5.64 | 840 | |
| 3-25-11 | 1149 | 24.08 | 500 | 27000 | 7.35 | 19.74 | 1091 | 136 | 5.64 | 790 | |
| 3-25-11 | 1154 | 24.08 | 500 | 28500 | 7.36 | 19.76 | 1091 | 136 | 5.63 | 760 | |
| 3-25-11 | 1159 | 24.08 | 500 | 30000 | 7.36 | 19.76 | 1092 | 135 | 5.65 | 729 | |
| 3-25-11 | 1204 | 24.08 | 500 | 40500 | 7.36 | 19.76 | 1091 | 135 | 5.65 | 675 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: —

Notes: Start purge at 1043, stabilization reached at 1229. (waited for turbidity to decline)

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

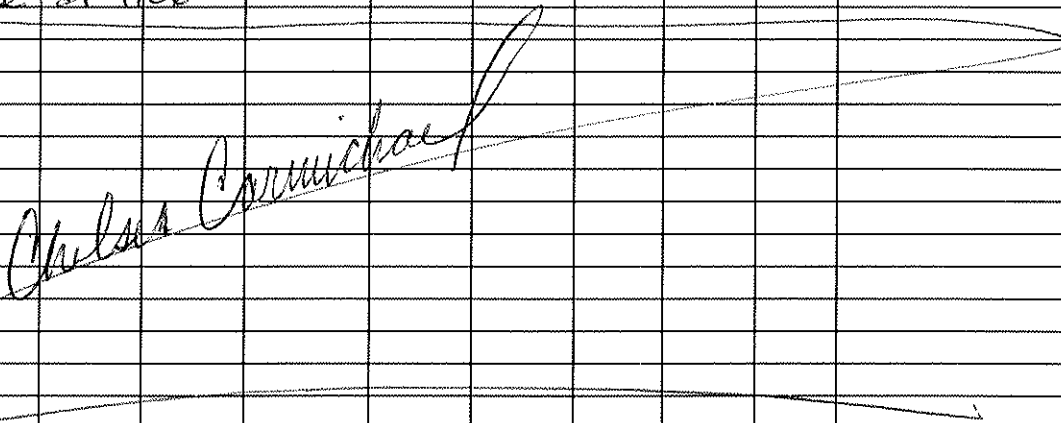
Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|--|
| Well No.: <u>PZ-105</u> | Site: <u>SSFL Area IV Radiological Study</u> | |
| Sampler(s): <u>C. Carmichael</u> | Project No.: <u>EP9038.01.22.04.02</u> | |
| Sampler(s): <u> </u> | Date: <u>3-23-11</u> | Time: <u>1020</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>SP</u> | Type of Pump: <u>Grundfos</u> | |
| Sample ID: <u>SMPZ-105-BW032311</u> | Sample Date: <u>3-23-11</u> | Sample Time: <u>1230</u> |
| Additional Samples (DUP/MSD/Blanks): <u> </u> | Sample Date: <u> </u> | Sample Time: <u> </u> |
| Additional Samples (DUP/MSD/Blanks): <u> </u> | Sample Date: <u> </u> | Sample Time: <u> </u> |
| Additional Samples (DUP/MSD/Blanks): <u> </u> | Sample Date: <u> </u> | Sample Time: <u> </u> |
| Well Depth: <u>30.38'</u> | DTW (ft): <u>14.59</u> | Type of Pump: <u>Grundfos, non-decl.</u> |
| Condition of Bottom of Well: <u> </u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u> </u> | |
| Screen Interval (ft): <u>17-27'</u> | <u>overcast, 56'</u> | |
| Well Diameter (in): <u>2"</u> | Placement of Pump (ft) <u>26'</u> | |

1036

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-------------|
| 3-23-11 | 1049 | 14.60 | 50 | 700 | 7.89 | 17.56 | 730 | 152 | 4.32 | 470 | Start purge |
| 3-23-11 | 1052 | 14.66 | 50 | 850 | 7.90 | 17.68 | 935 | 164 | 4.23 | 376 | |
| 3-23-11 | 1055 | 14.66 | 50 | 1,000 | 7.77 | 17.64 | 942 | 165 | 4.11 | 350 | |
| 3-23-11 | 1057 | 14.66 | 50 | 1,150 | 7.69 | 17.88 | 934 | 165 | 3.84 | 334 | |
| 3-23-11 | 1100 | 14.66 | 50 | 1,300 | 7.69 | 17.98 | 939 | 166 | 3.84 | 330 | |
| 3-23-11 | 1103 | 14.66 | 50 | 1,450 | 7.66 | 18.00 | 937 | 166 | 3.87 | 331 | |
| Start sample at 1106 | | | | | | | | | | | |
|  | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Begin purge at 1036. Stabilization reached at 1105.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|---------------------|
| Well No.: P2-106 | Site: SSFL Area IV | |
| Sampler(s): Jason McDaniel (HGL) | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-18-11 | Time: 0920 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Bladder | |
| Sample ID: SMP2 106 GW031811 | Sample Date: 3-18-11 | Sample Time: 1020 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 35.0 | DTW (ft): 12.72 | Type of Pump: _____ |
| Condition of Bottom of Well: Soft | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 18.28 | Clear, no wind in 65° | |
| Well Diameter (in): 2 | Placement of Pump (ft) 23' BTOL | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|------------------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-18-11 | 0955 | 12.85 | 75 ml/a | 1,125 ml | 6.85 | 16.52 | 906 | 92 | 4.24 | 33 | |
| " | 0958 | 12.90 | " | 1,350 " | 6.86 | 16.68 | 919 | 93 | 4.11 | 27 | |
| " | 1001 | 12.93 | " | 1,575 " | 6.86 | 16.73 | 937 | 94 | 4.12 | 20 | |
| " | 1004 | " " | " | 1,800 | 6.86 | 16.73 | 927 | 96 | 4.06 | 18 | |
| " | 1007 | " " | " | 2,025 | 6.87 | 16.80 | 927 | 98 | 4.26 | 18 | |
| " | 1010 | " " | " | 2,250 | 6.87 | 16.85 | 929 | 100 | 4.24 | 14 | |
| " | 1013 | " " | " | 2,475 | 6.88 | 16.86 | 918 | 101 | 4.11 | 13 | |
| " | 1016 | " " | " | 2,700 | 6.88 | 16.87 | 923 | 103 | 4.05 | 12 | |
| " | 1019 | " " | " | 2,925 | 6.89 | 16.90 | 919 | 104 | 4.17 | 12 | |
| Well stabilized and sampled @ 1020 | | | | | | | | | | | |
| 3-18-11 | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: water level stabilized @ 12.93 BTOL

Well stabilized and sampled @ 1020 SMP2 106 GW031811 Total purge vol. 3,000 ml

Water column = 22.28

1 well vol: 3.56 3 well vol: 10.69

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): JGC

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|----------------------------|
| Well No.: P2-108 | Site: SSFL Area IV | |
| Sampler(s): Jason M. Daniel (HGU) | Project No.: EP09038.01-22.04.02 | |
| Sampler(s): Nick Harrel (Blaine Tech.) | Date: 3-17-11 | Time: 1100 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Non dedicated bladder pump |
| Sample ID: SMP2 108 GW031711 | Sample Date: 3-17-11 | Sample Time: 12:52 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 26.13 | DTW (ft): 8.52 | Type of Pump: / |
| Condition of Bottom of Well: soft | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): - | Overcast, light wind NE, app 70° | |
| Well Diameter (in): 26.38" 2" | Placement of Pump (ft) 21.0 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|-------|-----------------------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-17-11 | 12:19 | 8.80 | 50 mL/min | 200 mL | 6.91 | 19.25 | 1,022 | 79 | 3.62 | 0 | |
| " | 12:22 | 8.87 | " | 850 " | 6.88 | 19.24 | 1,022 | 78 | 3.52 | 0 | |
| " | 12:25 | 9.00 | " | 1000 " | 6.87 | 19.20 | 1,025 | 78 | 3.60 | 0 | |
| " | 12:28 | 9.11 | " | 1150 " | 6.88 | 19.13 | 1,035 | 79 | 3.64 | 0 | |
| " | 12:31 | 9.19 | " | 1,300 " | 6.88 | 19.17 | 1,022 | 80 | 3.67 | 0 | |
| " | 12:32 | Well stabilized, collected sample | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes: Well stabilized @ 12:31 collected sample SMP2-108 GW031711 @ 12:32

Total purge = 1,300 mL Max drawdown 0.39'

WC Column: 17.61 x 0.16 = 2.81 l well vol 3 well vol = 8.45

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): JMA

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|--|
| Well No.: <u>PZ-109</u> | Site: <u>SSFL Radiological Study, Area IV</u> | |
| Sampler(s): <u>C. Carmichael</u> | Project No.: <u>EP9038-01-22-04.02</u> | |
| Sampler(s): <u> </u> | Date: <u>3-24-11</u> | Time: <u>1255</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>SP</u> | Type of Pump: <u>Bladder</u> | |
| Sample ID: <u>SMPZ-109-032411</u> | Sample Date: <u>03-24-11</u> | Sample Time: <u>1530</u> |
| Additional Samples (DUP/MSD/Blanks): <u> </u> | Sample Date: <u> </u> | Sample Time: <u> </u> |
| Additional Samples (DUP/MSD/Blanks): <u> </u> | Sample Date: <u> </u> | Sample Time: <u> </u> |
| Additional Samples (DUP/MSD/Blanks): <u> </u> | Sample Date: <u> </u> | Sample Time: <u> </u> |
| Well Depth: <u>36.5' 35.19'</u> | DTW (ft): <u>13.62</u> | Type of Pump: <u>Bladder pump</u> |
| Condition of Bottom of Well: <u> </u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u> </u> | |
| Screen Interval (ft): <u>25'-35'</u> | <u>Overcast, 56'</u> | |
| Well Diameter (in): <u>2"</u> | Placement of Pump (ft): <u>30'</u> | |

1318

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) <small>ml/min</small> | TOTAL VOLUME (GAL) <small>ml</small> | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------------------------|------|---------------------|---------------------------------------|--------------------------------------|------|------------|------------------|-----|-------------|---------------|-----------------------|
| 3-24-11 | 1326 | 13.79 | 75 | 675 | 7.44 | 15.90 | 922 | 45 | 3.75 | 470 | Start purge |
| 3-24-11 | 1329 | 13.84 | 75 | 900 | 7.41 | 16.04 | 1,006 | 43 | 3.08 | 412 | |
| 3-24-11 | 1332 | 13.94 | 75 | 1125 | 7.50 | 16.25 | 1,056 | -20 | 2.61 | 367 | |
| 3-24-11 | 1335 | 13.96 | 50 | 1350 | 7.51 | 16.50 | 1063 | -29 | 2.40 | 353 | |
| 3-24-11 | 1338 | 14.12 | 50 | 1475 | 7.52 | 16.37 | 1074 | -34 | 2.28 | 328 | |
| 3-24-11 | 1341 | 14.23 | 50 | 1575 | 7.53 | 16.30 | 1080 | -36 | 2.25 | 325 | |
| 3-24-11 | 1344 | 14.38 | 50 | 1725 | 7.52 | 16.29 | 1085 | -34 | 2.20 | 320 | Stabilization reached |
| <i>Chelsea Carmichael</i> | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: 1345 - begin sampling.
1405⁰⁰ - finish sampling (filled 8 bottles, no second spare volume because of lack of time)
1605

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

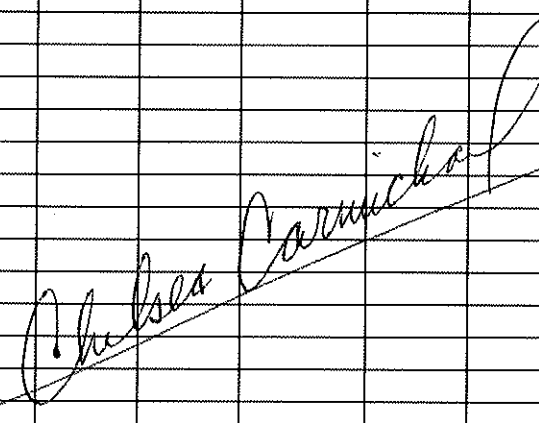
Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: PZ-III | Site: SSFL Radiological Study, Area IV |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 |
| Sampler(s): | Date: 3-30-11 Time: 0745 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: bladder |
| Sample ID: SMPZ-III-GW033011 | Sample Date: 3-31-11 Sample Time: 1100 ^(ca) 0905 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 20.32 | DTW (ft): 12.44 Type of Pump: bladder |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): 7-17.5' | Sunny, 73° |
| Well Diameter (in): 2" | Placement of Pump (ft) 18' |

0822

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-------------------|
| 3-31-11 | 0834 | 19.13 | 50 | 1100 | 7.00 | 19.33 | 1830 | 66 | 3.51 | 235 | Start purge |
| 3-31-11 | 0836 | | | | | | | | | | stop pump |
| 3-31-11 | 0859 | 19.40 | | | | | | | | | pump re-started |
| 3-31-11 | 1132 | 19.40 | 50 | | 7.65 | 21.31 | 927 | 98 | 3.76 | 195 | Sample parameters |
|  | | | | | | | | | | | |

sample collection by

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: _____

Notes: During system purge, the water column dropped from 8 ft to 1 ft, so pump stopped, then sample started to be collected at 0859. Sample complete at 1130. All 9 bottles filled after water column stabilized around ~1 ft.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

| | |
|--|---|
| Well No.: PZ-112 | Site: 55FL RAD SURVEY AREA IV+NBZ EAM Reg. 9 |
| Sampler(s): Timothy Morse | Project No.: FP9038.01.22.04.02 |
| Sampler(s): ED Budano (Blainetech) | Date: 3/18/11 Time: 0800 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: Sample Pro Bladder pump |
| Sample ID: SMPZ-112-61031811 | Sample Date: 3/18/11 Sample Time: 0915 |
| Additional Samples (DUP/MSD/Blanks): SMPINsatc-07-031811 | Sample Date: 3/18/11 Sample Time: 1315 |
| Additional Samples (DUP/MSD/Blanks): SMsource-07-031811 | Sample Date: 3/18/11 Sample Time: 1315 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 37.02 | DTW (ft): 24.07/24.13 (3/18) |
| Condition of Bottom of Well: — | Type of Pump: — |
| Screen Interval (ft): 24-34 | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Sunny/clear ~ 65°F |
| Well Diameter (in): 2 | Placement of Pump (ft): 33 m 29.5 |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|-----------------|------|-------------|------------|-------------------|
| 3/18/11 | 0843 | 24.79 | 100mL | 650 | 6.26 | 17.18 | 0.945 | -160 | 2.75 | 15.0 | |
| | 0844 | 24.87 | 100mL | 750 | 6.26 | 17.38 | 0.944 | -167 | 2.74 | 15.4 | |
| | 0845 | 24.98 | 100mL | 850 | 6.25 | 17.55 | 0.945 | -170 | 2.65 | 15.7 | |
| | 0848 | 25.29 | 100mL | 1150 | 6.25 | 17.67 | 0.940 | -174 | 2.37 | 16.5 | Drawdown (excess) |
| | 0852 | 25.49 | 75mL | 1450 | 6.24 | 17.67 | 0.941 | -180 | 2.44 | 15.7 | Drawdown (excess) |
| | 0856 | 25.69 | 50mL | 1650 | 6.25 | 17.51 | 0.942 | -184 | 2.37 | 16.0 | down to 50mL/min |
| | 0900 | 25.79 | 50mL | 1450 | 6.25 | 17.30 | 0.940 | -186 | 2.27 | 15.9 | = |
| | 0904 | 25.89 | 50mL | 2050 | 6.25 | 17.50 | 0.941 | -185 | 2.21 | 15.9 | = |
| | 0908 | 25.99 | 50mL | 2250 | 6.25 | 17.62 | 0.943 | -188 | 2.22 | 15.8 | = |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Pump placed @ 29.5 ft. (DTW) = 24.13 screen 24-34
 Pump on at 0824 - initial pump line purge = 650 mL
 DTW = 24.65 @ 450 mL
 Pump purge ended @ 0909 samples (0915-1255)

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): ED Budano

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-----------------------|
| Well No.: PZ-113 | Site: SSFL Radiological Study, Area IV | |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): | Date: 3-29-11 | Time: 4500 1200 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: bladder | |
| Sample ID: SMPZ-113-GW032911 | Sample Date: 3-29-11 | Sample Time: 1500 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 17.04 | DTW (ft): 5.09 | Type of Pump: bladder |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 7-15 | Sunny, 69° | |
| Well Diameter (in): 2" | Placement of Pump (ft) 13' | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) (mL/min) | TOTAL VOLUME (GAL) (L) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------|------|---------------------|--------------------------|------------------------|------|------------|------------------|-----|-------------|------------|--------------|
| 3-29-11 | 1211 | 5.09 | 50 | | | | | | | | Start purge |
| 3-29-11 | 1223 | 5.52 | 50 | 600 | 7.04 | 23.76 | 649 | 24 | 2.18 | 1684 | |
| 3-29-11 | 1226 | 5.72 | 50 | 750 | 7.00 | 23.98 | 647 | 23 | 1.47 | 1236 | |
| 3-29-11 | 1229 | 5.90 | 50 | 900 | 6.98 | 24.10 | 627 | 25 | 1.33 | 929 | |
| 3-29-11 | 1232 | 6.05 | 50 | 1050 | 6.98 | 23.92 | 605 | 28 | 1.34 | 720 | |
| 3-29-11 | 1233 | | | | | | | | | | start sample |
| 3-29-11 | 1548 | 12.71 | 50 | | 6.85 | 24.11 | 504 | 94 | 1.31 | 274 | |

Chelsea Carmichael

OBSERVATIONS

Color: (Clear) Other (describe): with brown tint

Odor (circle one): (None) Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Purge started at 1211. Because of lack of recharge, sample collection started at 1233 (before turbidity stabilized). Sample complete at 1542.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *Chelsea Carmichael*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: PZ-114 | Site: SSFL Radiological Study, Area III |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 |
| Sampler(s): | Date: 3-28-11 Time: 1225 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): G | Type of Pump: bladder ^{cc} Bailer |
| Sample ID: SMPZ-114-GW032811 | Sample Date: 3-28-11 Sample Time: 1250 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 50.34 | DTW (ft): 48.87 Type of Pump: bladder ^{cc} Bailer |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): 37-47 | sunny, 64° |
| Well Diameter (in): 2" | Placement of Pump (ft) n/a |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-28-11 | 1247 | 48.87 | n/a | n/a | 7.25 | 18.47 | 1135 | 154 | 6.71 | 190 | ran dry |
| Chelsea Carmichael | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): brown tint

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Only 1.53' of water in well, bailer filled tritium and 1/4 of gamma spec bottle only, then ran dry.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-------------------------------------|
| Well No.: P2-116 | Site: SSFL Area IV | |
| Sampler(s): Jason MSDaniel (HGL) | Project No.: EP9.038.01.22.04.02 | |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-29-11 | Time: 0930 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: low flow | Non-dedicated bladder pump |
| Sample ID: SMP2116GW032911 | Sample Date: 3-29-11 | Sample Time: 1034 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 34.64 or 34.69 | DTW (ft): 19.89 | Type of Pump: non-dedicated bladder |
| Condition of Bottom of Well: sand | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 22-32 btec | Clear, sunny, no wind ~65° | |
| Well Diameter (in): 2.0 | Placement of Pump (ft) 27.0570L | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FD) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------|------|------------------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|------------|----------|
| 3-29-11 | 1014 | 19.88 | 50 mL/min | 700 mL | 6.27 | 18.14 | 2240 | 119 | 3.32 | 17 | |
| " | 1017 | 20.35 | " | 850 | 6.29 | 18.15 | 2250 | 130 | 4.76 | 17 | |
| " | 1020 | 20.43 | " | 1000 | 6.33 | 18.24 | 2250 | 144 | 4.77 | 17 | |
| " | 1023 | 20.43 | " | 1150 | 6.36 | 18.35 | 2250 | 152 | 4.91 | 17 | |
| " | 1026 | 20.54 | " | 1300 | 6.38 | 18.38 | 2250 | 161 | 5.24 | 17 | |
| " | 1029 | 20.61 | " | 1450 | 6.41 | 18.28 | 2250 | 165 | 5.32 | 17 | |
| " | 1032 | 20.68 | " | 1600 | 6.43 | 18.31 | 2240 | 169 | 5.40 | 17 | |
| " | 1033 | Well Stabilized | | | | | | | | | |
| " | 1034 | Sampled well SMP2116GW032911 | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A water column: 14.80

Notes: 1034 Sampled well SMP2116GW032911 (prior to 1)

1 Well Vol: 2.36 3 Well Vol: 7.10 Total purge: 1,600 mL

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H2O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): J.D.

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: <u>PZ-120</u> | Site: <u>SSFL Radiological Study, Area IV</u> |
| Sampler(s): <u>C. Carmichael</u> | Project No.: <u>EP9038.01.22.04.02</u> |
| Sampler(s): <u>---</u> | Date: <u>3-17-11</u> Time: <u>0754</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>B</u> | Type of Pump: <u>Bladder</u> |
| Sample ID: <u>SMPZ-120-GW031711</u> | Sample Date: <u>3-17-11</u> Sample Time: <u>0930</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> Sample Time: <u>/</u> |
| Well Depth: <u>26</u> | DTW (ft): <u>13.44 @</u> Type of Pump: <u>Bladder</u> |
| Condition of Bottom of Well: <u>---</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): <u>15-25'</u> | <u>cloudy, 60°</u> |
| Well Diameter (in): <u>2"</u> | Placement of Pump (ft) <u>25'</u> |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) (ML/MIN) | TOTAL VOLUME (GAL) (ML) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--------------------|-----------------|---------------------|--------------------------|-------------------------|------|------------|------------------|-----|-------------|---------------|-------------|
| 3-17-11 | 0855 | 14.33 | 50 | 850 | 6.94 | 15.10 | 800 | 212 | 2.68 | 20 | Start purge |
| 3-17-11 | 0857 | 14.41 | 50 | 1,050 | 6.96 | 14.87 | 804 | 219 | 2.38 | 16 | |
| 3-17-11 | 0900 | 14.51 | 50 | 1,250 | 6.97 | 14.75 | 806 | 222 | 2.22 | 11 | |
| 3-17-11 | 0905 | 14.64 | 50 | 1,450 | 6.97 | 14.71 | 805 | 223 | 2.11 | 7 | |
| 3-17-11 | 0910 | 14.78 | 50 | 1,650 | 6.97 | 14.56 | 804 | 226 | 2.07 | 8 | |
| 3-17-11 | 0913 | 14.86 | 50 | 1,850 | 6.98 | 14.61 | 804 | 223 | 2.40 | 7 | Stabilized |
| 3-17-11 | 1020 | 16.41 | 50 | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: ---

Notes: Readings stabilized at 0913, sampling began at 0920.
Final DTW: 18.18'

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC). Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|---------------------------|
| Well No.: P2-121 | Site: SJFL Area IV | |
| Sampler(s): Jason M. Daniel (HGL) | Project No.: EP9038.01.22.04.07 | |
| Sampler(s): Nick (Blair Tech) | Date: 3-16-11 | Time: 12:40 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump) | Type of Pump: Grundfos | Non-dedicated submersible |
| Sample ID: SMP2 1216w031611 | Sample Date: 3/16/11 | Sample Time: 1356 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 24.63 | DTW (ft): 18.05 | Type of Pump: Grundfos |
| Condition of Bottom of Well: Soft | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 15-25 | Sunny, clear Wind SE app 10 mph. | |
| Well Diameter (in): 2 | Placement of Pump (ft) 23.0 BTOL | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (N.T.U.) | COMMENTS |
|------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|------------|---------------|----------|
| 3-16-11 | 1339 | 18.10 | 50.0 | 800L | 6.04 | 20.35 | 869 | 221 | 4.59 | 27 | |
| " | 1342 | ↓ | " | 950 | 6.07 | 20.33 | 870 | 222 | 4.47 | 26 | |
| " | 1345 | 18.18 | " | 1100 | 6.10 | 20.37 | 870 | 223 | 4.67 | 22 | |
| " | 1348 | ↓ | " | 1250 | 6.14 | 20.49 | 869 | 221 | 4.87 | 21 | |
| " | 1351 | 18.22 | " | 1400 | 6.16 | 20.48 | 870 | 219 | 4.78 | 20 | |
| " | 1354 | 18.35 | " | 1550 | 6.18 | 20.36 | 872 | 216 | 4.85 | 20 | |
| Well Stabilized @ 1355 | | | | | | | | | | | |
| 3-16-11 | | | | | | | | | | | |

OBSERVATIONS

Color: (Clear) Other (describe):

Odor (circle one): (None) Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Total purge vol. 1600 mL Sample ID SMP2 1216w031611
Sample time 1356

Water Column: 6.58 x 0.16 = 1.05 well vol. 3.15 3 well vol. Total drawdown: 0.25"

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *JM*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|----------------------------|
| Well No.: P2-122 | Site: SSFL Area IV | |
| Sampler(s): Jason M. David (1462) | Project No.: EPA.038.01.22.04.02 | |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-25-11 | Time: 0900 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Bladder | Non-Dedicated Bladder Pump |
| Sample ID: SMP2122GW032511 | Sample Date: 3-25-11 | Sample Time: 0955 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 28.35 | DTW (ft): 9.20 | Type of Pump: Bladder |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 15.5 - 25.5 | M. Cloudy, rain in 55° | |
| Well Diameter (in): 2 | Placement of Pump (ft): 20.0 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB. (NTU) | COMMENTS |
|------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|------------|-------------|----------|
| 3-25-11 | 0938 | 9.22 | 50 mL/min | 1,000 mL | 6.85 | 16.70 | 1,026 | 213 | 3.00 | 13 | |
| " | 0941 | 9.30 | " | 1,150 mL | 6.84 | 16.86 | 1,027 | 215 | 3.16 | 13 | |
| " | 0944 | 9.38 | " | 1,300 mL | 6.84 | 17.10 | 1,028 | 217 | 3.12 | 12 | |
| " | 0947 | 9.45 | " | 1,450 mL | 6.85 | 17.14 | 1,015 | 220 | 3.25 | 11 | |
| " | 0950 | 9.52 | " | 1,600 mL | 6.86 | 17.15 | 1,027 | 223 | 3.26 | 11 | |
| " | 0953 | 9.59 | " | 1,750 mL | 6.87 | 16.94 | 1,020 | 225 | 3.30 | 11 | |
| Well Stabilized @ 0953 | | | | | | | | | | | |
| 3-25-11 | 0955 | Sampled well | | SMP2122GW032511 | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Water column: 19.15 1 well vol: 3.06 gal. 3 well vol: 9.12
 0955 - Sampled well SMP2122GW032511

Total purge: 1,750 mL

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)² (well depth - static H2O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): J.M.D.

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|---------------------------|
| Well No.: P2-124 | Site: SSFL Area II | |
| Sampler(s): Jason MS Daniel (HGL) | Project No.: EP9.038.01.22.04.02 | |
| Sampler(s): Nick Harrel (Bladder Tech) | Date: 3-30-11 | Time: 0805 |
| Sampling Method (G=grab, B=bladder, SP=submersible pump): SP | Type of Pump: bladder | Now dedicated submersible |
| Sample ID: SMP2124GW033011 | Sample Date: 3-30-11 | Sample Time: 0947 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 28.25 | DTW (ft): 24.73 | Type of Pump: bladder |
| Condition of Bottom of Well: Sand | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 14.7 - 24.7 | Sunny, clear ~70" | |
| Well Diameter (in): 2.0 | Placement of Pump (ft) 28.0 BTOL | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|----------------------|--------------------------------|----------------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-30-11 | 0930 | 24.43 | 50 ^{ml/min} | 600 ^{ml} | 6.70 | 16.97 | 2,810 | 191 | 2.32 | 13 | |
| " | 0933 | 24.71 | " | 750" | 6.73 | 16.89 | 2,810 | 177 | 2.15 | 12 | |
| " | 0936 | 24.90 | " | 900" | 6.75 | 16.83 | 2,820 | 164 | 2.36 | 11 | |
| " | 0936 ⁰⁹⁴⁵ | 25.00 | " | 1,050" | 6.80 | 16.77 | 2,800 | 156 | 2.58 | 12 | |
| " | 0939 ⁰⁹⁴⁵ | 25.09 | " | 1,200" | 6.81 | 16.80 | 2,810 | 150 | 2.64 | 12 | |
| " | 0942 ⁰⁹⁴⁵ | 25.12 | " | 1,350" | 6.83 | 16.77 | 2,810 | 148 | 2.70 | 12 | |
| " | 0946 | Well Still Low | | | | | | | | | |
| 3-30-11 | 0947 | Sampled well - SMP2124GW033011 | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Water column: 3.52
Well Sampled @ 0947

Well Vol: 3.52 x 0.16 = 0.56 3 well vol 0.56 x 3 = 1.69 Total Purge 1,350 ml

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *J.D. Daniel*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|---------------------------------------|
| Well No.: PZ-150 | Site: SSFL RAD Survey Area IV+NBZ EPA Reg. 9 | |
| Sampler(s): Timothy Moore | Project No.: EP9058.01.22.04.02 | |
| Sampler(s): ED Budano (BlainTech) | Date: 3/22/11 | Time: 1000 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Sample Pro Bladder pump |
| Sample ID: SMPZ--150-6N032211 | Sample Date: 3/22/11 | Sample Time: 1055 |
| Additional Samples (DUP/MSD/Blanks): SMRinsate-10-EP032211 | Sample Date: 3/22/11 | Sample Time: 1440 |
| Additional Samples (DUP/MSD/Blanks): SMSource-10-66032211 | Sample Date: 3/22/11 | Sample Time: 1440 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 30.28 | DTW (ft): 17.56 | Type of Pump: Sample Pro Bladder Pump |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): — | Partly cloudy, ~65°F, light wind | |
| Well Diameter (in): 4" | Placement of Pump (ft) 27 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|---------------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3/22/11 | 1020 | 17.79 | 50 mL | 800 mL | 7.40 | 16.92 | 1.214 | -170 | 6.00 | 4.5 | |
| | 1024 | 17.85 | 50 mL | 1000 mL | 7.40 | 17.12 | 1.217 | -164 | 6.06 | 4.5 | |
| | 1028 | 17.91 | 50 | 1200 mL | 7.40 | 16.88 | 1.214 | -162 | 5.77 | 4.8 | |
| | 1032 | 17.95 | 50 | 1400 mL | 7.40 | 16.20 | 1.218 | -157 | 5.78 | 4.7 | |
| | 1036 | 18.02 | 50 | 1600 mL | 7.40 | 16.35 | 1.217 | -155 | 5.73 | 5.2 | |
| | 1040 | 18.11 | 50 | 1900 mL | 7.40 | 16.68 | 1.216 | -155 | 5.81 | 4.9 | |
| | 1044 | 18.13 | 50 | 2000 mL | 7.40 | 16.65 | 1.217 | -155 | 5.72 | 5.4 | |
| | 1046 | 18.16 | 50 | 2100 mL | 7.40 | 16.43 | 1.213 | -155 | 5.75 | 4.9 | |
| | 1048 | 18.19 | 50 | 2200 mL | 7.40 | 16.32 | 1.215 | -156 | 5.73 | 4.8 | |
| | 1050 | 18.23 | 50 | 2300 mL | 7.40 | 16.13 | 1.218 | -155 | 5.78 | 5.0 | |
| | 1052 | 18.27 | 50 | 2400 mL | 7.40 | 16.10 | 1.216 | -153 | 5.79 | 5.0 | |
| | | | stabilized readings | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Purge started @ 1004
 1055 - began collecting samples
 - finished collecting samples

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: PZ-151 | Site: SSFL Radiological Study, Area IV |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 |
| Sampler(s): | Date: 3-28-11 Time: 1306 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): B | Type of Pump: Bailer |
| Sample ID: SMPZ-151-GW032811 | Sample Date: 3-28-11 Sample Time: 1325 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 79.85 | DTW (ft): 77.63 Type of Pump: bailer |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): | sunny, 67' |
| Well Diameter (in): 2" | Placement of Pump (ft): |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-28-11 | 1320 | 77.63 | — | — | 6.94 | 22.09 | 1560 | 144 | 2.36 | 138 | ran dry |
| <i>Chelsea Carmichael</i> | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): with slight brown tint

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Only 2.22 ft of water, so hand-bailed until 1337 - filled tritium bottle and 2/3 of gamma spec. bottle, then ran dry.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *Chelsea Carmichael*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: PZ-160 | Site: SSFL RAD SURVEY AREA IV+NBZ EPA Reg. 9 |
| Sampler(s): Timothy Morse | Project No.: EPR038.01.22.04.02 |
| Sampler(s): Ed Bulano | Date: 3/23/11 Time: 1000 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: Sample Pro (MP10) micro purge |
| Sample ID: SMPZ-160-6W032311 | Sample Date: 3/23/11 Sample Time: 1100 |
| Additional Samples (DUP/MSD/Blanks): SM Rinsate-14-E8032311 | Sample Date: 3/23/11 Sample Time: 1420 |
| Additional Samples (DUP/MSD/Blanks): SM Source-14-E8032311 | Sample Date: 3/23/11 Sample Time: 1420 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 29.5' | DTW (ft): 24.26 Type of Pump: Sample Pro |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): — | cloudy, light wind, ~60°F |
| Well Diameter (in): 4" | Placement of Pump (ft) 28' |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|---------------------------------------|
| 3/23/11 | 1034 | 24.47 | 60 mL/min | 840 mL | 6.81 | 17.10 | 1.64 | -150 | 3.04 | 7.7 | LOW FLOW rate, less than 75 mL needed |
| | 1038 | 24.48 | 60 mL | 1080 mL | 6.80 | 17.23 | 1.64 | -151 | 2.91 | 7.7 | |
| | 1042 | 24.53 | 60 | 1320 mL | 6.80 | 17.37 | 1.64 | -151 | 2.83 | 7.9 | |
| | 1046 | 24.57 | 60 | 1560 mL | 6.80 | 17.36 | 1.63 | -152 | 2.69 | 7.6 | |
| | 1050 | 24.60 | 60 | 1800 mL | 6.80 | 17.36 | 1.63 | -154 | 2.74 | 7.5 | Stabilized parameters |
| T/A | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Start time - 1020
840 mL pumped to purge tubing/flow-thru

Equipment Blank collected on Sample Pro micro purge pump

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|--------------------------------|
| Well No.: AD-13 | Site: SFLC RAD AREA SURVEY II + UBZ EPA Reg. 2 | |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Ed Bland (Plantech) | Date: 3/28/11 | Time: 1340 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: dedicated submersible | |
| Sample ID: SMRD-13-6W032911 | Sample Date: 3/29/11 | Sample Time: 0910 |
| Additional Samples (DUP/MSD/Blanks): SMRD-13-6W032911Q | Sample Date: 3/29/11 | Sample Time: 0910 |
| Additional Samples (DUP/MSD/Blanks): SMRD-13-6W032911MS | Sample Date: 3/29/11 | Sample Time: 0910 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 160 | DTW (ft): 64.00 | Type of Pump: ded. submersible |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny, light wind, ~70°F | |
| Well Diameter (in): 8.25 | Placement of Pump (ft): 150 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|-------------|------------|------------------|------|-------------|---------------|-------------------------|
| 3/28/11 | 1408 | 75.65 | 8 gpm | 24 | 7.15 | 19.17 | 0.675 | -265 | 0.57 | 2.2 | |
| | 1412 | 82.25 | 8 | 56 | 7.16 | 19.30 | 0.677 | -248 | 0.54 | 1.9 | |
| | 1416 | 90.32 | 8 | 88 | 7.17 | 19.38 | 0.670 | -244 | 0.49 | 2.4 | |
| | 1420 | 96.80 | 8 | 120 | 7.16 | 19.40 | 0.679 | -240 | 0.45 | 2.6 | |
| | 1424 | 103.48 | 8 | 152 | 7.17 | 19.44 | 0.678 | -238 | 0.43 | 2.6 | |
| | 1428 | 110.23 | 8 | 184 | 7.16 | 19.45 | 0.679 | -239 | 0.40 | 3.0 | |
| | 1432 | 113.62 | 8 | 216 | 7.17 | 19.44 | 0.681 | -238 | 0.38 | 2.5 | |
| | 1436 | 118.65 | 8 | 248 | 7.17 | 19.48 | 0.674 | -238 | 0.37 | 2.8 | |
| | 1440 | 122.27 | 8 | 280 | 7.17 | 19.49 | 0.684 | -239 | 0.35 | 2.7 | |
| | 1444 | 126.43 | 8 | 312 | 7.16 | 19.51 | 0.679 | -238 | 0.34 | 3.6 | |
| | 1448 | 130.23 | 8 | 344 | 7.17 | 19.54 | 0.681 | -237 | 0.34 | 3.4 | |
| | 1452 | 137.43 | 8 | 376 | 7.17 | 19.55 | 0.685 | -234 | 0.36 | 3.5 | |
| | 1458 | 138.58 | 6 gpm | 402 | 7.18 | 19.54 | 0.687 | -227 | 0.46 | 4.1 | |
| | 1504 | 142.49 | 6 gpm | 438 | 7.19 | 19.64 | 0.701 | -197 | 0.43 | 4.0 | |
| | 1508 | 140.90 | 6 gpm | 474 | 7.27 | 19.69 | 0.711 | -157 | 3.17 | 3.6 | Full to capacity unload |
| | 1559 | 115.44 | 6 gpm | 483 | 7.25 | 19.43 | 0.714 | -152 | 3.60 | 3.4 | |
| | 1603 | 121.30 | 6 gpm | 510 | 7.16 | 19.53 | 0.729 | -202 | 0.79 | 2.9 | |
| | 1607 | 126.46 | 6 gpm | 534 | 7.15 | 19.59 | 0.729 | -214 | 0.56 | 3.1 | |
| | 1611 | 129.75 | 6 gpm | 558 | 7.15 | 19.61 | 0.731 | -214 | 0.53 | 3.4 | |
| | | | | | 3RV reached | | | | | | |
| 3/29/11 | 0908 | 70.28 | — | — | 7.12 | 19.34 | 0.723 | -224 | 0.57 | 3.4 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: pump on @ 1405
 Tanks full @ 1509 → unload @ Building 4011
 pump back on @ 1555 TA
 pump off @ 1612 ~ 554 gals.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

PI+P2
LAB+MS

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|---|-----------------------|
| Well No.: RD-14 | Site: SSFL RAD survey Area IV + NBZ EPA Reg 9 | |
| Sampler(s): Timothy Morse | Project No.: ER038.01.22.04.02 | |
| Sampler(s): ED Boland | Date: 3/21/11 | Time: 1310 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | dedicated submersible |
| Sample ID: SMRD-14-0W032111 | Sample Date: 3/21/11 | Sample Time: 1545 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 125 | DTW (ft): 82.47 | Type of Pump: — |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): partly cloudy, light wind, ~70°F | |
| Screen Interval (ft): open hole | Placement of Pump (ft) 117 | |
| Well Diameter (in): 4.25 | | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|-------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-------|-------------|---------------|----------|
| 3/21/11 | 1334 | 88.49 | 5 gpm | 25 gal | 7.33 | 19.80 | 0.861 | -245 | 0.14 | 12.0 | |
| | 1339 | 91.70 | 5 gpm | 50 | 7.12 | 20.04 | 0.892 | -271 | 0.09 | 13.0 | |
| | 1344 | 95.56 | 5 | 75 | 7.14 | 20.17 | 0.903 | -265 | 0.08 | 10.3 | |
| | 1349 | 98.10 | 5 | 100 | 7.11 | 20.24 | 0.895 | -269 | 0.07 | 9.7 | |
| | 1354 | 100.28 | 5 | 125 | 7.10 | 20.22 | 0.884 | -269 | 0.06 | 8.8 | |
| | 1359 | 101.34 | 5 | 150 | 7.08 | 20.31 | 0.877 | -265 | 0.05 | 8.1 | |
| | 1404 | 104.77 | 5 | 175 | 7.07 | 20.34 | 0.886 | -263 | 0.05 | 6.7 | |
| | 1409 | 105.87 | 4 | 125 | 7.06 | 20.35 | 0.882 | -259 | 0.06 | 7.2 | |
| | 1414 | 106.24 | 4 | 215 | 7.06 | 20.34 | 0.884 | -258 | 0.07 | 8.8 | |
| | ✓ | 1416 | 106.11 | 4 | 223 | 7.05 | 20.37 | 0.907 | -257 | 0.06 | 10.8 |
| 3 PV reached stop Purge | | | | | | | | | | | |
| 3/21/11 | 1540 | 90.1 | — | — | 7.05 | 20.25 | 0.947 | -232 | 0.14 | 9.1 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Start time - 1329, end purge @ 1416 (purged 223 gal + retrieved 3 pv).
 Sample time 1545 - 1548
 3 PV = ~ 220 gal 80% ~ 91.0 ft

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s):

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-15 | Site: SSFL Radiological Study, Area IV |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 |
| Sampler(s): | Date: 3-29-11 ^{CO} Time: 0755 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: dedicated submersible |
| Sample ID: SMRD-15-GW032911 | Sample Date: 3-29-11 Sample Time: 1015 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 152.0 | DTW (ft): 43.13' Type of Pump: dedicated submersible |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): open hole | clear, sunny, 62° |
| Well Diameter (in): 8.25 | Placement of Pump (ft): |

0759

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|---|
| 3-29-11 | 0759 | 43.13 | 4 | | | | | | | | Start purge |
| 3-29-11 | 0814 | 56.93 | 4 | 60 | 7.13 | 19.85 | 819 | -147 | 0.69 | 110 | |
| 3-29-11 | 0829 | 66.69 | 4 | 120 | 7.14 | 19.92 | 821 | -141 | 0.37 | 125 | |
| 3-29-11 | 0844 | 72.10 | 4 | 180 | 7.15 | 19.89 | 826 | -147 | 0.28 | 111 | |
| 3-29-11 | 0859 | 76.52 | 4.5 | 242.5 | 7.15 | 20.25 | 818 | -143 | 0.31 | 111 | |
| 3-29-11 | 0914 | 78.84 | 3 | 292.5 | 7.14 | 20.41 | 824 | -142 | 0.26 | 112 | |
| 3-29-11 | 0929 | 80.82 | 3 | 322.5 | 7.13 | 20.48 | 821 | -144 | 0.19 | 123 | |
| 3-29-11 | 0944 | 81.89 | 3 | 367.5 | 7.13 | 20.44 | 815 | -139 | 0.20 | 119 | Pumping stopped to off-load (370.5 gal) |
| 3-29-11 | 1032 | 73.05 | 3 | 412.5 | 7.14 | 20.65 | 817 | -115 | 0.34 | 114 | |
| 3-29-11 | 1047 | 77.78 | 3 | 457.5 | 7.13 | 20.79 | 820 | -118 | 0.30 | 120 | |
| 3-29-11 | 1102 | 81.40 | 3 | 502.5 | 7.13 | 20.84 | 825 | -120 | 0.25 | 108 | |
| 3-29-11 | 1107 | 81.92 | 3 | 517.5 | 7.13 | 20.93 | 822 | -121 | 0.23 | 110 | |
| 3-29-11 | 1112 | 82.52 | 3 | 532.5 | 7.14 | 21.00 | 820 | -122 | 0.24 | 109 | Stabilized |
| 3-29-11 | 1113 | Start | Sampling | | | | | | | | |

232.5
277.5

Chelsa Carmichael

OBSERVATIONS

Color: Clear Other (describe): at ~400 gallons, the water turned brownish

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: 3 well volumes: 532 gal, Start purge at 0759, readings taken every 15 minutes until 3 well volumes purged, then sampled after stable. Stop pumping to off-load at 0945. Return to well at 1014 and start pumping at 1017. Readings stable at 1112 (532.5 gal). Sampling started still 1113, complete at 1121.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *Chelsa Carmichael*

| | |
|---|---|
| Well No.: RD-16 | Site: DDFL Radiological Survey Area IV/US2 (EPA Region 9) |
| Sampler(s): Stephanie Lapczyn Mastrose (HGC) | Project No.: EP9038.01.22.04.02 |
| Sampler(s): NCSA Manual (Stein Tech) | Date: 4/19/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Submersible pump (vac truck) |
| Sample ID: SARD-16-GW042011 | Sample Date: 4/20/11 |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — |
| Well Depth: 220 | DTW (ft): 41.20 |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Sunny / partly cloudy, light breeze from North (in 70°F) |
| Screen Interval (ft): open hole | Placement of Pump (ft): — |
| Well Diameter (in): 6 1/2 in | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM MS/2m) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------------|------|-------------|---------------|--|
| 4/19/11 | 1338 | 41.20 | 5.5 | — | 7.17 | 19.99 | 0.770 | -164 | 4.82 | 6.7 | start purge |
| 4/19/11 | 1350 | — | 5.0 | 106 | 7.22 | 20.20 | 0.770 | -145 | 3.21 | 8.4 | |
| 4/19/11 | 1405 | 125.51 | 4.5 | 164 | 7.14 | 20.02 | 0.769 | -131 | 2.53 | 7.5 | |
| 4/19/11 | 1420 | 137.40 | 4.0 | 216 | 7.20 | 20.70 | 0.776 | -90 | 1.77 | 5.0 | |
| 4/19/11 | 1435 | — | 4.0 | 284 | 7.13 | 20.74 | 0.801 | -170 | 0.56 | 7.1 | |
| 4/19/11 | 1450 | 166.20 | 3.5 | 335 | 7.14 | 20.12 | 0.804 | -176 | 0.41 | 6.8 | |
| 4/19/11 | 1505 | 171.42 | 3.0 | 389 | 7.15 | 21.30 | 0.810 | -176 | 0.33 | 6.6 | |
| 4/19/11 | 1520 | — | 3.0 | 436.5 | 7.18 | 20.53 | 0.809 | -182 | 0.34 | 8.3 | DTW meter stuck on something inside well casing - unable to collect DTW. |
| 4/19/11 | 1535 | — | 3.0 | 480.5 | 7.11 | 20.73 | 0.816 | -174 | 0.29 | 4.9 | ↓ |
| 4/19/11 | 1550 | — | 3.0 | 519 | 7.15 | 20.98 | 0.819 | -167 | 0.28 | 5.2 | ↓ |
| 4/19/11 | 1605 | — | 3.0 | 569 | 7.17 | 20.43 | 0.823 | -164 | 0.30 | 4.9 | ↓ |
| | | | | | | | | | | | stopped purge for the day. |
| 4/20/11 | 0742 | 41.33 | 5.5 | 569 | 6.91 | 17.12 | 0.856 | -44 | 1.92 | 11.1 | started purge |
| 4/20/11 | 0800 | 108.70 | 5.0 | 668 | 7.05 | 15.96 | 0.859 | -126 | 1.34 | 9.6 | |
| 4/20/11 | 0815 | — | 4.5 | 735 | 7.13 | 14.92 | 0.859 | -133 | 1.08 | 8.8 | DTW meter stuck - unable to collect DTW |
| 4/20/11 | 0830 | — | 4.0 | 816 | 7.08 | 14.34 | 0.847 | -127 | 0.86 | 8.8 | |
| 4/20/11 | 0845 | — | 3.75 | 868 | 7.09 | 19.36 | 0.833 | -143 | 0.32 | 12.9 | |
| 4/20/11 | 0900 | — | 3.50 | 926 | 7.12 | 18.79 | 0.844 | -147 | 0.29 | 13.6 | end purge |
| 4/20/11 | 1440 | 42.20 | — | — | — | — | — | — | — | — | sample & recharged |

OBSERVATIONS

Color: (Clear) Other (describe):

Odor (circle one): (None) Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes:

Flowmeter start: 10594 / End: 106430

Stopped purging at 1605 (out of time for the day) - will continue tomorrow.

4/20/11 continued purge 1607 → let recharge → sampled at 1440

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-17 | Site: SJFL Area IV |
| Sampler(s): Jason McDaniel (H66) | Project No.: EPA 038.01.22.04.02 |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-24-11 (3-25-11) Time: 0945 (0945) |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Electric Dedicated Submersible |
| Sample ID: SMRD176W032511 | Sample Date: 3-25-11 Sample Time: 0800 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Well Depth: 125.0 | DTW (ft): 25.50 (31.80) Type of Pump: ded. submersible |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): — | Overcast, no wind @ 55° |
| Well Diameter (in): Open Hole | Placement of Pump (ft) — |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-24-11 | 10:13 | N/A | 5 | 114 | 6.80 | 12.75 | 878 | 122 | 0.65 | 9 | |
| " | 10:32 | N/A | 3.5 | 174 | 6.87 | 14.22 | 801 | 100 | 0.50 | 15 | |
| " | 10:53 | N/A | 3.5 | 242 | 6.91 | 13.23 | 799 | 95 | 0.59 | 16 | |
| " | 11:12 | N/A | 3.5 | 314 | 6.90 | 14.13 | 787 | 99 | 0.94 | 20 | |
| " | 11:32 | N/A | 3.5 | 387 | 6.90 | 12.54 | 801 | 120 | 1.95 | 22 | |
| " | 11:52 | N/A | 3.5 | 461 | 6.82 | 18.05 | 791 | 132 | 3.73 | 33 | |
| " | 12:03 | N/A | 3.5 | 477 | 6.90 | 17.11 | 783 | 137 | 5.17 | 36 | |
| Well ran dry @ 12:03. Will return on 3-25 to collect sample | | | | | | | | | | | |
| 3-25-11 | 0950 | 31.80 | 252.0 | 6 gal | 6.80 | 18.40 | 813 | 205 | 3.73 | 20 | |

OBSERVATIONS

| |
|--|
| Color: <input checked="" type="radio"/> Clear <input type="radio"/> Other (describe): |
| Odor (circle one): <input checked="" type="radio"/> None <input type="radio"/> Low <input type="radio"/> Medium <input type="radio"/> High <input type="radio"/> Very strong <input type="radio"/> H2S <input type="radio"/> Fuel-like |
| PID reading: N/A Well ran dry @ 12:03 will return on 3-25 to collect sample |
| Notes: Water Column: 99.50 Sampled SMRD176W032511 @ 0800 on 3/25 |
| Beginning totalizer: 283,426 End totalizer: 283,903 |
| 10:12 unable to get DTW due to probe sticking. |
| 1 Well Vol: 120.01 3 Well vol: 510.04 Total Purge: 477 gal |
| PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"] |
| Signed/Sampler(s): JPM |

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|----------------------------------|
| Well No.: RD-18 | Site: SSFL RAD SURVEY Area V4 NRZ EPA Act 9. | |
| Sampler(s): Timothy Moore | Project No.: E99038, 01, 22, 04, 02 | |
| Sampler(s): ED BWARD (Blainetech) | Date: 3/21/11 | Time: 0950 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | dedicated submersible |
| Sample ID: SMAD-18-6W032211 | Sample Date: 3/22/11 | Sample Time: 0830 |
| Additional Samples (DUP/MSD/Blanks): SMRD-18-6W032211G | Sample Date: 3/22/11 | Sample Time: 0830 |
| Additional Samples (DUP/MSD/Blanks): SMAD-18-6W032211A | Sample Date: 3/22/11 | Sample Time: 0830 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 240 | DTW (ft): 91.52 | Type of Pump: dedicated submers. |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | overcast, drizzly rain ~55°F | |
| Well Diameter (in): 8.25 | Placement of Pump (ft): 231 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|----------|-------------|---------------|----------|
| 3/21/11 | 1017 | 137.01 | 5 | 50 | 7.40 | 18.87 | 0.567 | -123 | 1.49 | 3.1 | |
| | 1027 | 137.01 | 5 | 100 | 7.42 | 19.00 | 0.567 | -133 | 1.36 | 3.4 | |
| | 1037 | 156.02 | 5 | 150 | 7.42 | 19.17 | 0.561 | -135 | 1.35 | 3.7 | |
| | 1047 | 171.53 | 5 | 200 | 7.42 | 19.24 | 0.558 | -138 | 1.35 | 3.5 | |
| | 1057 | 187.89 | 5 | 250 | 7.43 | 19.36 | 0.565 | -140 | 1.34 | 3.1 | |
| | 1107 | 200.00 | 5 | 300 | 7.43 | 19.48 | 0.565 | -140 | 1.35 | 3.5 | |
| | 1117 | 213.18 | 5 | 350 | 7.43 | 19.61 | 0.563 | -135 | 1.36 | 3.7 | |
| | 1127 | 222.00 | 4 gpm | 390 | 7.43 | 19.70 | 0.567 | -137 | 1.36 | 3.7 | |
| | 1137 | 231.00 | 4 | 430 | 7.43 | 19.89 | 0.564 | -135 | 1.42 | 5.4 | |
| | 1139 | | 4 | 438 | | | | pump dry | | | |
| 3/22/11 | 0815 | 208.21 | 5 gpm | - | 7.35 | 18.50 | 0.573 | -116 | 5.30 | 3.8 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Will return to sample on 3/22/11, pump dry @ 438 gal (1139)

* (MS + Lab dupe taken)

* note: in well pump wire housing is damaged *

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): AM

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: RD-19 | Site: SSFL RAD Survey Area IV |
| Sampler(s): Timothy Morse (HGL) | Project No.: EPA08.01.22.04.02 |
| Sampler(s): ED Budano (Blainetech) | Date: 3/16/11 Time: 1340 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: submersible Dedicated Submersible |
| Sample ID: SMRD-19-6W031711 | Sample Date: 3/17/11 Sample Time: 1230 |
| Additional Samples (DUP/MSD/Blanks) (SMDUP-01- | Sample Date: 3/17/11 Sample Time: — |
| Additional Samples (DUP/MSD/Blanks): 6W031711Q | Sample Date: — Sample Time: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — Sample Time: — |
| Well Depth: 135 ft | DTW (ft): 74.10 Type of Pump: Dedicated Submersible |
| Condition of Bottom of Well: NA (PUMP) | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): open hole | Sunny, Hot ~95°F Light wind |
| Well Diameter (in): 8.25 | Placement of Pump (ft) |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3/16/11 | 1415 | 84.36 | 4 gpm | 12 | 6.57 | 19.28 | 1.57 | -349 | 0.45 | 4.3 | |
| | 1418 | 87.37 | 4 gpm | 24 | 6.55 | 19.45 | 1.57 | -361 | 0.21 | 4.1 | |
| | 1420 | 90.92 | 4 gpm | 32 | 6.55 | 19.57 | 1.57 | -371 | 0.17 | 4.3 | |
| | 1422 | 94.43 | 4 gpm | 40 | 6.56 | 19.64 | 1.57 | -378 | 0.16 | 3.9 | |
| | 1424 | 97.63 | 4 gpm | 48 | 6.56 | 19.70 | 1.57 | -381 | 0.15 | 3.9 | |
| | 1426 | 101.96 | 4 gpm | 56 | 6.57 | 19.75 | 1.57 | -380 | 0.17 | 3.9 | |
| | 1428 | 103.92 | 4 gpm | 64 | 6.57 | 19.76 | 1.56 | -379 | 0.19 | 3.8 | |
| | 1430 | 106.28 | 4 gpm | 72 | 6.57 | 19.76 | 1.57 | -375 | 0.19 | 4.2 | |
| | 1432 | 108.92 | 4 gpm | 80 | 6.57 | 19.80 | 1.57 | -369 | 0.18 | 4.7 | |
| | 1434 | 111.60 | 4 gpm | 88 | 6.57 | 19.81 | 1.56 | -354 | 0.18 | 4.9 | |
| | 1436 | 115.14 | 4 gpm | 96 | 6.57 | 19.83 | 1.56 | -317 | 0.20 | 5.5 | |
| | 1438 | 117.56 | 4 gpm | 104 | 6.57 | 19.86 | 1.56 | -286 | 0.23 | 5.9 | |
| | 1440 | 120.39 | 4 gpm | 112 | 6.57 | 19.86 | 1.56 | -252 | 0.30 | 5.5 | |
| | 1442 | 123.27 | 4 gpm | 120 | 6.54 | 19.86 | 1.55 | -203 | 0.62 | 7.7 | |
| | 1444 | dewatered well | | | | | | | | | |
| 3/17/11 | 1222 | 77.44 | 4 gpm | — | 6.65 | 19.03 | 1.59 | -255 | 0.25 | 6.0 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: —

Notes: *SMRD-19-6W031711 (1230) *SMRD-19-6W031711Q
 SMDUP-19-TM
 SMDUP-01-6W031711-TM
 SMDUP-01-6W031711-Q

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|--------------------------------|
| Well No.: RD-20 | Site: SSFL Area IV | |
| Sampler(s): Jason McDaniel (HGL) | Project No.: EP9.038.01.22.04.02 | |
| Sampler(s): Nick Howell (Blower Tech) | Date: 3-21-11 (3-22-11) | Time: 1445 (0750) |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Electric | Dedicated submersible |
| Sample ID: SM RD 20 GWO32211 | Sample Date: 3-22-11 | Sample Time: 0800 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 127.00 | DTW (ft): 41.93(49.55) | Type of Pump: ded. submersible |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): — | A. Cloudy, light drizzle, light wind W, app 60° | |
| Well Diameter (in): Open Hole | Placement of Pump (ft) — | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|-----------------------------------|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-21-11 | 15:05 | 61.56 | 6.5 | 63 | 7.11 | 20.93 | 1560 | -13 | 3.32 | 0 | |
| " | 15:15 | 69.05 | 6.5 | 126 | 7.08 | 20.24 | 1500 | -8 | 1.80 | 0 | |
| " | 15:25 | 78.72 | 6.5 | 176 | 7.07 | 20.40 | 1480 | -5 | 1.17 | 0 | |
| " | 15:35 | 83.20 | 5.5 | 240 | 7.07 | 20.05 | 1480 | -31 | 0.82 | 0 | |
| " | 15:45 | 86.41 | 5.5 | 315 | 7.09 | 19.50 | 1460 | -24 | 0.58 | 0 | |
| " | 15:55 | NA | 5.5 | 370 | 7.10 | 19.14 | 1470 | -18 | 0.51 | 0 | |
| " | 16:05 | NA | 5.5 | 440 | 7.10 | 20.56 | 1436 | -15 | 0.36 | 0 | |
| Purged 3 well volume 1606 | | | | | | | | | | | |
| 3-22-11 | 0800 | 49.35 | 6.5 | 4 | 6.66 | 17.99 | 1427 | 220 | 6.20 | 0 | |
| Collected sample SMRD 20 GWO32211 | | | | | | | | | | | |
| 3-22-11 | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Beginning totalizer readings: 278957 End totalizer readings: 279940
 15:55 unable to get DTW due to probe sticking in well. Total Purge: 440 gal
 16:06: reached 3 well volume. will return on 3-22 to collect sample
 1 Well Vol.: 146.23 3 Well Vol.: 438.69

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): JPM

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|----------------------------|
| Well No.: RD-21 (Port 4) FLUTE | Site: SSFL RAD SURVEY AREA IV + NBZ | |
| Sampler(s): Timothy Morse | Project No.: EP9058.01.22.04.02 | |
| Sampler(s): Ben (D.L. HALL) | Date: 3/31/11 | Time: 0845 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | FLUTE well |
| Sample ID: SMRD-21-GW04011 | Sample Date: 4/1/11 | Sample Time: 1200 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: Port 4 | DTW (ft): --- | Type of Pump: FLUTE |
| Condition of Bottom of Well: --- | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny, warm ~ 75°F, mod. wind | |
| Well Diameter (in): 8.25 | Placement of Pump (ft) --- (Port 2) at first (Port 4) after | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------------------------------|
| 3/31/11 | 0855 | --- | --- | 1.0 gal | 6.98 | 22.35 | 0.811 | -371 | 1.27 | 9.3 | Port 4 |
| | 1045 | --- | --- | 0.5 gal | 7.05 | 20.50 | 0.837 | -266 | 2.35 | 5.1 | |
| | 1220 | --- | --- | <0.5 gal | 7.33 | 23.81 | 0.892 | -278 | 1.84 | 28.7 | Line Blew |
| 4/1/11 | 0800 | --- | --- | 0.5 gal | 7.14 | 19.19 | 0.774 | -363 | 1.82 | 29.7 | Port 2 (2nd attempt) |
| | 1005 | --- | --- | 0.5 gal | 7.15 | 21.68 | 0.779 | -271 | 1.45 | 22.6 | |
| | 1200 | --- | --- | 0.25 | | | | | | | start sample collection |
| | 1300 | --- | --- | 0.5 | | | | | | | |
| | 1400 | --- | --- | 0.25 | | | | | | | |
| | 1530 | --- | --- | 0.25 | | | | | | | Samples finished being collected |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: **(Port 2) - worked very slowly ~ 0.75 gal purge**
(Port 4) used, 1220 (Port 4) Line Blew, abandon purge on Port 4
(4/1/11) Port 2 tried again

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

| | | |
|--|--|---------------------|
| Well No.: RD-22 FLUTE | Site: SSFL RAD survey area #4NBZ | |
| Sampler(s): Timothy Moore | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Ben (B.L. Hall) | Date: 3/31/11 | Time: 0930 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | FLUTE |
| Sample ID: SMAD-22-6W033111 | Sample Date: 3/31/11 | Sample Time: 1420 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: Port 2 | DTW (ft): - | Type of Pump: FLUTE |
| Condition of Bottom of Well: - | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny hwm, ~ 75° F, mod wind | |
| Well Diameter (in): 3.25 | Placement of Pump (ft) Port 2 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|-----------------|
| 3/31/11 | 0945 | - | - | 1.5 gal | 7.09 | 20.69 | 1.118 | -326 | 1.30 | 11.0 | |
| | 1120 | - | - | 1.5 gal | 7.41 | 20.92 | 1.136 | -284 | 1.66 | 38.6 | |
| | 1310 | - | - | 1.5 gal | 7.49 | 22.91 | 1.145 | -330 | 0.99 | 55.8 | |
| | 1420 | - | - | ~1.25 | - | - | - | - | - | - | |
| | 1505 | - | - | ~1.0 gal | - | - | - | - | - | - | |
| | 1600 | - | - | ~2.6 | - | - | - | - | - | - | Sample complete |
| | 1630 | - | - | - | - | - | - | - | - | - | |
| 3-31-11 | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Port 2

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): *[Signature]*

| | |
|--|---|
| Well No.: RD-23 FLUTE | Site: SSFL RAD SURVEY AREA IV + NBZ |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 |
| Sampler(s): Ben (BL HALL) | Date: 4/1/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Time: 0730 |
| Sample ID: SMRI-23-6W030111 | Type of Pump: FLUTE |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: 4/1/11 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Time: 1230 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Well Depth: Port 3 | Sample Time: / |
| Condition of Bottom of Well: — | DTW (ft): — |
| Screen Interval (ft): open hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Sunny, light wind, ~40°F |
| Well Diameter (in): 8.25 | Placement of Pump (ft): Port 3 |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------------------------------|
| 4/1/11 | 0730 | — | — | 0.75 | — | — | — | — | — | — | Port 3 |
| | 0925 | — | — | 0.75 | 7.72 | 19.97 | 0.605 | -356 | 1.61 | 36.4 | |
| | 1100 | — | — | 0.5 | 7.36 | 22.12 | 0.664 | -357 | 2.53 | 14.8 | |
| | 1230 | — | — | 0.5 | — | — | — | — | — | — | |
| | 1330 | — | — | 0.5 | — | — | — | — | — | — | |
| | 1445 | — | — | 0.5 | — | — | — | — | — | — | |
| | 1545 | — | — | 1.5L | — | — | — | — | — | — | Samples finished being collected |
| _____ | | | | | | | | | | | |

OBSERVATIONS

Color: Clea Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: port 3

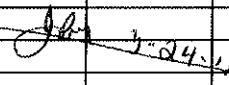
PURGE VOLUME CALCULATIONS For: well casing volume = J (Re)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|--------------------------------|
| Well No.: RD-24 | Site: SSPL Area II | |
| Sampler(s): Jason M. David (HGL) | Project No.: LP9038.01.22.04.02 | |
| Sampler(s): Nick Hamel (Blow Tech) | Date: 3-24-11 | Time: 12:20 |
| Sampling Method (G=grab, B=bailey, SP=submersible pump): SP | Type of Pump: Electric | Dedicated submersible |
| Sample ID: SMRD 24 GW 032411 | Sample Date: 3-24-11 | Sample Time: 1600 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 150.0 | DTW (ft): 36.42 | Type of Pump: ded. submersible |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): — | P. Cloudy no wind ~ 60° | |
| Well Diameter (in): Open Hole | Placement of Pump (ft) — | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---|------|---------------------|-----------------|----------------------|------|------------|------------------|-----|-------------|------------|----------|
| 3-24-11 | 1350 | 69.45 | 4 | 85 | 7.53 | 19.24 | 306 | 163 | 4.59 | 30 | |
| " | 1310 | 88.53 | 2 | 118 | 7.23 | 16.50 | 255 | 165 | 3.69 | 12 | |
| " | 1330 | 98.45 | 3 | 182 | 7.16 | 19.10 | 403 | 151 | 2.37 | 9 | |
| " | 1350 | 104.50 | 2 | 222 ⁹⁴² | 7.14 | 19.76 | 471 | 135 | 1.36 | 10 | |
| " | 1410 | 107.73 | 2 | 262 ³⁰⁴ | 7.13 | 18.67 | 517 | 130 | 0.86 | 22 | |
| " | 1430 | 111.14 | 3 | 363 | 7.09 | 18.93 | 544 | 135 | 0.75 | 6 | |
| " | 1450 | 114.29 | 3 | 423 | 7.07 | 19.55 | 568 | 111 | 0.69 | 7 | |
| " | 1510 | 116.25 | 3 | 483 | 7.13 | 18.88 | 598 | 111 | 0.70 | 9 | |
| " | 1530 | — | 3 | 545 | 7.09 | 17.93 | 620 | 122 | 0.71 | 9 | |
| " | 1550 | — | 3 | 605 | 7.07 | 18.39 | 637 | 129 | 0.77 | 8 | |
| " | 1553 | — | 3 | 614 | 7.10 | 16.09 | 650 | 130 | 0.78 | 8 | |
| " | 1556 | — | 3 | 623 | 7.02 | 16.23 | 657 | 130 | 0.77 | 8 | |
| Well stabilized @ 1556 | | | | | | | | | | | |
| " | 1600 | Sampled well | | ID SMRD 24 GW 032411 | | | | | | | |
|  | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Beginning totalizer: 283,902 End totalizer reading: 1400. Totalizer began sticking, flow rate determined by measuring 5 gal. bucket.

1 well vol: 193.32 3 well vol: 579.95 Total Purge: 623 gal

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): Jason M. David

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: RD-27 | Site: SSFC RAD SURVEY AREA IV+NBZ EPA Reg 9 |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 |
| Sampler(s): ED Budano (Bluintech) | Date: 3/17/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Time: 0835 |
| Sample ID: SAR-D-27-6NO31711 | Type of Pump: Delicate Submersible |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: 3/17/11 |
| Additional Samples (DUP/MSD/Blanks): | Sample Time: 1510 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: |
| Well Depth: 150 | Sample Time: |
| Condition of Bottom of Well: — | Sample Date: |
| Screen Interval (ft): open hole | DTW (ft): 50.37 |
| Well Diameter (in): 8.25 | Type of Pump: — |
| | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| | Overcast, Light wind, ~60°F |
| | Placement of Pump (ft): 138 |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | pH | TEMP. (C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB. (NTU) | COMMENTS |
|---------|------|---------------------|--------------------------------------|--------------------|------|-----------|------------------|------|-------------|-------------|----------------------------------|
| 3/17/11 | 0844 | | 6 gpm | 0 | 7.26 | 16.61 | 0.555 | -238 | 7.81 | 28.6 | |
| | 0846 | | Pump disconnected, repair connection | | | | | | | | |
| | 0848 | 59.44 | 6 gpm | 16 | 6.88 | 18.85 | 0.619 | -308 | 0.75 | 80.0 | |
| | 0852 | 62.47 | 6 | 32 | 7.17 | 19.04 | 0.611 | -308 | 0.42 | 42.0 | |
| | 0856 | 69.44 | 6 | 48 | 7.01 | 19.14 | 0.617 | -315 | 0.23 | 20.5 | |
| | 0900 | 75.16 | 6 | 64 | 7.32 | 19.23 | 0.611 | -322 | 0.34 | 15.4 | |
| | 0904 | 81.20 | 6 | 80 | 7.02 | 19.30 | 0.617 | -325 | 0.24 | 11.6 | |
| | 0910 | 88.76 | 6 | 104 | 7.14 | 19.38 | 0.619 | -331 | 0.13 | 9.4 | |
| | 0915 | | well stopped | | | | | | | | downwater, possible pump problem |
| | 0920 | | Pump back on | | | | | | | | (overheated) |
| | 0926 | 94.93 | 6 gpm | 170 | 7.06 | 19.39 | 0.611 | -338 | 0.15 | 13.3 | |
| | 0932 | 100.91 | 6 gpm | 206 | 7.11 | 19.40 | 0.617 | -338 | 0.19 | 11.5 | |
| | 0938 | 104.81 | 6 | 248 | 7.33 | 19.47 | 0.617 | -328 | 0.21 | 10.0 | |
| | 0944 | 108.87 | 6 | 278 | 7.23 | 19.49 | 0.612 | -317 | 0.23 | 13.5 | |
| | 0950 | 112.58 | 6 | 314 | 7.10 | 19.53 | 0.619 | -315 | 0.20 | 21.8 | |
| | 0956 | 115.57 | 6 | 350 | 7.22 | 19.56 | 0.619 | -304 | 0.23 | 23.8 | |
| | 1002 | 118.75 | 6 | 386 | 7.22 | 19.57 | 0.611 | -302 | 0.25 | 28.6 | |
| | 1008 | 121.98 | 6 | 422 | 7.17 | 19.58 | 0.613 | -311 | 0.27 | 20.1 | |
| | 1014 | 21.18 | 6 | 458 | 7.37 | 19.54 | 0.614 | -310 | 0.34 | 29.0 | |
| | | | STOP Purge to unland water | | | | | | | | |
| | 1127 | | Restart Purge | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: 0846 - flow thru tubing became disconnected, minimal amount of water lost, restart
 0848 - restart Purge
 0915 - pump stopped working - 0920 pump back on (overheated)
 1015 - stopped purge @ 458 gpm to unland tanks @ Building 4011

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|---------------------------------------|
| Well No.: RD-27 | Site: SSFL RAD Survey Area IV + NBZ EPA Rq 7 | |
| Sampler(s): Timothy Morse | Project No.: F99058.01.22.04.02 | |
| Sampler(s): ED Budano (Blantech) | Date: 3/17/11 | Time: 0835 |
| Sampling Method (G=grab, B=bailer SP=submersible pump): | Type of Pump: | Deliated submersible |
| Sample ID: SMRD-27-GW031711 | Sample Date: 3/17/11 | Sample Time: 1510 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 150 | DTW (ft): 50.37 | Type of Pump: ATM deliated |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Overcast, light wind, ~60° | |
| Well Diameter (in): 8.25 | Placement of Pump (ft): 138 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|-------|---------------------|-----------------|--------------------|-------|------------|------------------|------|-------------|---------------|----------|
| 3/17/11 | 11:33 | 97.75 | 6 gpm | 494 | 7.30 | 19.23 | 0.621 | -366 | 0.16 | 11.5 | |
| | 11:36 | 100.72 | 6 | 512 | 7.41 | 19.34 | 0.617 | -352 | 0.17 | 8.4 | |
| | 11:39 | 103.03 | 6 | 530 | 7.40 | 19.40 | 0.621 | -339 | 0.23 | 11.4 | |
| | 11:40 | END | Purge | 3 PV | taken | | | | | | |
| 3/17/11 | 1505 | 64.72 | - | 530 | 7.21 | 19.54 | 0.625 | -262 | 0.88 | 12.3 | |
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OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: SMRD-27-GW031711 (Priority 1)

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-------------------------|
| Well No.: RD-29 | Site: SSFL Area IV Radiological Study | |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): | Date: 3-24-11 | Time: 1030 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: dedicated submersible | |
| Sample ID: SMRD-29-GW032511 | Sample Date: 3-25-11 | Sample Time: 0915 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 100 | DTW (ft): 9.10' | Type of Pump: dedicated |
| Condition of Bottom of Well: / | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): Open hole | Overcast/rainy, 61 | |
| Well Diameter (in): 8.25" | Placement of Pump (ft): | |

1040

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|------------------------|
| 3-24-11 | 1043 | 15.34' | 7 | 21 | 7.13 | 21.62 | 874 | 90 | 3.98 | 97.3 | Start purge |
| 3-24-11 | 1046 | 18.60 | 7 | 42 | 6.93 | 21.39 | 877 | -52 | 1.64 | 104 | |
| 3-24-11 | 1050 | 23.38 | 7 | 70 | 7.14 | 21.34 | 876 | -47 | 1.16 | 124 | |
| 3-24-11 | 1053 | 27.05 | 7 | 91 | 7.13 | 21.33 | 877 | -84 | 1.74 | 129 | |
| 3-24-11 | 1056 | 30.02 | 7 | 112 | 7.14 | 21.31 | 880 | -72 | 1.77 | 196 | |
| 3-24-11 | 1059 | 34.24 | 7 | 133 | 7.18 | 21.14 | 879 | -37 | 1.94 | 208 | |
| 3-24-11 | 1102 | 38.63 | 7 | 154 | 7.18 | 21.31 | 879 | -22 | 2.35 | 1605 | |
| 3-24-11 | 1105 | 43.54 | 7 | 175 | 7.18 | 21.54 | 877 | -6 | 2.75 | 228 | |
| 3-24-11 | 1108 | 46.63 | 7 | 196 | 7.17 | 21.24 | 881 | -3 | 1.97 | 135 | |
| 3-24-11 | 1111 | 50.41 | 6 | 214 | 7.17 | 21.12 | 876 | 0 | 1.92 | 104 | |
| 3-24-11 | 1114 | 53.31 | 6 | 232 | 7.18 | 21.47 | 882 | 1 | 1.93 | 95 | |
| 3-24-11 | 1117 | 56.81 | 6 | 250 | 7.15 | 20.93 | 884 | -9 | 1.59 | 90 | |
| 3-24-11 | 1120 | 59.93 | 6 | 268 | 7.15 | 21.25 | 878 | -13 | 1.99 | 89 | |
| 3-24-11 | 1123 | 63.35 | 6 | 286 | 7.15 | 21.13 | 875 | -18 | 1.97 | 89.6 | |
| 3-24-11 | 1126 | 65.70 | 6 | 304 | 7.13 | 21.14 | 882 | -18 | 1.84 | 103 | |
| 3-24-11 | 1129 | 69.30 | 6 | 322 | 7.13 | 21.26 | 877 | -17 | 1.98 | 82.2 | |
| 3-24-11 | 1132 | 72.01 | 5 | 337 | 7.13 | 21.42 | 878 | -17 | 1.99 | 87.8 | |
| 3-24-11 | 1135 | 74.14 | 5 | 352 | 7.09 | 21.43 | 876 | -18 | 1.67 | 82.3 | |
| 3-24-11 | 1138 | 77.35 | 5 | 367 | 7.19 | 21.39 | 882 | 1 | 3.29 | 118 | |
| 3-24-11 | 1141 | 79.83 | 5 | 382 | 7.20 | 21.37 | 878 | 1 | 3.96 | 114 | |
| 3-24-11 | 1144 | 81.42 | 5 | 397 | 7.24 | 21.43 | 877 | 4 | 3.98 | 138 | Purge water off-loaded |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Purged dry at until 3 well volumes: 469 gallons at 1234
Truck taken to offload purge water at 1145.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|--|
| Well No.: <u>RD-29</u> | Site: <u>SSFL Radiological Study, Area IV</u> | |
| Sampler(s): <u>C. Carmichael</u> | Project No.: <u>EP9038.01.22.07293</u> | |
| Sampler(s): <u> </u> | Date: <u>3-24-11</u> | Time: <u>1020^{ea} (cont.)</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>SP</u> | Type of Pump: <u>Dedicated</u> | |
| Sample ID: <u>SMRD-29-GW032511</u> | Sample Date: <u>3-25-11</u> | Sample Time: <u>0915</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Well Depth: <u>100</u> | DTW (ft): <u>59.50</u> | Type of Pump: <u>dedicated</u> |
| Condition of Bottom of Well: <u> </u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u> </u> | |
| Screen Interval (ft): <u>open hole</u> | <u>overcast, 54"</u> | |
| Well Diameter (in): <u>8.25"</u> | Placement of Pump (ft) <u>~90'</u> | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (N.T.U.) | COMMENTS |
|---|--------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|
| <u>3-24-11</u> | <u>1225</u> | <u>59.50</u> | <u>6</u> | <u>415</u> | <u>7.42</u> | <u>20.70</u> | <u>877</u> | <u>62</u> | <u>5.36</u> | <u>105</u> | |
| <u>3-24-11</u> | <u>1228</u> | <u>66.15</u> | <u>6</u> | <u>433</u> | <u>7.38</u> | <u>21.24</u> | <u>879</u> | <u>59</u> | <u>5.42</u> | <u>919</u> | |
| <u>3-24-11</u> | <u>1231</u> | <u>69.13</u> | <u>6</u> | <u>451</u> | <u>7.37</u> | <u>21.42</u> | <u>880</u> | <u>54</u> | <u>5.76</u> | <u>82.5</u> | |
| <u>3-24-11</u> | <u>1234</u> | <u>71.93</u> | <u>6</u> | <u>469</u> | <u>7.34</u> | <u>21.36</u> | <u>875</u> | <u>54</u> | <u>5.68</u> | <u>98.1</u> | |
| <u>end</u> | <u>purge</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>3 WV kit</u> |
| <u>3-25-11</u> | <u>0902</u> | <u>8.98</u> | <u>3</u> | <u>6</u> | <u>7.22</u> | <u>20.24</u> | <u>876</u> | <u>143</u> | <u>5.41</u> | <u>106</u> | <u>Sample</u> |
| <i>Chelsea Carmichael</i> <u>3-25-11</u> | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Continue purge at 1225.
Sample at 0915 - filled all 22 priority 1 & 2 bottles.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

| | | |
|--|--|----------------------------|
| Well No.: RD-33a Flute | Site: SSFL RAD SURVEY AREA IV + NBZ | |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Ben (Ab Hall) | Date: 3/31/11 | Time: 0955 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Flute |
| Sample ID: SMAD-33A-6W033111 | Sample Date: 3/31/11 | Sample Time: 1440 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: Port 2 | DTW (ft): — | Type of Pump: FLUTE |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny, warm ~ 75°F, no wind | |
| Well Diameter (in): 8.25 | Placement of Pump (ft) Port 2 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|------------|-------------------------------|
| 3/31/11 | 1005 | — | — | ~0.75 gal | 7.12 | 21.08 | 0.542 | -227 | 1.71 | 9.1 | |
| | 1135 | — | — | ~0.75 gal | 7.60 | 20.24 | 0.504 | -279 | 2.80 | 4.3 | |
| | 1335 | — | — | 1.0 gal | 7.57 | 21.43 | 0.537 | -296 | 3.04 | 5.0 | |
| | 1440 | — | — | ~0.75 | | | | | | | |
| | 1620 | — | — | ~1.0 | | | | | | | |
| | 1610 | — | — | ~0.75 | | | | | | | Sample complete TM |
| 3/31/11 | 1630 | — | — | ~1.2 | | | | | | | Sample complete |

OBSERVATIONS

Color: **Clear** Other (describe):

Odor (circle one): **None** Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: **Port 2**

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: RD-33B | Site: SSFL Area IV |
| Sampler(s): Jason McDaniel (HGL) | Project No.: 299.038.01.22.04.02 |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-21-11 (3-22-11) Time: 1520 (0920) |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: Electric Dedicated Submersible |
| Sample ID: SMRD 33B GW032211 | Sample Date: 3-22-11 Sample Time: 0950 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Well Depth: 415.00 | DTW (ft): 282.00 (309.00) Type of Pump: ded. submersible |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): — | P. Cloudy light wind west ~ 60° |
| Well Diameter (in): Open Hole | Placement of Pump (ft): — |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|----------------------|-------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 13-21-11 | 13:43 | N/A | 5.0 | 47 | 7.36 | 19.09 | 689 | -159 | 3.41 | 0 | |
| " | 13:53 | " | 4.25 | 89 | 7.33 | 19.10 | 688 | -167 | 2.27 | 0 | |
| " | 14:03 | " | 4.0 | 119 | 7.48 | 19.54 | 679 | -201 | 1.05 | 0 | |
| " | 14:11 | " | 3.0 | 137 | 7.47 | 19.33 | 650 | -191 | 0.71 | 0 | |
| Well no. dry @ 14:11 | | | | | | 17.80 | | | | | |
| 3-22-11 | 0950 | 301.45 | 3.0 | 6 | 6.90 | 17.03 | 753 | -99 | 6.16 | 0 | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Initial totalizer readings: 278820 Final totalizer: 278957 Total purge: 137 gal
 Unable to get DTW - probe sticking to side of well
 14:11 - well ran dry. Will return within 24 hours to sample.
 One well vol: 213.01 Three well vol: 639.03

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): JPM MD

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-33C | Site: SSFL Area IV |
| Sampler(s): Jason M. Daniel (466) | Project No.: EP9.038 - 01.22.04.02 |
| Sampler(s): Nick Hanel (Bladder Tech) | Date: 3-21-11 (3-22-11) Time: 0845 (0835) |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Electric No. 11 Dedicatd Submersible |
| Sample ID: SMRD 33C GW 032211 | Sample Date: 3-22-11 Sample Time: 0855 |
| Additional Samples (DUP/MSD/Blanks): SM DVP026W032211 Q | Sample Date: 3-22-11 Sample Time: 0900 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Well Depth: 520.0 | DTW (ft): 282.54 (286.54) Type of Pump: ded. submersible |
| Condition of Bottom of Well: - | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): - | Overcast with drizzle, no wind, app. 60° |
| Well Diameter (in): Open Hole | Placement of Pump (ft) N/A |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3-21-11 | 1028 | N/A | 4 | 171 | 6.31 | 20.05 | 652 | -73 | 3.35 | 32 | |
| " | 1048 | N/A | 7.25 | 303 | 6.94 | 19.94 | 656 | -101 | 0.72 | 0 | |
| " | 1108 | N/A | 7.50 | 451 | 7.08 | 18.51 | 647 | -105 | 0.29 | 0 | |
| " | 1128 | N/A | 7.50 | 608 | 7.08 | 19.33 | 660 | -100 | 0.48 | 0 | |
| " | 1148 | N/A | 7.50 | 758 | 7.11 | 20.34 | 671 | -100 | 0.12 | 0 | |
| " | 1208 | N/A | 7.50 | 865 | 7.15 | 20.44 | 668 | -103 | 0.09 | 0 | |
| " | 1228 | N/A | 7.0 | 1005 | 7.17 | 20.43 | 664 | -104 | 0.08 | 0 | |
| " | 1248 | N/A | 7.0 | 1195 | 7.19 | 20.41 | 671 | -103 | 0.08 | 0 | |
| Completed 3 well volume @ 13:00 | | | | | | | | | | | JPM |
| 3-22-11 | 0855 | 286.54 | 9 | 54 | 6.84 | 14.66 | 690 | -161 | 3.27 | 17 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Beginning totalizer reading: 277620 End totalizer reading: 278815
 1030 - Unable to get DTW (probe sticking) Total purge: 1,195 gal
 1300 - Completed 3 well volume. Will allow 80% recharge for sample.
 1 well vol: 378.08 3 well vol: 1134.04 3-22-11 DTW: 286.54

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): JPM

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|--------------------------------|
| Well No.: RD-39A | Site: SSFL Area III | |
| Sampler(s): Jason McDaniel (HGL) | Project No.: LP9.038-01.22.04.02 | |
| Sampler(s): Nick Havel (Blower Tech) | Date: 3-22-11 | Time: 1535 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Electric | Dedicated Submersible |
| Sample ID: SMRD 39A GW032311 | Sample Date: 3-23-11 | Sample Time: 1540 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 60.00 | DTW (ft): 31.87 | Type of Pump: ded. submersible |
| Condition of Bottom of Well: --- | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): --- | Clear no wind app 65° | |
| Well Diameter (in): Open Hole | Placement of Pump (ft) --- | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB. (N.T.U.) | COMMENTS |
|---------------------|------|------------------------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|----------------|----------|
| 3-22-11 | 1548 | 31.87 | 5.0 | 10 | 6.68 | 17.66 | 777 | 28 | 4.20 | 0 | |
| " | 1553 | 46.32 | 5.0 | 20 | 6.58 | 17.53 | 491 | 50 | 5.14 | 6 | |
| " | 1555 | 54.90 | 5.0 | 30 | 6.50 | 17.25 | 469 | 55 | 5.54 | 12 | |
| " | 1557 | 56.56 | 5.0 | 47 | 6.51 | 16.64 | 456 | 62 | 5.44 | 14.3 | |
| Well ran dry @ 1557 | | | | | | | | | | | |
| 3-23-11 | 1540 | 30.75 | 5.0 | 8 | 6.45 | 15.74 | 1128 | 155 | 1.44 | 2 | |
| " | 1540 | Collected sample SMRD 39A GW032311 | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: w/A

Notes: Initial totalizer: 281,680 End totalizer reading: 281,727
 Well ran dry @ 1557
 Returned 3:23 to sample well SMRD 39A GW032311 @ 1540
 1 Well Vol: 44.60 3 Well Vol: 133.80 Total purge: 47 gal

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): JPH

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|-----------------------|
| Well No.: RD 34 B | Site: SFL Area IV | |
| Sampler(s): Jason McDaniel (HGL) | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Nick Havel (Blowline Tech) | Date: 3-17-11 | Time: 0750 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | Dedicated Submersible |
| Sample ID: N/A | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 240 | DTW (ft): 38.10 | Type of Pump: |
| Condition of Bottom of Well: NA | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): | Overcast, no wind ~ 60° | |
| Well Diameter (in): Open Hole | Placement of Pump (ft) N/A | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|------------|----------|
| 3-17-11 | 0817 | — | 4.5 | 55 | 6.63 | 18.33 | 683 | -109 | 1.88 | 0 | |
| " | 0832 | 109.50 | 3.5 | 104 | 6.87 | 17.45 | 710 | -128 | 0.79 | 0 | |
| " | 0847 | N/A | 3.0 | 153 | 6.88 | 17.01 | 736 | -119 | 0.39 | 0 | |
| " | 0902 | N/A | 2.5 | 194 | 6.85 | 17.42 | 762 | -112 | 0.29 | 0 | |
| " | 0917 | N/A | 2.5 | 230 | 6.81 | 16.90 | 791 | -101 | 0.26 | 0 | |
| " | 0932 | N/A | 2.0 | 265 | 6.77 | 16.71 | 815 | -92 | 0.24 | 0 | |
| " | 0947 | N/A | 2.0 | 296 | 6.75 | 16.59 | 839 | -83 | 0.21 | 0 | |
| " | 1002 | N/A | 2.0 | 340 | 6.73 | 16.71 | 851 | -75 | 0.21 | 0 | |
| Well Dry @ 1005 will return on 3-18 to sample | | | | | | | | | | | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Done 3-17-11 </div> | | | | | | | | | | | |

OBSERVATIONS

Color: Clear (Other (describe): light blue)

Odor (circle one): (None) Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Beginning totalizer reading: 245017 Ending reading: 245356
 0834 - unable to collect further DTW due to probe sticking on side of well.
 Stopped purge @ 1005 (well dry) will return on 3-18 to sample
 1 Well Vol: 320.89 3 Well Vol: 962.66 Total purge: 360 gallons

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): JPM

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-34B | Site: SSFL Area 10 |
| Sampler(s): Jason M. Dawid (HGL) | Project No.: EPA.038.01.22.04.02 |
| Sampler(s): Nich Harrel (Blow-By Tech) | Date: 3-18-11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Time: 0730 |
| Sample ID: SMRD 34B GW051811 | Type of Pump: Dedicated |
| Additional Samples (DUP/MSD/Blanks): / | Submersible |
| Sample Date: / | Sample Date: 3-18-11 |
| Sample Time: / | Sample Time: 0815 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Time: / |
| Well Depth: 240 | DTW (ft): 39.33 |
| Condition of Bottom of Well: — | Type of Pump: — |
| Screen Interval (ft): — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): Open Hole | clear, no wind approx 50° |
| | Placement of Pump (ft) dedicated |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|------------------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-18-11 | 0811 | 39.33 | 4.5 | — | 6.90 | 14.95 | 892 | -37 | 1.55 | 0 | |
| Collected sample SMRD 34B GW051811 | | | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Sample ID SMRD 34B GW051811

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *J.M. Dawid*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: RD 37C | Site: SDFL Area IV |
| Sampler(s): Jason M. Daniel (HGL) | Project No.: EP9.038.01.22.04.02 |
| Sampler(s): Mick Harrel (Blaine Truck) | Date: 3-22-11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: Electric |
| Sample ID: SMRD 37C GW032211 | Sample Date: 3-22-11 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Well Depth: 450.00 | DTW (ft): 10.02 |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): — | Clear, no wind or 65° |
| Well Diameter (in): Open Hole | Placement of Pump (ft) — |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB. (NTU) | COMMENTS |
|---|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|-------------|----------|
| 3-22-11 | 1110 | 59.92 | 10.75 | 301 | 7.34 | 18.20 | 548 | -213 | 0.85 | 0 | |
| " | 1140 | 65.97 | 9.5 | 569 | 7.16 | 17.70 | 553 | -151 | 0.33 | 0 | |
| " | 1210 | 69.61 | 8.5 | 826 | 7.14 | 19.23 | 555 | -135 | 0.15 | 0 | |
| " | 1240 | 72.90 | 8.5 | 1,065 | 7.14 | 19.56 | 554 | -129 | 0.11 | 0 | |
| " | 1310 | 75.15 | 8.5 | 1,305 | 7.15 | 19.43 | 553 | -128 | 0.09 | 0 | |
| " | 1340 | 76.94 | 8.5 | 1,534 | 7.17 | 19.43 | 554 | -125 | 0.08 | 0 | |
| " | 1410 | 78.75 | 8.5 | 1,764 | 7.18 | 19.35 | 551 | -126 | 0.09 | 0 | |
| " | 1440 | 80.24 | 8.5 | 1,984 | 7.20 | 19.51 | 551 | -129 | 0.07 | 0 | |
| " | 1510 | 79.00 | 8.5 | 2,201 | 7.21 | 19.84 | 554 | -130 | 0.08 | 0 | |
| Reached 3 well volumes. Allowed to recharge 19 minutes then sampled | | | | | | | | | | | |
| Area 3-22-11 | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A 279,467

Notes: Initial totalizer reading: 279,467 End totalizer reading: 281,680
 Allowed to recharge 20 minutes recharged to 59.79 ftoc Total purge: 2,220 gal
 Water Col: 439.98
 1 Well Vol: 701 gal 3 well vol: 2103 gal

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): J. Daniel

| | | |
|--|--|---------------------------------|
| Well No.: RD-50 FLUTE | Site: SSFL RAD SURVEY AREA TX+MBZ | |
| Sampler(s): Timothy Morse | Project No.: E99038.01.22.04.02 | |
| Sampler(s): Ben (BL Hand) | Date: 3/31/11 | Time: 0800 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: FLUTE | |
| Sample ID: SMRD-50-6W03311 | Sample Date: 3/31/11 | Sample Time: 1400 (partial set) |
| Additional Samples (DUP/MSD/Blanks): SMRD-50-6W04011 | Sample Date: 4/1/11 | Sample Time: 0850 (partial set) |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: Port 2 | DTW (ft): - | Type of Pump: FLUTE |
| Condition of Bottom of Well: - | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny, warm ~75°F, mod wind | |
| Well Diameter (in): 8.25 | Placement of Pump (ft): Port 2 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|-----------|-----------------|------|-------------|---------------|-------------------|
| 3/31/11 | 0800 | - | - | 2L | - | - | - | - | - | - | Port 2 |
| | 1035 | - | - | 0.5 gal | 7.36 | 19.28 | 0.732 | -282 | 3.70 | 6.3 | |
| | 1205 | - | - | 0.5 gal | 7.37 | 20.26 | 0.735 | -271 | 2.66 | 2.7 | |
| | 1400 | - | - | 0.5 gal | - | - | - | - | - | - | |
| | 1455 | - | - | 0.5 gal | - | - | - | - | - | - | |
| | 1555 | - | - | 0.5 gal | - | - | - | - | - | - | |
| 4/1/11 | 0850 | - | - | 2L | - | - | - | - | - | - | |
| | 1025 | - | - | 2L | - | - | - | - | - | - | Sampling complete |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: port 2

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): *[Signature]*

| | | |
|--|--|---------------------|
| Well No.: RD-54A FLUTE | Site: SSFL RAD SURVEY AREA T4+NBZ | |
| Sampler(s): Timothy Mose | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Ben (BL HAW) | Date: 4/1/11 | Time: 0815 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | FLUTE |
| Sample ID: SMRD-54A-6W040111 | Sample Date: 4/1/11 | Sample Time: 1245 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: Port 2 | DTW (ft): - | Type of Pump: FLUTE |
| Condition of Bottom of Well: - | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny, no wind, ~80°F | |
| Well Diameter (in): 12.125 | Placement of Pump (ft) Port 2 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--------|------|---------------------|-----------------|--------------------|------|-----------|------------------|------|-------------|---------------|-----------------|
| 4/1/11 | 0825 | - | - | 1.25 | 7.16 | 19.47 | 0.725 | -331 | 1.93 | 8.3 | Port 2 |
| | 0935 | - | - | 1.25 | 7.61 | 21.82 | 0.717 | -224 | 1.03 | 18.1 | |
| | 1110 | - | - | 0.75 | 7.34 | 23.62 | 0.722 | -290 | 1.94 | 11.6 | |
| | 1245 | - | - | 1.0 gal | | | | | | | |
| | 1400 | - | - | 1.0 gal | | | | | | | |
| | 1505 | - | - | 2 L | | | | | | | sample complete |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Port 2

PURGE VOLUME CALCULATIONS For: well casing volume = J (Re)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|---------------------------------------|
| Well No.: <u>GD-54B</u> | Site: <u>SSFL Area IV</u> | |
| Sampler(s): <u>Josiah M^s Daniel (HGL)</u> | Project No.: <u>EP9.038.01.22.04.02</u> | |
| Sampler(s): <u>Nick Harrel (Blaine Tech)</u> | Date: <u>3-23-11</u> | Time: <u>11:50</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>SP</u> | Type of Pump: <u>Electric</u> | <u>Dedicated Submersible</u> |
| Sample ID: <u>SMAD 54B GW032411</u> | Sample Date: <u>3-24-11</u> | Sample Time: <u>0910</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Well Depth: <u>437.0</u> | DTW (ft): <u>346.74</u> | Type of Pump: <u>ded. Submersible</u> |
| Condition of Bottom of Well: <u>---</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): <u>---</u> | <u>Cloudy, no wind ~ 55°</u> | |
| Well Diameter (in): <u>Open Hole</u> | Placement of Pump (ft) <u>---</u> | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (N.T.U.) | COMMENTS |
|------------------|------|--|-----------------|--------------------|------|------------|------------------|------|------------|---------------|----------|
| 3-23-11 | 1220 | 330.90 | 4.5 | 91 | 7.53 | 12.48 | 923 | -156 | 0.70 | 22 | |
| " | 1240 | 378.35 | 4.0 | 165 | 7.16 | 17.25 | 998 | -190 | 0.59 | 29 | |
| " | 1300 | 417.47 | 1.5 | 225 | 7.24 | 20.72 | 833 | -269 | 0.28 | 122 | |
| " | 1500 | Well ran dry will return on 3-24-11 to collect sample. | | | | | | | | | |
| 3-24-11 | 0825 | 329.70 | NA | NA | NA | NA | NA | NA | NA | NA | |
| " | 0905 | 329.70 | 4.5 | 3 | 7.21 | 16.88 | 857 | -169 | 1.46 | 20 | |
| _____ | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): _____

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A 8-2-0A 3-24-11 Collected sample SMAD54B GW032411

Notes: Initial totalizer: 282,000 and totalizer readings: 282,225

1 Well Vol = 268.0 3 Well Vol = 803.99 Water Column = 190.66 Total purge: 225

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Josiah M^s Daniel

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: RD-54C | Site: SIFL Area IV |
| Sampler(s): Jason M ^s Daniel (HGL) | Project No.: ERD-EP9,038,01,22,04,02 |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-23-11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: Electric Dedicated Submersible |
| Sample ID: SMRD 54C GW052411 | Sample Date: 3-24-11 3-24-11 |
| Additional Samples (DUP/MSD/Blank): SMRD 54C GW052411 | Sample Date: 3-24-11 3-24-11 |
| Additional Samples (DUP/MSD/Blank): SMRD 54C GW052411 | Sample Date: 3-24-11 3-24-11 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: |
| Well Depth: 638.0 | DTW (ft): 228.02 |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): — | M. Cloudy, light wind (W), ~ 50° |
| Well Diameter (in): Open Hole | Placement of Pump (ft) — |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|--|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3-23-11 | 0922 | 307.38 | 5.5 | 103 | 6.75 | 17.83 | 708 | -97 | 1.28 | 28 | |
| " | 0942 | 376.28 | 5.0 | 188 | 7.86 | 13.76 | 687 | -139 | 0.79 | 27 | |
| " | 1002 | 435.18 | 4.0 | 260 | 7.96 | 17.49 | 694 | -246 | 0.39 | 27 | |
| " | 1022 | NA | 2.5 | 310 | 7.95 | 16.45 | 712 | -204 | 0.32 | 21 | |
| " | 1042 | NA | 2.5 | 362 | 7.83 | 17.36 | 708 | -265 | 0.24 | 28 | |
| " | 1102 | NA | 2.0 | 402 | 7.85 | 19.52 | 705 | -284 | 0.21 | 37 | |
| " | 1122 | NA | 2.0 | 443 | 7.91 | 18.10 | 711 | -301 | 0.21 | 38 | |
| " | 1142 | NA | 1.5 | 473 | 7.87 | 21.01 | 713 | -321 | 0.25 | 40 | |
| " | 1143 | Well ran dry will return on 3-24-11 collect sample | | | | | | | | | |
| 3-24-11 | 0800 | 461.64 | 5.52 | NA | NA | NA | NA | NA | NA | NA | |
| " | 0830 | 461.64 | 2.0 | 5 | 8.76 | 14.24 | 686 | -117 | 1.01 | 44 | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): |
| Odor (circle one): <u>None</u> Low Medium High Very strong H2S Fuel-like |
| PID reading: N/A Sample ID SMRD 54C GW052411 @ 0830 on 3-24-11 |
| Notes: Beginning totalizer: 281,727 End totalizer: 282,000 |
| 10:10 flow meter totalizer begin striking however, flow continued @ 2.0 gpm |
| 10:22 water level dropped below sounding probe reach + 500 ft. Total Purge = 473 gal. |
| 1 Well Vol = 653.53 3 Well Vol = 1960.59 Water Column = 409.98 |
| PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"] |
| Signed/Sampler(s): <u>J Daniel</u> |

| | |
|---|---|
| Well No.: RD-56A | Site: SSFL Area #1/NSE Radiological Survey (EPA Region 9) |
| Sampler(s): Nicholas Hylton (Blaine Tech) | Project No.: EP9038.01.02.04.02 |
| Sampler(s): Stephanie Lepore Montrose (H&E) | Date: 4/19/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Submersible pump |
| Sample ID: SMRD-56A-@w042011 | Sample Date: 4/20/11 |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — |
| Well Depth: 397.5 | DTW (ft): 297.10 |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): P Cloudy Slight Breeze |
| Screen Interval (ft): Open Hole | Placement of Pump (ft): — |
| Well Diameter (in): 12.25 (12.125) @ | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|-------------|
| 4/19/11 | 1225 | — | — | — | — | — | — | — | — | — | Start Purge |
| 4/19/11 | 1230 | 312.60 | 4.5 | 23 | 7.42 | 19.48 | 1161 | -126 | 7.91 | 11 | |
| 4/19/11 | 1235 | — | 4.5 | 48 | 7.08 | 19.64 | 1159 | -116 | 5.40 | 10 | |
| 4/19/11 | 1246 | — | 4.5 | 71 | 7.04 | 20.05 | 1160 | -117 | 4.31 | 8 | |
| 4/19/11 | 1245 | — | 4.0 | 91 | 7.06 | 19.90 | 1158 | -108 | 4.25 | 9 | |
| 4/19/11 | 1250 | — | 4.0 | 115 | 7.06 | 19.76 | 1158 | -114 | 3.73 | 8 | |
| 4/19/11 | 1255 | — | 4.0 | 136 | 7.03 | 20.33 | 1159 | -109 | 3.71 | 10 | |
| 4/19/11 | 1300 | — | 4.0 | 155 | 7.03 | 20.64 | 1155 | -110 | 3.00 | 13 | |
| 4/19/11 | 1303 | — | Well Purged | dry | dry | 16.1 | gnl | — | — | — | |
| | | | | | | | | | | | |
| 4/20/11 | 1205 | 325.21 | — | — | 7.12 | 17.91 | 1133 | -69 | 2.91 | 4.4 | Sample |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes: well purged dry on 4/19/11
well sampled on 4/20/11

Flow Meter Serial = 105342

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

| | | |
|--|--|--|
| Well No.: <u>AD-56 B</u> | Site: <u>SSFC Radiological Survey Area IV/NO2 (EPA Region 9)</u> | |
| Sampler(s): <u>Stephanie Lepeque Montross (H&E)</u> | Project No.: <u>EP9038, 01.22.04.02</u> | |
| Sampler(s): <u>Nick Hamel (Blair Tech)</u> | Date: <u>4/20/11</u> | Time: <u>0922</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>SP</u> | Type of Pump: <u>Submersible (vac truck)</u> | |
| Sample ID: <u>SMAO-56B-GW 042011</u> | Sample Date: <u>4/20/11</u> | Sample Time: <u>1410</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Well Depth: <u>463</u> | DTW (ft): <u>168.64</u> | Type of Pump: <u>Submersible (vac truck)</u> |
| Condition of Bottom of Well: <u>---</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): <u>open hole</u> | <u>overcast, cool (68°F)</u> | |
| Well Diameter (in): <u>16</u> | Placement of Pump (ft) <u>---</u> | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) <small>µS/cm</small> | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|-----------------|---------------------|-----------------|--------------------|------|------------|---------------------------------------|------|-------------|---------------|--------------------------|
| 4/20/11 | 0937 | 168.64 | 17 | --- | 7.72 | 16.16 | 0.563 | -91 | 6.32 | 56.5 | Start purge |
| 4/20/11 | 0955 | 178.20 | 17 | 353 | 7.43 | 18.33 | 0.673 | -254 | 0.55 | 11.7 | |
| 4/20/11 | 1010 | 180.30 | 17 | 623 | 7.35 | 18.01 | 0.732 | -178 | 0.29 | 21.1 | |
| 4/20/11 | 1025 | 180.78 | 17 | 806 | 7.20 | 17.91 | 0.735 | -166 | 0.23 | 12.2 | |
| 4/20/11 | 1040 | 180.60 | 17 | 1,079 | 7.24 | 17.19 | 0.730 | -167 | 0.18 | 9.6 | |
| 4/20/11 | 1055 | 180.78 | 17 | 1,416 | 7.16 | 16.96 | 0.737 | -166 | 0.15 | 8.0 | |
| 4/20/11 | 1110 | 180.71 | 17 | 1,628 | 7.23 | 17.01 | 0.734 | -167 | 0.16 | 8.1 | |
| 4/20/11 | 1125 | 180.73 | 16.5 | 1,850 | 7.23 | 17.38 | 0.740 | -167 | 0.16 | 7.8 | |
| 4/20/11 | 1140 | 180.71 | 16.5 | 2,068.5 | 7.24 | 16.72 | 0.741 | -169 | 0.15 | 7.2 | |
| 4/20/11 | 1155 | 180.76 | 17 | 2,348 | 7.24 | 17.12 | 0.733 | -170 | 0.14 | 7.4 | Stopped purge to offload |
| 4/20/11 | 1240 | --- | --- | --- | --- | --- | --- | --- | --- | --- | restarted purge |
| 4/20/11 | 1255 | 180.11 | 16.75 | 2,672 | 7.46 | 18.28 | 0.738 | -110 | 3.31 | 9.9 | |
| 4/20/11 | 1310 | 180.40 | 17.0 | 2,905 | 7.25 | 19.35 | 0.736 | -99 | 2.77 | 13.3 | |
| 4/20/11 | 1325 | 179.92 | 16.75 | 3,179 | 7.23 | 19.87 | 0.740 | -97 | 2.51 | 13.3 | |
| 4/20/11 | 1340 | 186.30 | 17 | 3,395 | 7.23 | 20.32 | 0.738 | -99 | 2.27 | 14.7 | |
| 4/20/11 | 1355 | 186.90 | 17 | 3,631 | 7.23 | 20.69 | 0.741 | -101 | 2.04 | 12.8 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Totalizer: start = 106430 / end: 110061

P2 sample

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

| | |
|--|---|
| Well No.: RD-57 FLUTE | Site: SSFL RAD SURVEY AREA III + NBZ |
| Sampler(s): Timothy MORZE | Project No.: EP9058.01.22.04.02 |
| Sampler(s): Ben (BL Hall) | Date: 3/31/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: FLUTE |
| Sample ID: SMAD-57-6W033111 | Sample Date: 3/31/11 |
| Additional Samples (DUP/MSD/Blanks): SMAD-57-6W040111 | Sample Date: 4/1/11 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Well Depth: Port 7 | DTW (ft): — |
| Condition of Bottom of Well: — | Type of Pump: Flute |
| Screen Interval (ft): 12.125' open hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): sunny, warm, ~80°F, MOD wind |
| Well Diameter (in): 12.125" & 12.125" | Placement of Pump (ft) Port 7 |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|------------|-------------------|
| 3/31/11 | 1014 | — | — | 0.75 gal | 7.14 | 21.11 | 0.612 | -289 | 1.36 | 4.4 | Port 7 |
| | 1155 | — | — | 0.75 | 7.25 | 20.30 | 0.644 | -250 | 2.75 | 4.7 | |
| | 1345 | — | — | 0.5 gal | 7.85 | 21.49 | 0.651 | -288 | 1.70 | 26.7 | |
| | 1500 | — | — | 0.5 gal | | | | | | | |
| | 1538 | — | — | 0.5 gal | | | | | | | |
| 4/1/11 | 0910 | — | — | 2.5 L | | | | | | | sampling complete |
| | 1040 | — | — | 1.5L | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Port 7

PURGE VOLUME CALCULATIONS For: well casing volume = J (Re)² (well depth - static H2O depth) x (conversion 7.48 gal/ft³)

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|---------------------------------------|
| Well No.: <u>RD-63</u> | Site: <u>SSFL Area IV</u> | |
| Sampler(s): <u>Jason MSDaniel (HGL)</u> | Project No.: <u>EP9.038.01.22.04.02</u> | |
| Sampler(s): <u>Nick Harrel (Blaine Tech)</u> | Date: <u>3-23-11</u> | Time: <u>1320</u> |
| Sampling Method (G=grab, B=baile, SP=submersible pump): <u>SP</u> | Type of Pump: <u>Electric</u> | <u>Dedicated Submersible</u> |
| Sample ID: <u>SMAD636w032311</u> | Sample Date: <u>3-23-11</u> | Sample Time: <u>1530</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Well Depth: <u>230.0</u> | DTW (ft): <u>15.83</u> | Type of Pump: <u>ded. submersible</u> |
| Condition of Bottom of Well: <u>---</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>Light rain, no wind ~50°</u> | |
| Screen Interval (ft): <u>---</u> | Placement of Pump (ft) <u>---</u> | |
| Well Diameter (in): <u>Open Hole</u> | | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-23-11 | 1400 | 49.74 | 11.5 | 237 | 6.72 | 18.10 | 1162 | 145 | 3.92 | 13 | |
| " | 1420 | 59.49 | 11.25 | 433 | 6.66 | 18.33 | 1091 | 110 | 3.25 | 14 | |
| " | 1440 | 67.44 | 11.0 | 649 | 6.66 | 18.12 | 1109 | 98 | 3.48 | 8 | |
| " | 1500 | 73.37 | 11.0 | 863 | 6.72 | 17.70 | 1102 | 127 | 2.93 | 8 | |
| " | 1520 | 79.05 | 11.0 | 1135 | 6.70 | 17.92 | 1121 | 121 | 2.98 | 8 | |
| <u>Deeded 3 well volumes sampled well @ 15:30</u> | | | | | | | | | | | |
| <u>3-23-11</u> | | | | | | | | | | | |

OBSERVATIONS

| |
|---|
| Color: <u>Clear</u> Other (describe): |
| Odor (circle one): <u>None</u> Low Medium High Very strong H2S Fuel-like |
| PID reading: <u>N/A</u> |
| Notes: <u>Beginning Totalizer: 283,225 End Totalizer: 283,360</u> |
| <u>Sample SMAD636w032311 collected @ 1530</u> |
| <u>1135</u> |
| <u>Total Purge: 4135.991</u> |
| <u>1 Well Vol: 366.44 3 well Vol: 1099.31 Water Column: 214.17</u> |
| PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"] |
| Signed/Sampler(s): <u>[Signature]</u> |

| | | |
|--|--|----------------------------|
| Well No.: DD-64 FLUTE | Site: SSFL RAD SURVEY AREA II + NBZ | |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Ben (BL HALL) | Date: 4/4/11 | Time: 0720 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: FLUTE | |
| Sample ID: SMRD-64-6W040411 | Sample Date: 4/4/11 | Sample Time: 1215 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: Port #6 | DTW (ft): - | Type of Pump: FLUTE |
| Condition of Bottom of Well: - | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny/clear, mod. wind, ~75°F | |
| Well Diameter (in): - | Placement of Pump (ft) Port #6 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|-------------------------|
| 4/4/11 | 0754 | - | - | 1.5g | 6.25 | 17.69 | 0.821 | -310 | 2.50 | 4.6 | Port #6 |
| | 0851 | - | - | 1.5g | 7.51 | 18.53 | 0.804 | -308 | 1.97 | 34.1 | |
| | 1048 | - | - | 1.5g | 7.66 | 19.25 | 0.786 | -378 | 5.82 | 7.6 | |
| | 1205 | - | - | 1.5g | | | | | | | start sample collection |
| | 1400 | - | - | 1.5g | | | | | | | |
| | 1540 | - | - | 1.5g | | | | | | | Final sampling |
| <i>[Handwritten signature and date 4/4/11]</i> | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: **Tried purging Port #5, no water, switched to port #6**

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

| | | |
|--|--|---------------------|
| Well No.: RD-65 FLUTE | Site: SCFL RAD SURVEY AREA # + MBZ | |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Ben (BL HALL) | Date: 4/4/11 | Time: 0800 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: FLUTE | |
| Sample ID: SMAD-65-6N040411 | Sample Date: 4/4/11 | Sample Time: 1500 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: Port #7 | DTW (ft): - | Type of Pump: FLUTE |
| Condition of Bottom of Well: - | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny/clear, light wind ~75°F | |
| Well Diameter (in): - | Placement of Pump (ft) Port #7 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (NTU) | COMMENTS |
|--------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|------------|------------------------------------|
| 4/4/11 | 0811 | - | - | 0.5 gal | 7.21 | 18.87 | 1.044 | -319 | 2.02 | 21.4 | Port #7 |
| | 0930 | - | - | 0.75 | 7.53 | 20.08 | 0.563 | -292 | 3.07 | 32.3 | |
| | 1120 | - | - | 0.25 | 7.67 | 20.35 | 0.518 | -284 | 7.53 | 12.4 | Line clogged |
| | 1330 | - | - | 7.25 | | | | | | | start sample collection |
| | | | | | | | | | | | continue purge |
| | 1500 | - | - | 5L | | | | | | | start sample collection |
| | 1600 | - | - | | | | | | | | finish sampling (minus spare vol.) |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Port #7
Water smells strong (like fecal matter) and contains insect matter

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): [Signature]

| | |
|--|--|
| Well No.: RD-70 | Site: SSFL RAD SURVEY AREA IV + NBZ |
| Sampler(s): Timothy Moore | Project No.: EP9038.01.22.04.02 |
| Sampler(s): Nick Humel (Blairtech) | Date: 4/18/11 Time: 1000 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: dedicated submersible |
| Sample ID: SMAD-70-6W041811 | Sample Date: 4/19/11 Sample Time: 1130 |
| Additional Samples (DUP/MSD/Blanks): SMAD-70-6W041811 | Sample Date: 4/18/11 Sample Time: — |
| Additional Samples (DUP/MSD/Blanks): SMADUP-09-6W041811 | Sample Date: — Sample Time: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — Sample Time: — |
| Well Depth: 278' | DTW (ft): 138.94 Type of Pump: dedicated submersible |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): open hole | overcast, cool ~ 70°F |
| Well Diameter (in): 12" | Placement of Pump (ft) — |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 4/18/11 | 1051 | 138.96 | 3.5 | 10.5 | 6.91 | 18.05 | 0.994 | -158 | 12.05 | 8.0 | |
| | 1054 | 138.96 | 3.5 | 21 | 6.75 | 17.25 | 1.006 | -157 | 3.59 | 8.7 | |
| | 1059 | 138.96 | 3.5 | 34.5 | 6.96 | 18.11 | 1.003 | -159 | 2.66 | 8.9 | |
| | 1104 | 138.96 | 3.5 | 56 | 6.97 | 18.29 | 1.005 | -165 | 1.97 | 9.8 | |
| | 1109 | 138.97 | 3.5 | 73.5 | 6.97 | 18.40 | 1.008 | -171 | 1.46 | 10.0 | |
| | 1114 | 138.97 | 3.5 | 91 | 6.99 | 18.46 | 1.009 | -177 | 1.19 | 9.9 | |
| | 1119 | 138.97 | 3.5 | 108.5 | 6.99 | 18.39 | 1.008 | -179 | 0.87 | 10.0 | |
| | 1124 | 138.97 | 3.5 | 126 | 6.99 | 18.37 | 1.009 | -182 | 0.79 | 11.1 | |
| 4/18/11 | 1129 | 138.97 | 3.5 | 143.5 | 6.99 | 18.33 | 1.009 | -186 | 0.69 | 12.7 | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like Light H2S

PID reading: NA

Notes: NEW dedicated Low flow submersible pump installed last quarter. Blairtech says 1-3 gpm with no drawdown was achieved. minimum system volume = 34 L. ~89 gal. Pump on @ 10:19 pump off @ 11:30

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|--|
| Well No.: RD-85 | Site: SSFL QAD Survey area IV |
| Sampler(s): Tim Morse (A6L) | Project No.: EP9038.01.22.04.02 |
| Sampler(s): ED Bulano (Blainetech) | Date: 3/16/11 Time: 1525 |
| Sampling Method (G=grab, B=bailler, SP=submersible pump): | Type of Pump: 2" Grundfos |
| Sample ID: SM RD-85-02-031711 | Sample Date: 1355/3/11 Sample Time: 1355 |
| Additional Samples (DUP/MSD/Blanks): SM Rinsate-02-EB03-1711 | Sample Date: 3/14/11 Sample Time: 1545 |
| Additional Samples (DUP/MSD/Blanks): SM SOURCE-02-EB03-1711 | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 90 ft | DTW (ft): 59.13 Type of Pump: |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): open hole | Sunny & Hot ~ 85°F |
| Well Diameter (in): 8 | Placement of Pump (ft): 88 ft |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|--------------|
| 3/16/11 | 1602 | — | 2 gpm | 2 | 6.60 | 20.12 | 1.464 | -198 | 4.46 | 15.2 | |
| | 1603 | 57.83 | 2 gpm | 4 | 6.67 | 20.39 | 1.458 | -199 | 4.25 | 9.5 | |
| | 1604 | 58.40 | 2 gpm | 6 | 6.77 | 20.50 | 1.451 | -199 | 4.17 | 6.78 | |
| | 1605 | 59.85 | 2 gpm | 8 | 6.80 | 20.52 | 1.468 | -198 | 4.13 | 6.5 | |
| | 1607 | 61.15 | 2 gpm | 12 | 6.83 | 20.51 | 1.467 | -197 | 4.04 | 5.7 | |
| | 1608 | 62.15 | 2 gpm | 14 | 6.85 | 20.53 | 1.469 | -195 | 3.96 | 5.7 | |
| | 1610 | 64.03 | 2 gpm | 18 | 6.86 | 20.55 | 1.450 | -194 | 3.93 | 5.7 | |
| | 1612 | 66.34 | 2 gpm | 22 | 6.87 | 20.63 | 1.465 | -192 | 3.92 | 5.3 | |
| | 1614 | 67.84 | 2 gpm | 26 | 6.87 | 20.65 | 1.465 | -190 | 3.94 | 5.2 | |
| | 1616 | 70.85 | 2 gpm | 30 | 6.88 | 20.72 | 1.464 | -189 | 3.97 | 5.6 | |
| | 1618 | 72.59 | 2 gpm | 34 | 6.88 | 20.77 | 1.448 | -188 | 4.01 | 5.9 | |
| | 1620 | 73.79 | 2 gpm | 38 | 6.88 | 20.76 | 1.450 | -187 | 4.06 | 5.7 | |
| | 1622 | 75.58 | 2 gpm | 42 | 6.88 | 20.83 | 1.449 | -185 | 4.11 | 6.6 | |
| | 1624 | 77.76 | 2 gpm | 46 | 6.89 | 20.81 | 1.462 | -183 | 4.18 | 6.1 | |
| | 1626 | 79.63 | 2 gpm | 50 | 6.89 | 20.85 | 1.465 | -178 | 4.26 | 6.3 | |
| | 1628 | 82.09 | 2 gpm | 54 | 6.89 | 20.90 | 1.464 | -176 | 4.39 | 7.4 | |
| | 1630 | 84.60 | 2 gpm | 58 | 6.89 | 20.91 | 1.457 | -173 | 4.61 | 8.5 | |
| | 1632 | 86.32 | 2 gpm | 62 | 6.90 | 20.95 | 1.448 | -172 | 4.68 | 8.8 | |
| | 1634 | 88.15 | 2 gpm | 66 | 6.88 | 20.97 | 1.441 | -170 | 4.75 | 7.9 | |
| | 1636 | DEWATERED | | | | | | | | | |
| | 1346 | 75.85 | 2 gpm | — | 6.83 | 19.45 | 1.344 | -158 | 4.96 | 5.8 | Bailler used |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: SM SOURCE-02-EO3 taken @ 1545 (2" Grundfos)

Notes: SM Rinsate-02-EB03 taken @ 1545 (2" Grundfos)

Final DTW 89.94 ft has

*SM SOURCE-02-EO3-1711 TA

*SM Rinsate-02-EB03-1711 TA

SM Rinsate-02-EB031711

SM SOURCE-02-EB031711

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2", x = 0.653 for 4"]

Signed/Sampler(s):

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|--------------------------------|
| Well No.: RD-86 | Site: SSFZ RAD SURVEY AREA IV + NBZ EPA Reg. 9 | |
| Sampler(s): Timothy Morse | Project No.: EP9008.01.22.04.02 | |
| Sampler(s): ED Bulano | Date: 3/23/11 | Time: 1430 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | dedicated submersible |
| Sample ID: SMRD-86-6W032411 | Sample Date: 3/24/11 | Sample Time: 0900 |
| Additional Samples (DUP/MSD/Blanks): SMRD-86-5M | Sample Date: _____ | Sample Time: _____ |
| Additional Samples (DUP/MSD/Blanks): SM-DUP-03-0W032411 | Sample Date: 3/24/11 | Sample Time: 0900 |
| Additional Samples (DUP/MSD/Blanks): _____ | Sample Date: _____ | Sample Time: _____ |
| Well Depth: 80' | DTW (ft): 28.09 | Type of Pump: ded. submersible |
| Condition of Bottom of Well: _____ | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): Open hole | Rainy, light wind, ~65°F | |
| Well Diameter (in): 8 | Placement of Pump (ft): _____ | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|-------------------|
| 3/23/11 | 1455 | 43.80 | 8.1 gpm | 24 | 6.22 | 18.60 | 0.904 | -229 | 0.47 | 6.1 | |
| | 1457 | 53.73 | 8 | 40 | 6.20 | 18.71 | 0.903 | -222 | 0.42 | 5.3 | |
| | 1459 | 62.31 | 8 | 56 | 6.20 | 18.81 | 0.901 | -213 | 0.42 | 4.1 | |
| | 1501 | 69.63 | 8 | 72 | 6.20 | 18.79 | 0.911 | -208 | 0.47 | 4.4 | |
| | 1502 | | | | | | | | | | pump off well DRY |
| | | 75.63 | | | | | | | | | end DTW @ 80 gal |
| 3/24/11 | 0850 | 41.24 | - | - | 6.53 | 14.73 | 0.916 | -114 | 5.92 | 8.8 | none |

OBSERVATIONS

Color: Clear Other (describe): _____

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: _____

Notes: pump on @ 1452 well dry @ 1502 and ~80 gal

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): dm

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|-------------------------------------|
| Well No.: RD-86 | Site: SSFL RAD survey AREA IV+NBZ EPA REG. 9 | |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): ED Budano (Blantech) | Date: 3/28/11 | Time: 0815 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | dedicated submersible |
| Sample ID: SMRD-86-6W032911 | Sample Date: 3/29/11 | Sample Time: 0830 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 80 | DTW (ft): 27.10 | Type of Pump: dedicated submersible |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | Sunny ~ 60°F, light wind | |
| Well Diameter (in): 8 | Placement of Pump (ft): 76 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3/28/11 | 0835 | 40.27 | ~8 gpm | 16 | 6.21 | 18.58 | 0.911 | -156 | 1.60 | 4.3 | |
| | 0837 | 48.75 | 8 | 32 | 6.21 | 18.67 | 0.902 | -165 | 1.09 | 4.1 | |
| | 0839 | 57.78 | 8 | 48 | 6.22 | 18.74 | 0.910 | -171 | 0.95 | 3.8 | |
| | 0841 | 67.12 | 8 | 66 | 6.22 | 18.77 | 0.905 | -175 | 0.85 | 4.1 | |
| | 0843 | 75.02 | 8 | 82 | 6.24 | 18.82 | 0.911 | -171 | 1.06 | 3.9 | |
| Well Dry / Pump off | | | | | | | | | | | |
| 3/29/11 | 0810 | 60.51 | — | — | 6.35 | 18.74 | 0.900 | -95 | 7.27 | 4.4 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like P2

PID reading:

Notes: Pump on @ 0833 pump off/well dry @ 0843

(Priority) sets collected previously (P2) sample only due to recent findings in well

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-87 | Site: SSFL Area IV |
| Sampler(s): Jason McDaniel (HGL) | Project No.: EP9038.01.22.04.02 |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-17-11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump) | Time: 1100 |
| Sample ID: N/A SMAD 87 GW 031811 | Type of Pump: Electric |
| Additional Samples (DUP/MSD/Blanks): | Electric Groundlog Submersible |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: 3-18-11 |
| Additional Samples (DUP/MSD/Blanks): | Sample Time: 0850 |
| Well Depth: 60.0 ft | Sample Date: |
| Condition of Bottom of Well: Soft | Sample Time: |
| Screen Interval (ft): N/A | Sample Date: |
| Well Diameter (in): Open Hole | Sample Time: |
| | DTW (ft): 45.70 |
| | Type of Pump: |
| | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| | Overcast, no wind ~70° |
| | Placement of Pump (ft) 60.0 |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|--------------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|---------------------------------------|
| 3-17-11 | 11:20 | 50.66 | 2 | 6 | 6.58 | 17.31 | 1,062 | 19 | 1.23 | 0 | |
| " | 11:23 | 57.32 | 2 | 12 | 6.51 | 17.49 | 1,042 | 31 | 1.27 | 0 | |
| " | 11:26 | 59.33 | 2 | 18 | 6.47 | 17.46 | 1,043 | 17 | 1.12 | 0 | |
| 11:27 | Well ran dry | | | | | | | | | | Well return on 3-18 to collect sample |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Well ran dry @ 11:27 Well return on 3-18 to collect sample

Total purge vol: 18 gallons

1 Well Vol: 14.58 3 Well Vol: 43.74

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): JPM

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-------------------|
| Well No.: RD-87 | Site: SSFL Area IV | |
| Sampler(s): Jason M. Daniels (HGL) | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-18-11 | Time: 0840 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump) B SP | Type of Pump: Ground Hog Electric | |
| Sample ID: SMRD 87GW031811 | Sample Date: 3-18-11 | Sample Time: 0850 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 61.46 | DTW (ft): 50.50 | Type of Pump: / |
| Condition of Bottom of Well: soft | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): NA | Clear no wind, ~60° | |
| Well Diameter (in): Open Hole | Placement of Pump (ft) 60-Open | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------------------------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-18-11 | 0850 | 50.50 | N/A | N/A | 6.68 | 15.75 | 1198 | 34 | 2.46 | 0 | |
| Collected SMRD 87GW031811 | | | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: 0850 collect SMRD 87GW031811 w H bailer

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): JMD

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-88 | Site: SSFL Area IV |
| Sampler(s): Jason McDaniel (HGL) | Project No.: SP1.038, 01.22.04.02 |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-28-11 (3-29-11) Time: 11:20 (0830) |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Electric Grundfos |
| Sample ID: SMRD 886W032911 | Sample Date: 3-29-11 Sample Time: 0845 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Well Depth: 30.0 | DTW (ft): 15.09 (17.29) Type of Pump: Grundfos |
| Condition of Bottom of Well: Soft | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): — | Sunny, clear, light west wind, ~60° |
| Well Diameter (in): Open Hole | Placement of Pump (ft) 29.0 BTOL |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (N.T.U.) | COMMENTS |
|---------|-------|------------------------------|-----------------|--------------------|------|------------|------------------|-----|------------|---------------|----------|
| 3-28-11 | 11:48 | 17.72 | 1.5 | 7.5 | 6.68 | 17.75 | 562 | 117 | 2.26 | 2.0 | |
| " | 11:53 | halted purge | | | | | | | | | |
| " | 12:24 | 20.40 | 1.5 gpm | 16.5 | 6.25 | 17.56 | 573 | 211 | 0.85 | 18.0 | |
| " | 12:29 | 23.20 | " | 24.0 | 6.13 | 17.72 | 601 | 215 | 0.92 | 13.0 | |
| " | 12:34 | 28.00 | " | 31.5 | 6.15 | 17.76 | 584 | 152 | 0.48 | 19.0 | |
| " | 12:35 | well ran dry | | | 6.42 | | | | | | |
| 3-29-11 | 0840 | 17.29 | — | < 1.0 gal | 6.42 | 15.56 | 730 | 159 | 1.75 | 17 | |
| 3-29-11 | 0845 | Sampled well SMRD 886W032911 | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A 3-29-11 Total purge 5.10 gal. Collected with disposable bailer

Notes: Water Column: 14.91 3-29-11 Sample SMRD 886W032911 collected @ 0845

11:53: halted purge due to water quality meter failure. 12:24 continued purge with new water meter. 12:35 well ran dry. Well return on 3-29 to collect sample.

1 Well vol approximately: 15 gal. 3 Well vol approximately: 45 gal. Total purge: 31.5 gal.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2", x = 0.653 for 4"]

Signed/Sampler(s): JDM

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: RD-90 | Site: SSFL Area IV |
| Sampler(s): Jason McDavid (HGL) | Project No.: EPA 058. 01.22.04.02 |
| Sampler(s): Nick Harrel (Blaine Tech) | Date: 3-28-11/3-29-11 |
| Sampling Method (G=grab, B=bailey, SP=submersible pump): SP | Time: 0815 (0750) |
| Sample ID: SMAD 90GW032911 | Type of Pump: Electric Grundfos |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / |
| Well Depth: 125.0 | DTW (ft): 27.09(28.53) |
| Condition of Bottom of Well: — | Type of Pump: Grundfos |
| Screen Interval (ft): — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Well Diameter (in): Open Hole | Clear, no wind, ≈ 55° |
| | Placement of Pump (ft) 127.0 BTOL |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 3-28-11 | 0914 | 52.60 | 2.53 | 45 | 6.58 | 19.41 | 1,182 | 157 | 1.20 | 0 | |
| " | 0929 | 67.64 | 3.0 | 90 | 6.59 | 19.59 | 1,182 | 150 | 0.86 | 0 | |
| " | 0944 | 79.04 | 3.0 | 135 | 6.60 | 19.71 | 1,180 | 144 | 0.74 | 0 | |
| " | 0959 | 91.75 | 3.0 | 180 | 6.62 | 19.77 | 1,181 | 134 | 0.76 | 0 | |
| " | 1014 | 109.40 | 3.0 | 225 | 6.65 | 19.96 | 1,193 | 118 | 1.07 | 20 | |
| " | 1025 | Well | ran dry | | | | | | | | |
| 3-29-11 | 0805 | 25.53 | — | 21.0 gal | 6.47 | 16.88 | 1,260 | 226 | 3.14 | 6.0 | |
| " | 0810 | Sampled well | | SMAD 90GW032911 | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Water Column: 97.91

Well ran dry @ 1025. Well return on 3-29 to collect sample.

3-29-11 Sampled well SMAD 90GW032911 @ 0810

1 Well Vol: 138.25 3 Well Vol: 414.76 Sample collected with disposable bailer.

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): JH

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|---|
| Well No.: RD-91 | Site: SSFL Area IV |
| Sampler(s): Jason McDaniel (HGL) | Project No.: EP9.038.01.22.04.02 |
| Sampler(s): Nick Hurrell (Blaine Tech) | Date: 3-29-11 (3:30-11) Time: 1445 (0145) |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Electric Dedicated Submersible |
| Sample ID: SMRD 91 GW 033011 | Sample Date: 3-30-11 Sample Time: 1330 |
| Additional Samples (DUP/MSD/Blanks): SM Dup 05 GW 033011 | Sample Date: 3-30-11 Sample Time: 1340 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / Sample Time: / |
| Well Depth: 140.0 | DTW (ft): 28.80 (105.10) Type of Pump: ded. submersible |
| Condition of Bottom of Well: --- | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): Clear, Sunny, light NW wind ~ 70° |
| Screen Interval (ft): --- | Placement of Pump (ft) --- |
| Well Diameter (in): Open Hole | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (NTU) | COMMENTS |
|---------------------------------------|------|---------------------|-----------------|--------------------|------|-----------|------------------|-----|------------|------------|----------|
| 3-29-11 | 1515 | 96.30 | 6.5 | 92 | 6.48 | 21.95 | 1,184 | 163 | 2.59 | 9 | |
| " | 1530 | 131.22 | 5.75 | 164 | 6.48 | 21.19 | 1,164 | 152 | 1.38 | 6 | |
| " | 1531 | Well Ran dry | | | | | | | | | |
| 3-30-11 | 1320 | 97.35 | 6.5 | 3 | 7.22 | 22.23 | 1,192 | 169 | 4.60 | 1 | |
| Sampled well @ 1330 SMRD 91 GW 033011 | | | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Beginning totalizer: 284122 end totalizer: 284203
 Water column: 111.20 Collected sample on 3:30 SMRD 91 GW 033011 @ 1330
 Well ran dry @ 1531 well return on 3:30 to collect sample
 1 Well Vol: 163.34 3 Well Vol: 490.02 Total purge: 164 gal

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): J. McDaniel

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|--|
| Well No.: <u>RD-92</u> | Site: <u>SSFL RAD Survey Area IV+NBZ EPA Reg 9</u> | |
| Sampler(s): <u>Timothy Morse</u> | Project No.: <u>EP9038.01.22.04.02</u> | |
| Sampler(s): <u>ED Bruno (Blairtech)</u> | Date: <u>3/21/11</u> | Time: <u>1445</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | <u>deducted submersible</u> |
| Sample ID: <u>SMAD-92-6W032211</u> | Sample Date: <u>3/22/11</u> | Sample Time: <u>0930</u> |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: / | Sample Time: / |
| Well Depth: <u>105</u> | DTW (ft): <u>60.15</u> | Type of Pump: <u>deducted submers.</u> |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): <u>8 open hole</u> | <u>Cloudy, damp ~ 70°F</u> | |
| Well Diameter (in): <u>8</u> | Placement of Pump (ft) <u>102</u> | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|----------------|-------------|---------------------|-----------------|--------------------|-------------|-----------------|------------------|-------------|-------------|---------------|-------------|
| <u>3/21/11</u> | <u>1504</u> | <u>74.59</u> | <u>8 gpm</u> | <u>32</u> | <u>7.04</u> | <u>19.48</u> | <u>0.472</u> | <u>-214</u> | <u>0.40</u> | <u>2.9</u> | |
| <u>3/21/11</u> | <u>1505</u> | <u>81.66</u> | <u>8</u> | <u>64</u> | <u>6.92</u> | <u>19.63</u> | <u>0.452</u> | <u>-218</u> | <u>0.24</u> | <u>3.1</u> | |
| <u>3/21/11</u> | <u>1509</u> | <u>89.97</u> | <u>8</u> | <u>96</u> | <u>6.20</u> | <u>19.69</u> | <u>0.443</u> | <u>-215</u> | <u>0.29</u> | <u>2.8</u> | |
| <u>11</u> | <u>1503</u> | <u>97.51</u> | <u>8</u> | <u>128</u> | <u>6.91</u> | <u>19.70</u> | <u>0.441</u> | <u>-207</u> | <u>0.40</u> | <u>3.8</u> | |
| <u>11</u> | <u>1516</u> | <u>101.92</u> | <u>8 gpm</u> | | | <u>well dry</u> | | | | | |
| <u>3/22/11</u> | <u>0919</u> | <u>61.30</u> | <u>~8 gpm</u> | <u>-</u> | <u>7.10</u> | <u>19.46</u> | <u>0.507</u> | <u>-171</u> | <u>2.73</u> | <u>3.5</u> | <u>none</u> |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Start time - 1457 end - 1516 @ ~ 152 gal.

30V = ~ 196 gal. 40% ~ 69 ft.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): ad

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|------------------------------|
| Well No.: RD-93 | Site: SSFL Radiological Study, Area IV | |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): / | Date: 3-16-11 | Time: 1434 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP/B | Type of Pump: 2" grunfos | |
| Sample ID: SMRD-93-GW031711 | Sample Date: 3-17-11 | Sample Time: 1445 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 60' | DTW (ft): 34.58' | Type of Pump: Grunfos |
| Condition of Bottom of Well: / | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 8" open hole | Sunny, 74°, windy | |
| Well Diameter (in): 8" | Placement of Pump (ft) 59' | |

1441

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-------------|
| 3-16-11 | 1444 | / | 1 | 3 | 6.43 | 20.63 | 1900 | 207 | 4.91 | 476 | Start purge |
| 3-16-11 | 1447 | 36.91 | 1 | 6 | 6.27 | 20.84 | 1870 | 187 | 2.22 | 548 | |
| 3-16-11 | 1450 | 38.47 | 1 | 9 | 6.27 | 20.95 | 1850 | 172 | 1.61 | 478 | |
| 3-16-11 | 1452 | 39.47 | 1 | 11 | 6.25 | 20.95 | 1830 | 159 | 1.41 | 383 | |
| 3-16-11 | 1454 | 41.21 | 1 | 13 | 6.32 | 20.96 | 1820 | 142 | 1.20 | 349 | |
| 3-16-11 | 1458 | 42.91 | 1 | 17 | 6.39 | 21.04 | 1730 | 118 | 1.03 | 334 | |
| 3-16-11 | 1502 | 46.64 | 2 | 25 | 6.40 | 20.99 | 1850 | 103 | 0.95 | 358 | |
| 3-16-11 | 1507 | 50.17 | 2 | 35 | 6.47 | 21.00 | 1720 | 99 | 1.00 | 451 | |
| 3-17-11 | 1432 | 33.49 | n/a | n/a | 6.67 | 21.37 | 1650 | 198 | 2.17 | 375 | sample |

Chelsea Carmichael

OBSERVATIONS

Color: Clear Other (describe): clear with slight brown tinting

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: /

Notes: Purged dry at 35 gallons.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|------------------------|
| Well No.: RD-94 | Site: SFL Area IV | |
| Sampler(s): Jason M & Daniel (CH6) | Project No.: EP9.038.01.22.04.02 | |
| Sampler(s): Nick Harrel (Blasius Tech) | Date: 3-28-11 | Time: 1250 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: Electric | Grundfos |
| Sample ID: SMRD94GW032811 | Sample Date: 3-28-11 | Sample Time: 1408 |
| Additional Samples (DUP/MSD/Blanks): SMDup046w032811 | Sample Date: 3-28-11 | Sample Time: 1418 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: / | Sample Time: / |
| Well Depth: 35.0 | DTW (ft): 7.44 | Type of Pump: Grundfos |
| Condition of Bottom of Well: Soft | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): — | Sunny, clear, no wind @ 70° | |
| Well Diameter (in): Open Hole | Placement of Pump (ft) 34.0 BTOC | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|-------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|------------------|
| 3/28/11 | 13:14 | 8.68 | 1.0 | 7 | 6.39 | 16.55 | 1,363 | -58 | 0.68 | 232 | |
| " | 13:19 | 8.92 | " | 12 | 6.39 | 16.79 | 1,368 | -52 | 0.71 | 267 | |
| " | 13:24 | 9.10 | " | 17 | 6.40 | 16.82 | 1,366 | -48 | 0.73 | 197 | |
| " | 13:29 | 9.22 | " | 22 | 6.40 | 16.79 | 1,368 | -38 | 0.85 | 130 | |
| " | 13:34 | 9.30 | " | 27 | 6.40 | 16.84 | 1,379 | -31 | 0.92 | 97 | |
| " | 13:39 | 9.36 | " | 32 | 6.41 | 17.01 | 1,381 | -26 | 1.09 | 78 | |
| " | 13:44 | 9.44 | " | 37 | 6.40 | 17.06 | 1,396 | -14 | 1.22 | 53 | |
| " | 13:49 | 9.53 | " | 42 | 6.41 | 17.11 | 1,403 | -11 | 1.35 | 44 | |
| " | 13:54 | 9.60 | " | 47 | 6.41 | 17.13 | 1,413 | -10 | 1.40 | 38 | Well Vol reached |
| " | 13:59 | 9.68 | " | 52 | 6.42 | 17.17 | 1,415 | -9 | 1.43 | 34 | |
| " | 14:02 | 9.71 | " | 57 | 6.42 | 17.09 | 1,431 | -9 | 1.38 | 35 | |
| " | 14:05 | 9.78 | " | 62 | 6.43 | 17.11 | 1,432 | -6 | 1.42 | 34 | |
| " | 14:06 | Well Stabilized | | | | | | | | | |
| " | 14:08 | Sampled well | | | | | | | | | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes: Water column: 27.56
 13:54 reached 3 well vol. began to stabilize.
 14:08 Sampled well SMRD94GW032811 pulled D-up#9 SMDup046w032811
 Well vol app: 16.27 3 well vol app: 48.82 Total purge: 65 gallons

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): J.M.

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|---------------------------|
| Well No.: RD-95 | Site: SSFL Radiological Study, Area IV | |
| Sampler(s): C. Carmichael | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): | Date: 3-16-11 | Time: 1253 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): B ^B SP ^{SP} B ^B | Type of Pump: 2" Grundfos | |
| Sample ID: SMRD-95-6W03-1711 | Sample Date: 3-17-11 | Sample Time: 1400 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 80 | DTW (ft): 52.58 | Type of Pump: 2" Grundfos |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 27.42 ^{cc} 48.5 ^{cc} open hole | Sunny, 73° | |
| Well Diameter (in): 8 8" at top | Placement of Pump (ft) 79 | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--------------------|-----------------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-------------|
| 3-16-11 | 1404 | 52.58 | 3 | 9 | 6.22 | 19.90 | 1,354 | 298 | 1.44 | 598 | start purge |
| 3-16-11 | 1408 | 52.58 | 3 | 21 | 6.25 | 20.05 | 1,392 | 262 | 1.22 | 1,304 | Purged dry |
| 3-16-11 | 1408 | 52.58 | | | | | | | | | |
| 3-17-11 | 1344 | 52.76 | n/a | n/a | 6.50 | 19.75 | 1400 | 238 | 2.46 | 198 | |

cc
cc

Chelsea Carmichael

OBSERVATIONS

Color: Clear Other (describe): Brown-clear

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: Purged dry at 21 gallons.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *Chelsea Carmichael*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|---|
| Well No.: RD-96 | Site: SSFC RAD SURVEY AREA IV+NBZ EPA Reg. 9 | |
| Sampler(s): Timothy Morse | Project No.: EP9058.01.22.04.02 | |
| Sampler(s): ED Budano | Date: 3/24/11 | Time: 1415 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | 2" Grundfos |
| Sample ID: SMRD-96-6W032S11 | Sample Date: 3/25/11 | Sample Time: 0815 |
| Additional Samples (DUP/MSD/Blanks): SMRD-96-6W032S11 | Sample Date: 3/25/11 | Sample Time: 0845 TM 0815 |
| Additional Samples (DUP/MSD/Blanks): SMMSite-15-15032S11 | Sample Date: 3/25/11 | Sample Time: 0845 |
| Additional Samples (DUP/MSD/Blanks): MSOURCE-15-EB032S11 | Sample Date: 3/25/11 | Sample Time: 0845 |
| Well Depth: 20.02 | DTW (ft): 59.56 | Type of Pump: — |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | partly cloudy, slight drizzle, ~60°F, light wind | |
| Well Diameter (in): 8.625 | Placement of Pump (ft): 89' | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|----------|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|----------|
| 3/24/11 | 1436 | 62.61 | 1 gpm | 3 | 6.92 | 18.78 | 1.034 | -253 | 0.31 | 36.1 | |
| | 1439 | 65.10 | 1 | 6 | 6.87 | 19.14 | 1.019 | -239 | 0.34 | 33.7 | |
| | 1442 | 67.10 | 1 | 9 | 6.84 | 19.17 | 1.030 | -222 | 0.46 | 29.2 | |
| | 1445 | 69.11 | 1 | 12 | 6.83 | 19.41 | 1.026 | -208 | 0.58 | 28.5 | |
| | 1448 | 71.03 | 1 | 15 | 6.83 | 19.33 | 1.026 | -199 | 0.69 | 24.4 | |
| | 1451 | 71.45 | 1 | 18 | 6.82 | 19.41 | 1.013 | -191 | 0.74 | 22.1 | |
| | 1454 | 75.60 | 1 | 21 | 6.82 | 19.43 | 1.023 | -187 | 0.81 | 21.0 | |
| | 1457 | 77.38 | 1 | 24 | 6.82 | 19.38 | 1.013 | -185 | 0.85 | 19.6 | |
| | 1500 | 79.12 | 1 | 27 | 6.81 | 19.63 | 1.005 | -183 | 0.87 | 23.3 | |
| | 1503 | 81.22 | 1 | 30 | 6.81 | 19.45 | 1.016 | -180 | 0.91 | 25.3 | |
| | 1506 | 83.02 | 1 | 33 | 6.82 | 19.50 | 1.007 | -174 | 1.07 | 26.7 | |
| | 1509 | 84.83 | 1 | 36 | 6.82 | 19.58 | 0.992 | -153 | 1.44 | 25.3 | |
| | 1512 | 85.34 | 1 | 39 | 6.82 | 19.30 | 0.986 | -140 | 2.48 | 32.7 | |
| Well DRY | | | | | | | | | | | |
| 3/25/11 | 0810 | 60.03 | — | — | 6.93 | 14.75 | 1.134 | -116 | 1.54 | 21.2 | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: pump on at 1433 * SMRD-96-6W032S11MS (0815)
 Well dry at 1513 MS sample also taken
 - well water column drops quickly

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|--|---|
| Well No.: RD-97 | Site: SSFL RAD Survey AREA IV + NBZ EPA Reg 2 |
| Sampler(s): Timothy Morse | Project No.: EP9038.01.22.04.02 |
| Sampler(s): ED Budano (Blairtech) | Date: 3/30/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Time: 0750 |
| Sample ID: SMD-97-6W033011 | Type of Pump: 2" br. Jace |
| Additional Samples (DUP/MSD/Blanks): SMDUP-06-6W033011 | Sample Date: 3/30/11 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Time: 1445 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Date: 3/30/11 |
| Additional Samples (DUP/MSD/Blanks): / | Sample Time: / |
| Well Depth: 74.5 | DTW (ft): 44.39 |
| Condition of Bottom of Well: / | Type of Pump: Grundfos |
| Screen Interval (ft): open hole | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): sunny ~ 70°F, light wind |
| Well Diameter (in): 8.625 | Placement of Pump (ft) ~ 71-72' |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|-----------|------------|------------------|------|-------------|---------------|-----------------------|
| 3/30/11 | 0821 | 49.50 | 2 gpm | 6 | 6.65 | 14.52 | 1.123 | -252 | 1.62 | 98.0 | |
| | 0824 | 52.25 | 2 | 12 | 6.66 | 14.70 | 1.135 | -255 | 0.89 | 60.9 | |
| | 0827 | 55.07 | 2 | 18 | 6.67 | 14.82 | 1.120 | -256 | 0.76 | 45.5 | |
| | 0830 | 57.02 | 2 | 24 | 6.67 | 14.88 | 1.125 | -258 | 0.67 | 28.6 | |
| | 0833 | 59.05 | 2 | 30 | 6.68 | 14.90 | 1.117 | -258 | 0.61 | 27.4 | |
| | 0836 | 61.30 | 2 | 36 | 6.68 | 14.95 | 1.127 | -262 | 0.53 | 28.6 | |
| | 0839 | 61.65 | 2 | 42 | 6.69 | 14.98 | 1.119 | -267 | 0.48 | 53.1 | nearly bottom of well |
| | 0842 | 65.11 | 2 | 48 | 6.70 | 19.03 | 1.108 | -261 | 0.53 | 80.0 | |
| | 0845 | 67.23 | 2 | 54 | 6.71 | 19.99 | 1.123 | -246 | 0.73 | 144 | |
| | 0848 | 69.17 | 2 | 60 | 6.71 | 19.02 | 1.124 | -220 | 1.23 | 184 | |
| | 0849 | | | Pump | DRY + 3PV | run | | | | | |
| | 1500 | 46.25 | | | 6.98 | 23.46 | 1.118 | -262 | 3.09 | 85.9 | |

OBSERVATIONS

Color: Clear Other (describe): slightly turbid, more towards bottom 10 ft.

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading:

Notes: WC x 0.651535 x 3 = 3PV = 58.84 gal
 pump difficult to get groundfrees down well
 Pump on @ 0818
 Pump off @ 0849

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *Ed Budano*

| | |
|---|--|
| Well No.: RD-98 | Site: SSFL RAD Survey area JZ+NBZ |
| Sampler(s): Timothy Morse / Stephanie Lopez-Nestor | Project No.: EP9038.01.22.04.02 |
| Sampler(s): Nick Harrel (Blairtech) | Date: 4/18/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): SP | Type of Pump: 4/18/11 |
| Sample ID: SMAD-98-6W041811 (Supd-98-6W041911) | Sample Date: 4/18/11 |
| Additional Samples (DUP/MSD/Blanks): -9 @ | Sample Date: --- |
| Additional Samples (DUP/MSD/Blanks): --- | Sample Date: --- |
| Additional Samples (DUP/MSD/Blanks): --- | Sample Date: --- |
| Well Depth: 65 | DTW (ft): 27.04 |
| Condition of Bottom of Well: --- | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): overcast, ~70°F, light wind |
| Screen Interval (ft): open hole | Placement of Pump (ft): 62' |
| Well Diameter (in): --- | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|--------------------------|------|------------|---------------|----------|
| 4/18/11 | 1339 | 35.72 | 2 gpm | 14 g | 6.99 | 18.51 | 0.625 | -107 | 6.19 | 16.6 | |
| ↑ | 1348 | 38.32 | 2 | 28 | 6.94 | 18.58 | 0.619 | -105 | 6.16 | 15.1 | |
| | 1353 | 40.70 | 2 | 42 | 6.92 | 18.71 | 0.626 | -103 | 6.02 | 12.7 | |
| | 1400 | 41.68 | 2 | 56 | 6.91 | 18.85 | 0.627 | -101 | 5.95 | 12.0 | |
| | 1407 | 47.72 | 2 | 70 | 6.91 | 18.65 | 0.626 | -98 | 6.00 | 8.6 | |
| | 1414 | 50.45 | 2 | 84 | 6.91 | 18.76 | 0.631 | -98 | 5.84 | 9.5 | |
| | 1421 | 52.05 | 2 | 98 | 6.90 | 18.91 | 0.629 | -97 | 5.72 | 9.6 | |
| | 1428 | 52.78 | 2 | 112 | 6.91 | 19.03 | 0.637 | -98 | 5.10 | 9.2 | |
| | 1435 | 54.25 | 2 | 126 | 6.90 | 18.92 | 0.641 | -100 | 5.45 | 9.4 | |
| 4/18/11 | 1444 | 55.43 | 2 | 144 | 6.91 | 19.07 | 0.642 | -99 | 5.44 | 10.5 | |
| 4/18/11 | | | | | | | SPV achieved | | | | |
| 4/19/11 | 0940 | 27.33 | bailer | | 7.02 | 17.46 | 1033 μm/cm ⁻¹ | | 4.58 | 32 | SAMPLE |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes: 3PV = 141 gal
 1332 - Pump On @ ~2 gpm 1447 - Pump off @ ~149 gal.
 Total well purge = 148 gal
 Tim Morse purged well 4/18/11 / Stephanie Lopez-Nestor Sampled well 4/19/11

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signatures]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|---|--------------------------------|
| Well No.: <u>ES-31</u> | Site: <u>SSFL Radiological Study, Area IV</u> | |
| Sampler(s): <u>C. Carmichael</u> | Project No.: <u>EP9038.01.22.04.02</u> | |
| Sampler(s): <u>/</u> | Date: <u>3-24-11</u> | Time: <u>0845</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>SP</u> | Type of Pump: <u>dedicated pump</u> | |
| Sample ID: <u>SMES-31-GW032511</u> | Sample Date: <u>3-25-11</u> | Sample Time: <u>0830</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Additional Samples (DUP/MSD/Blanks): <u>/</u> | Sample Date: <u>/</u> | Sample Time: <u>/</u> |
| Well Depth: <u>25'</u> | DTW (ft): <u>5.48</u> | Type of Pump: <u>dedicated</u> |
| Condition of Bottom of Well: <u>/</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>Cloudy, 55"</u> | |
| Screen Interval (ft): <u>11.6-25'</u> | Placement of Pump (ft) <u>24' (fixed)</u> | |
| Well Diameter (in): <u>6"</u> | | |

0909

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-------------|
| 3-24-11 | 0809 | | 6 | 6 | 5.86 | 13.91 | 807 | 184 | 9.91 | 149 | Start purge |
| 3-24-11 | 0912 | 14 | 6 | 18 | 6.29 | 18.44 | 778 | 157 | 6.94 | 126 | |
| 3-24-11 | 0915 | | 6 | 36 | 6.69 | 17.91 | 794 | 132 | 5.78 | 119 | |
| 3-24-11 | 0918 | 14.59 | 6 | 54 | 6.76 | 18.08 | 810 | 122 | 4.84 | 117 | |
| 3-24-11 | 0921 | 17.10 | 6 | 72 | 6.82 | 18.31 | 823 | 117 | 4.09 | 122 | |
| 3-24-11 | 0924 | 18.43 | 6 | 90 | 6.83 | 18.51 | 834 | 108 | 3.94 | 104 | |
| 3-24-11 | 0927 | 19.63 | 6 | 108 | 6.85 | 18.58 | 850 | 106 | 3.57 | 95.7 | |
| 3-24-11 | 0930 | 21.00 | 6 | 126 | 6.85 | 18.86 | 845 | 102 | 3.51 | 88.3 | |
| 3-24-11 | 0933 | 21.85 | 6 | 144 | 6.85 | 19.03 | 852 | 85 | 3.33 | 87.0 | |
| 3-24-11 | 0936 | 22.40 | 6 | 162 | 6.84 | 19.12 | 864 | 78 | 3.10 | 85.4 | |
| 3-24-11 | 0939 | 23.05 | 6 | 180 | 6.86 | 19.24 | 877 | 74 | 3.23 | 82.5 | |
| 3-24-11 | 0942 | 23.72 | 6 | 198 | 6.86 | 19.29 | 880 | 69 | 2.95 | 88.8 | |
| 3-24-11 | 0943 | 24.00 | 3 | 201 | | | | | | | Purged dry |
| 3-25-11 | 0820 | 5.90 | 6.3 | 6 | 6.16 | 17.46 | 857 | 161 | 4.93 | 60.9 | sample |

Chelsea Carmichael

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: /

Notes: Pumped dry at 0943 - 201 gallons purged.
Flow rate lowered to 3 GPM naturally at 0943.
used restrictor valve to slow from 10 GPM to 6 GPM
All 9 priority 1 bottles filled at 0830 on 3-25-11.

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of Water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): Chelsea Carmichael

| | | |
|--|--|--|
| Well No.: <u>WS-07</u> | Site: <u>SSFL RAD SURVEY AREA IV+NBZ EIA RES P.</u> | |
| Sampler(s): <u>Timothy Morse, Todd Larson</u> | Project No.: <u>EP9038, 01, 22, 04, 02</u> | |
| Sampler(s): <u>Dale Eherson, Nick Harrel</u> | Date: <u>4/18/11</u> | Time: <u>0800</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>SP</u> | Type of Pump: <u>submersible</u> | <u>(vac truck)</u> |
| Sample ID: <u>SM053-07-GW041911</u> | Sample Date: <u>4/19/11</u> | Sample Time: <u>1215</u> |
| Additional Samples (DUP/MSD/Blanks): <u>SM DUP-10-GW041911</u> | Sample Date: <u>4/19/11</u> | Sample Time: <u>NO time</u> |
| Additional Samples (DUP/MSD/Blanks): <u>SM Rinse - 34-ES041911</u> | Sample Date: <u>4/19/11</u> | Sample Time: <u>0830 (Equip used at 20-98)</u> |
| Additional Samples (DUP/MSD/Blanks): <u>SM Sewer - 34-ES041911</u> | Sample Date: <u>4/19/11</u> | Sample Time: <u>0830 (Equip used at 20-98)</u> |
| Well Depth: <u>700</u> | DTW (ft): <u>48.70</u> | Type of Pump: <u>submersible (vac truck)</u> |
| Condition of Bottom of Well: <u>—</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): <u>open hole</u> | <u>overcast, cool ~ 65°F (4/18/11) / same on 4/19/11</u> | |
| Well Diameter (in): <u>12</u> | Placement of Pump (ft) <u>360</u> | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM AT 25°C) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|----------------|---------------------|-----------------------------|-------------------------|------|------------|--------------------------|------|-------------|---------------|----------------------------|
| 4/18/11 | 0956 | 48.70 | 13 gpm | 104 g | 6.72 | 18.93 | 0.544 | -100 | 2.64 | 258 | turbid, rust color |
| | ↑ notes @ 1110 | | ↑ pump changed to ~24.5 gpm | | | | | | | | |
| | 1229 | 67.5 | 24.5 | 2750 | 7.14 | 12.31 | 0.691 | -181 | 1.03 | 96.7 | |
| | 1305 | 76.65 | 24.5 | 6000 | 7.20 | 19.56 | 0.733 | -125 | 3.71 | 30.7 | |
| 4/18/11 | | | | total pumped 7,200 gal. | | | | | | | will continue pump 4/19/11 |
| 4/19/11 | 0742 | 52.85 | 25 gpm | | | | | | | | begin purge |
| 4/19/11 | 0855 | 69.35 | 25 gpm | 9,000 | 6.96 | 18.51 | 0.773 | -161 | 1.63 | 33.6 | |
| 4/19/11 | 1215 | 71.20 | 25 gpm | 12,200 | 7.11 | 19.92 | 76.9 μm | -195 | 1.34 | 23.0 | end purge |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA 3PV = 12, 192

Notes: Totalizer initial @ 8170.5 gal
pump on @ 0948 ~ 13 gpm / @ 1110 changed to ~ 24.5 gpm
PUMP (225 - SAE 220) 3" Grundfos / Total gallons pumped = 12,520

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature] / [Signature]

| | | |
|--|--|-------------------|
| Well No.: 05-2 | Site: SSFL Radiological Survey Area 10/NA-2 (EPA Region 9) | |
| Sampler(s): Stephanie Lopez-Munoz (UGL) | Project No.: EP9038, 01, 22, 04, 02 | |
| Sampler(s): Ben Stevens (Blaine Tech) | Date: 4/18/11 | Time: 1230 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): G | Type of Pump: | antlion |
| Sample ID: S005-02-GW041811 | Sample Date: 4/18/11 | Sample Time: 1234 |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — | Sample Time: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — | Sample Time: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — | Sample Time: — |
| Well Depth: 700 | DTW (ft): — | Type of Pump: |
| Condition of Bottom of Well: — | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | overcast, ~70°F, drizzle | |
| Well Diameter (in): 10 (rising) | Placement of Pump (ft) | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--|------|---------------------|-----------------|--------------------|------|------------|------------------|------|-------------|---------------|---------------------------------------|
| 4/18/11 | 1240 | — | — | — | 8.27 | 17.30 | 783 | 28.8 | 6.87 | 79.1 | collected just before sampling during |
| (The rest of the table is crossed out with a diagonal line.) | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): algae in bathtub well & lead poles

Odor (circle one): (None) Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes: Bathtub well (collected ^{ground} water directly from bathtub)

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

| | |
|---|--|
| Well No.: OS-3 | Site: SSFL Radiological Survey Area 10/NS2 (EPA Region 9) |
| Sampler(s): Stephen Lopez Montrose (HGL) | Project No.: EP9058. 01.22.04.02 |
| Sampler(s): Ben Stevens (Blair Tech) | Date: 4/18/11 Time: 1150 / 1151 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): G | Type of Pump: artesian |
| Sample ID: S005-03-GW041811 / S005-03-GW042111 | Sample Date: 4/18/11 / 4/21/11 Sample Time: 1155 / 1340 |
| Additional Samples (DUP/MSD/Blanks): S005-DUP-11-GW042111 Q | Sample Date: 4/21/11 Sample Time: 0 - no time on field book |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 100 | DTW (ft): Type of Pump: artesian |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): 30-60 open hole | overcast, ~70°F, drizzle |
| Well Diameter (in): 8 1/4 (casing) | Placement of Pump (ft): |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 4/18/11 | 1152 | | | | 7.54 | 18.95 | 786 | 114 | 3.28 | 10.5 | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes:

continuously flowing artesian well - above ground collection - good flow

4/21/11 re collected sample; S005-03-GW042111 & DUP; SMDUP-11-GW042111 @ 1340

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): *[Signature]*

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|---------------------------------|
| Well No.: <u>OS-4</u> | Site: <u>SSFL Biological Survey Area 10 / NSE (EPA Region 9)</u> | |
| Sampler(s): <u>Stephanie Lapeere (HGC)</u> | Project No.: <u>EP 9038-01.22.04.02</u> | |
| Sampler(s): <u>Ben Stevens (Blair Tech)</u> | Date: <u>4/18/11</u> | Time: <u>1130</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>G</u> | Type of Pump: <u>artesian</u> | |
| Sample ID: <u>S005-04-GW041811 / S005-04-GW042111</u> | Sample Date: <u>4/18/11 / 4/21/11</u> | Sample Time: <u>1130 / 1320</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Well Depth: <u>---</u> | DTW (ft): <u>---</u> | Type of Pump: <u>artesian</u> |
| Condition of Bottom of Well: <u>---</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>overcast, ~70°F, drizzle</u> | |
| Screen Interval (ft): <u>---</u> | Placement of Pump (ft): <u>---</u> | |
| Well Diameter (in): <u>---</u> | | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB. (N.T.U.) | COMMENTS |
|--|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|------------|-------------|----------------|----------------|
| <u>4/18/11</u> | <u>1130</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>7.12</u> | <u>16.31</u> | <u>1009</u> | <u>-98</u> | <u>3.47</u> | <u>86.1</u> | <u>sampled</u> |
| <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 48px; opacity: 0.5;"> </div> | | | | | | | | | | | |

OBSERVATIONS

Color: (Clear) Other (describe): with plant and rust debris floating

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes: artesian well - remove lid and place bottles directly into well casing (well does not pump) - groundwater constantly flowing from well onto ground surface (casing is ground level)

4/21/11 - re collected sample: S005-04-GW042111 (1320) due to label error @

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

| | | |
|--|--|-------------------------------|
| Well No.: <u>OS-5</u> | Site: <u>SSFL Radiological Survey Area 10/ND2 (EPA Region 9)</u> | |
| Sampler(s): <u>Stephanie Lepyn Norbom (HAI)</u> | Project No.: <u>EP9038.01.22.04.02</u> | |
| Sampler(s): <u>Ben Stevens (Blair Tech)</u> | Date: <u>4/18/11</u> | Time: <u>1150</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): | Type of Pump: | <u>artesian</u> |
| Sample ID: <u>NO sample collected - dry</u> | Sample Date: <u>NA</u> | Sample Time: <u>NA</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Well Depth: <u>---</u> | DTW (ft): <u>Dry</u> | Type of Pump: <u>artesian</u> |
| Condition of Bottom of Well: <u>---</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): <u>---</u> | <u>overcast, ~70°F, drizzle</u> | |
| Well Diameter (in): <u>---</u> | Placement of Pump (ft) <u>---</u> | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|----------------|-------------|---------------------|-----------------|--------------------|------------|------------|------------------|------------|-------------|---------------|---------------------|
| <u>4/18/11</u> | <u>1150</u> | <u>Dry</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>no water/dry</u> |
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OBSERVATIONS

Color: Clear Other (describe): NA

Odor (circle one): None Low Medium High Very strong H2S Fuel-like NA

PID reading: NA

Notes: Not producing - ground is damp, but no flowing water
No sample

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|-------------------------------|
| Well No.: <u>OS-9</u> | Site: <u>SSFL Radiological Survey Area IV / NBT (EPA Region 4)</u> | |
| Sampler(s): <u>Stephanie Lopez Monrose (HGC)</u> | Project No.: <u>EP9038.01.22.04.02</u> | |
| Sampler(s): <u>Ken Stevens (Blair Tech)</u> | Date: <u>4/18/11</u> | Time: <u>1450</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>G</u> | Type of Pump: | <u>antesian</u> |
| Sample ID: <u>SOOS-09-GW041811</u> | Sample Date: <u>4/18/11</u> | Sample Time: <u>1452</u> |
| Additional Samples (DUP/MSD/Blanks): <u>—</u> | Sample Date: <u>—</u> | Sample Time: <u>—</u> |
| Additional Samples (DUP/MSD/Blanks): <u>—</u> | Sample Date: <u>—</u> | Sample Time: <u>—</u> |
| Additional Samples (DUP/MSD/Blanks): <u>—</u> | Sample Date: <u>—</u> | Sample Time: <u>—</u> |
| Well Depth: <u>—</u> | DTW (ft): <u>—</u> | Type of Pump: <u>antesian</u> |
| Condition of Bottom of Well: <u>—</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): <u>—</u> | <u>overcast, ~70°F</u> | |
| Well Diameter (in): <u>—</u> | Placement of Pump (ft) <u>—</u> | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB. (N.T.U.) | COMMENTS |
|---|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|-------------|-------------|----------------|---------------|
| <u>4/18/11</u> | <u>1455</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>8.54</u> | <u>17.60</u> | <u>878</u> | <u>-277</u> | <u>1.83</u> | <u>23.3</u> | <u>Sample</u> |
| <i>(Large handwritten scribble/initials across the table)</i> | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe): black

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes:
no water flowing out of pipe / pooled area - sample collected from.

PURGE VOLUME CALCULATIONS: DTW, TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: OS-9R | Site: SSFL |
| Sampler(s): Stephanie Lapoye Montrose (HGL) | Project No.: EP9038.01.22.04.02 |
| Sampler(s): Drew Lassen (MWH) | Date: 4/1/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): B | Time: 0800 |
| Sample ID: S00S-9R-GW04011 | Type of Pump: Westbay Pump System |
| Additional Samples (DUP/MSD/Blanks): 50 Rinse - 33-EB04011 | Sample Date: 4/1/11 |
| Additional Samples (DUP/MSD/Blanks): 50 Source - 33-EB04011 | Sample Time: 0920 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: 4/1/11 |
| Additional Samples (DUP/MSD/Blanks): | Sample Time: 1305 |
| Well Depth: 398 ft. bgs | Sample Date: 4/1/11 |
| Condition of Bottom of Well: Fair | Sample Time: 1305 |
| Screen Interval (ft): see ports listed below | DTW (ft): Top of casing |
| Well Diameter (in): 1 1/2" (casing) / 4" (well) | Type of Pump: Westbay Pump System |
| | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| | Clear, sunny, ~80°F |
| | Placement of Pump (ft) (Pump - NA) / Sampled out of Port #1 |

| DATE | TIME | DEPTH TO WATER (ft) | Fluid Pressure Readings | | TEMP. (°C) | COND. (UMHOS/CM) | ORP | DO (MG/L) | TURB. (NTU) | COMMENTS |
|--------|------|---------------------|-------------------------|--------------------|------------|------------------|-----|-----------|-------------|----------|
| | | | Flow Rate (GPM) | Total Volume (GAL) | | | | | | |
| 4/1/11 | 0838 | 391.2 | 183.70 | 204.64 | 20.90 | 16 | | | | |
| 4/1/11 | 0840 | 366.2 | 172.87 | 186.76 | 21.33 | 15 | | | | |
| 4/1/11 | 0840 | 346.2 | 164.29 | 177.79 | 21.52 | 14 | | | | |
| 4/1/11 | 0841 | 326.2 | 155.61 | 165.25 | 21.50 | 13 | | | | |
| 4/1/11 | 0842 | 301.1 | 144.75 | 154.26 | 21.43 | 12 | | | | |
| 4/1/11 | 0843 | 286.1 | 138.26 | 147.60 | 21.45 | 11 | | | | |
| 4/1/11 | 0844 | 266.1 | 129.60 | 138.71 | 21.36 | 10 | | | | |
| 4/1/11 | 0845 | 249.1 | 122.23 | 131.31 | 21.25 | QA3 | | | | |
| 4/1/11 | 0846 | 234.1 | 115.72 | 122.46 | 21.15 | 9 | | | | |
| 4/1/11 | 0847 | 212.1 | 106.20 | 114.39 | 21.04 | 8 | | | | |
| 4/1/11 | 0848 | 190.0 | 96.62 | 104.84 | 20.94 | 7 | | | | |
| 4/1/11 | 0848 | 164.0 | 85.39 | 93.10 | 20.74 | 6 | | | | |
| 4/1/11 | 0849 | 141.0 | 75.43 | 82.86 | 20.53 | 5 | | | | |
| 4/1/11 | 0850 | 123.0 | 67.60 | 74.40 | 20.24 | 4 | | | | |
| 4/1/11 | 0851 | 94.0 | 55.08 | 61.84 | 20.08 | QA2 | | | | |
| 4/1/11 | 0852 | 79.0 | 48.55 | 55.31 | 19.93 | 3 | | | | |
| 4/1/11 | 0852 | 57.9 | 39.42 | 40.87 | 19.69 | QA1 | | | | |
| 4/1/11 | 0854 | 45.9 | 34.21 | 35.70 | 19.47 | 2 | | | | |
| 4/1/11 | 0855 | 35.9 | 29.89 | 31.21 | 19.14 | 1 | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes: Ports separated by hydraulic inflatable packers
 4 cylinders take approx. 2-4 minutes for pressure build up and fill with water
 4 cylinders fill w 0.75 liter / Took ~14 times to collect full sample (sending down 4 cylinders well).
 DI lot # A047-27

PURGE VOLUME CALCULATIONS For: well casing volume = J(Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3) NA

Signed/Sampler(s): *[Signature]*

| | | |
|---|---|-------------------------------|
| Well No.: <u>05-10</u> | Site: <u>SSFL Radiological Survey Area IV NO2 (EPA Region 9)</u> | |
| Sampler(s): <u>Stephanie LePeyre Montoux (HGL)</u> | Project No.: <u>EP9038.01.22.04.02</u> | |
| Sampler(s): <u>Ben Stevens (Blaine Tech)</u> | Date: <u>4/18/11</u> | Time: <u>1530</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>G</u> | Type of Pump: <u>artesian</u> | |
| Sample ID: <u>5005-10-GW041811</u> | Sample Date: <u>4/18/11</u> | Sample Time: <u>1535</u> |
| Additional Samples (DUP/MSD/Blanks): <u>—</u> | Sample Date: <u>—</u> | Sample Time: <u>—</u> |
| Additional Samples (DUP/MSD/Blanks): <u>—</u> | Sample Date: <u>—</u> | Sample Time: <u>—</u> |
| Additional Samples (DUP/MSD/Blanks): <u>—</u> | Sample Date: <u>—</u> | Sample Time: <u>—</u> |
| Well Depth: <u>600</u> | DTW (ft): <u>—</u> | Type of Pump: <u>artesian</u> |
| Condition of Bottom of Well: <u>—</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>overcast, ~70°F</u> | |
| Screen Interval (ft): <u>open hole</u> | Placement of Pump (ft) <u>artesian</u> | |
| Well Diameter (in): <u>18 & 12 (borehole)</u> | | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB. (N.T.U.) | COMMENTS |
|----------------|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|---------------------------|-------------|----------------|----------|
| <u>4/18/11</u> | <u>1545</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>8.00</u> | <u>18.72</u> | <u>699</u> | <u>0.86</u> <u>-86</u> | <u>4.00</u> | <u>5999</u> | <u>Ⓞ</u> |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes: no flowing water - collected sample from ponded area

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|------------------------|
| Well No.: RD-59A | Site: SSFL Radiological Survey Area 10/NOZ (EPA Reg 604) | |
| Sampler(s): Stephanie Laporte-Morin (HGL) | Project No.: 09058.01.22.04.02 | |
| Sampler(s): Dan Stevens (Blaine Tech) | Date: 4/18/11 | Time: 1015 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): G | Type of Pump: | arterien |
| Sample ID: SORD-59A-GW041811 | Sample Date: 4/18/11 | Sample Time: 1115 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 58 | DTW (ft): 30.58 | Type of Pump: arterien |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): open hole | overcast, cool (~70°F) | |
| Well Diameter (in): 17 1/2 & 6 1/2 (borehole diam) | Placement of Pump (ft): | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|-------------|
| 4/18/11 | 1020 | 30.58 | 3 | | | | | | | | Start purge |
| 4/18/11 | 1030 | 40.53 | 3 | 30 | 7.66 | 16.48 | 1083 | 72 | 4.83 | 20.0 | |
| 4/18/11 | 1040 | 42.15 | 3 | 60 | 6.99 | 16.73 | 1085 | 56 | 3.51 | 23.7 | |
| 4/18/11 | 1050 | 42.87 | 3 | 90 | 7.03 | 17.01 | 1045 | 43 | 3.14 | 28.3 | |
| 4/18/11 | 1100 | 42.90 | 3 | 120 | 7.04 | 16.97 | 1087 | 27 | 2.92 | 27.9 | |
| 4/18/11 | 1110 | 42.90 | 3 | 150 | 7.06 | 17.06 | 1086 | 25 | 2.91 | 27.3 | |
| 4/18/11 | 1115 | 42.90 | 3 | 165 | 7.05 | 17.08 | 1087 | 25 | 2.90 | 25.1 | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes:

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|--|--|------------------------|
| Well No.: RD-59B | Site: SSFL Radiological Survey Area 10/NDZ (EPA Region 9) | |
| Sampler(s): Stephane Lapeyre Norton (UGL) | Project No.: EP9038.01.22.04.02 | |
| Sampler(s): Ben Stevens (Blow Tech) | Date: 4/18/11 | Time: 0900 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): G | Type of Pump: | artesian |
| Sample ID: SORD-59B-GW041811 | Sample Date: 4/18/11 | Sample Time: 0925 |
| Additional Samples (DUP/MSD/Blanks): SORD-59B-GW041811 | Sample Date: 4/18/11 | Sample Time: 0925 |
| Additional Samples (DUP/MSD/Blanks): SORD-59B-GW041811 | Sample Date: 4/18/11 | Sample Time: 0925 |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: | Sample Time: |
| Well Depth: 214 | DTW (ft): | Type of Pump: artesian |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): 178-209 | overcast, cool (~70°F) | |
| Well Diameter (in): 17 1/2" / 6 1/2" (borehole diam) | Placement of Pump (ft): artesian | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|---------------|
| 4/18/11 | 0905 | — | 10 | — | — | — | — | — | — | — | → start purge |
| 4/18/11 | 0910 | — | 10 | — | 7.19 | 18.80 | 773 | 71 | 2.40 | 69.2 | |
| 4/18/11 | 0913 | — | 10 | — | 7.30 | 18.75 | 775 | 65 | 4.67 | 77.8 | |
| 4/18/11 | 0916 | — | 10 | — | 7.43 | 18.63 | 709 | 29 | 4.18 | 53.0 | |
| 4/18/11 | 0919 | — | 10 | — | 7.45 | 18.56 | 770 | 27 | 4.24 | 49.0 | |
| 4/18/11 | 0922 | — | 10 | — | 7.46 | 18.62 | 775 | 26 | 4.19 | 48.5 | |
| Empty rows with a large diagonal line through them. | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes:

End Sampling 0935

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

| | |
|--|---|
| Well No.: RD-59C | Site: ESFL Radiological Survey Area 10/MSZ (EPA Region 9) |
| Sampler(s): Stephanie (open) Norton (MIG) | Project No.: 69038.01.22.04.02 |
| Sampler(s): Ben Stearns (Blain Tech) | Date: 4/18/11 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): G | Time: 0935 |
| Sample ID: SORO-59C - GW 041811 | Type of Pump: artesian |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: 4/18/11 |
| Additional Samples (DUP/MSD/Blanks): — | Sample Time: 0952 |
| Additional Samples (DUP/MSD/Blanks): — | Sample Date: — |
| Additional Samples (DUP/MSD/Blanks): — | Sample Time: — |
| Well Depth: 398 | DTW (ft): — |
| Condition of Bottom of Well: — | Type of Pump: artesian |
| Screen Interval (ft): 345.5 - 397 | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): overcast cool (47.0°F) |
| Well Diameter (in): 345.5 @ 17 1/2 + 6 1/2 (borehole diameter) | Placement of Pump (ft): artesian |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|---------|------------|------------------|------|-------------|---------------|-------------|
| 4/13/11 | 0939 | — | 2 | PH | Temp | — | — | — | — | — | Start purge |
| 4/18/11 | 0942 | — | 2 | 7.56 | 16.49°C | 804 | 0.44 | 3.20 | 18.5 | | |
| 4/18/11 | 0945 | — | 2 | 7.69 | 16.97°C | 805 | 0.50 | 3.48 | 18.8 | | |
| 4/18/11 | 0948 | — | 2 | 7.68 | 17.03°C | 800 | 0.48 | 3.55 | 20.5 | | |
| 4/18/11 | 0951 | — | 2 | 7.70 | 17.09°C | 805 | 0.47 | 3.57 | 23.3 | | |

OBSERVATIONS

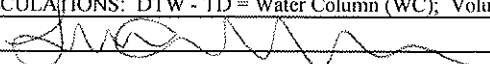
Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes:
End Sampling: 1002

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): 

| | | |
|---|--|--|
| Well No.: <u>RD-68A</u> | Site: <u>S>FL Radiological Survey Area 10 / NAE (EPA Region 9)</u> | |
| Sampler(s): <u>Stephanie LePage Montrose (MGI)</u> | Project No.: <u>EP9038.01.22.04.02</u> | |
| Sampler(s): <u>Ben Stevens (Blaine Tech)</u> | Date: <u>4/18/11</u> | Time: <u>1325</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>G</u> | Type of Pump: <u>artesian</u> | <u>1355</u> @ |
| Sample ID: <u>SORD-68A-GW047811</u> | Sample Date: <u>4/18/11</u> | Sample Time: <u>1355</u> 1420 |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Well Depth: <u>90</u> | DTW (ft): <u>---</u> | Type of Pump: <u>artesian</u> |
| Condition of Bottom of Well: <u>---</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): <u>overcast ~ 70° F</u> | |
| Screen Interval (ft): <u>Open hole</u> | Placement of Pump (ft): <u>artesian</u> | |
| Well Diameter (in): <u>17 1/2 + 6 1/4 (borehole diam)</u> | | |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|---------|------|---------------------|-----------------|--------------------|-------------|--------------|------------------|-------------|-------------|---------------|----------|
| 4/18/11 | 1327 | <u>---</u> | <u>1.5</u> | <u>4.5</u> | <u>8.19</u> | <u>16.40</u> | <u>632</u> | <u>-170</u> | <u>5.55</u> | <u>30.2</u> | |
| 4/18/11 | 1330 | <u>---</u> | <u>1.5</u> | <u>9</u> | <u>8.25</u> | <u>17.26</u> | <u>628</u> | <u>-202</u> | <u>2.90</u> | <u>14.0</u> | |
| 4/18/11 | 1333 | <u>---</u> | <u>1.5</u> | <u>13.5</u> | <u>8.24</u> | <u>17.16</u> | <u>626</u> | <u>-204</u> | <u>2.83</u> | <u>14.6</u> | |
| 4/18/11 | 1336 | <u>---</u> | <u>1.5</u> | <u>18</u> | <u>8.21</u> | <u>17.20</u> | <u>627</u> | <u>-207</u> | <u>2.87</u> | <u>14.4</u> | |
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OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes:

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | | |
|---|--|---|
| Well No.: <u>RO-68B</u> | Site: <u>SSFL Radiological Survey Area 10/NB2 (EPA Region 9)</u> | |
| Sampler(s): <u>Stephanie Lepore Montrose (UIC)</u> | Project No.: <u>EP9038.01.22.04.02</u> | |
| Sampler(s): <u>Ben Stevens (Chain Tech)</u> | Date: <u>4/18/11</u> | Time: <u>1355</u> |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): <u>G</u> | Type of Pump: | <u>artesian</u> |
| Sample ID: <u>SOAD-68B-GW041811</u> | Sample Date: <u>4/18/11</u> | Sample Time: <u>1420 ⁽¹⁴⁷⁰⁾ 1550</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Additional Samples (DUP/MSD/Blanks): <u>---</u> | Sample Date: <u>---</u> | Sample Time: <u>---</u> |
| Well Depth: <u>272</u> | DTW (ft): <u>---</u> | Type of Pump: <u>artesian</u> |
| Condition of Bottom of Well: <u>---</u> | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): | |
| Screen Interval (ft): <u>240-270</u> | <u>overcast, 47°F</u> | |
| Well Diameter (in): <u>1 7/8 (core hole diam.)</u> | Placement of Pump (ft) | <u>---</u> |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (FT) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MGL) | TURB (N.T.U.) | COMMENTS |
|----------------|-------------|---------------------|-----------------|--------------------|-------------|--------------|------------------|-------------|-------------|---------------|----------|
| <u>4/18/11</u> | <u>1357</u> | <u>---</u> | <u>3</u> | <u>9</u> | <u>7.67</u> | <u>19.20</u> | <u>814</u> | <u>-137</u> | <u>4.32</u> | <u>13.1</u> | |
| <u>4/18/11</u> | <u>1400</u> | <u>---</u> | <u>3</u> | <u>18</u> | <u>7.40</u> | <u>19.40</u> | <u>870</u> | <u>-138</u> | <u>3.34</u> | <u>8.1</u> | |
| <u>4/18/11</u> | <u>1403</u> | <u>---</u> | <u>3</u> | <u>27</u> | <u>7.37</u> | <u>19.40</u> | <u>815</u> | <u>-137</u> | <u>3.29</u> | <u>10.6</u> | |
| <u>4/18/11</u> | <u>1406</u> | <u>---</u> | <u>3</u> | <u>36</u> | <u>7.36</u> | <u>19.41</u> | <u>817</u> | <u>-135</u> | <u>3.34</u> | <u>11.3</u> | |
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OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: N/A

Notes:

PURGE VOLUME CALCULATIONS: DTW - TD = Water Column (WC); Volume of water = (WC)(x) [note: x = 0.163 for 2"; x = 0.653 for 4"]

Signed/Sampler(s): [Signature]

GROUNDWATER FIELD SAMPLING DATA SHEET

| | |
|---|--|
| Well No.: WS-09A | Site: SSFL Radiological Survey Area IV 0382 (EPA Region 9) |
| Sampler(s): Stephanie Lopez-Morales (HGL) | Project No.: EP9038.01.22.04.02 |
| Sampler(s): Andy Wolfe (Glenn Tech) / Rob Ellis (MWH) | Date: 6/3/11 Time: 1025 |
| Sampling Method (G=grab, B=bailer, SP=submersible pump): G | Type of Pump: \rightarrow Hooked up to the Area 1 GET system |
| Sample ID: SOWS-09A-GW060311 | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Additional Samples (DUP/MSD/Blanks): | Sample Date: Sample Time: |
| Well Depth: 511 | DTW (ft): 26.82 Type of Pump: |
| Condition of Bottom of Well: | Weather (sun/clear, overcast/rain, wind direction, ambient temperature): |
| Screen Interval (ft): 0-34 (S) 20-539 | Sunny, clear, warm (~75°F) |
| Well Diameter (in): 14 (0-34); 12 1/8 (0-541); (casing) 8 1/4 (0-539) | Placement of Pump (ft) |

FIELD PARAMETERS

| DATE | TIME | DEPTH TO WATER (ft) | FLOW RATE (GPM) | TOTAL VOLUME (GAL) | PH | TEMP. (°C) | COND. (UMHOS/CM) | ORP | D.O. (MG/L) | TURB (N.T.U.) | COMMENTS |
|--------|------|---------------------|-----------------|--------------------|------|------------|------------------|-----|-------------|---------------|----------|
| 6/3/11 | 0935 | 26.82 | 32.37 | 91,000 | 6.75 | 15.13 | 654 | -24 | 3.13 | 2 | |
| | | | | | | | | | | | |

OBSERVATIONS

Color: Clear Other (describe):

Odor (circle one): None Low Medium High Very strong H2S Fuel-like

PID reading: NA

Notes:

* WS-09A is continuously pumping - since start up early this week it has pumped 91,000 gallons

PURGE VOLUME CALCULATIONS For: well casing volume = J (Rc)2 (well depth - static H2O depth) x (conversion 7.48 gal/ft3)

Signed/Sampler(s): [Signature]

APPENDIX B

GAUGING EVENT DATA SHEETS

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Table B.1
Well Gauging Data
Groundwater Sampling

| Well Identification | Measuring Point Elevation (ft above MSL) | July 2010 Gauging Event | | | January 2011 Gauging Event | | | March 2011 Gauging Event | | | Comments |
|---------------------|--|-------------------------|-------------------------------|--------------------------------------|----------------------------|-------------------------------|--------------------------------------|--------------------------|-------------------------------|--------------------------------------|---|
| | | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | |
| RD-07 | NA | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-13 | 1840.27 | 07/21/10 | 63.09 | 1777.18 | 01/11/11 | 64.73 | 1775.54 | 03/16/11 | 64.34 | 1775.93 | |
| RD-14 | 1824.29 | 07/21/10 | 82.58 | 1741.71 | 01/10/11 | 82.88 | 1741.41 | 03/16/11 | 82.56 | 1741.73 | |
| RD-15 | 1817.7 | 07/21/10 | 49.78 | 1767.92 | 01/10/11 | 50.48 | 1767.22 | 03/16/11 | 47.30 | 1770.40 | |
| RD-16 | 1808.99 | 07/21/10 | 47.42 | 1761.57 | 01/10/11 | 46.31 | 1762.68 | 03/16/11 | 44.91 | 1764.08 | |
| RD-17 | 1836.3 | 07/21/10 | 28.9 | 1807.4 | 01/10/11 | 28.06 | 1808.24 | 03/16/11 | 26.50 | 1809.80 | |
| RD-18 | 1839.49 | 07/21/10 | 91.15 | 1748.34 | 01/10/11 | 92.41 | 1747.08 | 03/16/11 | 91.72 | 1747.77 | |
| RD-19 | 1853.13 | 07/21/10 | 76.4 | 1776.73 | 01/10/11 | 63.18 | 1789.95 | 03/16/11 | 74.10 | 1779.03 | |
| RD-20 | 1819.72 | 07/21/10 | 43.66 | 1776.06 | 01/11/11 | 44.12 | 1775.60 | 03/16/11 | 42.28 | 1777.44 | |
| RD-21 | 1866.96 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-22 | 1853.41 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-23 | 1838.19 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-24 | 1809.93 | 07/21/10 | 39.13 | 1770.8 | 01/10/11 | 39.25 | 1770.68 | 03/16/11 | 38.00 | 1771.93 | |
| RD-25 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Abandoned 4/2004 as part of Building 4059 demolition. |
| RD-27 | 1841.67 | 07/21/10 | 52.44 | 1789.23 | 01/10/11 | 52.70 | 1788.97 | 03/16/11 | 50.37 | 1791.30 | |
| RD-28 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Abandoned 4/2004 as part of Building 4059 demolition. |
| RD-29 | 1806.29 | 07/21/10 | 15.33 | 1790.96 | 01/10/11 | 11.39 | 1794.90 | 03/16/11 | 11.09 | 1795.20 | |
| RD-30 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Well capped. |
| RD-33A | 1792.97 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-33B | 1793.21 | 07/21/10 | 282.87 | 1510.34 | 01/11/11 | 281.99 | 1511.22 | 03/16/11 | 281.44 | 1511.77 | |
| RD-33C | 1793.54 | 07/21/10 | 284.05 | 1509.49 | 01/11/11 | 283.42 | 1510.12 | 03/16/11 | 282.94 | 1510.60 | |
| RD-34A | 1761.83 | 07/21/10 | 39.66 | 1722.17 | 01/10/11 | 43.52 | 1718.31 | 03/16/11 | 34.16 | 1727.67 | |
| RD-34B | 1762.51 | 07/21/10 | 42.51 | 1720 | 01/10/11 | 46.72 | 1715.79 | 03/16/11 | 38.80 | 1723.71 | |
| RD-34C | 1762.6 | 07/21/10 | 10.73 | 1751.87 | 01/10/11 | 12.58 | 1750.02 | 03/16/11 | 10.43 | 1752.17 | |
| RD-50 | 1914.88 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-54A | 1841.72 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-54B | 1842.54 | 07/21/10 | 246.03 | 1596.51 | 01/11/11 | 247.11 | 1595.43 | 03/16/11 | 247.03 | 1595.51 | |
| RD-54C | 1843.77 | 07/21/10 | 229.45 | 1614.32 | 01/10/11 | 228.42 | 1615.35 | 03/16/11 | 228.23 | 1615.54 | |
| RD-56A | 1758.62 | 07/21/10 | 317.51 | 1441.11 | 01/10/11 | 318.90 | 1439.72 | 03/16/11 | 314.01 | 1444.61 | |
| RD-56B | 1761.83 | 07/21/10 | 174.25 | 1587.58 | 01/10/11 | 173.89 | 1587.94 | 03/16/11 | 170.86 | 1590.97 | |
| RD-57 | 1774.15 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |

**Table B.1
Well Gauging Data
Groundwater Sampling**

| Well Identification | Measuring Point Elevation (ft above MSL) | July 2010 Gauging Event | | | January 2011 Gauging Event | | | March 2011 Gauging Event | | | Comments |
|---------------------|--|-------------------------|-------------------------------|--------------------------------------|----------------------------|-------------------------------|--------------------------------------|--------------------------|-------------------------------|--------------------------------------|--|
| | | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | |
| RD-63 | 1764.85 | 07/21/10 | 22.1 | 1742.75 | 01/10/11 | NG | NG | 03/16/11 | 17.70 | 1747.15 | Could not access well. |
| RD-64 | 1857.04 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-65 | 1819.14 | 07/21/10 | NA | NA | 01/11/11 | NA | NA | 03/16/11 | NA | NA | FLUTe™ |
| RD-70 | 1732.26 | 07/21/10 | 144.51 | 1587.75 | 01/10/11 | 143.22 | 1589.04 | 03/16/11 | 141.28 | 1590.98 | |
| RD-74 | 1810.9 | 07/21/10 | Dry | Dry | 01/11/11 | 30.58 | 1780.32 | 03/16/11 | 32.34 | 1778.56 | Well damaged. Could not insert pump or bailer. |
| RD-85 | 1849.09 | 07/21/10 | 59.2 | 1789.89 | 01/10/11 | 59.01 | 1790.08 | 03/16/11 | 59.13 | 1789.96 | |
| RD-86 | 1830.51 | 07/21/10 | 35.81 | 1794.7 | 01/10/11 | 38.24 | 1792.27 | 03/16/11 | 29.43 | 1801.08 | |
| RD-87 | 1789.09 | 07/21/10 | 46.7 | 1742.39 | 01/10/11 | 47.08 | 1742.01 | 03/16/11 | 45.73 | 1743.36 | |
| RD-88 | 1774.62 | 07/21/10 | 26.09 | 1748.53 | 01/10/11 | 22.63 | 1751.99 | 03/16/11 | 22.47 | 1752.15 | |
| RD-89 | 1814.18 | 07/21/10 | 26.09 | 1788.09 | 01/10/11 | 41.96 | 1772.22 | 03/16/11 | 39.72 | 1774.46 | Well damaged. Bentonite on end of water level probe. |
| RD-90 | 1784.75 | 07/21/10 | 32.92 | 1751.83 | 01/10/11 | 31.83 | 1752.92 | 03/16/11 | 30.88 | 1753.87 | |
| RD-91 | 1818.04 | 07/21/10 | 48.54 | 1769.5 | 01/11/11 | 60.82 | 1757.22 | 03/16/11 | 30.08 | 1787.96 | |
| RD-92 | 1833.74 | 07/21/10 | 60.88 | 1772.86 | 01/10/11 | 60.41 | 1773.33 | 03/16/11 | 60.30 | 1773.44 | |
| RD-93 | 1810.48 | 07/21/10 | 34.58 | 1775.9 | 01/10/11 | 30.68 | 1779.80 | 03/16/11 | 33.43 | 1777.05 | |
| RD-94 | 1744.38 | 07/21/10 | 17.11 | 1727.27 | 01/10/11 | 16.89 | 1727.49 | 03/16/11 | 13.23 | 1731.15 | |
| RD-95 | 1811.36 | 07/21/10 | 52.71 | 1758.65 | 01/10/11 | 53.49 | 1757.87 | 03/16/11 | 32.58 | 1778.78 | |
| RD-96 | 1805.14 | 07/21/10 | 59.95 | 1745.19 | 01/11/11 | 62.91 | 1742.23 | 03/16/11 | 60.17 | 1744.97 | |
| RD-97 | 1792.22 | 07/21/10 | Dry | Dry | 01/11/11 | 51.63 | 1740.59 | 03/16/11 | 47.26 | 1744.96 | |
| RD-98 | 1808.73 | 07/21/10 | 39.41 | 1769.32 | 01/10/11 | 36.98 | 1771.75 | 03/16/11 | 32.83 | 1775.90 | |
| RS-11 | 1790.39 | 07/21/10 | 16.55 | 1773.84 | 01/10/11 | 14.63 | 1775.76 | 03/16/11 | 11.10 | 1779.29 | |
| RS-16 | 1811.05 | 07/21/10 | Dry | Dry | 01/11/11 | Dry | Dry | 03/16/11 | Dry | Dry | |
| RS-18 | 1802.86 | 07/21/10 | 11.8 | 1791.06 | 01/11/11 | 5.82 | 1797.04 | 03/16/11 | 4.67 | 1798.19 | |
| RS-23 | 1887.25 | 07/21/10 | Dry | Dry | 01/11/11 | 14.52 | 1872.73 | 03/16/11 | Dry | Dry | |
| RS-24 | 1809.24 | 07/21/10 | Dry | Dry | 01/10/11 | Dry | Dry | 03/16/11 | Dry | Dry | |
| RS-25 | 1862.71 | 07/21/10 | 14.54 | 1848.17 | 01/10/11 | 12.95 | 1849.76 | 03/16/11 | 13.46 | 1849.25 | |
| RS-27 | 1804.78 | 07/21/10 | Dry | Dry | 01/10/11 | 9.05 | 1795.73 | 03/16/11 | 8.99 | 1795.79 | |
| RS-28 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Well capped. |
| RS-54 | 1846.66 | 07/21/10 | 33.85 | 1812.81 | 01/11/11 | 22.68 | 1823.98 | 03/16/11 | 19.37 | 1827.29 | |
| PZ-005 | 1800.97 | 07/21/10 | 17.65 | 1783.32 | 01/11/11 | 16.27 | 1784.70 | 03/16/11 | 14.76 | 1786.21 | |
| PZ-041 | 1809.1 | 07/21/10 | 12.17 | 1796.93 | 01/10/11 | 12.92 | 1796.18 | 03/16/11 | 7.68 | 1801.42 | |
| PZ-051 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Well casing bent, could not insert pump or bailer. |

**Table B.1
Well Gauging Data
Groundwater Sampling**

| Well Identification | Measuring Point Elevation (ft above MSL) | July 2010 Gauging Event | | | January 2011 Gauging Event | | | March 2011 Gauging Event | | | Comments |
|---------------------|--|-------------------------|-------------------------------|--------------------------------------|----------------------------|-------------------------------|--------------------------------------|--------------------------|-------------------------------|--------------------------------------|--|
| | | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | |
| PZ-052 | 1790.72 | 07/21/10 | 24.03 | 1766.69 | 01/10/11 | 23.75 | 1766.97 | 03/16/11 | 21.60 | 1769.12 | |
| PZ-055 | 1818.4 | 07/21/10 | 32.07 | 1786.33 | 01/10/11 | 32.16 | 1786.24 | 03/16/11 | 32.12 | 1786.28 | |
| PZ-056 | 1805.86 | 07/21/10 | 30.05 | 1775.81 | 01/10/11 | 12.71 | 1793.15 | 03/16/11 | 13.97 | 1791.89 | |
| PZ-073 | 1760.54 | 07/21/10 | Dry | Dry | 01/10/11 | Dry | Dry | 03/16/11 | Dry | Dry | |
| PZ-097 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Well casing bent, could not insert pump or bailer. |
| PZ-098 | 1797.78 | 07/21/10 | 27.05 | 1770.73 | 01/11/11 | 24.90 | 1772.88 | 03/16/11 | 21.17 | 1776.61 | |
| PZ-099 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Well has been abandoned. |
| PZ-100 | 1870.11 | 07/21/10 | 12.12 | 1857.99 | 01/11/11 | 10.18 | 1859.93 | 03/16/11 | 10.41 | 1859.70 | |
| PZ-101 | 1869.71 | 07/21/10 | 22.34 | 1847.37 | 01/11/11 | 10.08 | 1859.63 | 03/16/11 | 10.88 | 1858.83 | |
| PZ-102 | 1827.78 | 07/21/10 | 60.14 | 1767.64 | 01/11/11 | 54.56 | 1773.22 | 03/16/11 | 52.34 | 1775.44 | |
| PZ-103 | 1815.93 | 07/21/10 | 26.22 | 1789.71 | 01/11/11 | 25.43 | 1790.50 | 03/16/11 | 24.65 | 1791.28 | |
| PZ-104 | NA | NG | NG | NG | NG | NG | NG | 03/16/11 | 18.61 | 18.61 | Well damaged, casing bent. |
| PZ-105 | 1803.87 | 07/21/10 | 18.12 | 1785.75 | 01/11/11 | 18.36 | 1785.51 | 03/16/11 | 15.56 | 1788.31 | |
| PZ-106 | 1784.17 | 07/21/10 | 17.1 | 1767.07 | 01/11/11 | 17.70 | 1766.47 | 03/16/11 | 12.62 | 1771.55 | |
| PZ-107 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Well damaged, casing bent. |
| PZ-108 | 1763.01 | 07/21/10 | 12.13 | 1750.88 | 01/11/11 | 8.80 | 1754.21 | 03/16/11 | 8.34 | 1754.67 | |
| PZ-109 | 1809.51 | 07/21/10 | 14.77 | 1794.74 | 01/11/11 | 15.20 | 1794.31 | 03/16/11 | 13.90 | 1795.61 | |
| PZ-110 | 1818.9 | 07/21/10 | Dry | Dry | 01/10/11 | Dry | Dry | 03/16/11 | Dry | Dry | |
| PZ-111 | 1794.9 | 07/21/10 | 20.04 | 1774.86 | 01/10/11 | 20.15 | 1774.75 | 03/16/11 | 20.08 | 1774.82 | |
| PZ-112 | 1829.14 | 07/21/10 | 28.2 | 1800.94 | 01/10/11 | 27.75 | 1801.39 | 03/16/11 | 24.07 | 1805.07 | |
| PZ-113 | 1823.68 | 07/21/10 | 16.72 | 1806.96 | 01/10/11 | 8.32 | 1815.36 | 03/16/11 | 10.10 | 1813.58 | |
| PZ-114 | 1818.19 | 07/21/10 | 49.74 | 1768.45 | 01/10/11 | 50.30 | 1767.89 | 03/16/11 | 49.77 | 1768.42 | |
| PZ-115 | NA | NG | NG | NG | NG | NG | NG | NG | NG | NG | Well casing melted during fire. |
| PZ-116 | 1827.78 | 07/21/10 | Dry | Dry | 01/10/11 | Dry | Dry | 03/16/11 | 27.41 | 1800.37 | |
| PZ-120 | 1810.96 | 07/21/10 | 16.9 | 1794.06 | 01/10/11 | 14.75 | 1796.21 | 03/16/11 | 13.30 | 1797.66 | |
| PZ-121 | 1808.98 | 07/21/10 | 18.5 | 1790.48 | 01/10/11 | 19.60 | 1789.38 | 03/16/11 | 18.05 | 1790.93 | |
| PZ-122 | 1810.8 | 07/21/10 | 16.31 | 1794.49 | 01/10/11 | 11.75 | 1799.05 | 03/16/11 | 11.70 | 1799.10 | |
| PZ-124 | 1764.11 | 07/21/10 | 27.94 | 1736.17 | 01/11/11 | 27.92 | 1736.19 | 03/16/11 | 26.60 | 1737.51 | |
| PZ-143 | 1849.84 | 07/21/10 | Dry | Dry | 01/10/11 | Dry | Dry | 03/16/11 | Dry | Dry | |
| PZ-150 | 1852.23 | 07/21/10 | 25.72 | 1826.51 | 01/10/11 | 18.82 | 1833.41 | 03/16/11 | 19.05 | 1833.18 | |
| PZ-151 | 1862.6 | 07/21/10 | 78.53 | 1784.07 | 01/10/11 | 77.61 | 1784.99 | 03/16/11 | 77.79 | 1784.81 | |

**Table B.1
Well Gauging Data
Groundwater Sampling**

| Well Identification | Measuring Point Elevation (ft above MSL) | July 2010 Gauging Event | | | January 2011 Gauging Event | | | March 2011 Gauging Event | | | Comments |
|---------------------|--|-------------------------|-------------------------------|--------------------------------------|----------------------------|-------------------------------|--------------------------------------|--------------------------|-------------------------------|--------------------------------------|--|
| | | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | Date Gauged | Depth to Water (ft below TOC) | Groundwater Elevation (ft above MSL) | |
| PZ-160 | 1851.41 | 07/21/10 | 26.13 | 1825.28 | 01/10/11 | 29.02 | 1822.39 | 03/16/11 | 24.57 | 1826.84 | |
| PZ-161 | 1852.23 | 07/21/10 | 25.07 | 1827.16 | 01/10/11 | 27.80 | 1824.43 | 03/16/11 | 24.51 | 1827.72 | |
| ES-31 | 1787.01 | 07/21/10 | 15.9 | 1771.11 | 01/10/11 | 10.21 | 1776.80 | 03/16/11 | 9.92 | 1777.09 | |
| WS-07 | 1826.19 | 07/21/10 | 58.65 | 1767.54 | 01/10/11 | 58.91 | 1767.28 | 03/16/11 | 55.44 | 1770.75 | |
| OS-2 | 1237.01 | NG | NG | NG | 01/10/11 | Flowing | NG | NG | NG | NG | Artesian well, water flowing at the surface. |
| OS-03 | 1298.15 | NG | NG | NG | 01/10/11 | Flowing | NG | NG | NG | NG | Artesian well, water flowing at the surface. |
| OS-04 | 1334 | NG | NG | NG | 01/10/11 | Flowing | NG | NG | NG | NG | Artesian well, water flowing at the surface. |
| OS-05 | NA | NG | NG | NG | 01/10/11 | Flowing | NG | NG | NG | NG | Artesian well, water flowing at the surface. |
| OS-9 | NA | NG | NG | NG | 01/10/11 | Flowing | NG | NG | NG | NG | Artesian well, water flowing at the surface. |
| RD-59A | 1340.5 | NG | NG | NG | 01/10/11 | 28.23 | 1312.27 | NG | NG | NG | |
| RD-59B | 1342.49 | NG | NG | NG | 01/10/11 | NA | NG | NG | NG | NG | Well capped - pressure gauge 17.5 psi. |
| RD-59C | 1345.41 | NG | NG | NG | 01/10/11 | NA | NG | NG | NG | NG | Well capped - pressure gauge 17.5 psi. |
| RD-68A | 1307.64 | NG | NG | NG | 01/10/11 | NA | NG | NG | NG | NG | Well capped - pressure gauge 4.0 psi. |
| RD-68B | 1312.44 | NG | NG | NG | 01/10/11 | NA | NG | NG | NG | NG | Well capped - pressure gauge 2.0 psi. |
| WS-09A | 1647.61 | NG | NG | NG | 01/10/11 | 23.10 | 1624.51 | NG | NG | NG | Flow meter - 33 gallons per minute. |

Notes:

Shaded rows indicate wells that have been abandoned or damaged and could not be sampled.

ft - feet

FLUTE™ - Flexible Liner Underground Technologies

GW - groundwater

MSL - mean sea level

NA - Not applicable

NG - Not gauged

psi - pounds per square inch

TOC - top of casing

SSFL Area IV Study Area Gauging Event Data Sheet TSW 7/21/10

| Well ID | DTW | DTB | Date | Time | Comments |
|------------------|------------------|--------|--------------------|-----------------|---|
| RD-93 | 34.58 | 60.00 | 7/21/10 | 0755 | |
| RD-87 | 46.70 | 60.00 | 7/21/10 | 0800 | |
| RD-95 | 52.71 | | 7/21/10 | 0815 | TSW |
| RD-90 | 32.92 | 125.00 | 7/21/10 | 0816 | |
| RD-89 | 26.09 | — | 7/21/10 | 0833 | Well damaged - Bentonite on the end of probe. Could not get total depth |
| RD-95 | 52.71 | 80.00 | 7/21/10 | 0835 | |
| RD-94 | 17.11 | 35.00 | 7/21/10 | 0852 | |
| PZ-106 | 17.10 | 35.00 | 7/21/10 | 0856 | |
| RS-11 | 16.55 | 17.50 | 7/21/10 | 0910 | |
| ES-31 | 15.90 | 25.00 | 7/21/10 | 0917 | |
| PZ-110 | DRY | 20.10 | 7/21/10 | 0928 | 2" well - DRY |
| PZ-111 | 20.04 | 20.30 | 7/21/10 | 0943 | DRY |
| PZ-052 | 24.03 | 31.34 | 7/21/10 | 0950 | 2" well |
| RD-16 | 47.42 | 220.00 | 7/21/10 | 0958 | well w/ 2" opening and 1" gauging tube |
| RS-24 | DRY | 8.45 | 7/21/10 | 1002 | DRY |
| PZ-113 | 16.72 | 17.02 | 7/21/10 | 1009 | DRY TSW Very little water |
| PZ-055 | 32.07 | 32.35 | 7/21/10 | 1016 | DRY TSW Very little water |
| RD-86 | 35.81 | 80.00 | 7/21/10 | 1033 | |
| RD-85 | 59.20 | 90.00 | 7/21/10 | 1038 | |
| RD-19 | 76.40 | 135.00 | 7/21/10 | 1047 | |
| RD-34c | 10.73 | 450.00 | 7/21/10 | 1102 | |
| RD-96 | 59.95 | 90.00 | 7/21/10 | 1112 | |
| PZ-124 | 27.94 | 28.33 | 7/21/10 | 1127 | DRY: Access by going E then N, then W |
| RD-33c | 284.05 | 520.00 | 7/21/10 | 1145 | |
| RD-13 | 63.09 | 160.00 | 7/21/10 | 1155 | |

SSFL Area IV Study Area Gauging Event Data Sheet TSW 7/21/10

| Well ID | DTW | DTB | Date | Time | Comments |
|---------|-------|--------|---------|------|------------------------------------|
| RS-27 | DRY | 9.87 | 7/21/10 | 1231 | DRY |
| RD-29 | 15.33 | 100.00 | 7/21/10 | 1234 | |
| PZ-122 | 16.31 | 27.50 | 7/21/10 | 1238 | |
| PZ-120 | 16.90 | 26.00 | 7/21/10 | 1241 | |
| RD-24 | 39.13 | 150.00 | 7/21/10 | 1252 | |
| PZ-109 | 14.77 | 36.50 | 7/21/10 | 1302 | |
| PZ-005 | 17.65 | 45.00 | 7/21/10 | 1306 | |
| RD-20 | 43.66 | 127.00 | 7/21/10 | 1311 | |
| RS-16 | DRY | 19.11 | 7/21/10 | 1318 | DRY |
| RD-74 | DRY | 101.00 | 7/21/10 | 1326 | Well damaged - Blockage @ 70.61 ft |
| RD-97 | DRY | 74.50 | 7/21/10 | 1335 | DRY |
| RD-17 | 28.90 | 125.00 | 7/21/10 | 1346 | |
| RD-27 | 52.44 | 150.00 | 7/21/10 | 1400 | RMHF |
| PZ-121 | 18.50 | 33.00 | 7/21/10 | 1409 | |
| PZ-108 | 12.13 | 30.00 | 7/21/10 | 1416 | |
| PZ-041 | 12.17 | 29.60 | 7/21/10 | 1422 | |
| PZ-160 | 26.13 | 29.58 | 7/21/10 | 1431 | |
| PZ-161 | 25.07 | 30.07 | 7/21/10 | 1436 | 4" Well |
| PZ-150 | 25.72 | 30.48 | 7/21/10 | 1440 | |
| RS-25 | 14.54 | 16.00 | 7/21/10 | 1446 | |
| RD-98 | 39.41 | 65.00 | 7/21/10 | 1455 | 8" Metal Casing |
| WS-07 | 58.65 | 700.00 | 7/21/10 | 1503 | |
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SSFL Area IV Study Area Gauging Event Data Sheet TSW 7/21/10

| Well ID | DTW | DTB | Date | Time *1 | Comments |
|---------|--------|--------|---------|---------|------------|
| RD-14 | 82.58 | 125.00 | 7/21/10 | | |
| RD-18 | 91.15 | 240.00 | 7/21/10 | | |
| RD-21 | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-22 | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-23 | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-33B | 282.87 | 415.00 | 7/21/10 | | |
| RD-34A | 39.66 | 60.00 | 7/21/10 | | |
| RD-34B | 42.51 | 240.00 | 7/21/10 | | |
| RD-56A | 317.51 | 397.50 | 7/21/10 | | |
| RD-56B | 174.25 | 463.00 | 7/21/10 | | |
| RD-63 | 22.10 | 230.00 | 7/21/10 | | |
| RD-64 | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-70 | 144.51 | 278.00 | 7/21/10 | | |
| RD-88 | 26.09 | 30.00 | 7/21/10 | | |
| PZ-073 | DRY | 55.00 | 7/21/10 | | DRY |
| PZ-116 | DRY | 34.00 | 7/21/10 | | DRY |
| PZ-151 | 78.53 | 79.94 | 7/21/10 | | |
| RD-07 | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-33A | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-50 | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-54A | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-57 | — | FLUTE | 7/21/10 | | FLUTE Well |
| RD-65 | — | FLUTE | 7/21/10 | ↓ | FLUTE Well |
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*1 - These wells were gauged by MWH/Blaine Tech - No gauging time was provided

SSFL Area IV Study Area Gauging Event Data Sheet

| Well ID | DTW | DTB | Date | Time | Comments |
|---------|--------|----------------------|---------|-------|------------------|
| PZ-101 | 22.34 | 23.21 | 7/21/10 | 07:41 | Good |
| PZ-100 | 12.12 | 19.32 | 7/21/10 | 07:50 | Good |
| RD-91 | 48.54 | 1140 | 7/21/10 | 08:06 | Good |
| PZ-102 | 60.14 | 60.70 | 7-21-10 | 0820 | Good |
| PZ-103 | 26.22 | 37.65 | 7-21-10 | 0832 | Good |
| PZ-105 | 18.12 | 30.33 | 7-21-10 | 0839 | Good |
| RD-54C | 229.45 | 680.0 | 7-21-10 | 0851 | Good |
| RS-54 | 33.87 | 39.5 | 7-21-10 | 0856 | Good |
| RD-54B | 246.03 | 478.0 437 | 7-21-10 | 0901 | No lock |
| RS-18 | 11.80 | 13.15 | 7-21-10 | 0911 | Dedicated Bailer |
| PZ-098 | 27.05 | 37.74 | 7-21-10 | 0916 | Good |
| RS-23 | Dry | 14.62 | 7-21-10 | 0947 | Good |
| PZ-112 | 28.20 | 37.06 | 7-21-10 | 0955 | Good |
| RD-92 | 60.88 | 105 | 7-21-10 | 1003 | Good |
| RD-15 | 49.78 | 152.0 | 7-21-10 | 10:10 | Good |
| PZ-056 | 30.05 | 30.35 | 7-21-10 | 1017 | Good |
| PZ-114 | 49.74 | 50.35 | 7-21-10 | 1029 | Good |
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LS

SSFL Area IV Study Area Gauging Event Data Sheet

| Well ID | DTW | Total Depth | Date | Time | Comments |
|---------|-------|-------------|---------|------|---|
| WS-09A | 23.10 | — | 1/10/11 | 0856 | Flow meter says pump running @ 33 gal/min |
| | | | | | Well is near RS-13 @ 20.73' |
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SSFL Area IV Study Area Gauging Event Data Sheet

| Well ID | DTW | Total Depth | Date | Time | Comments |
|-------------------|---------------------|--------------|--------------------|-----------------|---|
| RD-70 | 143.22 | — | 1/10/11 | 0839 | PID = 0.0 ppm |
| PZ-143 | Dry | 67.32 | 1/10/11 | 0849 | PID = 0.0 |
| PZ-141 | 15.02 | — | 1/10/11 | 0857 | PID = 0.0 not EPA |
| PZ-151 | 77.61 | 79.62 | 1/10/11 | 0908 | PID = 0.0 |
| WS-07 | 58.91 | — | 1/10/11 | 0918 | PID = 2.0 |
| RD-14 | 82.88 | — | 1/10/11 | 0924 | PID = 0.0 |
| RD-56A | 318.90 | — | 1/10/11 | 0931 | PID = 0.0 |
| RD-56B | 173.89 | — | 1/10/11 | 0936 | PID = 0.0 |
| PZ-073 | Dry | 53.16 | 1/10/11 | 0941 | PID = 0.0 |
| PZ-114 | 50.030 | 50.41 | 1/10/11 | 1011 | PID = 0.0 casing is slightly dented - unable to get bailer back into casing |
| RD-15 | 50.48 | — | 1/10/11 | 1028 | PID = 0.0 |
| PZ-056 | 12.71 | 33.39 | 1/10/11 | 1035 | PID = 0.0 |
| RD-18 | 92.41 | — | 1/10/11 | 1049 | PID = 0.0 |
| RD-86 | 38.24 | — | 1/10/11 | 1052 | PID = 0.0 |
| PZ-160 | 29.02 | 29.55 | 1/10/11 | 1058 | PID = 0.0 few wraps in well casing (cautious) monitor |
| PZ-161 | 27.80 | 30.05 | 1/10/11 | 1102 | PID = 0.0 numerous wraps in well casing monitor |
| RD-85 | 59.01 | — | 1/10/11 | 1105 | PID = 0.0 |
| PZ-150 | 18.82 | 30.45 | 1/10/11 | 1108 | PID = 0.0 numerous wraps in casing monitor |
| RD-25 | 12.95 | 14.90 | 1/10/11 | 1120 | PID = 0.0 |
| RD-19 | 63.18 | — | 1/10/11 | 1127 | PID = 0.0 |
| RD-98 | 36.98 | — | 1/10/11 | 1136 | PID = 0.0 |
| RD-92 | 60.41 | — | 1/10/11 | 1151 | PID = 0.0 |
| PZ-113 | 8.32 | 17.02 | 1/10/11 | 1203 | PID = 0.0 |
| PZ-055 | 32.16 | 32.39 | 1/10/11 | 1216 | PID = 0.0 |
| PZ-112 | 27.75 | 37.07 | 1/10/11 | 1228 | PID = 0.0 |
| PZ-110 | Dry | 20.10 | 1/10/11 | 1234 | PID = 0.0 |
| PZ-111 | 20.15 | 20.30 | 1/10/11 | 1238 | PID = 0.0 |
| RS-24 | 8.47 Dry | 8.47 | 1/10/11 | 1244 | PID = 0.0 |
| RD-16 | 46.31 | — | 1/10/11 | 1244 | PID = 0.0 |
| PZ-052 | 23.75 | 31.36 | 1/10/11 | 1252 | PID = 0.0 |
| EC | 10.21 | — | 1/10/11 | 1258 | PID = 0.0 |

SSFL Area IV Study Area Gauging Event Data Sheet

| Well ID | DTW | Total Depth | Date | Time | Comments |
|------------------|------------------|------------------|--------------------|-----------------|--|
| RS-11 | 14.03 | 17.77 | 1/10/11 | 1304 | PID=0.0 ppm |
| PZ-041 | 12.92 | 28.59 | 1/10/11 | 1313 | PID=0.0 ppm (no lid to well - only cap) |
| RD-17 | 28.06 | — | 1/10/11 | 1321 | PID=0.0 ppm |
| RD-27 | 52.70 | — | 1/10/11 | 1328 | PID=0.0 |
| RD-87 | 47.08 | 61.48 | 1/10/11 | 1347 | PID=0.0 (TD=61.48) |
| RD-90 | 31.83 | 125.82 | 1/10/11 | 1353 | PID=0.0 (TD=125.82) |
| RD-88 | 22.63 | 31.79 | 1/10/11 | 1400 | PID=0.0 (well covered in red dirt) |
| RD-94 | 16.89 | 30.93 | 1/10/11 | 1408 | PID=0.0 |
| RD-34C | 12.58 | — | 1/10/11 | 1415 | PID=0.0 |
| PZ-116 | dry) 34.94 | 34.71 | 1/10/11 | 1417 | PID=0.0 (well dry) No cap on well |
| RD-34A | 43.52 | — | 1/10/11 | 1423 | PID=0.0 |
| RD-34B | 46.72 | — | 1/10/11 | 1426 | PID=0.0 |
| RD-03 | — | — | 1/10/11 | 1437 | PID=0.0 (outside well casing) / unable to get lock off - Dew lesser will come back at a later time to gauge well. |
| RD-89 | 41.96 | 53.18 | 1/10/11 | 1451 | PID=0.0 |
| RD-93 | 30.68 | 57.45 | 1/10/11 | 1459 | PID=0.0 |
| PZ-121 | 19.60 | — | 1/10/11 | 1509 | PID=0.0 well vault full of water |
| RD-95 | 53.49 | 80.24 | 1/10/11 | 1517 | PID=0.0 |
| RD-24 | 39.25 | — | 1/10/11 | 1524 | PID=0.0 no bolts on lid |
| PZ-120 | 14.75 | 27.96 | 1/10/11 | 1529 | PID=0.0 |
| PZ-122 | 11.75 | 28.32 | 1/10/11 | 1535 | PID=0.0 |
| RD-29 | 11.39 | — | 1/10/11 | 1538 | PID=0.0 |
| RS-27 | 9.05 | 9.86 | 1/10/11 | 1542 | PID=0.0 |

SSFL Area IV Study Area Gauging Event Data Sheet

| Well ID | DTW | Total Depth | Date | Time | Comments |
|-------------------|------------------|------------------|--------------------|-----------------|---|
| PZ-108 | 8.80 | 26.15 | 1/11/11 | 0711 | PID=0.0 |
| PZ-109 | 15.20 | 35.29 | 1/11/11 | 0719 | PID=0.0 |
| RD-07 | | | 1/11/11 | 0728 | FLUTE well PID=0.0 (well vault) |
| RS-16 | Dry | 22.12 | 1/11/11 | 0730 | PID=0.0 |
| RD-74 | 30.58 | | 1/11/11 | 0733 | PID=0.0 |
| PZ-124 | 27.92 | 28.29 | 1/11/11 | 0734 | PID=0.0 |
| RD-96 | 62.91 | 87.29 | 1/11/11 | 0743 | PID=0.0 |
| RD-97 | 51.63 | 73.70 | 1/11/11 | 0748 | PID=0.0 |
| RD-20 | 44.12 | | 1/11/11 | 0803 | PID=0.0 |
| RD-91 | 60.82 | | 1/11/11 | 0808 | PID=0.0 |
| PZ-102 | 54.54 | 60.88 | 1/11/11 | 0814 | PID=0.0 |
| PZ-103 | 25.43 | 37.70 | 1/11/11 | 0823 | PID=0.0 |
| PZ-005 | 16.27 | 26.00 | 1/11/11 | 0830 | well casing stands ~16 in. above well vault - only cap on well (casing exposed to air) PID=0.0 |
| PZ-106 | 17.70 | 31.23 | 1/11/11 | 0836 | PID=0.0 |
| PZ-105 | 18.36 | 30.39 | 1/11/11 | 0842 | PID=0.0 |
| RD-13 | 64.73 | | 1/11/11 | 0849 | PID=0.0 |
| RS-23 | 14.52 | 14.62 | 1/11/11 | 0857 | PID=0.0 |
| RD-54C | 228.42 | | 1/11/11 | 0906 | PID=0.0 |
| RD-54A | | | 1/11/11 | 0905 | FLUTE well |
| RS-54 | 72.68 | | 1/11/11 | 0908 | PID=0.0 |
| RD-54B | 247.11 | | 1/11/11 | 0910 | no lock on well lid / lid broken - not attached PID=0.0 |
| RS-18 | 5.82 | 14.22 | 1/11/11 | 0918 | PID=0.0 |
| PZ-098 | 24.90 | 37.87 | 1/11/11 | 0922 | PID=0.0 |
| PZ-101 | 10.08 | 23.22 | 1/11/11 | 0930 | PID=0.0 |
| PZ-100 | 10.18 | 19.33 | 1/11/11 | 0936 | PID=0.0 (DTW = 10.18) |
| RD-33C | 283.42 | | 1/11/11 | 0944 | PID=0.0 |
| RD-33B | 281.99 | | 1/11/11 | 0949 | PID=0.0 |
| PZ-097 | Dry | 46.10 | 1/11/11 | 0958 | PID=0.0 |
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SSFL Area IV Study Area Gauging Event Data Sheet

| Well ID | DTW | Total Depth | Date | Time | Comments |
|----------------|----------|-------------|---------|------|-------------------------------------|
| PZ-151 | 77.79 | 79.84 | 3/16/11 | 0820 | |
| RD-14 | 82.56 | — | 3/16/11 | 0835 | TD NA: PUMP |
| WS-07 | 55.44 | — | 3/16/11 | 0845 | TD NA: PUMP |
| RD-15 | 47.30 | — | 3/16/11 | 0900 | Well cover dented, TD NA: pump |
| PZ-056 | 13.97 | 30.32 | 3/16/11 | 0910 | dented tubing and bailer in well |
| PZ-114 | 49.77 | 50.36 | 3/16/11 | 0935 | |
| PZ-115 | NA (dry) | 40.22 | 3/16/11 | 0945 | Well DRY |
| RD-92 | 60.30 | — | 3/16/11 | 1000 | TD NA: Pump |
| PZ-112 | 24.07 | 37.02 | 3/16/11 | 1010 | dented tubing in well |
| RS RD-24 RS-24 | — | 8.45 | 3/16/11 | 1025 | well DRY |
| RD-16 | 44.91 | — | 3/16/11 | 1030 | TD NA: PUMP |
| PZ-113 | 10.10 | 17.02 | 3/16/11 | 1040 | |
| PZ-055 | 32.12 | 32.30 | 3/16/11 | 1055 | |
| PZ-160 | 24.57 | 29.49 | 3/16/11 | 1110 | |
| PZ-161 | 24.51 | 30.01 | 3/16/11 | 1115 | |
| RD-85 | 59.13 | 91.22 | 3/16/11 | 1125 | dented bailer in well |
| PZ-150 | 19.05 | 30.28 | 3/16/11 | 1130 | dented bailer in well |
| RS-25 | 13.46 | 14.87 | 3/16/11 | 1140 | dented bailer in well |
| RD-19 | 74.10 | — | 3/16/11 | 1150 | TD NA: pump |
| RD-86 | 29.43 | — | 3/16/11 | 1205 | TD NA: pump (pump pkg needs repair) |
| RD-18 | 91.72 | — | 3/16/11 | 1215 | TD NA: PUMP |
| PZ-073 | — | 53.23 | 3/16/11 | 1225 | well DRY |
| RD-56A | 314.01 | — | 3/16/11 | 1230 | TD NA: PUMP |
| RD-56B | 170.86 | — | 3/16/11 | 1235 | TD NA: PUMP |
| PZ-143 | — | 67.27 | 3/16/11 | 1245 | Well Dry |
| RD-70 | 141.28 | — | 3/16/11 | 1255 | TD NA: PUMP |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SSFL Area IV Study Area Gauging Event Data Sheet

| Well ID | DTW | Total Depth | Date | Time | Comments |
|---------|-------|-------------|---------|------|---|
| RD-17 | 26.50 | N/A | 3-16-10 | 0833 | Unable to get total depth due to ded. pump |
| P2-110 | — | 20.12 | " | 0840 | Dry well |
| P2-111 | 20.08 | 20.632 | " | 0842 | |
| P2-052 | 21.60 | 31.35 | " | 0846 | |
| P2-051 | N/A | N/A | " | 0850 | Unable to gauge due to transducer in well / Bent casing |
| RD-27 | 50.37 | N/A | " | 0905 | R.M.H.F. / Unable to get total depth due to pump |
| ES-31 | 9.92 | N/A | " | 0938 | |
| P2-107 | 13.34 | 13.34 | " | 0942 | Dry well / casing Bent |
| RS-11 | 11.10 | 17.74 | " | 0945 | 4" Bailer in well |
| P2-041 | 7.68 | 28.58 | " | 0955 | Flush mount / no well lid |
| P2-108 | 8.34 | 26.13 | " | 1002 | Flush mount |
| P2-122 | 11.70 | 28.35 | " | 1010 | |
| RD-29 | 11.09 | N/A | " | 1015 | Unable to get total depth due to pump |
| RS-27 | 8.99 | 9.84 | " | 1017 | |
| P2-120 | 13.30 | 28.04 | " | 1025 | |
| P2-109 | 13.90 | 35.27 | " | 1031 | Flush mount |
| RD-24 | 38.00 | N/A | " | 1038 | Unable to get total depth due to pump |
| RD-95 | 52.58 | 80.18 | " | 1042 | 4" Bailer in well |
| RD-93 | 33.43 | N/A | " | 1052 | 4" Bailer in well / unable to determine TD |
| RD-89 | 39.72 | 42.83 | " | 1100 | 4" Bailer in well / probe stuck |
| P2-121 | 18.05 | 24.63 | " | 1107 | 4" Bailer in well |
| RD-98 | 32.83 | 65.78 | " | 1120 | |
| RD-90 | 30.88 | N/A | " | 1132 | Unable to get total depth probe stuck on side |
| RD-88 | 22.47 | N/A | " | 1138 | 4" Bailer in well / probe sticking unable to get TD |
| RD-87 | 45.73 | N/A | " | 1143 | 4" Bailer in well / pump in well, unable to get TD |
| RD-94 | 13.23 | N/A | " | 1147 | |
| P2-116 | 27.41 | 34.64 | " | 1155 | |
| RD-34C | 10.43 | N/A | " | 1200 | Unable to get TD due to pump |
| RD-34A | 39.16 | N/A | " | 1203 | Unable to get TD due to pump. |
| RD-63 | 17.70 | N/A | " | 1210 | Unable to get TD due to pump. |
| RD-34B | 38.80 | N/A | " | 1217 | Unable to get TD due to pump. |

APPENDIX C

MONITORING WELL CONSTRUCTION SUMMARY

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Table C.1
Monitoring Well Construction Summary
Groundwater Sampling

| Well Identification | Northing ¹ | Easting ¹ | Date Drilled | Casing Interval (feet) | Casing Diameter (inches) | Total Well Depth (feet bgs) | Measuring Point Elevation (feet amsl) | Screened Interval (feet bgs) | Sand Interval (feet bgs) | Bentonite Interval (feet bgs) | Grout Interval (feet bgs) | Concrete Interval (feet bgs) | Formation | Comments |
|---------------------|-----------------------|----------------------|--------------|------------------------|--------------------------|-----------------------------|---------------------------------------|-----------------------------------|--------------------------|-------------------------------|---------------------------|------------------------------|--------------|---|
| ES-31 | 266692.4 | 1785729.5 | 1/29/1987 | 0-25 | 6 | 25 | 1787.01 | 11.6-25 | -- | -- | -- | -- | Shallow well | |
| OS-02 | -- | -- | 3/18/1959 | 0-17 | 10 | 700 | 1237.01 | Open hole | -- | -- | -- | -- | -- | |
| OS-03 | -- | -- | 6/12/1950 | 0-59 | 8.25 | 100 | 1298.15 | 30-60/Open hole | -- | -- | -- | -- | -- | |
| OS-04 | -- | -- | -- | -- | -- | -- | 1334 | -- | -- | -- | -- | -- | -- | Well construction data not available. |
| OS-5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well construction data not available, well dry during Phase II. |
| OS-09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well construction data not available. |
| OS-09R | -- | -- | -- | 0-408.75 | 1.5 | 398 | 1018.07 (well) 982.19 (Port 1) | 30.75-41.88 (zone depth interval) | -- | -- | -- | -- | -- | Westbay Multilevel System (Port 1) |
| OS-10 | -- | -- | -- | 0-10 | 12.125 | 600 | 1016.97 | Open hole | -- | -- | -- | -- | -- | |
| OS-21 | -- | -- | -- | -- | -- | -- | 1900.39 | -- | -- | -- | -- | -- | -- | Well construction data not available, access denied . |
| PZ-005 | 266634.9 | 1784877.3 | 11/7/2000 | -- | -- | 45 | 1800.97 | 15-25 | 11.5-26.5 | 8.5-11.5 | 2-8.5 | 0-2 | Shallow well | |
| PZ-041 | 267315.8 | 1785662.0 | 1/16/2001 | -- | -- | 28.59 | 1809.1 | 19-29 | 17-29.6 | 14-17 | 2-14 | 0-2 | Shallow well | |
| PZ-051 | 266485.8 | 1785857.0 | 12/14/2000 | -- | -- | 27 | 1770.87 | 5-15 | 3-16 | 2-3 | -- | 0-2 | Shallow well | Well abandoned/damaged. |
| PZ-052 | 266742.1 | 1786103.7 | 12/15/2000 | -- | -- | 30 | 1790.72 | 18.9-28.9 | 17-30 | 14-17 | 2-14 | 0-2 | Shallow well | |
| PZ-055 | 267253.6 | 1787421.3 | 1/2/2001 | -- | -- | 29.5 | 1818.4 | 19-29 | 17-29.5 | 14-17 | 2-14 | 0-2 | Shallow well | Well dry during Phase I. |
| PZ-056 | 268068.7 | 1788028.0 | 12/19/2000 | -- | -- | 28 | 1805.86 | 17-27 | 13-28 | 10-13 | 2-10 | 0-2 | Shallow well | |
| PZ-073 | 269435.8 | 1788107.5 | 1/3/2001 | --- | --- | 55 | 1760.54 | 41-51 | 35-55 | 30.5-35 | 2-30.5 | 0-2 | Shallow well | Well dry during Phase I and Phase II. |
| PZ-097 | 267048.9 | 1783400.3 | 10/15/2001 | --- | --- | 44.5 | 1761.87 | 33-43 | 31-44.5 | 11.5-28 | 2-11.5 | 0-2 | Shallow well | Well abandoned/damaged. |
| PZ-098 | 266788.9 | 1783488.8 | 10/16/2001 | --- | --- | 37.5 | 1797.78 | 24-34 | 21.5-37.5 | 19-21.5 | 2-19 | 0-2 | Shallow well | |
| PZ-099 | 266508.7 | 1783141.0 | 10/17/2001 | | | 33 | 1819.57 | 16-33 | 13.5-16 | 12-13.5 | -- | -- | Shallow well | Well abandoned. |
| PZ-100 | 266078.3 | 1782962.2 | 10/17/2001 | --- | --- | 19.33 | 1870.11 | 5.67-15.67 | 4.67-16.5 | 2-4.67 | -- | 0-2 | Shallow well | |
| PZ-101 | 266057.5 | 1783090.6 | 10/17/2001 | --- | --- | 27 | 1869.71 | 10-20 | 7-27 | 5-7 | 1.75-5 | 0-1.75 | Shallow well | Well dry during Phase I. |
| PZ-102 | 266501.1 | 1783693.0 | 10/18/2001 | --- | --- | 59.2 | 1827.78 | 48.5-59.2 | 45-59.2 | 43-45 | 2-43 | 0-2 | Shallow well | Well dry during Phase I. |
| PZ-103 | 266281.2 | 1784400.9 | 10/22/2001 | -- | -- | 39 | 1815.93 | 28.5-38.5 | 26-39 | 23.5-26 | 2-23.5 | 0-2 | Shallow well | |
| PZ-104 | 266270.2 | 1784924.2 | 10/22/2001 | | -- | 38.5 | 1797.47 | 18-28 | 16-30 | 13-16 | 2-13 | 0-2 | Shallow well | Well abandoned/damaged. |
| PZ-105 | 265935.5 | 1784787.9 | 10/23/2001 | -- | -- | 28 | 1803.87 | 17-27 | 15-28 | 12-15 | 2-12 | 0-2 | Shallow well | |
| PZ-106 | 266411.9 | 1785469.6 | 10/23/2001 | -- | -- | 35 | 1784.17 | 18-28 | 16-30.5 | 12.75-16 | 2-12.75 | 0-2 | Shallow well | |
| PZ-107 | 266876.4 | 1785822.0 | 10/24/2001 | -- | -- | 11 | 1793.62 | 5-10 | 4-11 | 2-4 | -- | 0-2 | Shallow well | Well abandoned/damaged. |
| PZ-108 | 267332.4 | 1785248.2 | 10/24/2001 | -- | -- | 30 | 1763.01 | 16-26 | 13-28.5 | 10-13 | 2-10 | 0-2 | Shallow well | |
| PZ-109 | 267080.8 | 1784684.4 | 10/25/2001 | -- | -- | 36.5 | 1809.51 | 25-35 | 22-36.5 | 19-22 | 2-19 | 0-2 | Shallow well | |
| PZ-110 | 267204.0 | 1786209.6 | 10/25/2001 | -- | -- | 17.5 | 1818.9 | 7-17 | 5-17.5 | 2-5 | -- | 0-2 | Shallow well | Well dry during Phase I and Phase II. |
| PZ-111 | 266948.4 | 1786433.9 | 10/26/2001 | -- | -- | 20 | 1794.9 | 7.5-17.5 | 5-20 | -- | -- | -- | Shallow well | Well dry during Phase I. |

Table C.1
Monitoring Well Construction Summary
Groundwater Sampling

| Well Identification | Northing ¹ | Easting ¹ | Date Drilled | Casing Interval (feet) | Casing Diameter (inches) | Total Well Depth (feet bgs) | Measuring Point Elevation (feet amsl) | Screened Interval (feet bgs) | Sand Interval (feet bgs) | Bentonite Interval (feet bgs) | Grout Interval (feet bgs) | Concrete Interval (feet bgs) | Formation | Comments |
|---------------------|-----------------------|----------------------|--------------|------------------------|--------------------------|-----------------------------|---------------------------------------|------------------------------|--------------------------|-------------------------------|---------------------------|------------------------------|--------------|---------------------------------------|
| PZ-112 | 267435.9 | 1786720.8 | 10/26/2001 | -- | -- | 35 | 1829.14 | 24-34 | 22-35 | 19-22 | 2-19 | 0-2 | Shallow well | |
| PZ-113 | 267682.9 | 1787367.8 | 10/29/2001 | -- | -- | 15 | 1823.68 | 7-15 | 5-15 | 2-5 | -- | 0-2 | Shallow well | Well dry during Phase I. |
| PZ-114 | 268304.0 | 1787913.1 | 10/30/2001 | -- | -- | 48.2 | 1818.19 | 37-47 | 35-48.2 | 32-35 | 2-32 | 0-2 | Shallow well | |
| PZ-115 | 268006.8 | 1787536.5 | 10/30/2001 | -- | -- | 40 | 1817.81 | 25.5-37.5 | 25-40 | 22-25 | 2-22 | 0-2 | Shallow well | Well abandoned/damaged. |
| PZ-116 | 268032.6 | 1785076.3 | 10/31/2001 | --- | --- | 34 | 1827.78 | 22-32 | 20-34 | 17-20 | 2-17 | 0-2 | Shallow well | Well dry during Phase I. |
| PZ-120 | 267230.1 | 1785009.7 | 3/18/2003 | -- | -- | 26 | 1810.96 | 15-25 | 12-26 | 9-12 | 2-9 | 0-2 | Shallow well | |
| PZ-121 | 267491.6 | 1785120.7 | 3/19/2003 | -- | -- | 33 | 1808.98 | 15-25 | 12-28 | 8.4-12; 28-33 | 1.5-8.4 | 0-1.5 | Shallow well | |
| PZ-122 | 267091.9 | 1785176.5 | 3/19/2003 | -- | -- | 27.5 | 1810.8 | 15.5-25.5 | 12-27.5 | 9-12 | 2-9 | 0-2 | Shallow well | |
| PZ-124 | 267166.7 | 1784015.9 | 3/21/2003 | --- | --- | 31 | 1764.11 | 14.7-24.7 | 11.3-31 | 8.3-11.3 | 1-8.3 | 0-1 | Shallow well | Well dry during Phase I. |
| PZ-143 | 269399.5 | 1788800.7 | -- | --- | 2 | 67 | 1849.84 | 55-65 | 52-67 | 45-50; 67-75 | 0-45 | -- | Shallow well | Well dry during Phase I and Phase II. |
| PZ-150 | 268281.7 | 1786086.8 | -- | -- | -- | 30.48 | 1852.23 | 17.5-27.5 | --- | --- | --- | --- | Shallow well | |
| PZ-151 | 268743.1 | 1787988.8 | -- | -- | -- | 79.62 | --- | 69.5-79.5 | --- | --- | --- | --- | Shallow well | |
| PZ-160 | 268345.0 | 1786286.1 | -- | -- | -- | 29.58 | 1851.41 | 17-27 | 14-27 | 1-14 | 1-14 | 1-14 | Shallow well | |
| PZ-161 | 268418.8 | 1786132.4 | -- | -- | 4 | 30.07 | 1852.23 | 18-28 | 15-28 | 1-15 | 1-15 | 1-15 | Shallow well | |
| RD-07 | 266937.9 | 1784160.7 | 1/8/1986 | 0-25 | 10.125 | 300 | 1812.82 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-13 | 265809.9 | 1784083.7 | 7/25/1989 | 0-30 | 8.25 | 160 | 1840.27 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-14 | 268605.9 | 1787467.9 | 7/27/1989 | 0-30 | 8.25 | 125 | 1824.29 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-15 | 268114.6 | 1787805.6 | 7/27/1989 | 0-30 | 8.25 | 152 | 1817.7 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-16 | 267211.2 | 1786783.5 | 8/15/1989 | 0-30 | 8.25 | 220 | 1808.99 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-17 | 267668.1 | 1786003.5 | 8/10/1989 | 0-30 | 8.25 | 125 | 1836.3 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-18 | 268517.6 | 1786851.9 | 7/28/1989 | 0-30 | 8.25 | 240 | 1839.49 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-19 | 268204.7 | 1785783.9 | 7/31/1989 | 0-30 | 8.25 | 135 | 1853.13 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-20 | 266605.4 | 1784382.9 | 7/27/1989 | 0-30 | 8.25 | 127 | 1819.72 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-21 | 266053.3 | 1783079.8 | 8/11/1989 | 0-30 | 8.25 | 175 | 1866.96 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-22 | 266277.8 | 1782691.1 | 8/15/1989 | 0-30 | 8.25 | 440 | 1853.41 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-23 | 266390.8 | 1783122.8 | 8/16/1989 | 0-30 | 8.25 | 440 | 1838.19 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-24 | 267283.0 | 1784708.6 | 8/9/2009 | 0-30 | 8.25 | 150 | 1809.93 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-25 | -- | -- | -- | -- | -- | -- | -- | --- | -- | -- | -- | -- | Chatsworth | Well abandoned/damaged. |
| RD-27 | 267977.7 | 1785610.5 | 8/10/1989 | 0-30 | 8.25 | 150 | 1841.67 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-28 | -- | -- | -- | -- | -- | -- | -- | --- | -- | -- | -- | -- | Chatsworth | Well abandoned/damaged. |
| RD-29 | 266949.3 | 1785123.3 | 8/10/1989 | 0-30 | 8.25 | 100 | 1806.29 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-30 | 268026.0 | 1785319.8 | 8/11/1989 | 0-30 | 8.25 | 75 | 1768.69 | Open hole | -- | -- | -- | -- | Chatsworth | Well capped. |

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Groundwater Sampling

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|---------------------|-----------------------|----------------------|--------------|------------------------|--------------------------|-----------------------------|---------------------------------------|------------------------------|--------------------------|-------------------------------|---------------------------|------------------------------|------------|-------------------------|
| RD-33A | 266547.6 | 1782597.6 | 9/27/1991 | 0-11 | 12.125 | 320 | 1792.97 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-33B | 266546.9 | 1782616.8 | 9/27/1991 | 0-20 | 12.125 | 415 | 1793.21 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-33C | 266547.6 | 1782576.7 | 9/21/1991 | 0-10 | 12.125 | 520 | 1793.54 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-34A | 268046.0 | 1785103.3 | 7/25/1991 | 0-16 | 8.25 | 60 | 1761.83 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-34B | 268058.3 | 1785096.2 | 8/11/1991 | 0-30 | 12.125 | 240 | 1762.51 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-34C | 268035.0 | 1785086.8 | 8/10/1991 | 0-30 | 12.125 | 450 | 1762.6 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-50 | 265713.8 | 1783049.0 | 5/28/1993 | 0-18.5 | 8.25 | 195 | 1914.88 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-54A | 266312.8 | 1783135.8 | 8/7/1993 | 0-19 | 12.125 | 278 | 1841.72 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-54B | 266350.2 | 1783087.3 | 8/31/1993 | 0-19 | 12.125 | 437 | 1842.54 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-54C | 266313.8 | 1783106.8 | 7/27/1993 | 0-20 | 12.125 | 638 | 1843.77 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-56A | 269425.0 | 1788099.1 | 3/8/1994 | 0-20.5 | 12.125 | 397.5 | 1758.62 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-56B | 269402.1 | 1788070.9 | 7/24/1997 | 0-10 | 16 | 463 | 1761.83 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-57 | 266916.2 | 1782949.9 | 2/23/1994 | 0-19.5 | 12.125 | 419 | 1774.15 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-59A | -- | -- | 5/19/1994 | 0-21 | 12.125 | 58 | 1340.5 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-59B | -- | -- | 7/2/1994 | 0-19.5; 0-209 | 12.125; 2 | 214 | 1342.49 | 178-209 | -- | -- | -- | -- | Chatsworth | |
| RD-59C | -- | -- | 7/2/1994 | 0-19; 0-397 | 12.125; 2 | 398 | 1345.41 | 345.5-397 | -- | -- | -- | -- | Chatsworth | |
| RD-63 | 268029.8 | 1785216.8 | 5/10/1994 | 0-20 | 8.25 | 230 | 1764.85 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-64 | 266259.4 | 1782967.8 | 5/19/1994 | 0-19 | 8.25 | 398 | 1857.04 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-65 | 266543.7 | 1783268.6 | 8/14/1994 | 0-19 | 8.25 | 397 | 1819.14 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-68A | -- | -- | 6/5/1997 | 0-19 | 12 | 90 | 1307.64 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-68B | -- | -- | 6/11/1997 | 0-52; 0-270 | 12; 4 | 272 | 1312.44 | 240-270 | -- | -- | -- | -- | Chatsworth | |
| RD-70 | 269722.5 | 1789696.1 | 6/14/1997 | 0-19 | 12 | 278 | 1732.26 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-74 | 267112.6 | 1784112.9 | 1/21/1999 | 0-30 | 12 | 101 | 1810.9 | Open hole | -- | -- | -- | -- | Chatsworth | Well abandoned/damaged. |
| RD-85 | 268384.8 | 1786082.0 | 8/4/2004 | 0-20 | 8 | 90 | 1849.09 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-86 | 268480.4 | 1786522.8 | 8/9/2004 | 0-20 | 8 | 80 | 1830.51 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-87 | 267800.3 | 1784860.5 | 8/11/2004 | 0-20 | 8 | 60 | 1789.09 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-88 | 267691.4 | 1784770.0 | 8/16/2004 | 0-20 | 8 | 30 | 1774.62 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-89 | 267732.2 | 1785204.3 | 5/18/2005 | 0-30 | 8 | 53.18 | 1814.18 | Open hole | -- | -- | -- | -- | Chatsworth | Well abandoned/damaged. |
| RD-90 | 267701.9 | 1784858.9 | 3/11/2004 | 0-20 | 8 | 125 | 1784.75 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-91 | 266538.2 | 1783945.5 | 3/12/2004 | 0-20 | 8 | 140 | 1818.04 | 0-20 | -- | -- | -- | -- | Chatsworth | |
| RD-92 | 267847.1 | 1787222.9 | 3/16/2004 | 0-20 | 8 | 105 | 1833.74 | Open hole | -- | -- | -- | -- | Chatsworth | |

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| Well Identification | Northing ¹ | Easting ¹ | Date Drilled | Casing Interval (feet) | Casing Diameter (inches) | Total Well Depth (feet bgs) | Measuring Point Elevation (feet amsl) | Screened Interval (feet bgs) | Sand Interval (feet bgs) | Bentonite Interval (feet bgs) | Grout Interval (feet bgs) | Concrete Interval (feet bgs) | Formation | Comments |
|---------------------|-----------------------|----------------------|--------------|--------------------------|--------------------------|-----------------------------|---------------------------------------|------------------------------|--------------------------|-------------------------------|---------------------------|------------------------------|--------------|---------------------------------------|
| RD-93 | 267564.1 | 1785023.3 | 5/19/2005 | 0-20 | 8 | 57.45 | 1810.48 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-94 | 267743.3 | 1784559.8 | 5/15/2005 | 0-20.5 | 8 | 35 | 1744.38 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-95 | 267499.9 | 1784758.0 | 5/12/2005 | 0-50 | 8 | 80 | 1811.36 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-96 | 267385.1 | 1784343.7 | 5/3/2006 | 0-20 | 8.625 | 90 | 1805.14 | Open hole | -- | -- | -- | -- | Chatsworth | |
| RD-97 | 267540.4 | 1784376.4 | 4/28/2006 | 0-20 | 8.625 | 74.5 | 1792.22 | Open hole | -- | -- | -- | -- | Chatsworth | Well dry during Phase I. |
| RD-98 | 268054.1 | 1785567.0 | 6/2008 | --- | --- | 65 | 1808.73 | --- | -- | -- | -- | -- | Chatsworth | |
| RS-11 | 266864.3 | 1785819.5 | 6/10/1985 | 0-17.5 | 4 | 17.77 | 1790.39 | 10-17.5 | -- | -- | -- | -- | Shallow well | Well dry during Phase I. |
| RS-16 | 266981.3 | 1784220.7 | 6/11/1985 | 0-20.5 | 4 | 20.5 | 1811.05 | 16.5-20.5 | -- | -- | -- | -- | Shallow well | Well dry during Phase I. |
| RS-18 | 266661.7 | 1783394.0 | 6/12/1985 | 0-13 | 4 | 13 | 1802.86 | 7.5-13 | -- | -- | -- | -- | Shallow well | |
| RS-23 | 265827.3 | 1783082.8 | 8/23/1988 | 0-13 | 4 | 13 | 1887.25 | 8-13 | -- | -- | -- | -- | Shallow well | Well dry during Phase I. |
| RS-24 | 267218.8 | 1786806.2 | 8/25/1988 | 0-8.5 | 4 | 8.5 | 1809.24 | 4-8.5 | -- | -- | -- | -- | Shallow well | Well dry during Phase I and Phase II. |
| RS-25 | 268226.7 | 1785922.8 | 8/25/1988 | 0-13.5 | 4 | 13.5 | 1862.71 | 8.5-13.5 | -- | -- | -- | -- | Shallow well | |
| RS-27 | 266927.6 | 1785133.2 | 8/2/1988 | 0-9 | 4 | 9 | 1804.78 | 5-9 | -- | -- | -- | -- | Shallow well | Well dry during Phase I. |
| RS-28 | 268030.1 | 1785310.5 | 8/17/1989 | 0-19 | 4 | 19 | 1786.59 | 14-19 | -- | -- | -- | -- | Shallow well | Well capped. |
| RS-54 | 266307.6 | 1783111.2 | 8/9/1993 | 0-7 | 6.25 | 38 | 1846.66 | Open hole | -- | -- | -- | -- | Shallow well | Well dry during Phase I. |
| WS-07 | 268493.2 | 1787829.4 | 5/7/1905 | --- | --- | 700 | 1826.19 | Open hole | -- | -- | -- | -- | Chatsworth | |
| WS-09A | -- | -- | 1956 | 0-34; 0-541; 0-539 | 14; 12.125; 8.25 | 541 | 1647.61 | 20-539 | -- | -- | -- | -- | Chatsworth | |

Notes:

¹Northing and easting measured using NAD 1927 California V Plane Feet.

RD-21 was converted to a Flexible Liner Underground Technologies™ Well 01/14/2003

-- - not available/not applicable

amsl - above mean sea level

bgs - below ground surface

APPENDIX D

RADIONUCLIDE ANALYTICAL RESULTS

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Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| ES-31 | SMES-031-GW082410 | Ac-227 | Filtered | -1.8 U | 9.2 | 2.8 | 4.5 |
| ES-31 | SMES-031-GW082410 | Ac-227 | Suspended | -1.2 U | 4.3 | 1.3 | 2.1 |
| ES-31 | SMES-031-GW082410 | Ac-227 | Total | -2.9 | NA | 3 | NA |
| ES-31 | SMES-031-GW082410 | Ac-228 | Filtered | 4 | 3.8 | 1.2 | 1.8 |
| ES-31 | SMES-031-GW082410 | Ac-228 | Suspended | 1.58 | 2.4 | 0.74 | 1.1 |
| ES-31 | SMES-031-GW082410 | Ac-228 | Total | 5.6 | NA | 1.4 | NA |
| ES-31 | SMES-031-GW082410 | Ag-108 | Filtered | 0.047 R | 0.067 | 0.021 | 0.032 |
| ES-31 | SMES-031-GW082410 | Ag-108 | Suspended | 0.01 U R | 0.05 | 0.14 | 0.02 |
| ES-31 | SMES-031-GW082410 | Ag-108 | Total | 0.06 R | NA | 0.14 | NA |
| ES-31 | SMES-031-GW082410 | Ag-108m | Filtered | 0.51 R | 0.72 | 0.22 | 0.34 |
| ES-31 | SMES-031-GW082410 | Ag-108m | Suspended | 0.13 U R | 0.51 | 0.15 | 0.24 |
| ES-31 | SMES-031-GW082410 | Ag-108m | Total | 0.64 R | NA | 0.27 | NA |
| ES-31 | SMES-031-GW082410 | Ba-133 | Filtered | 4.9 U R | 11 | 3.4 | 5.5 |
| ES-31 | SMES-031-GW082410 | Ba-133 | Suspended | 1.6 U R | 6 | 1.8 | 2.9 |
| ES-31 | SMES-031-GW082410 | Ba-133 | Total | 6.5 R | NA | 3.9 | NA |
| ES-31 | SMES-031-GW082410 | Ba-137m | Filtered | 0.0003 U | 1.1 | 0.33 | 0.55 |
| ES-31 | SMES-031-GW082410 | Ba-137m | Suspended | 0.21 U | 0.64 | 0.19 | 0.31 |
| ES-31 | SMES-031-GW082410 | Ba-137m | Total | 0.21 | NA | 0.38 | NA |
| ES-31 | SMES-031-GW082410 | Bi-212 | Filtered | -2.1 U | 11 | 6.5 | 5.4 |
| ES-31 | SMES-031-GW082410 | Bi-212 | Suspended | 1.5 U | 6.3 | 1.9 | 3 |
| ES-31 | SMES-031-GW082410 | Bi-212 | Total | -0.6 | NA | 6.7 | NA |
| ES-31 | SMES-031-GW082410 | Bi-214 | Filtered | 1.78 | 2.7 | 0.89 | 1.3 |
| ES-31 | SMES-031-GW082410 | Bi-214 | Suspended | 1.56 | 1.6 | 0.66 | 0.79 |
| ES-31 | SMES-031-GW082410 | Bi-214 | Total | 3.3 | NA | 1.1 | NA |
| ES-31 | SMES-031-GW082410 | Cd-113m | Filtered | 700 U | 14000 | 4000 | 6600 |
| ES-31 | SMES-031-GW082410 | Cd-113m | Suspended | -70 U | 7000 | 2100 | 3400 |
| ES-31 | SMES-031-GW082410 | Cd-113m | Total | 600 | NA | 4500 | NA |
| ES-31 | SMES-031-GW082410 | Cf-249 | Filtered | 0.5 U R | 5.7 | 1.7 | 2.7 |
| ES-31 | SMES-031-GW082410 | Cf-249 | Suspended | 0.61 U R | 2.8 | 0.83 | 1.4 |
| ES-31 | SMES-031-GW082410 | Cf-249 | Total | 1.1 R | NA | 1.9 | NA |
| ES-31 | SMES-031-GW082410 | Co-60 | Filtered | -0.04 U | 1.2 | 0.34 | 0.56 |
| ES-31 | SMES-031-GW082410 | Co-60 | Suspended | -0.09 U | 0.76 | 0.22 | 0.35 |
| ES-31 | SMES-031-GW082410 | Co-60 | Total | -0.13 | NA | 0.4 | NA |
| ES-31 | SMES-031-GW082410 | Cs-134 | Filtered | 0.12 U | 1.2 | 0.36 | 0.59 |
| ES-31 | SMES-031-GW082410 | Cs-134 | Suspended | -0.26 U | 0.81 | 0.24 | 0.39 |
| ES-31 | SMES-031-GW082410 | Cs-134 | Total | -0.14 | NA | 0.44 | NA |
| ES-31 | SMES-031-GW082410 | Cs-137 | Filtered | 0.0003 U | 1.2 | 0.35 | 0.58 |
| ES-31 | SMES-031-GW082410 | Cs-137 | Suspended | 0.22 U | 0.68 | 0.2 | 0.32 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| ES-31 | SMES-031-GW082410 | Cs-137 | Total | 0.22 | NA | 0.4 | NA |
| ES-31 | SMES-031-GW082410 | Eu-152 | Filtered | 1.23 U | 3 | 0.9 | 1.4 |
| ES-31 | SMES-031-GW082410 | Eu-152 | Suspended | -0.33 U | 1.8 | 0.54 | 0.87 |
| ES-31 | SMES-031-GW082410 | Eu-152 | Total | 0.9 | NA | 1.1 | NA |
| ES-31 | SMES-031-GW082410 | Eu-154 | Filtered | 0.8 U | 9.7 | 2.8 | 4.6 |
| ES-31 | SMES-031-GW082410 | Eu-154 | Suspended | -0.4 U | 5.4 | 1.5 | 2.5 |
| ES-31 | SMES-031-GW082410 | Eu-154 | Total | 0.3 | NA | 3.2 | NA |
| ES-31 | SMES-031-GW082410 | Eu-155 | Filtered | -1.15 U | 3.2 | 0.96 | 1.6 |
| ES-31 | SMES-031-GW082410 | Eu-155 | Suspended | 0.29 U | 1.1 | 0.34 | 0.55 |
| ES-31 | SMES-031-GW082410 | Eu-155 | Total | -0.9 | NA | 1 | NA |
| ES-31 | SMES-031-GW082410 | gross_alpha | Filtered | 5.32 | 0.55 | 0.51 | 0.29 |
| ES-31 | SMES-031-GW082410 | gross_alpha | Suspended | 1.52 | 0.67 | 0.32 | 0.35 |
| ES-31 | SMES-031-GW082410 | gross_alpha | Total | 6.84 | NA | 0.6 | NA |
| ES-31 | SMES-031-GW082410 | gross_beta | Filtered | 3.94 | 2 | 0.77 | 1.2 |
| ES-31 | SMES-031-GW082410 | gross_beta | Suspended | 2.19 | 1 | 0.4 | 0.61 |
| ES-31 | SMES-031-GW082410 | gross_beta | Total | 6.13 | NA | 0.87 | NA |
| ES-31 | SMES-031-GW082410 | H-3 | Filtered | 88 | 130 | 40 | 64 |
| ES-31 | SMES-031-GW082410 | H-3 | Suspended | 1.5 U | 14 | 4 | 6.2 |
| ES-31 | SMES-031-GW082410 | H-3 | Total | 89 | NA | 40 | NA |
| ES-31 | SMES-031-GW082410 | Ho-166m | Filtered | -0.58 U | 1.8 | 0.53 | 0.84 |
| ES-31 | SMES-031-GW082410 | Ho-166m | Suspended | -0.001 U | 0.85 | 0.24 | 0.4 |
| ES-31 | SMES-031-GW082410 | Ho-166m | Total | -0.58 | NA | 0.58 | NA |
| ES-31 | SMES-031-GW082410 | K-40 | Filtered | 14.1 | 23 | 6.8 | 11 |
| ES-31 | SMES-031-GW082410 | K-40 | Suspended | 13.6 | 9.6 | 3.4 | 4.5 |
| ES-31 | SMES-031-GW082410 | K-40 | Total | 27.7 | NA | 7.6 | NA |
| ES-31 | SMES-031-GW082410 | Na-22 | Filtered | 0.06 U | 1 | 0.3 | 0.48 |
| ES-31 | SMES-031-GW082410 | Na-22 | Suspended | 0.001 U | 0.75 | 0.21 | 0.35 |
| ES-31 | SMES-031-GW082410 | Na-22 | Total | 0.06 | NA | 0.36 | NA |
| ES-31 | SMES-031-GW082410 | Nb-94 | Filtered | 0.53 | 1 | 0.31 | 0.48 |
| ES-31 | SMES-031-GW082410 | Nb-94 | Suspended | 0 U | 0.74 | 0.22 | 0.36 |
| ES-31 | SMES-031-GW082410 | Nb-94 | Total | 0.53 | NA | 0.38 | NA |
| ES-31 | SMES-031-GW082410 | Np-236 | Filtered | -0.07 U | 2.9 | 0.86 | 1.4 |
| ES-31 | SMES-031-GW082410 | Np-236 | Suspended | 0.6 | 0.99 | 0.3 | 0.48 |
| ES-31 | SMES-031-GW082410 | Np-236 | Total | 0.53 | NA | 0.91 | NA |
| ES-31 | SMES-031-GW082410 | Np-239 | Filtered | -1.8 U | 7.6 | 2.3 | 3.7 |
| ES-31 | SMES-031-GW082410 | Np-239 | Suspended | -0.5 U | 3.9 | 1.1 | 1.9 |
| ES-31 | SMES-031-GW082410 | Np-239 | Total | -2.3 | NA | 2.5 | NA |
| ES-31 | SMES-031-GW082410 | Pa-231 | Filtered | -4 U | 53 | 16 | 26 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| ES-31 | SMES-031-GW082410 | Pa-231 | Suspended | 1.8 U | 26 | 7.8 | 13 |
| ES-31 | SMES-031-GW082410 | Pa-231 | Total | -2 | NA | 18 | NA |
| ES-31 | SMES-031-GW082410 | Pb-212 | Filtered | 1.1 U | 2.7 | 0.9 | 1.3 |
| ES-31 | SMES-031-GW082410 | Pb-212 | Suspended | 0.79 | 1.1 | 0.36 | 0.56 |
| ES-31 | SMES-031-GW082410 | Pb-212 | Total | 1.89 | NA | 0.97 | NA |
| ES-31 | SMES-031-GW082410 | Pb-214 | Filtered | 0.31 U | 2.5 | 0.82 | 1.2 |
| ES-31 | SMES-031-GW082410 | Pb-214 | Suspended | -0.02 U | 1.5 | 0.41 | 0.74 |
| ES-31 | SMES-031-GW082410 | Pb-214 | Total | 0.29 | NA | 0.92 | NA |
| ES-31 | SMES-031-GW082410 | Sb-125 | Filtered | 0.1 U | 14 | 4.1 | 6.8 |
| ES-31 | SMES-031-GW082410 | Sb-125 | Suspended | 0.7 U | 6 | 1.8 | 2.9 |
| ES-31 | SMES-031-GW082410 | Sb-125 | Total | 0.9 | NA | 4.5 | NA |
| ES-31 | SMES-031-GW082410 | Sn-126 | Filtered | -0.38 U | 1.3 | 0.4 | 0.63 |
| ES-31 | SMES-031-GW082410 | Sn-126 | Suspended | 0.26 U | 0.79 | 0.24 | 0.38 |
| ES-31 | SMES-031-GW082410 | Sn-126 | Total | -0.12 | NA | 0.46 | NA |
| ES-31 | SMES-031-GW082410 | Sr-90 | Filtered | 0.089 U | 0.21 | 0.062 | 0.12 |
| ES-31 | SMES-031-GW082410 | Sr-90 | Suspended | -0.003 U | 0.16 | 0.045 | 0.095 |
| ES-31 | SMES-031-GW082410 | Sr-90 | Total | 0.086 | NA | 0.077 | NA |
| ES-31 | SMES-031-GW082410 | Te-125m | Filtered | 0.03 U | 3.2 | 0.95 | 1.6 |
| ES-31 | SMES-031-GW082410 | Te-125m | Suspended | 0.17 U | 1.4 | 0.41 | 0.67 |
| ES-31 | SMES-031-GW082410 | Te-125m | Total | 0.2 | NA | 1 | NA |
| ES-31 | SMES-031-GW082410 | Th-231 | Filtered | 0.126 | 0.038 | 0.029 | 0.013 |
| ES-31 | SMES-031-GW082410 | Th-231 | Suspended | 0 U | 0.017 | 0.0023 | 0.0088 |
| ES-31 | SMES-031-GW082410 | Th-231 | Total | 0.126 | NA | 0.029 | NA |
| ES-31 | SMES-031-GW082410 | Th-234 | Filtered | 4.3 U | 21 | 6.7 | 10 |
| ES-31 | SMES-031-GW082410 | Th-234 | Suspended | 1.5 U | 7.6 | 2.6 | 3.7 |
| ES-31 | SMES-031-GW082410 | Th-234 | Total | 5.8 | NA | 7.1 | NA |
| ES-31 | SMES-031-GW082410 | Tl-208 | Filtered | 0.22 U | 1.4 | 0.4 | 0.69 |
| ES-31 | SMES-031-GW082410 | Tl-208 | Suspended | 0.62 | 0.84 | 0.33 | 0.4 |
| ES-31 | SMES-031-GW082410 | Tl-208 | Total | 0.84 | NA | 0.52 | NA |
| ES-31 | SMES-031-GW082410 | Tm-171 | Filtered | -170 U | 410 | 130 | 200 |
| ES-31 | SMES-031-GW082410 | Tm-171 | Suspended | -6 U | 130 | 39 | 64 |
| ES-31 | SMES-031-GW082410 | Tm-171 | Total | -180 | NA | 130 | NA |
| ES-31 | SMES-031-GW082410 | U-233/234 | Filtered | 2.95 | 0.03 | 0.17 | 0.01 |
| ES-31 | SMES-031-GW082410 | U-233/234 | Suspended | 0.031 | 0.04 | 0.016 | 0.016 |
| ES-31 | SMES-031-GW082410 | U-233/234 | Total | 2.98 | NA | 0.17 | NA |
| ES-31 | SMES-031-GW082410 | U-235/236 | Filtered | 0.126 | 0.038 | 0.029 | 0.013 |
| ES-31 | SMES-031-GW082410 | U-235/236 | Suspended | 0 U | 0.017 | 0.0023 | 0.0088 |
| ES-31 | SMES-031-GW082410 | U-235/236 | Total | 0.126 | NA | 0.029 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| ES-31 | SMES-031-GW082410 | U-238 | Filtered | 2.73 | 0.01 | 0.16 | 0.007 |
| ES-31 | SMES-031-GW082410 | U-238 | Suspended | 0.019 | 0.03 | 0.012 | 0.01 |
| ES-31 | SMES-031-GW082410 | U-238 | Total | 2.75 | NA | 0.16 | NA |
| PZ-005 | SMPZ-005-GW083010 | Ac-227 | Filtered | 0.2 U | 13 | 3.9 | 6.4 |
| PZ-005 | SMPZ-005-GW083010 | Ac-227 | Suspended | -1.4 U | 4 | 1.2 | 1.9 |
| PZ-005 | SMPZ-005-GW083010 | Ac-227 | Total | -1.2 | NA | 4.1 | NA |
| PZ-005 | SMPZ-005-GW083010 | Ac-228 | Filtered | 3.2 | 4.1 | 1.3 | 1.9 |
| PZ-005 | SMPZ-005-GW083010 | Ac-228 | Suspended | -0.7 U | 3 | 1.1 | 1.4 |
| PZ-005 | SMPZ-005-GW083010 | Ac-228 | Total | 2.5 | NA | 1.7 | NA |
| PZ-005 | SMPZ-005-GW083010 | Ag-108 | Filtered | -0.018 U R | 0.097 | 0.029 | 0.047 |
| PZ-005 | SMPZ-005-GW083010 | Ag-108 | Suspended | 0.006 U R | 0.052 | 0.015 | 0.025 |
| PZ-005 | SMPZ-005-GW083010 | Ag-108 | Total | -0.012 R | NA | 0.033 | NA |
| PZ-005 | SMPZ-005-GW083010 | Ag-108m | Filtered | -0.19 U R | 1 | 0.31 | 0.5 |
| PZ-005 | SMPZ-005-GW083010 | Ag-108m | Suspended | 0.07 U R | 0.56 | 0.17 | 0.27 |
| PZ-005 | SMPZ-005-GW083010 | Ag-108m | Total | -0.12 R | NA | 0.35 | NA |
| PZ-005 | SMPZ-005-GW083010 | Ba-133 | Filtered | 2.7 U R | 12 | 3.7 | 5.9 |
| PZ-005 | SMPZ-005-GW083010 | Ba-133 | Suspended | -0.9 U R | 6.5 | 1.9 | 3.2 |
| PZ-005 | SMPZ-005-GW083010 | Ba-133 | Total | 1.8 R | NA | 4.1 | NA |
| PZ-005 | SMPZ-005-GW083010 | Ba-137m | Filtered | 0 U | 1.2 | 0.36 | 0.59 |
| PZ-005 | SMPZ-005-GW083010 | Ba-137m | Suspended | -0.07 U | 0.63 | 0.18 | 0.3 |
| PZ-005 | SMPZ-005-GW083010 | Ba-137m | Total | -0.07 | NA | 0.4 | NA |
| PZ-005 | SMPZ-005-GW083010 | Bi-212 | Filtered | -5 U | 10 | 110 | 7 |
| PZ-005 | SMPZ-005-GW083010 | Bi-212 | Suspended | 2.9 | 5.9 | 1.8 | 2.8 |
| PZ-005 | SMPZ-005-GW083010 | Bi-212 | Total | -3 | NA | 110 | NA |
| PZ-005 | SMPZ-005-GW083010 | Bi-214 | Filtered | 5.6 | 2.9 | 1.2 | 1.4 |
| PZ-005 | SMPZ-005-GW083010 | Bi-214 | Suspended | 1.64 | 1.7 | 0.62 | 0.81 |
| PZ-005 | SMPZ-005-GW083010 | Bi-214 | Total | 7.2 | NA | 1.3 | NA |
| PZ-005 | SMPZ-005-GW083010 | Cd-113m | Filtered | 1000 U | 15000 | 4400 | 7300 |
| PZ-005 | SMPZ-005-GW083010 | Cd-113m | Suspended | -2400 U | 7600 | 2300 | 3700 |
| PZ-005 | SMPZ-005-GW083010 | Cd-113m | Total | -1400 | NA | 5000 | NA |
| PZ-005 | SMPZ-005-GW083010 | Cf-249 | Filtered | 0.2 U R | 5.8 | 1.7 | 2.8 |
| PZ-005 | SMPZ-005-GW083010 | Cf-249 | Suspended | 0.67 U R | 3 | 0.89 | 1.4 |
| PZ-005 | SMPZ-005-GW083010 | Cf-249 | Total | 0.9 R | NA | 1.9 | NA |
| PZ-005 | SMPZ-005-GW083010 | Co-60 | Filtered | 0.45 U | 1.3 | 0.38 | 0.6 |
| PZ-005 | SMPZ-005-GW083010 | Co-60 | Suspended | -0.02 U | 0.9 | 0.26 | 0.42 |
| PZ-005 | SMPZ-005-GW083010 | Co-60 | Total | 0.44 | NA | 0.46 | NA |
| PZ-005 | SMPZ-005-GW083010 | Cs-134 | Filtered | -0.13 U | 1.2 | 0.35 | 0.58 |
| PZ-005 | SMPZ-005-GW083010 | Cs-134 | Suspended | 0.0005 U | 0.76 | 0.22 | 0.37 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-005 | SMPZ-005-GW083010 | Cs-134 | Total | -0.13 | NA | 0.42 | NA |
| PZ-005 | SMPZ-005-GW083010 | Cs-137 | Filtered | 0 U | 1.3 | 0.38 | 0.63 |
| PZ-005 | SMPZ-005-GW083010 | Cs-137 | Suspended | -0.07 U | 0.67 | 0.2 | 0.32 |
| PZ-005 | SMPZ-005-GW083010 | Cs-137 | Total | -0.07 | NA | 0.43 | NA |
| PZ-005 | SMPZ-005-GW083010 | Eu-152 | Filtered | -0.3 U | 3.6 | 1.1 | 1.7 |
| PZ-005 | SMPZ-005-GW083010 | Eu-152 | Suspended | 0.21 U | 1.8 | 0.54 | 0.87 |
| PZ-005 | SMPZ-005-GW083010 | Eu-152 | Total | -0.1 | NA | 1.2 | NA |
| PZ-005 | SMPZ-005-GW083010 | Eu-154 | Filtered | 0.3 U | 11 | 3.1 | 5.1 |
| PZ-005 | SMPZ-005-GW083010 | Eu-154 | Suspended | 0.4 U | 6.6 | 1.9 | 3.1 |
| PZ-005 | SMPZ-005-GW083010 | Eu-154 | Total | 0.7 | NA | 3.6 | NA |
| PZ-005 | SMPZ-005-GW083010 | Eu-155 | Filtered | -0.7 U | 3.4 | 1 | 1.7 |
| PZ-005 | SMPZ-005-GW083010 | Eu-155 | Suspended | 0.08 U | 1.2 | 0.37 | 0.61 |
| PZ-005 | SMPZ-005-GW083010 | Eu-155 | Total | -0.7 | NA | 1.1 | NA |
| PZ-005 | SMPZ-005-GW083010 | gross_alpha | Filtered | 12.2 | 0.46 | 0.79 | 0.24 |
| PZ-005 | SMPZ-005-GW083010 | gross_alpha | Suspended | 1.2 | 0.51 | 0.24 | 0.27 |
| PZ-005 | SMPZ-005-GW083010 | gross_alpha | Total | 13.4 | NA | 0.83 | NA |
| PZ-005 | SMPZ-005-GW083010 | gross_beta | Filtered | 8 | 2.6 | 1.1 | 1.5 |
| PZ-005 | SMPZ-005-GW083010 | gross_beta | Suspended | 0.35 U | 0.81 | 0.25 | 0.48 |
| PZ-005 | SMPZ-005-GW083010 | gross_beta | Total | 8.4 | NA | 1.2 | NA |
| PZ-005 | SMPZ-005-GW083010 | H-3 | Filtered | 37 U | 130 | 41 | 66 |
| PZ-005 | SMPZ-005-GW083010 | H-3 | Suspended | 14.1 R | 22 | 6.8 | 9.8 |
| PZ-005 | SMPZ-005-GW083010 | H-3 | Total | 51 R | NA | 41 | NA |
| PZ-005 | SMPZ-005-GW083010 | H-3_Total | Filtered | 37 | 26 | 9.2 | 12 |
| PZ-005 | SMPZ-005-GW083010 | H-3_Total | Suspended | 14.1 R | 19 | 6 | 8.3 |
| PZ-005 | SMPZ-005-GW083010 | H-3_Total | Total | 51 R | NA | 11 | NA |
| PZ-005 | SMPZ-005-GW083010 | Ho-166m | Filtered | -0.01 U | 1.9 | 0.56 | 0.92 |
| PZ-005 | SMPZ-005-GW083010 | Ho-166m | Suspended | 0.18 U | 1 | 0.29 | 0.47 |
| PZ-005 | SMPZ-005-GW083010 | Ho-166m | Total | 0.16 | NA | 0.63 | NA |
| PZ-005 | SMPZ-005-GW083010 | K-40 | Filtered | 2.5 U | 24 | 6.1 | 12 |
| PZ-005 | SMPZ-005-GW083010 | K-40 | Suspended | 2.2 U | 12 | 3 | 5.7 |
| PZ-005 | SMPZ-005-GW083010 | K-40 | Total | 4.6 | NA | 6.8 | NA |
| PZ-005 | SMPZ-005-GW083010 | Na-22 | Filtered | 0.008 U | 1.3 | 0.36 | 0.59 |
| PZ-005 | SMPZ-005-GW083010 | Na-22 | Suspended | -0.09 U | 0.8 | 0.23 | 0.37 |
| PZ-005 | SMPZ-005-GW083010 | Na-22 | Total | -0.08 | NA | 0.43 | NA |
| PZ-005 | SMPZ-005-GW083010 | Nb-94 | Filtered | 0.1 U | 1.1 | 0.31 | 0.51 |
| PZ-005 | SMPZ-005-GW083010 | Nb-94 | Suspended | 0.02 U | 0.73 | 0.21 | 0.35 |
| PZ-005 | SMPZ-005-GW083010 | Nb-94 | Total | 0.12 | NA | 0.38 | NA |
| PZ-005 | SMPZ-005-GW083010 | Np-236 | Filtered | -0.92 U | 3.1 | 0.94 | 1.5 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-005 | SMPZ-005-GW083010 | Np-236 | Suspended | 0.34 U | 1.2 | 0.36 | 0.58 |
| PZ-005 | SMPZ-005-GW083010 | Np-236 | Total | -0.6 | NA | 1 | NA |
| PZ-005 | SMPZ-005-GW083010 | Np-239 | Filtered | -0.8 U | 7.9 | 2.3 | 3.8 |
| PZ-005 | SMPZ-005-GW083010 | Np-239 | Suspended | -0.3 U | 3.8 | 1.1 | 1.8 |
| PZ-005 | SMPZ-005-GW083010 | Np-239 | Total | -1.1 | NA | 2.6 | NA |
| PZ-005 | SMPZ-005-GW083010 | Pa-231 | Filtered | 1 U | 57 | 17 | 28 |
| PZ-005 | SMPZ-005-GW083010 | Pa-231 | Suspended | 0 U | 28 | 8.2 | 13 |
| PZ-005 | SMPZ-005-GW083010 | Pa-231 | Total | 1 | NA | 19 | NA |
| PZ-005 | SMPZ-005-GW083010 | Pb-212 | Filtered | 0.05 U | 2.8 | 0.82 | 1.4 |
| PZ-005 | SMPZ-005-GW083010 | Pb-212 | Suspended | -0.09 U | 1.2 | 0.42 | 0.61 |
| PZ-005 | SMPZ-005-GW083010 | Pb-212 | Total | -0.04 | NA | 0.92 | NA |
| PZ-005 | SMPZ-005-GW083010 | Pb-214 | Filtered | 1.6 | 2.9 | 1.1 | 1.4 |
| PZ-005 | SMPZ-005-GW083010 | Pb-214 | Suspended | 1.91 | 1.5 | 0.6 | 0.73 |
| PZ-005 | SMPZ-005-GW083010 | Pb-214 | Total | 3.5 | NA | 1.3 | NA |
| PZ-005 | SMPZ-005-GW083010 | Sb-125 | Filtered | 2.6 U | 14 | 4.2 | 6.9 |
| PZ-005 | SMPZ-005-GW083010 | Sb-125 | Suspended | 1.5 U | 6.4 | 1.9 | 3.1 |
| PZ-005 | SMPZ-005-GW083010 | Sb-125 | Total | 4.1 | NA | 4.7 | NA |
| PZ-005 | SMPZ-005-GW083010 | Sn-126 | Filtered | 0.5 U | 1.3 | 0.39 | 0.62 |
| PZ-005 | SMPZ-005-GW083010 | Sn-126 | Suspended | 0.3 U | 0.7 | 0.21 | 0.33 |
| PZ-005 | SMPZ-005-GW083010 | Sn-126 | Total | 0.79 | NA | 0.44 | NA |
| PZ-005 | SMPZ-005-GW083010 | Sr-90 | Filtered | 0.047 U | 0.24 | 0.07 | 0.14 |
| PZ-005 | SMPZ-005-GW083010 | Sr-90 | Suspended | -0.008 U | 0.13 | 0.035 | 0.076 |
| PZ-005 | SMPZ-005-GW083010 | Sr-90 | Total | 0.039 | NA | 0.078 | NA |
| PZ-005 | SMPZ-005-GW083010 | Te-125m | Filtered | 0.6 U | 3.3 | 0.98 | 1.6 |
| PZ-005 | SMPZ-005-GW083010 | Te-125m | Suspended | 0.35 U | 1.5 | 0.44 | 0.72 |
| PZ-005 | SMPZ-005-GW083010 | Te-125m | Total | 0.9 | NA | 1.1 | NA |
| PZ-005 | SMPZ-005-GW083010 | Th-231 | Filtered | 0.229 | 0.008 | 0.027 | 0.007 |
| PZ-005 | SMPZ-005-GW083010 | Th-231 | Suspended | 0.0014 U | 0.034 | 0.0063 | 0.011 |
| PZ-005 | SMPZ-005-GW083010 | Th-231 | Total | 0.231 | NA | 0.028 | NA |
| PZ-005 | SMPZ-005-GW083010 | Th-234 | Filtered | 11.7 U | 25 | 9 | 12 |
| PZ-005 | SMPZ-005-GW083010 | Th-234 | Suspended | 4 U | 9.1 | 3.2 | 4.5 |
| PZ-005 | SMPZ-005-GW083010 | Th-234 | Total | 15.7 | NA | 9.6 | NA |
| PZ-005 | SMPZ-005-GW083010 | Tl-208 | Filtered | 0.15 U | 1.5 | 0.45 | 0.72 |
| PZ-005 | SMPZ-005-GW083010 | Tl-208 | Suspended | -0.02 U | 0.8 | 0.26 | 0.38 |
| PZ-005 | SMPZ-005-GW083010 | Tl-208 | Total | 0.13 | NA | 0.52 | NA |
| PZ-005 | SMPZ-005-GW083010 | Tm-171 | Filtered | -20 U | 430 | 130 | 210 |
| PZ-005 | SMPZ-005-GW083010 | Tm-171 | Suspended | 10 U | 130 | 40 | 65 |
| PZ-005 | SMPZ-005-GW083010 | Tm-171 | Total | -7 | NA | 140 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-005 | SMPZ-005-GW083010 | U-233/234 | Filtered | 6.03 | 0.02 | 0.28 | 0.005 |
| PZ-005 | SMPZ-005-GW083010 | U-233/234 | Suspended | 0.02 | 0.038 | 0.014 | 0.016 |
| PZ-005 | SMPZ-005-GW083010 | U-233/234 | Total | 6.05 | NA | 0.28 | NA |
| PZ-005 | SMPZ-005-GW083010 | U-235/236 | Filtered | 0.229 | 0.008 | 0.027 | 0.007 |
| PZ-005 | SMPZ-005-GW083010 | U-235/236 | Suspended | 0.0014 U | 0.034 | 0.0063 | 0.011 |
| PZ-005 | SMPZ-005-GW083010 | U-235/236 | Total | 0.231 | NA | 0.028 | NA |
| PZ-005 | SMPZ-005-GW083010 | U-238 | Filtered | 5.28 | 0.02 | 0.25 | 0.005 |
| PZ-005 | SMPZ-005-GW083010 | U-238 | Suspended | 0.024 K | 0.012 | 0.012 | 0.006 |
| PZ-005 | SMPZ-005-GW083010 | U-238 | Total | 5.31 | NA | 0.25 | NA |
| PZ-041 | SMPZ-041-GW082710 | Ac-227 | Filtered | -3.7 U | 9.1 | 2.7 | 4.4 |
| PZ-041 | SMPZ-041-GW082710 | Ac-227 | Suspended | -2.7 U | 4.7 | 1.4 | 2.3 |
| PZ-041 | SMPZ-041-GW082710 | Ac-227 | Total | -6.4 L | NA | 3.1 | NA |
| PZ-041 | SMPZ-041-GW082710 | Ac-228 | Filtered | 0.8 U | 4.6 | 1.3 | 2.1 |
| PZ-041 | SMPZ-041-GW082710 | Ac-228 | Suspended | 0.9 U | 2.9 | 1.1 | 1.4 |
| PZ-041 | SMPZ-041-GW082710 | Ac-228 | Total | 1.7 | NA | 1.7 | NA |
| PZ-041 | SMPZ-041-GW082710 | Ag-108 | Filtered | -0.023 U R | 0.11 | 0.031 | 0.05 |
| PZ-041 | SMPZ-041-GW082710 | Ag-108 | Suspended | 0.001 U R | 0.049 | 0.014 | 0.023 |
| PZ-041 | SMPZ-041-GW082710 | Ag-108 | Total | -0.022 R | NA | 0.034 | NA |
| PZ-041 | SMPZ-041-GW082710 | Ag-108m | Filtered | -0.25 U R | 1.1 | 0.33 | 0.54 |
| PZ-041 | SMPZ-041-GW082710 | Ag-108m | Suspended | 0.01 U R | 0.52 | 0.15 | 0.25 |
| PZ-041 | SMPZ-041-GW082710 | Ag-108m | Total | -0.24 R | NA | 0.37 | NA |
| PZ-041 | SMPZ-041-GW082710 | Ba-133 | Filtered | -3.6 U R | 14 | 4.2 | 6.7 |
| PZ-041 | SMPZ-041-GW082710 | Ba-133 | Suspended | 0 U R | 6.1 | 1.8 | 3 |
| PZ-041 | SMPZ-041-GW082710 | Ba-133 | Total | -3.6 R | NA | 4.5 | NA |
| PZ-041 | SMPZ-041-GW082710 | Ba-137m | Filtered | -0.13 U | 1.2 | 0.35 | 0.57 |
| PZ-041 | SMPZ-041-GW082710 | Ba-137m | Suspended | 0.03 U | 0.67 | 0.2 | 0.32 |
| PZ-041 | SMPZ-041-GW082710 | Ba-137m | Total | -0.1 | NA | 0.4 | NA |
| PZ-041 | SMPZ-041-GW082710 | Bi-212 | Filtered | 0.07 U | 12 | 3.5 | 5.7 |
| PZ-041 | SMPZ-041-GW082710 | Bi-212 | Suspended | 2.2 U | 6.7 | 2 | 3.2 |
| PZ-041 | SMPZ-041-GW082710 | Bi-212 | Total | 2.2 | NA | 4 | NA |
| PZ-041 | SMPZ-041-GW082710 | Bi-214 | Filtered | 0.5 U | 3 | 0.82 | 1.4 |
| PZ-041 | SMPZ-041-GW082710 | Bi-214 | Suspended | 1.51 | 1.7 | 0.63 | 0.81 |
| PZ-041 | SMPZ-041-GW082710 | Bi-214 | Total | 2 | NA | 1 | NA |
| PZ-041 | SMPZ-041-GW082710 | Cd-113m | Filtered | 300 U | 14000 | 4000 | 6600 |
| PZ-041 | SMPZ-041-GW082710 | Cd-113m | Suspended | 0 U | 7500 | 2200 | 3600 |
| PZ-041 | SMPZ-041-GW082710 | Cd-113m | Total | 300 | NA | 4600 | NA |
| PZ-041 | SMPZ-041-GW082710 | Cf-249 | Filtered | 0.2 U R | 5.8 | 1.7 | 2.7 |
| PZ-041 | SMPZ-041-GW082710 | Cf-249 | Suspended | -0.38 U R | 3 | 0.9 | 1.5 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-041 | SMPZ-041-GW082710 | Cf-249 | Total | -0.2 R | NA | 1.9 | NA |
| PZ-041 | SMPZ-041-GW082710 | Co-60 | Filtered | 0.36 U | 1.7 | 0.5 | 0.79 |
| PZ-041 | SMPZ-041-GW082710 | Co-60 | Suspended | 0.42 | 0.75 | 0.23 | 0.35 |
| PZ-041 | SMPZ-041-GW082710 | Co-60 | Total | 0.78 | NA | 0.55 | NA |
| PZ-041 | SMPZ-041-GW082710 | Cs-134 | Filtered | -0.14 U | 1.5 | 0.42 | 0.69 |
| PZ-041 | SMPZ-041-GW082710 | Cs-134 | Suspended | -0.24 U | 0.85 | 0.25 | 0.41 |
| PZ-041 | SMPZ-041-GW082710 | Cs-134 | Total | -0.38 | NA | 0.49 | NA |
| PZ-041 | SMPZ-041-GW082710 | Cs-137 | Filtered | -0.14 U | 1.3 | 0.37 | 0.6 |
| PZ-041 | SMPZ-041-GW082710 | Cs-137 | Suspended | 0.03 U | 0.71 | 0.21 | 0.34 |
| PZ-041 | SMPZ-041-GW082710 | Cs-137 | Total | -0.11 | NA | 0.42 | NA |
| PZ-041 | SMPZ-041-GW082710 | Eu-152 | Filtered | 0.07 U | 3.4 | 0.97 | 1.6 |
| PZ-041 | SMPZ-041-GW082710 | Eu-152 | Suspended | -0.33 U | 1.8 | 0.54 | 0.87 |
| PZ-041 | SMPZ-041-GW082710 | Eu-152 | Total | -0.3 | NA | 1.1 | NA |
| PZ-041 | SMPZ-041-GW082710 | Eu-154 | Filtered | -0.02 U | 13 | 3.6 | 6 |
| PZ-041 | SMPZ-041-GW082710 | Eu-154 | Suspended | 1.1 U | 5.4 | 1.6 | 2.6 |
| PZ-041 | SMPZ-041-GW082710 | Eu-154 | Total | 1.1 | NA | 4 | NA |
| PZ-041 | SMPZ-041-GW082710 | Eu-155 | Filtered | 0.05 U | 3.5 | 1 | 1.7 |
| PZ-041 | SMPZ-041-GW082710 | Eu-155 | Suspended | -0.04 U | 1.2 | 0.35 | 0.58 |
| PZ-041 | SMPZ-041-GW082710 | Eu-155 | Total | 0.02 | NA | 1.1 | NA |
| PZ-041 | SMPZ-041-GW082710 | gross_alpha | Filtered | 9.67 | 0.48 | 0.68 | 0.25 |
| PZ-041 | SMPZ-041-GW082710 | gross_alpha | Suspended | 0.75 | 0.51 | 0.21 | 0.27 |
| PZ-041 | SMPZ-041-GW082710 | gross_alpha | Total | 10.4 | NA | 0.72 | NA |
| PZ-041 | SMPZ-041-GW082710 | gross_beta | Filtered | 7.61 | 1.2 | 0.69 | 0.69 |
| PZ-041 | SMPZ-041-GW082710 | gross_beta | Suspended | 0.52 | 0.68 | 0.22 | 0.4 |
| PZ-041 | SMPZ-041-GW082710 | gross_beta | Total | 8.13 | NA | 0.72 | NA |
| PZ-041 | SMPZ-041-GW082710 | H-3 | Filtered | 18 U | 130 | 39 | 63 |
| PZ-041 | SMPZ-041-GW082710 | H-3 | Suspended | -7.3 U R | 21 | 5.2 | 9.5 |
| PZ-041 | SMPZ-041-GW082710 | H-3 | Total | 11 R | NA | 39 | NA |
| PZ-041 | SMPZ-041-GW082710 | H-3_Total | Filtered | 18 | 34 | 10 | 16 |
| PZ-041 | SMPZ-041-GW082710 | H-3_Total | Suspended | -7.3 U R | 18 | 4.1 | 8.1 |
| PZ-041 | SMPZ-041-GW082710 | H-3_Total | Total | 11 R | NA | 11 | NA |
| PZ-041 | SMPZ-041-GW082710 | Ho-166m | Filtered | 0.43 U | 2.1 | 0.62 | 0.99 |
| PZ-041 | SMPZ-041-GW082710 | Ho-166m | Suspended | -0.002 U | 0.93 | 0.27 | 0.44 |
| PZ-041 | SMPZ-041-GW082710 | Ho-166m | Total | 0.43 | NA | 0.68 | NA |
| PZ-041 | SMPZ-041-GW082710 | K-40 | Filtered | -12 U | 23 | 20 | 11 |
| PZ-041 | SMPZ-041-GW082710 | K-40 | Suspended | 3.3 U | 12 | 3.3 | 5.7 |
| PZ-041 | SMPZ-041-GW082710 | K-40 | Total | -9 | NA | 20 | NA |
| PZ-041 | SMPZ-041-GW082710 | Na-22 | Filtered | -0.16 U | 1.8 | 0.5 | 0.81 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|--------|----------------|
| PZ-041 | SMPZ-041-GW082710 | Na-22 | Suspended | 0.13 U | 0.75 | 0.22 | 0.35 |
| PZ-041 | SMPZ-041-GW082710 | Na-22 | Total | -0.03 | NA | 0.54 | NA |
| PZ-041 | SMPZ-041-GW082710 | Nb-94 | Filtered | 0.01 U | 1.3 | 0.36 | 0.59 |
| PZ-041 | SMPZ-041-GW082710 | Nb-94 | Suspended | 0.09 U | 0.65 | 0.19 | 0.31 |
| PZ-041 | SMPZ-041-GW082710 | Nb-94 | Total | 0.1 | NA | 0.41 | NA |
| PZ-041 | SMPZ-041-GW082710 | Np-236 | Filtered | 0.17 U | 2.7 | 0.79 | 1.3 |
| PZ-041 | SMPZ-041-GW082710 | Np-236 | Suspended | -0.01 U | 1.2 | 0.36 | 0.6 |
| PZ-041 | SMPZ-041-GW082710 | Np-236 | Total | 0.16 | NA | 0.87 | NA |
| PZ-041 | SMPZ-041-GW082710 | Np-239 | Filtered | 0.6 U | 7.8 | 2.3 | 3.7 |
| PZ-041 | SMPZ-041-GW082710 | Np-239 | Suspended | 1.34 U | 3.1 | 0.93 | 1.5 |
| PZ-041 | SMPZ-041-GW082710 | Np-239 | Total | 1.9 | NA | 2.5 | NA |
| PZ-041 | SMPZ-041-GW082710 | Pa-231 | Filtered | -6 U | 54 | 16 | 26 |
| PZ-041 | SMPZ-041-GW082710 | Pa-231 | Suspended | -2.8 U | 25 | 7.4 | 12 |
| PZ-041 | SMPZ-041-GW082710 | Pa-231 | Total | -9 | NA | 17 | NA |
| PZ-041 | SMPZ-041-GW082710 | Pb-212 | Filtered | 1.88 | 2.4 | 0.89 | 1.1 |
| PZ-041 | SMPZ-041-GW082710 | Pb-212 | Suspended | 0.36 U | 1.3 | 0.47 | 0.65 |
| PZ-041 | SMPZ-041-GW082710 | Pb-212 | Total | 2.2 | NA | 1 | NA |
| PZ-041 | SMPZ-041-GW082710 | Pb-214 | Filtered | -0.9 U | 3 | 2 | 1.5 |
| PZ-041 | SMPZ-041-GW082710 | Pb-214 | Suspended | 2.17 | 1.5 | 0.61 | 0.72 |
| PZ-041 | SMPZ-041-GW082710 | Pb-214 | Total | 1.3 | NA | 2.1 | NA |
| PZ-041 | SMPZ-041-GW082710 | Sb-125 | Filtered | 2.4 U | 9.3 | 2.8 | 4.4 |
| PZ-041 | SMPZ-041-GW082710 | Sb-125 | Suspended | 0.9 U | 5.8 | 1.7 | 2.8 |
| PZ-041 | SMPZ-041-GW082710 | Sb-125 | Total | 3.3 | NA | 3.2 | NA |
| PZ-041 | SMPZ-041-GW082710 | Sn-126 | Filtered | -0.33 U | 1.3 | 0.37 | 0.59 |
| PZ-041 | SMPZ-041-GW082710 | Sn-126 | Suspended | 0.4 | 0.76 | 0.23 | 0.36 |
| PZ-041 | SMPZ-041-GW082710 | Sn-126 | Total | 0.08 | NA | 0.44 | NA |
| PZ-041 | SMPZ-041-GW082710 | Sr-90 | Filtered | -0.064 U | 0.18 | 0.046 | 0.11 |
| PZ-041 | SMPZ-041-GW082710 | Sr-90 | Suspended | 0.06 U | 0.15 | 0.045 | 0.089 |
| PZ-041 | SMPZ-041-GW082710 | Sr-90 | Total | -0.005 | NA | 0.065 | NA |
| PZ-041 | SMPZ-041-GW082710 | Te-125m | Filtered | 0.55 U | 2.1 | 0.64 | 1 |
| PZ-041 | SMPZ-041-GW082710 | Te-125m | Suspended | 0.22 U | 1.3 | 0.4 | 0.65 |
| PZ-041 | SMPZ-041-GW082710 | Te-125m | Total | 0.77 | NA | 0.75 | NA |
| PZ-041 | SMPZ-041-GW082710 | Th-231 | Filtered | 0.271 | 0.01 | 0.033 | 0.008 |
| PZ-041 | SMPZ-041-GW082710 | Th-231 | Suspended | 0.0037 U | 0.03 | 0.0064 | 0.0085 |
| PZ-041 | SMPZ-041-GW082710 | Th-231 | Total | 0.275 | NA | 0.034 | NA |
| PZ-041 | SMPZ-041-GW082710 | Th-234 | Filtered | -3.7 U | 23 | 8.4 | 11 |
| PZ-041 | SMPZ-041-GW082710 | Th-234 | Suspended | 4.8 | 8.7 | 2.8 | 4.3 |
| PZ-041 | SMPZ-041-GW082710 | Th-234 | Total | 1.1 | NA | 8.8 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| PZ-041 | SMPZ-041-GW082710 | Tl-208 | Filtered | 0.27 U | 1.7 | 0.46 | 0.8 |
| PZ-041 | SMPZ-041-GW082710 | Tl-208 | Suspended | -0.06 U | 0.98 | 0.29 | 0.48 |
| PZ-041 | SMPZ-041-GW082710 | Tl-208 | Total | 0.21 | NA | 0.54 | NA |
| PZ-041 | SMPZ-041-GW082710 | Tm-171 | Filtered | 5 U | 420 | 120 | 200 |
| PZ-041 | SMPZ-041-GW082710 | Tm-171 | Suspended | -30 U | 130 | 38 | 62 |
| PZ-041 | SMPZ-041-GW082710 | Tm-171 | Total | -20 | NA | 130 | NA |
| PZ-041 | SMPZ-041-GW082710 | U-233/234 | Filtered | 8.22 | 0.02 | 0.38 | 0.007 |
| PZ-041 | SMPZ-041-GW082710 | U-233/234 | Suspended | 0.055 | 0.035 | 0.019 | 0.014 |
| PZ-041 | SMPZ-041-GW082710 | U-233/234 | Total | 8.28 | NA | 0.38 | NA |
| PZ-041 | SMPZ-041-GW082710 | U-235/236 | Filtered | 0.271 | 0.01 | 0.033 | 0.008 |
| PZ-041 | SMPZ-041-GW082710 | U-235/236 | Suspended | 0.0037 U | 0.03 | 0.0064 | 0.0085 |
| PZ-041 | SMPZ-041-GW082710 | U-235/236 | Total | 0.275 | NA | 0.034 | NA |
| PZ-041 | SMPZ-041-GW082710 | U-238 | Filtered | 6.79 | 0.02 | 0.32 | 0.007 |
| PZ-041 | SMPZ-041-GW082710 | U-238 | Suspended | 0.037 K | 0.029 | 0.015 | 0.01 |
| PZ-041 | SMPZ-041-GW082710 | U-238 | Total | 6.82 | NA | 0.32 | NA |
| PZ-052 | SMPZ-052-GW083010 | Ac-227 | Filtered | -2.8 U | 9 | 2.7 | 4.4 |
| PZ-052 | SMPZ-052-GW083010 | Ac-227 | Suspended | -3.1 L U | 4.6 | 1.4 | 2.2 |
| PZ-052 | SMPZ-052-GW083010 | Ac-227 | Total | -5.9 | NA | 3 | NA |
| PZ-052 | SMPZ-052-GW083010 | Ac-228 | Filtered | 0 U | 6.2 | 1.8 | 2.9 |
| PZ-052 | SMPZ-052-GW083010 | Ac-228 | Suspended | 2.12 | 2.2 | 0.7 | 1 |
| PZ-052 | SMPZ-052-GW083010 | Ac-228 | Total | 2.1 | NA | 1.9 | NA |
| PZ-052 | SMPZ-052-GW083010 | Ag-108 | Filtered | 0.019 U R | 0.098 | 0.029 | 0.046 |
| PZ-052 | SMPZ-052-GW083010 | Ag-108 | Suspended | 0.012 U R | 0.05 | 0.015 | 0.024 |
| PZ-052 | SMPZ-052-GW083010 | Ag-108 | Total | 0.031 R | NA | 0.032 | NA |
| PZ-052 | SMPZ-052-GW083010 | Ag-108m | Filtered | 0.2 U R | 1.1 | 0.31 | 0.5 |
| PZ-052 | SMPZ-052-GW083010 | Ag-108m | Suspended | 0.13 U R | 0.54 | 0.16 | 0.26 |
| PZ-052 | SMPZ-052-GW083010 | Ag-108m | Total | 0.33 R | NA | 0.35 | NA |
| PZ-052 | SMPZ-052-GW083010 | Ba-133 | Filtered | 4.5 U R | 12 | 3.5 | 5.5 |
| PZ-052 | SMPZ-052-GW083010 | Ba-133 | Suspended | 1.3 U R | 5.3 | 1.6 | 2.6 |
| PZ-052 | SMPZ-052-GW083010 | Ba-133 | Total | 5.8 R | NA | 3.8 | NA |
| PZ-052 | SMPZ-052-GW083010 | Ba-137m | Filtered | 0.18 U | 1.2 | 0.35 | 0.56 |
| PZ-052 | SMPZ-052-GW083010 | Ba-137m | Suspended | -0.24 U | 0.74 | 0.22 | 0.35 |
| PZ-052 | SMPZ-052-GW083010 | Ba-137m | Total | -0.07 | NA | 0.41 | NA |
| PZ-052 | SMPZ-052-GW083010 | Bi-212 | Filtered | -2 U | 12 | 3.5 | 5.7 |
| PZ-052 | SMPZ-052-GW083010 | Bi-212 | Suspended | 1.9 U | 5.7 | 1.6 | 2.7 |
| PZ-052 | SMPZ-052-GW083010 | Bi-212 | Total | -0.2 | NA | 3.9 | NA |
| PZ-052 | SMPZ-052-GW083010 | Bi-214 | Filtered | -1.3 U | 3.2 | 2.2 | 1.5 |
| PZ-052 | SMPZ-052-GW083010 | Bi-214 | Suspended | 1.16 | 1.6 | 0.52 | 0.76 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-052 | SMPZ-052-GW083010 | Bi-214 | Total | -0.1 | NA | 2.2 | NA |
| PZ-052 | SMPZ-052-GW083010 | Cd-113m | Filtered | -300 U | 13000 | 3900 | 6400 |
| PZ-052 | SMPZ-052-GW083010 | Cd-113m | Suspended | 1700 U | 6900 | 2000 | 3300 |
| PZ-052 | SMPZ-052-GW083010 | Cd-113m | Total | 1400 | NA | 4400 | NA |
| PZ-052 | SMPZ-052-GW083010 | Cf-249 | Filtered | -0.9 U R | 6 | 1.8 | 2.9 |
| PZ-052 | SMPZ-052-GW083010 | Cf-249 | Suspended | 0.23 U R | 3.2 | 0.93 | 1.5 |
| PZ-052 | SMPZ-052-GW083010 | Cf-249 | Total | -0.6 R | NA | 2 | NA |
| PZ-052 | SMPZ-052-GW083010 | Co-60 | Filtered | -0.14 U | 1.7 | 0.48 | 0.77 |
| PZ-052 | SMPZ-052-GW083010 | Co-60 | Suspended | 0.04 U | 0.83 | 0.24 | 0.39 |
| PZ-052 | SMPZ-052-GW083010 | Co-60 | Total | -0.1 | NA | 0.53 | NA |
| PZ-052 | SMPZ-052-GW083010 | Cs-134 | Filtered | 0.04 U | 1.5 | 0.44 | 0.72 |
| PZ-052 | SMPZ-052-GW083010 | Cs-134 | Suspended | -0.15 U | 0.91 | 0.27 | 0.44 |
| PZ-052 | SMPZ-052-GW083010 | Cs-134 | Total | -0.11 | NA | 0.52 | NA |
| PZ-052 | SMPZ-052-GW083010 | Cs-137 | Filtered | 0.19 U | 1.3 | 0.37 | 0.59 |
| PZ-052 | SMPZ-052-GW083010 | Cs-137 | Suspended | -0.26 U | 0.78 | 0.23 | 0.37 |
| PZ-052 | SMPZ-052-GW083010 | Cs-137 | Total | -0.07 | NA | 0.43 | NA |
| PZ-052 | SMPZ-052-GW083010 | Eu-152 | Filtered | -0.3 U | 3.6 | 1.1 | 1.7 |
| PZ-052 | SMPZ-052-GW083010 | Eu-152 | Suspended | 0.1 U | 1.7 | 0.5 | 0.83 |
| PZ-052 | SMPZ-052-GW083010 | Eu-152 | Total | -0.2 | NA | 1.2 | NA |
| PZ-052 | SMPZ-052-GW083010 | Eu-154 | Filtered | -2.4 U | 14 | 4 | 6.5 |
| PZ-052 | SMPZ-052-GW083010 | Eu-154 | Suspended | 0.09 U | 5.7 | 1.6 | 2.7 |
| PZ-052 | SMPZ-052-GW083010 | Eu-154 | Total | -2.3 | NA | 4.4 | NA |
| PZ-052 | SMPZ-052-GW083010 | Eu-155 | Filtered | 0.04 U | 3.1 | 0.92 | 1.5 |
| PZ-052 | SMPZ-052-GW083010 | Eu-155 | Suspended | 0.008 U | 1.1 | 0.32 | 0.52 |
| PZ-052 | SMPZ-052-GW083010 | Eu-155 | Total | 0.04 | NA | 0.97 | NA |
| PZ-052 | SMPZ-052-GW083110 | gross_alpha | Filtered | 13.8 | 0.44 | 0.85 | 0.23 |
| PZ-052 | SMPZ-052-GW083110 | gross_alpha | Suspended | 0.37 | 0.38 | 0.14 | 0.2 |
| PZ-052 | SMPZ-052-GW083110 | gross_alpha | Total | 14.2 | NA | 0.86 | NA |
| PZ-052 | SMPZ-052-GW083110 | gross_beta | Filtered | 9.4 | 2.5 | 1.2 | 1.5 |
| PZ-052 | SMPZ-052-GW083110 | gross_beta | Suspended | 0.04 U | 0.72 | 0.21 | 0.42 |
| PZ-052 | SMPZ-052-GW083110 | gross_beta | Total | 9.4 | NA | 1.2 | NA |
| PZ-052 | SMPZ-052-GW083010 | H-3 | Filtered | -19 U | 150 | 45 | 74 |
| PZ-052 | SMPZ-052-GW083010 | H-3 | Suspended | -8.4 U R | 21 | 4.9 | 9.3 |
| PZ-052 | SMPZ-052-GW083010 | H-3 | Total | -27 R | NA | 45 | NA |
| PZ-052 | SMPZ-052-GW083010 | H-3_Total | Filtered | -18.8 L U | 36 | 8.8 | 17 |
| PZ-052 | SMPZ-052-GW083010 | H-3_Total | Suspended | -8.4 L U | 18 | 3.9 | 7.8 |
| PZ-052 | SMPZ-052-GW083010 | H-3_Total | Total | -27.2 L R | NA | 9.6 | NA |
| PZ-052 | SMPZ-052-GW083010 | Ho-166m | Filtered | 0.1 U | 2.2 | 0.63 | 1 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-052 | SMPZ-052-GW083010 | Ho-166m | Suspended | 0.12 U | 1.1 | 0.33 | 0.54 |
| PZ-052 | SMPZ-052-GW083010 | Ho-166m | Total | 0.22 | NA | 0.71 | NA |
| PZ-052 | SMPZ-052-GW083010 | K-40 | Filtered | 9.9 | 16 | 4.9 | 7.1 |
| PZ-052 | SMPZ-052-GW083010 | K-40 | Suspended | 9.7 | 9.9 | 3.9 | 4.7 |
| PZ-052 | SMPZ-052-GW083010 | K-40 | Total | 19.6 | NA | 6.3 | NA |
| PZ-052 | SMPZ-052-GW083010 | Na-22 | Filtered | -0.04 U | 1.7 | 0.49 | 0.8 |
| PZ-052 | SMPZ-052-GW083010 | Na-22 | Suspended | -0.08 U | 0.91 | 0.26 | 0.43 |
| PZ-052 | SMPZ-052-GW083010 | Na-22 | Total | -0.12 | NA | 0.55 | NA |
| PZ-052 | SMPZ-052-GW083010 | Nb-94 | Filtered | 0.23 U | 1.1 | 0.32 | 0.51 |
| PZ-052 | SMPZ-052-GW083010 | Nb-94 | Suspended | -0.06 U | 0.67 | 0.2 | 0.32 |
| PZ-052 | SMPZ-052-GW083010 | Nb-94 | Total | 0.17 | NA | 0.38 | NA |
| PZ-052 | SMPZ-052-GW083010 | Np-236 | Filtered | 0.02 U | 2.5 | 0.72 | 1.2 |
| PZ-052 | SMPZ-052-GW083010 | Np-236 | Suspended | -0.04 U | 1.2 | 0.36 | 0.58 |
| PZ-052 | SMPZ-052-GW083010 | Np-236 | Total | -0.02 | NA | 0.81 | NA |
| PZ-052 | SMPZ-052-GW083010 | Np-239 | Filtered | 0.8 U | 7.4 | 2.2 | 3.5 |
| PZ-052 | SMPZ-052-GW083010 | Np-239 | Suspended | 0.5 U | 3.8 | 1.1 | 1.9 |
| PZ-052 | SMPZ-052-GW083010 | Np-239 | Total | 1.3 | NA | 2.4 | NA |
| PZ-052 | SMPZ-052-GW083010 | Pa-231 | Filtered | 8 U | 50 | 15 | 24 |
| PZ-052 | SMPZ-052-GW083010 | Pa-231 | Suspended | 11.1 U | 25 | 7.5 | 12 |
| PZ-052 | SMPZ-052-GW083010 | Pa-231 | Total | 19 | NA | 16 | NA |
| PZ-052 | SMPZ-052-GW083010 | Pb-212 | Filtered | -1 U | 2.9 | 1.5 | 1.4 |
| PZ-052 | SMPZ-052-GW083010 | Pb-212 | Suspended | 0.08 U | 1.1 | 0.33 | 0.55 |
| PZ-052 | SMPZ-052-GW083010 | Pb-212 | Total | -0.9 | NA | 1.6 | NA |
| PZ-052 | SMPZ-052-GW083010 | Pb-214 | Filtered | -0.7 U | 2.8 | 1.4 | 1.3 |
| PZ-052 | SMPZ-052-GW083010 | Pb-214 | Suspended | 1.8 | 1.4 | 0.49 | 0.65 |
| PZ-052 | SMPZ-052-GW083010 | Pb-214 | Total | 1.1 | NA | 1.5 | NA |
| PZ-052 | SMPZ-052-GW083010 | Sb-125 | Filtered | 1.6 U | 13 | 3.7 | 6 |
| PZ-052 | SMPZ-052-GW083010 | Sb-125 | Suspended | 1.5 U | 6 | 1.8 | 2.9 |
| PZ-052 | SMPZ-052-GW083010 | Sb-125 | Total | 3.1 | NA | 4.1 | NA |
| PZ-052 | SMPZ-052-GW083010 | Sn-126 | Filtered | 0.7 | 1.3 | 0.41 | 0.62 |
| PZ-052 | SMPZ-052-GW083010 | Sn-126 | Suspended | 0.35 U | 0.81 | 0.25 | 0.39 |
| PZ-052 | SMPZ-052-GW083010 | Sn-126 | Total | 1.05 | NA | 0.48 | NA |
| PZ-052 | SMPZ-052-GW083010 | Sr-90 | Filtered | 0.053 U | 0.15 | 0.044 | 0.087 |
| PZ-052 | SMPZ-052-GW083010 | Sr-90 | Suspended | -0.012 U | 0.054 | 0.015 | 0.03 |
| PZ-052 | SMPZ-052-GW083010 | Sr-90 | Total | 0.041 | NA | 0.046 | NA |
| PZ-052 | SMPZ-052-GW083010 | Te-125m | Filtered | 0.37 U | 2.9 | 0.85 | 1.4 |
| PZ-052 | SMPZ-052-GW083010 | Te-125m | Suspended | 0.35 U | 1.4 | 0.42 | 0.68 |
| PZ-052 | SMPZ-052-GW083010 | Te-125m | Total | 0.71 | NA | 0.95 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-052 | SMPZ-052-GW083010 | Th-231 | Filtered | 0.47 | 0.008 | 0.042 | 0.007 |
| PZ-052 | SMPZ-052-GW083010 | Th-231 | Suspended | 0.0035 U | 0.028 | 0.006 | 0.0079 |
| PZ-052 | SMPZ-052-GW083010 | Th-231 | Total | 0.474 | NA | 0.043 | NA |
| PZ-052 | SMPZ-052-GW083010 | Th-234 | Filtered | 9.2 U | 23 | 8.1 | 11 |
| PZ-052 | SMPZ-052-GW083010 | Th-234 | Suspended | 0.7 U | 7.9 | 2.1 | 3.8 |
| PZ-052 | SMPZ-052-GW083010 | Th-234 | Total | 9.9 | NA | 8.4 | NA |
| PZ-052 | SMPZ-052-GW083010 | Tl-208 | Filtered | -0.8 U | 1.8 | 1.8 | 0.8 |
| PZ-052 | SMPZ-052-GW083010 | Tl-208 | Suspended | -0.18 U | 0.95 | 0.38 | 0.46 |
| PZ-052 | SMPZ-052-GW083010 | Tl-208 | Total | -1 | NA | 1.8 | NA |
| PZ-052 | SMPZ-052-GW083010 | Tm-171 | Filtered | 20 U | 350 | 100 | 170 |
| PZ-052 | SMPZ-052-GW083010 | Tm-171 | Suspended | 12 U | 120 | 37 | 61 |
| PZ-052 | SMPZ-052-GW083010 | Tm-171 | Total | 30 | NA | 110 | NA |
| PZ-052 | SMPZ-052-GW083010 | U-233/234 | Filtered | 9.74 | 0.02 | 0.44 | 0.006 |
| PZ-052 | SMPZ-052-GW083010 | U-233/234 | Suspended | -0.0126 U | 0.04 | 0.0078 | 0.017 |
| PZ-052 | SMPZ-052-GW083010 | U-233/234 | Total | 9.73 | NA | 0.44 | NA |
| PZ-052 | SMPZ-052-GW083010 | U-235/236 | Filtered | 0.47 | 0.008 | 0.042 | 0.007 |
| PZ-052 | SMPZ-052-GW083010 | U-235/236 | Suspended | 0.0035 U | 0.028 | 0.006 | 0.0079 |
| PZ-052 | SMPZ-052-GW083010 | U-235/236 | Total | 0.474 | NA | 0.043 | NA |
| PZ-052 | SMPZ-052-GW083010 | U-238 | Filtered | 8.74 | 0.02 | 0.39 | 0.008 |
| PZ-052 | SMPZ-052-GW083010 | U-238 | Suspended | 0.008 U | 0.033 | 0.011 | 0.013 |
| PZ-052 | SMPZ-052-GW083010 | U-238 | Total | 8.75 | NA | 0.39 | NA |
| PZ-056 | SMPZ-056-GW082410 | H-3 | Filtered | 75 | 130 | 40 | 64 |
| PZ-056 | SMPZ-056-GW082410 | H-3 | Suspended | -5 U | 39 | 10 | 17 |
| PZ-056 | SMPZ-056-GW082410 | H-3 | Total | 70 | NA | 41 | NA |
| PZ-098 | SMPZ-098-GW083110 | Ac-227 | Filtered | -0.1 U | 13 | 3.8 | 6.2 |
| PZ-098 | SMPZ-098-GW083110 | Ac-227 | Suspended | -1.8 U | 4.7 | 1.4 | 2.3 |
| PZ-098 | SMPZ-098-GW083110 | Ac-227 | Total | -1.9 | NA | 4 | NA |
| PZ-098 | SMPZ-098-GW083110 | Ac-228 | Filtered | 4.3 | 4.2 | 1.4 | 2 |
| PZ-098 | SMPZ-098-GW083110 | Ac-228 | Suspended | 0.3 U | 3.1 | 1.2 | 1.5 |
| PZ-098 | SMPZ-098-GW083110 | Ac-228 | Total | 4.6 | NA | 1.8 | NA |
| PZ-098 | SMPZ-098-GW083110 | Ag-108 | Filtered | -0.033 U R | 0.096 | 0.029 | 0.046 |
| PZ-098 | SMPZ-098-GW083110 | Ag-108 | Suspended | -0.01 U R | 0.054 | 0.016 | 0.026 |
| PZ-098 | SMPZ-098-GW083110 | Ag-108 | Total | -0.043 R | NA | 0.033 | NA |
| PZ-098 | SMPZ-098-GW083110 | Ag-108m | Filtered | -0.35 U R | 1 | 0.31 | 0.49 |
| PZ-098 | SMPZ-098-GW083110 | Ag-108m | Suspended | -0.11 U R | 0.58 | 0.17 | 0.28 |
| PZ-098 | SMPZ-098-GW083110 | Ag-108m | Total | -0.46 R | NA | 0.35 | NA |
| PZ-098 | SMPZ-098-GW083110 | Ba-133 | Filtered | -1 U R | 13 | 3.9 | 6.3 |
| PZ-098 | SMPZ-098-GW083110 | Ba-133 | Suspended | 0.07 U R | 4.6 | 1.3 | 2.2 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-098 | SMPZ-098-GW083110 | Ba-133 | Total | -1 R | NA | 4.1 | NA |
| PZ-098 | SMPZ-098-GW083110 | Ba-137m | Filtered | -0.13 U | 1.3 | 0.37 | 0.61 |
| PZ-098 | SMPZ-098-GW083110 | Ba-137m | Suspended | 0.02 U | 0.69 | 0.2 | 0.33 |
| PZ-098 | SMPZ-098-GW083110 | Ba-137m | Total | -0.11 | NA | 0.42 | NA |
| PZ-098 | SMPZ-098-GW083110 | Bi-212 | Filtered | -8 U | 12 | 20 | 6 |
| PZ-098 | SMPZ-098-GW083110 | Bi-212 | Suspended | 1.9 U | 6.4 | 1.9 | 3 |
| PZ-098 | SMPZ-098-GW083110 | Bi-212 | Total | -6 | NA | 20 | NA |
| PZ-098 | SMPZ-098-GW083110 | Bi-214 | Filtered | 1.2 U | 3.1 | 1.2 | 1.5 |
| PZ-098 | SMPZ-098-GW083110 | Bi-214 | Suspended | -0.22 U | 1.7 | 0.6 | 0.83 |
| PZ-098 | SMPZ-098-GW083110 | Bi-214 | Total | 1 | NA | 1.3 | NA |
| PZ-098 | SMPZ-098-GW083110 | Cd-113m | Filtered | 500 U | 17000 | 4900 | 8100 |
| PZ-098 | SMPZ-098-GW083110 | Cd-113m | Suspended | 2000 U | 7200 | 2100 | 3500 |
| PZ-098 | SMPZ-098-GW083110 | Cd-113m | Total | 2500 | NA | 5400 | NA |
| PZ-098 | SMPZ-098-GW083110 | Cf-249 | Filtered | 0.7 U R | 5.7 | 1.7 | 2.7 |
| PZ-098 | SMPZ-098-GW083110 | Cf-249 | Suspended | -0.5 U R | 3.4 | 1 | 1.6 |
| PZ-098 | SMPZ-098-GW083110 | Cf-249 | Total | 0.2 R | NA | 2 | NA |
| PZ-098 | SMPZ-098-GW083110 | Co-60 | Filtered | -0.22 U | 1.4 | 0.41 | 0.65 |
| PZ-098 | SMPZ-098-GW083110 | Co-60 | Suspended | 0 U | 0.94 | 0.27 | 0.44 |
| PZ-098 | SMPZ-098-GW083110 | Co-60 | Total | -0.22 | NA | 0.49 | NA |
| PZ-098 | SMPZ-098-GW083110 | Cs-134 | Filtered | -0.3 U | 1.4 | 0.41 | 0.67 |
| PZ-098 | SMPZ-098-GW083110 | Cs-134 | Suspended | -0.11 U | 0.86 | 0.25 | 0.41 |
| PZ-098 | SMPZ-098-GW083110 | Cs-134 | Total | -0.41 SK | NA | 0.49 | NA |
| PZ-098 | SMPZ-098-GW083110 | Cs-137 | Filtered | -0.14 U | 1.3 | 0.4 | 0.64 |
| PZ-098 | SMPZ-098-GW083110 | Cs-137 | Suspended | 0.02 U | 0.73 | 0.21 | 0.35 |
| PZ-098 | SMPZ-098-GW083110 | Cs-137 | Total | -0.12 | NA | 0.45 | NA |
| PZ-098 | SMPZ-098-GW083110 | Eu-152 | Filtered | 0.6 U | 3.4 | 1 | 1.6 |
| PZ-098 | SMPZ-098-GW083110 | Eu-152 | Suspended | 0.3 U | 1.9 | 0.56 | 0.91 |
| PZ-098 | SMPZ-098-GW083110 | Eu-152 | Total | 1 | NA | 1.2 | NA |
| PZ-098 | SMPZ-098-GW083110 | Eu-154 | Filtered | -0.6 U | 10 | 3 | 4.8 |
| PZ-098 | SMPZ-098-GW083110 | Eu-154 | Suspended | 0.02 U | 5.8 | 1.7 | 2.7 |
| PZ-098 | SMPZ-098-GW083110 | Eu-154 | Total | -0.6 | NA | 3.4 | NA |
| PZ-098 | SMPZ-098-GW083110 | Eu-155 | Filtered | -0.06 U | 3.6 | 1.1 | 1.7 |
| PZ-098 | SMPZ-098-GW083110 | Eu-155 | Suspended | 0.1 U | 1.3 | 0.38 | 0.62 |
| PZ-098 | SMPZ-098-GW083110 | Eu-155 | Total | 0.04 SK | NA | 1.1 | NA |
| PZ-098 | SMPZ-098-GW083110 | gross_alpha | Filtered | 13.3 | 0.47 | 0.84 | 0.25 |
| PZ-098 | SMPZ-098-GW083110 | gross_alpha | Suspended | 0.72 | 0.46 | 0.19 | 0.23 |
| PZ-098 | SMPZ-098-GW083110 | gross_alpha | Total | 14.1 | NA | 0.86 | NA |
| PZ-098 | SMPZ-098-GW083110 | gross_beta | Filtered | 11.9 | 2.3 | 1.2 | 1.3 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| PZ-098 | SMPZ-098-GW083110 | gross_beta | Suspended | 1.17 | 0.67 | 0.25 | 0.39 |
| PZ-098 | SMPZ-098-GW083110 | gross_beta | Total | 13.1 | NA | 1.3 | NA |
| PZ-098 | SMPZ-098-GW083110 | H-3 | Filtered | 39 U B | 130 | 39 | 64 |
| PZ-098 | SMPZ-098-GW083110 | H-3 | Suspended | -6.6 U RB | 22 | 5.5 | 10 |
| PZ-098 | SMPZ-098-GW083110 | H-3 | Total | 33 RB | NA | 40 | NA |
| PZ-098 | SMPZ-098-GW083110 | Ho-166m | Filtered | 0.11 U | 1.5 | 0.42 | 0.69 |
| PZ-098 | SMPZ-098-GW083110 | Ho-166m | Suspended | 0.21 U | 1.1 | 0.31 | 0.5 |
| PZ-098 | SMPZ-098-GW083110 | Ho-166m | Total | 0.33 SK | NA | 0.53 | NA |
| PZ-098 | SMPZ-098-GW083110 | K-40 | Filtered | 4.3 U | 25 | 6.4 | 12 |
| PZ-098 | SMPZ-098-GW083110 | K-40 | Suspended | 15.7 | 12 | 3.9 | 5.9 |
| PZ-098 | SMPZ-098-GW083110 | K-40 | Total | 20 | NA | 7.5 | NA |
| PZ-098 | SMPZ-098-GW083110 | Na-22 | Filtered | 0 U | 1.6 | 0.45 | 0.74 |
| PZ-098 | SMPZ-098-GW083110 | Na-22 | Suspended | 0 U | 1.2 | 0.34 | 0.57 |
| PZ-098 | SMPZ-098-GW083110 | Na-22 | Total | 0 | NA | 0.56 | NA |
| PZ-098 | SMPZ-098-GW083110 | Nb-94 | Filtered | 0.58 | 0.88 | 0.27 | 0.41 |
| PZ-098 | SMPZ-098-GW083110 | Nb-94 | Suspended | 0.02 U | 0.67 | 0.2 | 0.32 |
| PZ-098 | SMPZ-098-GW083110 | Nb-94 | Total | 0.6 | NA | 0.34 | NA |
| PZ-098 | SMPZ-098-GW083110 | Np-236 | Filtered | -0.5 U | 3 | 0.91 | 1.5 |
| PZ-098 | SMPZ-098-GW083110 | Np-236 | Suspended | -0.34 U | 1.3 | 0.39 | 0.64 |
| PZ-098 | SMPZ-098-GW083110 | Np-236 | Total | -0.84 SK | NA | 0.99 | NA |
| PZ-098 | SMPZ-098-GW083110 | Np-239 | Filtered | -2.1 U | 8.2 | 2.5 | 4 |
| PZ-098 | SMPZ-098-GW083110 | Np-239 | Suspended | 0.82 U | 2.9 | 0.87 | 1.4 |
| PZ-098 | SMPZ-098-GW083110 | Np-239 | Total | -1.2 | NA | 2.6 | NA |
| PZ-098 | SMPZ-098-GW083110 | Pa-231 | Filtered | -8 U | 54 | 16 | 26 |
| PZ-098 | SMPZ-098-GW083110 | Pa-231 | Suspended | 7 U | 28 | 8.5 | 14 |
| PZ-098 | SMPZ-098-GW083110 | Pa-231 | Total | -1 | NA | 18 | NA |
| PZ-098 | SMPZ-098-GW083110 | Pb-212 | Filtered | 1.7 | 3.3 | 1.3 | 1.6 |
| PZ-098 | SMPZ-098-GW083110 | Pb-212 | Suspended | 0.19 U | 1.3 | 0.45 | 0.65 |
| PZ-098 | SMPZ-098-GW083110 | Pb-212 | Total | 1.9 | NA | 1.3 | NA |
| PZ-098 | SMPZ-098-GW083110 | Pb-214 | Filtered | 0.3 U | 2.8 | 1 | 1.4 |
| PZ-098 | SMPZ-098-GW083110 | Pb-214 | Suspended | -0.88 U | 1.7 | 0.8 | 0.82 |
| PZ-098 | SMPZ-098-GW083110 | Pb-214 | Total | -0.6 | NA | 1.3 | NA |
| PZ-098 | SMPZ-098-GW083110 | Sb-125 | Filtered | -0.3 U | 15 | 4.4 | 7.2 |
| PZ-098 | SMPZ-098-GW083110 | Sb-125 | Suspended | -1.5 U | 6.7 | 2 | 3.3 |
| PZ-098 | SMPZ-098-GW083110 | Sb-125 | Total | -1.8 SK | NA | 4.8 | NA |
| PZ-098 | SMPZ-098-GW083110 | Sn-126 | Filtered | -0.21 U | 1.3 | 0.4 | 0.64 |
| PZ-098 | SMPZ-098-GW083110 | Sn-126 | Suspended | -0.22 U | 0.86 | 0.26 | 0.41 |
| PZ-098 | SMPZ-098-GW083110 | Sn-126 | Total | -0.43 | NA | 0.47 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| PZ-098 | SMPZ-098-GW083110 | Sr-90 | Filtered | 0.038 U | 0.15 | 0.043 | 0.086 |
| PZ-098 | SMPZ-098-GW083110 | Sr-90 | Suspended | -0.045 U | 0.099 | 0.027 | 0.056 |
| PZ-098 | SMPZ-098-GW083110 | Sr-90 | Total | -0.007 | NA | 0.05 | NA |
| PZ-098 | SMPZ-098-GW083110 | Te-125m | Filtered | -0.07 U | 3.4 | 1 | 1.7 |
| PZ-098 | SMPZ-098-GW083110 | Te-125m | Suspended | -0.34 U | 1.5 | 0.46 | 0.75 |
| PZ-098 | SMPZ-098-GW083110 | Te-125m | Total | -0.4 SK | NA | 1.1 | NA |
| PZ-098 | SMPZ-098-GW083110 | Th-231 | Filtered | 0.368 | 0.021 | 0.036 | 0.006 |
| PZ-098 | SMPZ-098-GW083110 | Th-231 | Suspended | 0.0037 U | 0.03 | 0.0063 | 0.0084 |
| PZ-098 | SMPZ-098-GW083110 | Th-231 | Total | 0.372 | NA | 0.036 | NA |
| PZ-098 | SMPZ-098-GW083110 | Th-234 | Filtered | 8 U | 25 | 8.9 | 12 |
| PZ-098 | SMPZ-098-GW083110 | Th-234 | Suspended | 1.2 U | 8.6 | 2.5 | 4.2 |
| PZ-098 | SMPZ-098-GW083110 | Th-234 | Total | 9.2 | NA | 9.3 | NA |
| PZ-098 | SMPZ-098-GW083110 | Tl-208 | Filtered | 0.48 U | 1.8 | 0.65 | 0.85 |
| PZ-098 | SMPZ-098-GW083110 | Tl-208 | Suspended | 0.32 U | 0.86 | 0.31 | 0.41 |
| PZ-098 | SMPZ-098-GW083110 | Tl-208 | Total | 0.79 | NA | 0.72 | NA |
| PZ-098 | SMPZ-098-GW083110 | Tm-171 | Filtered | 130 U | 440 | 130 | 220 |
| PZ-098 | SMPZ-098-GW083110 | Tm-171 | Suspended | 33 U | 130 | 39 | 63 |
| PZ-098 | SMPZ-098-GW083110 | Tm-171 | Total | 160 | NA | 140 | NA |
| PZ-098 | SMPZ-098-GW083110 | U-233/234 | Filtered | 7.5 | 0.03 | 0.34 | 0.01 |
| PZ-098 | SMPZ-098-GW083110 | U-233/234 | Suspended | 0.007 U | 0.035 | 0.011 | 0.013 |
| PZ-098 | SMPZ-098-GW083110 | U-233/234 | Total | 7.51 | NA | 0.34 | NA |
| PZ-098 | SMPZ-098-GW083110 | U-235/236 | Filtered | 0.368 | 0.021 | 0.036 | 0.006 |
| PZ-098 | SMPZ-098-GW083110 | U-235/236 | Suspended | 0.0037 U | 0.03 | 0.0063 | 0.0084 |
| PZ-098 | SMPZ-098-GW083110 | U-235/236 | Total | 0.372 | NA | 0.036 | NA |
| PZ-098 | SMPZ-098-GW083110 | U-238 | Filtered | 7.32 | 0.02 | 0.33 | 0.007 |
| PZ-098 | SMPZ-098-GW083110 | U-238 | Suspended | 0.0032 U | 0.029 | 0.0085 | 0.0095 |
| PZ-098 | SMPZ-098-GW083110 | U-238 | Total | 7.33 | NA | 0.33 | NA |
| PZ-100 | SMPZ-100-GW083010 | Ac-227 | Filtered | -1.1 U | 9.2 | 2.7 | 4.5 |
| PZ-100 | SMPZ-100-GW083010 | Ac-227 | Suspended | -1.1 U | 4.5 | 1.4 | 2.2 |
| PZ-100 | SMPZ-100-GW083010 | Ac-227 | Total | -2.2 | NA | 3 | NA |
| PZ-100 | SMPZ-100-GW083010 | Ac-228 | Filtered | -2.3 U | 6.3 | 3.5 | 3 |
| PZ-100 | SMPZ-100-GW083010 | Ac-228 | Suspended | -2 U | 3.3 | 2.7 | 1.6 |
| PZ-100 | SMPZ-100-GW083010 | Ac-228 | Total | -4.3 | NA | 4.4 | NA |
| PZ-100 | SMPZ-100-GW083010 | Ag-108 | Filtered | 0.024 U R | 0.11 | 0.033 | 0.052 |
| PZ-100 | SMPZ-100-GW083010 | Ag-108 | Suspended | 0.024 R | 0.042 | 0.013 | 0.02 |
| PZ-100 | SMPZ-100-GW083010 | Ag-108 | Total | 0.048 R | NA | 0.035 | NA |
| PZ-100 | SMPZ-100-GW083010 | Ag-108m | Filtered | 0.26 U R | 1.2 | 0.35 | 0.56 |
| PZ-100 | SMPZ-100-GW083010 | Ag-108m | Suspended | 0.26 R | 0.45 | 0.14 | 0.21 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| PZ-100 | SMPZ-100-GW083010 | Ag-108m | Total | 0.52 R | NA | 0.38 | NA |
| PZ-100 | SMPZ-100-GW083010 | Ba-133 | Filtered | -2.2 U R | 14 | 4.1 | 6.7 |
| PZ-100 | SMPZ-100-GW083010 | Ba-133 | Suspended | 1.6 U R | 5.9 | 1.8 | 2.8 |
| PZ-100 | SMPZ-100-GW083010 | Ba-133 | Total | -0.5 R | NA | 4.5 | NA |
| PZ-100 | SMPZ-100-GW083010 | Ba-137m | Filtered | 0.51 U | 1.2 | 0.37 | 0.56 |
| PZ-100 | SMPZ-100-GW083010 | Ba-137m | Suspended | -0.07 U | 0.7 | 0.2 | 0.33 |
| PZ-100 | SMPZ-100-GW083010 | Ba-137m | Total | 0.45 | NA | 0.42 | NA |
| PZ-100 | SMPZ-100-GW083010 | Bi-212 | Filtered | -1.4 U | 12 | 3.4 | 5.4 |
| PZ-100 | SMPZ-100-GW083010 | Bi-212 | Suspended | 2.2 U | 5.7 | 1.7 | 2.7 |
| PZ-100 | SMPZ-100-GW083010 | Bi-212 | Total | 0.7 | NA | 3.8 | NA |
| PZ-100 | SMPZ-100-GW083010 | Bi-214 | Filtered | -0.6 U | 3.5 | 1.2 | 1.6 |
| PZ-100 | SMPZ-100-GW083010 | Bi-214 | Suspended | -0.52 U | 1.8 | 0.82 | 0.89 |
| PZ-100 | SMPZ-100-GW083010 | Bi-214 | Total | -1.1 | NA | 1.4 | NA |
| PZ-100 | SMPZ-100-GW083010 | Cd-113m | Filtered | -3200 U | 16000 | 4700 | 7600 |
| PZ-100 | SMPZ-100-GW083010 | Cd-113m | Suspended | -200 U | 6500 | 1900 | 3100 |
| PZ-100 | SMPZ-100-GW083010 | Cd-113m | Total | -3400 | NA | 5100 | NA |
| PZ-100 | SMPZ-100-GW083010 | Cf-249 | Filtered | 0 U R | 6.8 | 2 | 3.3 |
| PZ-100 | SMPZ-100-GW083010 | Cf-249 | Suspended | -0.01 U R | 3.1 | 0.9 | 1.5 |
| PZ-100 | SMPZ-100-GW083010 | Cf-249 | Total | -0.01 R | NA | 2.2 | NA |
| PZ-100 | SMPZ-100-GW083010 | Co-60 | Filtered | 0.17 U | 1.6 | 0.44 | 0.7 |
| PZ-100 | SMPZ-100-GW083010 | Co-60 | Suspended | 0.32 U | 0.79 | 0.24 | 0.37 |
| PZ-100 | SMPZ-100-GW083010 | Co-60 | Total | 0.48 | NA | 0.5 | NA |
| PZ-100 | SMPZ-100-GW083010 | Cs-134 | Filtered | 0.02 U | 1.6 | 0.46 | 0.75 |
| PZ-100 | SMPZ-100-GW083010 | Cs-134 | Suspended | 0.1 U | 0.84 | 0.25 | 0.41 |
| PZ-100 | SMPZ-100-GW083010 | Cs-134 | Total | 0.12 | NA | 0.52 | NA |
| PZ-100 | SMPZ-100-GW083010 | Cs-137 | Filtered | 0.54 U | 1.3 | 0.39 | 0.59 |
| PZ-100 | SMPZ-100-GW083010 | Cs-137 | Suspended | -0.07 U | 0.74 | 0.22 | 0.35 |
| PZ-100 | SMPZ-100-GW083010 | Cs-137 | Total | 0.47 | NA | 0.45 | NA |
| PZ-100 | SMPZ-100-GW083010 | Eu-152 | Filtered | 0 U | 3.5 | 0.997 | 1.6 |
| PZ-100 | SMPZ-100-GW083010 | Eu-152 | Suspended | 0.11 U | 1.9 | 0.55 | 0.9 |
| PZ-100 | SMPZ-100-GW083010 | Eu-152 | Total | 0.1 | NA | 1.1 | NA |
| PZ-100 | SMPZ-100-GW083010 | Eu-154 | Filtered | -2 U | 15 | 4.3 | 6.9 |
| PZ-100 | SMPZ-100-GW083010 | Eu-154 | Suspended | 0 U | 7 | 2 | 3.3 |
| PZ-100 | SMPZ-100-GW083010 | Eu-154 | Total | -2 | NA | 4.7 | NA |
| PZ-100 | SMPZ-100-GW083010 | Eu-155 | Filtered | 0.2 U | 3.1 | 0.92 | 1.5 |
| PZ-100 | SMPZ-100-GW083010 | Eu-155 | Suspended | 0.26 U | 1.2 | 0.37 | 0.6 |
| PZ-100 | SMPZ-100-GW083010 | Eu-155 | Total | 0.46 | NA | 0.99 | NA |
| PZ-100 | SMPZ-100-GW083010 | gross_alpha | Filtered | 20.5 | 0.4 | 1.1 | 0.2 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-100 | SMPZ-100-GW083010 | gross_alpha | Suspended | 0.56 | 0.67 | 0.24 | 0.33 |
| PZ-100 | SMPZ-100-GW083010 | gross_alpha | Total | 21.1 | NA | 1.2 | NA |
| PZ-100 | SMPZ-100-GW083010 | gross_beta | Filtered | 19.4 | 2.8 | 1.6 | 1.6 |
| PZ-100 | SMPZ-100-GW083010 | gross_beta | Suspended | 0.57 | 0.7 | 0.23 | 0.41 |
| PZ-100 | SMPZ-100-GW083010 | gross_beta | Total | 19.9 | NA | 1.7 | NA |
| PZ-100 | SMPZ-100-GW083010 | H-3 | Filtered | 29 U | 130 | 39 | 64 |
| PZ-100 | SMPZ-100-GW083010 | H-3 | Suspended | -7.8 U R | 21 | 5 | 9.3 |
| PZ-100 | SMPZ-100-GW083010 | H-3 | Total | 21 R | NA | 40 | NA |
| PZ-100 | SMPZ-100-GW083010 | H-3_Total | Filtered | 29.1 | 25 | 8.6 | 12 |
| PZ-100 | SMPZ-100-GW083010 | H-3_Total | Suspended | -7.8 U R | 18 | 4 | 7.9 |
| PZ-100 | SMPZ-100-GW083010 | H-3_Total | Total | 21.3 R | NA | 9.5 | NA |
| PZ-100 | SMPZ-100-GW083010 | Ho-166m | Filtered | -0.32 U | 2.6 | 0.74 | 1.2 |
| PZ-100 | SMPZ-100-GW083010 | Ho-166m | Suspended | 0.3 U | 0.99 | 0.29 | 0.47 |
| PZ-100 | SMPZ-100-GW083010 | Ho-166m | Total | -0.01 | NA | 0.79 | NA |
| PZ-100 | SMPZ-100-GW083010 | K-40 | Filtered | 21.6 | 20 | 6.5 | 9.3 |
| PZ-100 | SMPZ-100-GW083010 | K-40 | Suspended | 2.3 U | 11 | 2.5 | 5.5 |
| PZ-100 | SMPZ-100-GW083010 | K-40 | Total | 24 | NA | 7 | NA |
| PZ-100 | SMPZ-100-GW083010 | Na-22 | Filtered | -0.009 U | 2 | 0.56 | 0.93 |
| PZ-100 | SMPZ-100-GW083010 | Na-22 | Suspended | -0.13 U | 0.85 | 0.25 | 0.4 |
| PZ-100 | SMPZ-100-GW083010 | Na-22 | Total | -0.14 | NA | 0.62 | NA |
| PZ-100 | SMPZ-100-GW083010 | Nb-94 | Filtered | -0.1 U | 1.5 | 0.44 | 0.72 |
| PZ-100 | SMPZ-100-GW083010 | Nb-94 | Suspended | 0.18 U | 0.68 | 0.2 | 0.32 |
| PZ-100 | SMPZ-100-GW083010 | Nb-94 | Total | 0.08 | NA | 0.48 | NA |
| PZ-100 | SMPZ-100-GW083010 | Np-236 | Filtered | 0.76 U | 2.6 | 0.78 | 1.3 |
| PZ-100 | SMPZ-100-GW083010 | Np-236 | Suspended | -0.12 U | 1.2 | 0.37 | 0.61 |
| PZ-100 | SMPZ-100-GW083010 | Np-236 | Total | 0.65 | NA | 0.86 | NA |
| PZ-100 | SMPZ-100-GW083010 | Np-239 | Filtered | 0.1 U | 7.6 | 2.2 | 3.6 |
| PZ-100 | SMPZ-100-GW083010 | Np-239 | Suspended | -0.7 U | 3.8 | 1.1 | 1.8 |
| PZ-100 | SMPZ-100-GW083010 | Np-239 | Total | -0.6 | NA | 2.5 | NA |
| PZ-100 | SMPZ-100-GW083010 | Pa-231 | Filtered | 24 U | 54 | 16 | 26 |
| PZ-100 | SMPZ-100-GW083010 | Pa-231 | Suspended | -4.6 U | 26 | 7.8 | 13 |
| PZ-100 | SMPZ-100-GW083010 | Pa-231 | Total | 20 | NA | 18 | NA |
| PZ-100 | SMPZ-100-GW083010 | Pb-212 | Filtered | -0.24 U | 2.8 | 0.92 | 1.4 |
| PZ-100 | SMPZ-100-GW083010 | Pb-212 | Suspended | 0.55 U | 1.2 | 0.38 | 0.6 |
| PZ-100 | SMPZ-100-GW083010 | Pb-212 | Total | 0.31 | NA | 0.99 | NA |
| PZ-100 | SMPZ-100-GW083010 | Pb-214 | Filtered | -1 U | 3.3 | 1.7 | 1.6 |
| PZ-100 | SMPZ-100-GW083010 | Pb-214 | Suspended | -0.17 U | 1.6 | 0.48 | 0.79 |
| PZ-100 | SMPZ-100-GW083010 | Pb-214 | Total | -1.1 | NA | 1.7 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| PZ-100 | SMPZ-100-GW083010 | Sb-125 | Filtered | -3.2 U | 15 | 4.4 | 7.2 |
| PZ-100 | SMPZ-100-GW083010 | Sb-125 | Suspended | 0.008 U | 6.5 | 1.9 | 3.2 |
| PZ-100 | SMPZ-100-GW083010 | Sb-125 | Total | -3.2 | NA | 4.8 | NA |
| PZ-100 | SMPZ-100-GW083010 | Sn-126 | Filtered | 0.24 U | 1.6 | 0.46 | 0.73 |
| PZ-100 | SMPZ-100-GW083010 | Sn-126 | Suspended | 0.3 U | 0.79 | 0.24 | 0.38 |
| PZ-100 | SMPZ-100-GW083010 | Sn-126 | Total | 0.54 | NA | 0.51 | NA |
| PZ-100 | SMPZ-100-GW083010 | Sr-90 | Filtered | 0.037 U | 0.21 | 0.06 | 0.12 |
| PZ-100 | SMPZ-100-GW083010 | Sr-90 | Suspended | 0.084 U | 0.16 | 0.048 | 0.094 |
| PZ-100 | SMPZ-100-GW083010 | Sr-90 | Total | 0.121 | NA | 0.077 | NA |
| PZ-100 | SMPZ-100-GW083010 | Te-125m | Filtered | -0.7 U | 3.4 | 1 | 1.7 |
| PZ-100 | SMPZ-100-GW083010 | Te-125m | Suspended | 0.002 U | 1.5 | 0.44 | 0.73 |
| PZ-100 | SMPZ-100-GW083010 | Te-125m | Total | -0.7 | NA | 1.1 | NA |
| PZ-100 | SMPZ-100-GW083010 | Th-231 | Filtered | 0.585 | 0.007 | 0.047 | 0.006 |
| PZ-100 | SMPZ-100-GW083010 | Th-231 | Suspended | -0.0044 U | 0.036 | 0.0031 | 0.012 |
| PZ-100 | SMPZ-100-GW083010 | Th-231 | Total | 0.58 | NA | 0.047 | NA |
| PZ-100 | SMPZ-100-GW083010 | Th-234 | Filtered | 25.2 | 22 | 7.2 | 11 |
| PZ-100 | SMPZ-100-GW083010 | Th-234 | Suspended | -0.8 U | 8.9 | 3 | 4.3 |
| PZ-100 | SMPZ-100-GW083010 | Th-234 | Total | 24.4 | NA | 7.8 | NA |
| PZ-100 | SMPZ-100-GW083010 | Tl-208 | Filtered | 2.01 | 1.5 | 0.53 | 0.69 |
| PZ-100 | SMPZ-100-GW083010 | Tl-208 | Suspended | 0.49 | 0.91 | 0.37 | 0.44 |
| PZ-100 | SMPZ-100-GW083010 | Tl-208 | Total | 2.5 | NA | 0.64 | NA |
| PZ-100 | SMPZ-100-GW083010 | Tm-171 | Filtered | 167 | 320 | 98 | 160 |
| PZ-100 | SMPZ-100-GW083010 | Tm-171 | Suspended | 29 U | 130 | 39 | 63 |
| PZ-100 | SMPZ-100-GW083010 | Tm-171 | Total | 200 | NA | 110 | NA |
| PZ-100 | SMPZ-100-GW083010 | U-233/234 | Filtered | 13.7 | 0.02 | 0.6 | 0.005 |
| PZ-100 | SMPZ-100-GW083010 | U-233/234 | Suspended | 0.027 | 0.04 | 0.016 | 0.017 |
| PZ-100 | SMPZ-100-GW083010 | U-233/234 | Total | 13.7 | NA | 0.6 | NA |
| PZ-100 | SMPZ-100-GW083010 | U-235/236 | Filtered | 0.585 | 0.007 | 0.047 | 0.006 |
| PZ-100 | SMPZ-100-GW083010 | U-235/236 | Suspended | -0.0044 U | 0.036 | 0.0031 | 0.012 |
| PZ-100 | SMPZ-100-GW083010 | U-235/236 | Total | 0.58 | NA | 0.047 | NA |
| PZ-100 | SMPZ-100-GW083010 | U-238 | Filtered | 12.3 | 0.03 | 0.54 | 0.01 |
| PZ-100 | SMPZ-100-GW083010 | U-238 | Suspended | 0.004 U | 0.067 | 0.018 | 0.032 |
| PZ-100 | SMPZ-100-GW083010 | U-238 | Total | 12.3 | NA | 0.54 | NA |
| PZ-103 | SMPZ-103-GW082310 | Ac-227 | Filtered | -0.6 U | 9.3 | 2.7 | 4.5 |
| PZ-103 | SMPZ-103-GW082310 | Ac-227 | Suspended | -3.3 L U | 4.7 | 1.4 | 2.3 |
| PZ-103 | SMPZ-103-GW082310 | Ac-227 | Total | -3.9 | NA | 3.1 | NA |
| PZ-103 | SMPZ-103-GW082310 | Ac-228 | Filtered | 4.1 | 5.4 | 1.7 | 2.5 |
| PZ-103 | SMPZ-103-GW082310 | Ac-228 | Suspended | 0.23 U | 2.9 | 0.76 | 1.4 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| PZ-103 | SMPZ-103-GW082310 | Ac-228 | Total | 4.3 | NA | 1.9 | NA |
| PZ-103 | SMPZ-103-GW082310 | Ag-108 | Filtered | 0.019 U R | 0.11 | 0.033 | 0.053 |
| PZ-103 | SMPZ-103-GW082310 | Ag-108 | Suspended | -0.004 U R | 0.036 | 0.01 | 0.017 |
| PZ-103 | SMPZ-103-GW082310 | Ag-108 | Total | 0.015 R | NA | 0.035 | NA |
| PZ-103 | SMPZ-103-GW082310 | Ag-108m | Filtered | 0.2 U R | 1.2 | 0.36 | 0.57 |
| PZ-103 | SMPZ-103-GW082310 | Ag-108m | Suspended | -0.04 U R | 0.39 | 0.11 | 0.18 |
| PZ-103 | SMPZ-103-GW082310 | Ag-108m | Total | 0.16 R | NA | 0.37 | NA |
| PZ-103 | SMPZ-103-GW082310 | Ba-133 | Filtered | 2.5 U R | 13 | 3.8 | 6.1 |
| PZ-103 | SMPZ-103-GW082310 | Ba-133 | Suspended | 0.4 U R | 5.1 | 1.5 | 2.5 |
| PZ-103 | SMPZ-103-GW082310 | Ba-133 | Total | 2.8 R | NA | 4.1 | NA |
| PZ-103 | SMPZ-103-GW082310 | Ba-137m | Filtered | -0.29 U | 1.4 | 0.42 | 0.68 |
| PZ-103 | SMPZ-103-GW082310 | Ba-137m | Suspended | 0.09 U | 0.57 | 0.17 | 0.27 |
| PZ-103 | SMPZ-103-GW082310 | Ba-137m | Total | -0.2 | NA | 0.46 | NA |
| PZ-103 | SMPZ-103-GW082310 | Bi-212 | Filtered | 6 | 10 | 3.2 | 4.8 |
| PZ-103 | SMPZ-103-GW082310 | Bi-212 | Suspended | 2.6 U | 6.2 | 1.9 | 2.9 |
| PZ-103 | SMPZ-103-GW082310 | Bi-212 | Total | 8.6 | NA | 3.7 | NA |
| PZ-103 | SMPZ-103-GW082310 | Bi-214 | Filtered | -0.8 U | 3.2 | 1.2 | 1.5 |
| PZ-103 | SMPZ-103-GW082310 | Bi-214 | Suspended | 1.89 | 1.6 | 0.57 | 0.77 |
| PZ-103 | SMPZ-103-GW082310 | Bi-214 | Total | 1.1 | NA | 1.3 | NA |
| PZ-103 | SMPZ-103-GW082310 | Cd-113m | Filtered | 0 U | 18000 | 5100 | 8500 |
| PZ-103 | SMPZ-103-GW082310 | Cd-113m | Suspended | -1700 U | 7200 | 2100 | 3500 |
| PZ-103 | SMPZ-103-GW082310 | Cd-113m | Total | -1700 | NA | 5600 | NA |
| PZ-103 | SMPZ-103-GW082310 | Cf-249 | Filtered | 0 U R | 7.1 | 2.1 | 3.4 |
| PZ-103 | SMPZ-103-GW082310 | Cf-249 | Suspended | 0 U R | 3 | 0.88 | 1.4 |
| PZ-103 | SMPZ-103-GW082310 | Cf-249 | Total | 0 R | NA | 2.2 | NA |
| PZ-103 | SMPZ-103-GW082310 | Co-60 | Filtered | 0.24 U | 1.9 | 0.54 | 0.86 |
| PZ-103 | SMPZ-103-GW082310 | Co-60 | Suspended | 0.34 | 0.63 | 0.19 | 0.29 |
| PZ-103 | SMPZ-103-GW082310 | Co-60 | Total | 0.58 | NA | 0.57 | NA |
| PZ-103 | SMPZ-103-GW082310 | Cs-134 | Filtered | -0.22 U | 1.5 | 0.43 | 0.69 |
| PZ-103 | SMPZ-103-GW082310 | Cs-134 | Suspended | -0.03 U | 0.77 | 0.23 | 0.37 |
| PZ-103 | SMPZ-103-GW082310 | Cs-134 | Total | -0.25 | NA | 0.49 | NA |
| PZ-103 | SMPZ-103-GW082310 | Cs-137 | Filtered | -0.31 U | 1.5 | 0.45 | 0.71 |
| PZ-103 | SMPZ-103-GW082310 | Cs-137 | Suspended | 0.1 U | 0.61 | 0.18 | 0.29 |
| PZ-103 | SMPZ-103-GW082310 | Cs-137 | Total | -0.22 | NA | 0.48 | NA |
| PZ-103 | SMPZ-103-GW082310 | Eu-152 | Filtered | -0.06 U | 3.6 | 1 | 1.7 |
| PZ-103 | SMPZ-103-GW082310 | Eu-152 | Suspended | -0.14 U | 1.8 | 0.52 | 0.85 |
| PZ-103 | SMPZ-103-GW082310 | Eu-152 | Total | -0.2 | NA | 1.2 | NA |
| PZ-103 | SMPZ-103-GW082310 | Eu-154 | Filtered | 0.1 U | 13 | 3.6 | 5.9 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-103 | SMPZ-103-GW082310 | Eu-154 | Suspended | -1.6 U | 6.4 | 1.9 | 3 |
| PZ-103 | SMPZ-103-GW082310 | Eu-154 | Total | -1.5 | NA | 4 | NA |
| PZ-103 | SMPZ-103-GW082310 | Eu-155 | Filtered | 0.36 U | 3.1 | 0.92 | 1.5 |
| PZ-103 | SMPZ-103-GW082310 | Eu-155 | Suspended | 0.26 U | 1.2 | 0.35 | 0.56 |
| PZ-103 | SMPZ-103-GW082310 | Eu-155 | Total | 0.62 | NA | 0.99 | NA |
| PZ-103 | SMPZ-103-GW082310 | gross_alpha | Filtered | 4.15 | 0.44 | 0.43 | 0.22 |
| PZ-103 | SMPZ-103-GW082310 | gross_alpha | Suspended | 0.1 U | 0.47 | 0.13 | 0.24 |
| PZ-103 | SMPZ-103-GW082310 | gross_alpha | Total | 4.26 | NA | 0.45 | NA |
| PZ-103 | SMPZ-103-GW082310 | gross_beta | Filtered | 0.89 U | 3.2 | 0.96 | 1.9 |
| PZ-103 | SMPZ-103-GW082310 | gross_beta | Suspended | 1.54 | 0.82 | 0.3 | 0.48 |
| PZ-103 | SMPZ-103-GW082310 | gross_beta | Total | 2.4 | NA | 1 | NA |
| PZ-103 | SMPZ-103-GW082310 | H-3 | Filtered | 7 U | 140 | 42 | 69 |
| PZ-103 | SMPZ-103-GW082310 | H-3 | Suspended | 4.9 U | 13 | 3.8 | 5.3 |
| PZ-103 | SMPZ-103-GW082310 | H-3 | Total | 12 | NA | 42 | NA |
| PZ-103 | SMPZ-103-GW082310 | Ho-166m | Filtered | 0.22 U | 2.1 | 0.61 | 0.99 |
| PZ-103 | SMPZ-103-GW082310 | Ho-166m | Suspended | -0.42 U | 1.1 | 0.34 | 0.54 |
| PZ-103 | SMPZ-103-GW082310 | Ho-166m | Total | -0.21 | NA | 0.7 | NA |
| PZ-103 | SMPZ-103-GW082310 | K-40 | Filtered | -18 U | 24 | 24 | 11 |
| PZ-103 | SMPZ-103-GW082310 | K-40 | Suspended | -0.4 U | 12 | 3.4 | 5.8 |
| PZ-103 | SMPZ-103-GW082310 | K-40 | Total | -18 | NA | 24 | NA |
| PZ-103 | SMPZ-103-GW082310 | Na-22 | Filtered | 0.12 U | 1.9 | 0.52 | 0.84 |
| PZ-103 | SMPZ-103-GW082310 | Na-22 | Suspended | 0.02 U | 0.82 | 0.23 | 0.38 |
| PZ-103 | SMPZ-103-GW082310 | Na-22 | Total | 0.13 | NA | 0.57 | NA |
| PZ-103 | SMPZ-103-GW082310 | Nb-94 | Filtered | 0.22 U | 1.2 | 0.36 | 0.57 |
| PZ-103 | SMPZ-103-GW082310 | Nb-94 | Suspended | 0.22 U | 0.63 | 0.19 | 0.3 |
| PZ-103 | SMPZ-103-GW082310 | Nb-94 | Total | 0.43 | NA | 0.4 | NA |
| PZ-103 | SMPZ-103-GW082310 | Np-236 | Filtered | -0.63 U | 2.9 | 0.87 | 1.4 |
| PZ-103 | SMPZ-103-GW082310 | Np-236 | Suspended | 0.008 U | 1.1 | 0.32 | 0.53 |
| PZ-103 | SMPZ-103-GW082310 | Np-236 | Total | -0.62 | NA | 0.93 | NA |
| PZ-103 | SMPZ-103-GW082310 | Np-239 | Filtered | 2.8 U | 7.8 | 2.3 | 3.7 |
| PZ-103 | SMPZ-103-GW082310 | Np-239 | Suspended | -0.13 U | 2.8 | 0.82 | 1.4 |
| PZ-103 | SMPZ-103-GW082310 | Np-239 | Total | 2.7 | NA | 2.5 | NA |
| PZ-103 | SMPZ-103-GW082310 | Pa-231 | Filtered | -5 U | 59 | 17 | 28 |
| PZ-103 | SMPZ-103-GW082310 | Pa-231 | Suspended | 6.6 U | 27 | 8 | 13 |
| PZ-103 | SMPZ-103-GW082310 | Pa-231 | Total | 2 | NA | 19 | NA |
| PZ-103 | SMPZ-103-GW082310 | Pb-212 | Filtered | 0.21 U | 2.6 | 0.75 | 1.3 |
| PZ-103 | SMPZ-103-GW082310 | Pb-212 | Suspended | 0.58 | 1.2 | 0.38 | 0.58 |
| PZ-103 | SMPZ-103-GW082310 | Pb-212 | Total | 0.79 | NA | 0.84 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| PZ-103 | SMPZ-103-GW082310 | Pb-214 | Filtered | 0.81 U | 3 | 0.97 | 1.4 |
| PZ-103 | SMPZ-103-GW082310 | Pb-214 | Suspended | 1.54 | 1.5 | 0.62 | 0.73 |
| PZ-103 | SMPZ-103-GW082310 | Pb-214 | Total | 2.3 | NA | 1.2 | NA |
| PZ-103 | SMPZ-103-GW082310 | Sb-125 | Filtered | -0.2 U | 14 | 4.1 | 6.7 |
| PZ-103 | SMPZ-103-GW082310 | Sb-125 | Suspended | 1.6 U | 5.9 | 1.8 | 2.9 |
| PZ-103 | SMPZ-103-GW082310 | Sb-125 | Total | 1.4 | NA | 4.5 | NA |
| PZ-103 | SMPZ-103-GW082310 | Sn-126 | Filtered | 0.43 U | 1.7 | 0.49 | 0.78 |
| PZ-103 | SMPZ-103-GW082310 | Sn-126 | Suspended | 0.2 U | 0.71 | 0.21 | 0.34 |
| PZ-103 | SMPZ-103-GW082310 | Sn-126 | Total | 0.63 | NA | 0.54 | NA |
| PZ-103 | SMPZ-103-GW082310 | Sr-90 | Suspended | 0.021 U | 0.066 | 0.02 | 0.037 |
| PZ-103 | SMPZ-103-GW082310 | Sr-90 | Total | 0.01 | NA | 0.053 | NA |
| PZ-103 | SMPZ-103-GW082310 | Te-125m | Filtered | -0.05 U | 3.2 | 0.95 | 1.6 |
| PZ-103 | SMPZ-103-GW082310 | Te-125m | Suspended | 0.37 U | 1.4 | 0.41 | 0.66 |
| PZ-103 | SMPZ-103-GW082310 | Te-125m | Total | 0.3 | NA | 1 | NA |
| PZ-103 | SMPZ-103-GW082310 | Th-231 | Filtered | 0.094 | 0.04 | 0.025 | 0.015 |
| PZ-103 | SMPZ-103-GW082310 | Th-231 | Suspended | -0.0091 U | 0.045 | 0.0046 | 0.017 |
| PZ-103 | SMPZ-103-GW082310 | Th-231 | Total | 0.085 | NA | 0.025 | NA |
| PZ-103 | SMPZ-103-GW082310 | Th-234 | Filtered | 7.3 U | 23 | 7.7 | 11 |
| PZ-103 | SMPZ-103-GW082310 | Th-234 | Suspended | -1.8 U | 8.1 | 2.7 | 4 |
| PZ-103 | SMPZ-103-GW082310 | Th-234 | Total | 5.5 | NA | 8.1 | NA |
| PZ-103 | SMPZ-103-GW082310 | Tl-208 | Filtered | 0.04 U | 2 | 0.54 | 0.97 |
| PZ-103 | SMPZ-103-GW082310 | Tl-208 | Suspended | 0.28 U | 0.75 | 0.25 | 0.36 |
| PZ-103 | SMPZ-103-GW082310 | Tl-208 | Total | 0.32 | NA | 0.6 | NA |
| PZ-103 | SMPZ-103-GW082310 | Tm-171 | Filtered | 110 U | 340 | 100 | 160 |
| PZ-103 | SMPZ-103-GW082310 | Tm-171 | Suspended | 14 U | 120 | 37 | 60 |
| PZ-103 | SMPZ-103-GW082310 | Tm-171 | Total | 130 | NA | 110 | NA |
| PZ-103 | SMPZ-103-GW082310 | U-233/234 | Filtered | 1.9 | 0.03 | 0.12 | 0.01 |
| PZ-103 | SMPZ-103-GW082310 | U-233/234 | Suspended | 0.02 | 0.039 | 0.014 | 0.015 |
| PZ-103 | SMPZ-103-GW082310 | U-233/234 | Total | 1.92 | NA | 0.13 | NA |
| PZ-103 | SMPZ-103-GW082310 | U-235/236 | Filtered | 0.094 | 0.04 | 0.025 | 0.015 |
| PZ-103 | SMPZ-103-GW082310 | U-235/236 | Suspended | -0.0091 U | 0.045 | 0.0046 | 0.017 |
| PZ-103 | SMPZ-103-GW082310 | U-235/236 | Total | 0.085 | NA | 0.025 | NA |
| PZ-103 | SMPZ-103-GW082310 | U-238 | Filtered | 1.54 | 0.04 | 0.11 | 0.01 |
| PZ-103 | SMPZ-103-GW082310 | U-238 | Suspended | 0.026 | 0.033 | 0.014 | 0.012 |
| PZ-103 | SMPZ-103-GW082310 | U-238 | Total | 1.57 | NA | 0.11 | NA |
| PZ-105 | SMPZ-105-GW082610 | Ac-227 | Filtered | 0.6 U | 29 | 8.4 | 14 |
| PZ-105 | SMPZ-105-GW082710 | Ac-227 | Filtered | -0.09 U | 7.9 | 2.3 | 3.8 |
| PZ-105 | SMPZ-105-GW082610 | Ac-227 | Suspended | -3.8 U | 14 | 4.2 | 6.8 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|-------|----------------|
| PZ-105 | SMPZ-105-GW082710 | Ac-227 | Suspended | 0.2 U | 4.2 | 1.2 | 2 |
| PZ-105 | SMPZ-105-GW082610 | Ac-227 | Total | -3.2 | NA | 9.4 | NA |
| PZ-105 | SMPZ-105-GW082710 | Ac-227 | Total | 0.2 | NA | 2.6 | NA |
| PZ-105 | SMPZ-105-GW082610 | Ac-228 | Filtered | 11.1 | 17 | 5.4 | 7.8 |
| PZ-105 | SMPZ-105-GW082710 | Ac-228 | Filtered | 2.1 | 4 | 1.2 | 1.8 |
| PZ-105 | SMPZ-105-GW082610 | Ac-228 | Suspended | 2.9 U B | 7.7 | 2.3 | 3.5 |
| PZ-105 | SMPZ-105-GW082710 | Ac-228 | Suspended | 2.15 | 2.4 | 0.76 | 1.1 |
| PZ-105 | SMPZ-105-GW082610 | Ac-228 | Total | 13.9 | NA | 5.9 | NA |
| PZ-105 | SMPZ-105-GW082710 | Ac-228 | Total | 4.3 | NA | 1.4 | NA |
| PZ-105 | SMPZ-105-GW082610 | Ag-108 | Filtered | 0.007 U R | 0.46 | 0.13 | 0.22 |
| PZ-105 | SMPZ-105-GW082710 | Ag-108 | Filtered | -0.0004 U R | 0.1 | 0.03 | 0.049 |
| PZ-105 | SMPZ-105-GW082610 | Ag-108 | Suspended | 0.023 U R | 0.18 | 0.053 | 0.087 |
| PZ-105 | SMPZ-105-GW082710 | Ag-108 | Suspended | 0.027 R | 0.036 | 0.011 | 0.017 |
| PZ-105 | SMPZ-105-GW082610 | Ag-108 | Total | 0.03 R | NA | 0.14 | NA |
| PZ-105 | SMPZ-105-GW082710 | Ag-108 | Total | 0.026 R | NA | 0.032 | NA |
| PZ-105 | SMPZ-105-GW082610 | Ag-108m | Filtered | 0.07 U R | 5 | 1.4 | 2.4 |
| PZ-105 | SMPZ-105-GW082710 | Ag-108m | Filtered | -0.004 U R | 1.1 | 0.32 | 0.53 |
| PZ-105 | SMPZ-105-GW082610 | Ag-108m | Suspended | 0.25 U R | 2 | 0.57 | 0.94 |
| PZ-105 | SMPZ-105-GW082710 | Ag-108m | Suspended | 0.29 R | 0.38 | 0.12 | 0.18 |
| PZ-105 | SMPZ-105-GW082610 | Ag-108m | Total | 0.3 R | NA | 1.5 | NA |
| PZ-105 | SMPZ-105-GW082710 | Ag-108m | Total | 0.28 R | NA | 0.34 | NA |
| PZ-105 | SMPZ-105-GW082610 | Ba-133 | Filtered | 6 U R | 54 | 16 | 26 |
| PZ-105 | SMPZ-105-GW082710 | Ba-133 | Filtered | 2.1 U R | 12 | 3.7 | 6 |
| PZ-105 | SMPZ-105-GW082610 | Ba-133 | Suspended | 2 U R | 21 | 6.1 | 10 |
| PZ-105 | SMPZ-105-GW082710 | Ba-133 | Suspended | 1.8 U R | 5.6 | 1.7 | 2.7 |
| PZ-105 | SMPZ-105-GW082610 | Ba-133 | Total | 8 R | NA | 17 | NA |
| PZ-105 | SMPZ-105-GW082710 | Ba-133 | Total | 3.9 R | NA | 4 | NA |
| PZ-105 | SMPZ-105-GW082610 | Ba-137m | Filtered | 2.1 U | 4.9 | 1.5 | 2.2 |
| PZ-105 | SMPZ-105-GW082710 | Ba-137m | Filtered | 0.41 U | 1.3 | 0.38 | 0.6 |
| PZ-105 | SMPZ-105-GW082610 | Ba-137m | Suspended | 1.93 | 2.3 | 0.95 | 1.1 |
| PZ-105 | SMPZ-105-GW082710 | Ba-137m | Suspended | 0.19 U | 0.68 | 0.2 | 0.32 |
| PZ-105 | SMPZ-105-GW082610 | Ba-137m | Total | 4.1 | NA | 1.8 | NA |
| PZ-105 | SMPZ-105-GW082710 | Ba-137m | Total | 0.6 | NA | 0.43 | NA |
| PZ-105 | SMPZ-105-GW082610 | Bi-212 | Filtered | 9 U | 52 | 15 | 24 |
| PZ-105 | SMPZ-105-GW082710 | Bi-212 | Filtered | -0.08 U | 10 | 2.9 | 4.7 |
| PZ-105 | SMPZ-105-GW082610 | Bi-212 | Suspended | 0.1 U | 20 | 5.6 | 9.2 |
| PZ-105 | SMPZ-105-GW082710 | Bi-212 | Suspended | 1.4 U | 6.2 | 1.8 | 2.9 |
| PZ-105 | SMPZ-105-GW082610 | Bi-212 | Total | 10 | NA | 16 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-105 | SMPZ-105-GW082710 | Bi-212 | Total | 1.3 | NA | 3.4 | NA |
| PZ-105 | SMPZ-105-GW082610 | Bi-214 | Filtered | 5.8 U | 14 | 4.8 | 6.5 |
| PZ-105 | SMPZ-105-GW082710 | Bi-214 | Filtered | 0.42 U | 3 | 0.83 | 1.4 |
| PZ-105 | SMPZ-105-GW082610 | Bi-214 | Suspended | -1.9 U | 5.5 | 2.9 | 2.6 |
| PZ-105 | SMPZ-105-GW082710 | Bi-214 | Suspended | 1.68 | 1.8 | 0.8 | 0.87 |
| PZ-105 | SMPZ-105-GW082610 | Bi-214 | Total | 3.9 | NA | 5.6 | NA |
| PZ-105 | SMPZ-105-GW082710 | Bi-214 | Total | 2.1 | NA | 1.2 | NA |
| PZ-105 | SMPZ-105-GW082610 | Cd-113m | Filtered | 24000 U | 55000 | 16000 | 26000 |
| PZ-105 | SMPZ-105-GW082710 | Cd-113m | Filtered | 1300 U | 12000 | 3600 | 5800 |
| PZ-105 | SMPZ-105-GW082610 | Cd-113m | Suspended | 4500 U | 22000 | 6600 | 11000 |
| PZ-105 | SMPZ-105-GW082710 | Cd-113m | Suspended | 2100 U | 7000 | 2100 | 3400 |
| PZ-105 | SMPZ-105-GW082610 | Cd-113m | Total | 28000 | NA | 18000 | NA |
| PZ-105 | SMPZ-105-GW082710 | Cd-113m | Total | 3400 | NA | 4100 | NA |
| PZ-105 | SMPZ-105-GW082610 | Cf-249 | Filtered | -8.2 U R | 30 | 9.1 | 15 |
| PZ-105 | SMPZ-105-GW082710 | Cf-249 | Filtered | 0.5 U R | 6.6 | 1.9 | 3.2 |
| PZ-105 | SMPZ-105-GW082610 | Cf-249 | Suspended | -2.7 U R | 11 | 3.2 | 5.2 |
| PZ-105 | SMPZ-105-GW082710 | Cf-249 | Suspended | 0.02 U R | 2.8 | 0.83 | 1.4 |
| PZ-105 | SMPZ-105-GW082610 | Cf-249 | Total | -10.9 R | NA | 9.6 | NA |
| PZ-105 | SMPZ-105-GW082710 | Cf-249 | Total | 0.5 R | NA | 2.1 | NA |
| PZ-105 | SMPZ-105-GW082610 | Co-60 | Filtered | 0.2 U | 6.6 | 1.8 | 2.9 |
| PZ-105 | SMPZ-105-GW082710 | Co-60 | Filtered | 0 U | 1 | 0.27 | 0.44 |
| PZ-105 | SMPZ-105-GW082610 | Co-60 | Suspended | 0.27 U | 2.6 | 0.74 | 1.2 |
| PZ-105 | SMPZ-105-GW082710 | Co-60 | Suspended | 0.18 U | 0.73 | 0.21 | 0.33 |
| PZ-105 | SMPZ-105-GW082610 | Co-60 | Total | 0.5 | NA | 1.9 | NA |
| PZ-105 | SMPZ-105-GW082710 | Co-60 | Total | 0.18 | NA | 0.34 | NA |
| PZ-105 | SMPZ-105-GW082610 | Cs-134 | Filtered | 0.9 U | 5.7 | 1.7 | 2.7 |
| PZ-105 | SMPZ-105-GW082710 | Cs-134 | Filtered | -0.17 U | 1.5 | 0.43 | 0.69 |
| PZ-105 | SMPZ-105-GW082610 | Cs-134 | Suspended | -0.13 U | 2.8 | 0.82 | 1.3 |
| PZ-105 | SMPZ-105-GW082710 | Cs-134 | Suspended | 0.02 U | 0.89 | 0.26 | 0.43 |
| PZ-105 | SMPZ-105-GW082610 | Cs-134 | Total | 0.7 SK | NA | 1.9 | NA |
| PZ-105 | SMPZ-105-GW082710 | Cs-134 | Total | -0.16 | NA | 0.5 | NA |
| PZ-105 | SMPZ-105-GW082610 | Cs-137 | Filtered | 2.3 U | 5.1 | 1.6 | 2.4 |
| PZ-105 | SMPZ-105-GW082710 | Cs-137 | Filtered | 0.43 U | 1.3 | 0.4 | 0.63 |
| PZ-105 | SMPZ-105-GW082610 | Cs-137 | Suspended | 2 | 2.5 | 1 | 1.2 |
| PZ-105 | SMPZ-105-GW082710 | Cs-137 | Suspended | 0.2 U | 0.72 | 0.21 | 0.34 |
| PZ-105 | SMPZ-105-GW082610 | Cs-137 | Total | 4.3 | NA | 1.9 | NA |
| PZ-105 | SMPZ-105-GW082710 | Cs-137 | Total | 0.63 | NA | 0.45 | NA |
| PZ-105 | SMPZ-105-GW082610 | Eu-152 | Filtered | -2.3 U | 15 | 4.5 | 7.2 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-105 | SMPZ-105-GW082710 | Eu-152 | Filtered | 0.03 U | 3.5 | 1 | 1.7 |
| PZ-105 | SMPZ-105-GW082610 | Eu-152 | Suspended | -0.9 U | 6.3 | 1.9 | 3 |
| PZ-105 | SMPZ-105-GW082710 | Eu-152 | Suspended | 0.65 U | 1.7 | 0.53 | 0.84 |
| PZ-105 | SMPZ-105-GW082610 | Eu-152 | Total | -3.2 | NA | 4.8 | NA |
| PZ-105 | SMPZ-105-GW082710 | Eu-152 | Total | 0.7 | NA | 1.2 | NA |
| PZ-105 | SMPZ-105-GW082610 | Eu-154 | Filtered | 3 U | 46 | 13 | 21 |
| PZ-105 | SMPZ-105-GW082710 | Eu-154 | Filtered | -0.3 U | 11 | 3 | 4.9 |
| PZ-105 | SMPZ-105-GW082610 | Eu-154 | Suspended | 0 U | 22 | 6.3 | 10 |
| PZ-105 | SMPZ-105-GW082710 | Eu-154 | Suspended | 0.02 U | 5.9 | 1.7 | 2.8 |
| PZ-105 | SMPZ-105-GW082610 | Eu-154 | Total | 3 | NA | 14 | NA |
| PZ-105 | SMPZ-105-GW082710 | Eu-154 | Total | -0.3 | NA | 3.4 | NA |
| PZ-105 | SMPZ-105-GW082610 | Eu-155 | Filtered | 2 U | 12 | 3.6 | 5.9 |
| PZ-105 | SMPZ-105-GW082710 | Eu-155 | Filtered | 0.78 U | 3.1 | 0.92 | 1.5 |
| PZ-105 | SMPZ-105-GW082610 | Eu-155 | Suspended | -0.9 U | 4.5 | 1.3 | 2.2 |
| PZ-105 | SMPZ-105-GW082710 | Eu-155 | Suspended | -0.08 U | 1.2 | 0.36 | 0.6 |
| PZ-105 | SMPZ-105-GW082610 | Eu-155 | Total | 1 SK | NA | 3.9 | NA |
| PZ-105 | SMPZ-105-GW082710 | Eu-155 | Total | 0.7 | NA | 0.99 | NA |
| PZ-105 | SMPZ-105-GW082610 | gross_alpha | Filtered | 22 | 0.5 | 1.2 | 0.2 |
| PZ-105 | SMPZ-105-GW082610 | gross_alpha | Suspended | 0.35 U | 1.6 | 0.45 | 0.84 |
| PZ-105 | SMPZ-105-GW082610 | gross_alpha | Total | 22.4 | NA | 1.3 | NA |
| PZ-105 | SMPZ-105-GW082610 | gross_beta | Filtered | 17.9 | 2.9 | 1.6 | 1.7 |
| PZ-105 | SMPZ-105-GW082610 | gross_beta | Suspended | 0.43 U | 0.75 | 0.23 | 0.44 |
| PZ-105 | SMPZ-105-GW082610 | gross_beta | Total | 18.3 | NA | 1.7 | NA |
| PZ-105 | SMPZ-105-GW082610 | H-3 | Filtered | 10 U | 140 | 41 | 67 |
| PZ-105 | SMPZ-105-GW082610 | H-3 | Suspended | -9.5 U R | 22 | 5.5 | 10 |
| PZ-105 | SMPZ-105-GW082610 | H-3 | Total | 0.6 R | NA | 41 | NA |
| PZ-105 | SMPZ-105-GW082610 | Ho-166m | Filtered | -3.3 U | 11 | 3.2 | 5.1 |
| PZ-105 | SMPZ-105-GW082710 | Ho-166m | Filtered | -0.64 U | 2.6 | 0.76 | 1.2 |
| PZ-105 | SMPZ-105-GW082610 | Ho-166m | Suspended | -0.6 U | 3.5 | 1 | 1.6 |
| PZ-105 | SMPZ-105-GW082710 | Ho-166m | Suspended | 0.13 U | 1.1 | 0.33 | 0.53 |
| PZ-105 | SMPZ-105-GW082610 | Ho-166m | Total | -3.9 SK | NA | 3.4 | NA |
| PZ-105 | SMPZ-105-GW082710 | Ho-166m | Total | -0.51 | NA | 0.83 | NA |
| PZ-105 | SMPZ-105-GW082610 | K-40 | Filtered | -51 U | 98 | 59 | 46 |
| PZ-105 | SMPZ-105-GW082710 | K-40 | Filtered | 10.1 | 19 | 5.9 | 8.9 |
| PZ-105 | SMPZ-105-GW082610 | K-40 | Suspended | -18 U | 36 | 23 | 17 |
| PZ-105 | SMPZ-105-GW082710 | K-40 | Suspended | 7.5 | 10 | 3.8 | 4.8 |
| PZ-105 | SMPZ-105-GW082610 | K-40 | Total | -70 | NA | 64 | NA |
| PZ-105 | SMPZ-105-GW082710 | K-40 | Total | 17.5 | NA | 7 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-105 | SMPZ-105-GW082610 | Na-22 | Filtered | -1.3 U | 8 | 2.3 | 3.7 |
| PZ-105 | SMPZ-105-GW082710 | Na-22 | Filtered | -0.05 U | 1.9 | 0.54 | 0.89 |
| PZ-105 | SMPZ-105-GW082610 | Na-22 | Suspended | 0.53 U | 2.6 | 0.74 | 1.2 |
| PZ-105 | SMPZ-105-GW082710 | Na-22 | Suspended | 0.19 U | 0.74 | 0.22 | 0.34 |
| PZ-105 | SMPZ-105-GW082610 | Na-22 | Total | -0.8 | NA | 2.4 | NA |
| PZ-105 | SMPZ-105-GW082710 | Na-22 | Total | 0.14 | NA | 0.58 | NA |
| PZ-105 | SMPZ-105-GW082610 | Nb-94 | Filtered | 0.03 U | 5.2 | 1.5 | 2.4 |
| PZ-105 | SMPZ-105-GW082710 | Nb-94 | Filtered | 0 U | 1.6 | 0.45 | 0.75 |
| PZ-105 | SMPZ-105-GW082610 | Nb-94 | Suspended | 0.22 U | 1.6 | 0.46 | 0.74 |
| PZ-105 | SMPZ-105-GW082710 | Nb-94 | Suspended | -0.02 U | 0.62 | 0.18 | 0.29 |
| PZ-105 | SMPZ-105-GW082610 | Nb-94 | Total | 0.3 | NA | 1.5 | NA |
| PZ-105 | SMPZ-105-GW082710 | Nb-94 | Total | -0.02 | NA | 0.49 | NA |
| PZ-105 | SMPZ-105-GW082610 | Np-236 | Filtered | 0.2 U | 11 | 3.1 | 5.1 |
| PZ-105 | SMPZ-105-GW082710 | Np-236 | Filtered | 0.4 U | 2.6 | 0.76 | 1.2 |
| PZ-105 | SMPZ-105-GW082610 | Np-236 | Suspended | -0.8 U | 4.4 | 1.3 | 2.1 |
| PZ-105 | SMPZ-105-GW082710 | Np-236 | Suspended | -0.07 U | 1.2 | 0.36 | 0.58 |
| PZ-105 | SMPZ-105-GW082610 | Np-236 | Total | -0.6 SK | NA | 3.4 | NA |
| PZ-105 | SMPZ-105-GW082710 | Np-236 | Total | 0.33 | NA | 0.84 | NA |
| PZ-105 | SMPZ-105-GW082610 | Np-239 | Filtered | -8.2 U | 33 | 9.9 | 16 |
| PZ-105 | SMPZ-105-GW082710 | Np-239 | Filtered | -1.2 U | 7.9 | 2.4 | 3.8 |
| PZ-105 | SMPZ-105-GW082610 | Np-239 | Suspended | -0.7 U | 11 | 3.2 | 5.2 |
| PZ-105 | SMPZ-105-GW082710 | Np-239 | Suspended | -1 U | 3.9 | 1.2 | 1.9 |
| PZ-105 | SMPZ-105-GW082610 | Np-239 | Total | -9 | NA | 10 | NA |
| PZ-105 | SMPZ-105-GW082710 | Np-239 | Total | -2.2 | NA | 2.6 | NA |
| PZ-105 | SMPZ-105-GW082610 | Pa-231 | Filtered | -60 U | 260 | 76 | 120 |
| PZ-105 | SMPZ-105-GW082710 | Pa-231 | Filtered | -4 U | 56 | 16 | 27 |
| PZ-105 | SMPZ-105-GW082610 | Pa-231 | Suspended | 2 U | 71 | 21 | 34 |
| PZ-105 | SMPZ-105-GW082710 | Pa-231 | Suspended | -0.002 U | 27 | 8 | 13 |
| PZ-105 | SMPZ-105-GW082610 | Pa-231 | Total | -58 | NA | 79 | NA |
| PZ-105 | SMPZ-105-GW082710 | Pa-231 | Total | -4 | NA | 18 | NA |
| PZ-105 | SMPZ-105-GW082610 | Pb-212 | Filtered | -4.1 U | 13 | 6.1 | 6.2 |
| PZ-105 | SMPZ-105-GW082710 | Pb-212 | Filtered | -0.31 U | 2.7 | 0.98 | 1.3 |
| PZ-105 | SMPZ-105-GW082610 | Pb-212 | Suspended | -1.7 U | 4.6 | 2.7 | 2.3 |
| PZ-105 | SMPZ-105-GW082710 | Pb-212 | Suspended | 0.54 U | 1.3 | 0.49 | 0.65 |
| PZ-105 | SMPZ-105-GW082610 | Pb-212 | Total | -5.8 | NA | 6.7 | NA |
| PZ-105 | SMPZ-105-GW082710 | Pb-212 | Total | 0.2 | NA | 1.1 | NA |
| PZ-105 | SMPZ-105-GW082610 | Pb-214 | Filtered | 0.4 U | 13 | 3.6 | 6.4 |
| PZ-105 | SMPZ-105-GW082710 | Pb-214 | Filtered | -0.9 U | 3.1 | 2 | 1.5 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-105 | SMPZ-105-GW082610 | Pb-214 | Suspended | -4.3 U | 5.4 | 6.1 | 2.6 |
| PZ-105 | SMPZ-105-GW082710 | Pb-214 | Suspended | 2.25 | 1.4 | 0.55 | 0.69 |
| PZ-105 | SMPZ-105-GW082610 | Pb-214 | Total | -3.8 | NA | 7.1 | NA |
| PZ-105 | SMPZ-105-GW082710 | Pb-214 | Total | 1.4 | NA | 2.1 | NA |
| PZ-105 | SMPZ-105-GW082610 | Sb-125 | Filtered | -19 U | 60 | 18 | 29 |
| PZ-105 | SMPZ-105-GW082710 | Sb-125 | Filtered | 0.03 U | 13 | 3.9 | 6.4 |
| PZ-105 | SMPZ-105-GW082610 | Sb-125 | Suspended | 1.7 U | 21 | 6.3 | 10 |
| PZ-105 | SMPZ-105-GW082710 | Sb-125 | Suspended | -0.8 U | 6.1 | 1.8 | 3 |
| PZ-105 | SMPZ-105-GW082610 | Sb-125 | Total | -17 SK | NA | 19 | NA |
| PZ-105 | SMPZ-105-GW082710 | Sb-125 | Total | -0.7 | NA | 4.3 | NA |
| PZ-105 | SMPZ-105-GW082610 | Sn-126 | Filtered | 1.1 U | 6.4 | 1.9 | 3 |
| PZ-105 | SMPZ-105-GW082710 | Sn-126 | Filtered | 0.81 | 1.6 | 0.5 | 0.77 |
| PZ-105 | SMPZ-105-GW082610 | Sn-126 | Suspended | -0.007 U | 2.7 | 0.77 | 1.3 |
| PZ-105 | SMPZ-105-GW082710 | Sn-126 | Suspended | -0.05 U | 0.82 | 0.24 | 0.39 |
| PZ-105 | SMPZ-105-GW082610 | Sn-126 | Total | 1 | NA | 2 | NA |
| PZ-105 | SMPZ-105-GW082710 | Sn-126 | Total | 0.76 | NA | 0.55 | NA |
| PZ-105 | SMPZ-105-GW082610 | Sr-90 | Filtered | 0.029 U | 0.2 | 0.058 | 0.11 |
| PZ-105 | SMPZ-105-GW082610 | Sr-90 | Suspended | 0.032 U | 0.1 | 0.031 | 0.059 |
| PZ-105 | SMPZ-105-GW082610 | Sr-90 | Total | 0.061 | NA | 0.066 | NA |
| PZ-105 | SMPZ-105-GW082610 | Te-125m | Filtered | -4.3 U | 14 | 4.1 | 6.6 |
| PZ-105 | SMPZ-105-GW082710 | Te-125m | Filtered | 0.007 U | 3 | 0.89 | 1.5 |
| PZ-105 | SMPZ-105-GW082610 | Te-125m | Suspended | 0.4 U | 4.9 | 1.5 | 2.4 |
| PZ-105 | SMPZ-105-GW082710 | Te-125m | Suspended | -0.17 U | 1.4 | 0.42 | 0.69 |
| PZ-105 | SMPZ-105-GW082610 | Te-125m | Total | -3.9 SK | NA | 4.4 | NA |
| PZ-105 | SMPZ-105-GW082710 | Te-125m | Total | -0.16 | NA | 0.99 | NA |
| PZ-105 | SMPZ-105-GW082610 | Th-231 | Filtered | 0.454 | 0.013 | 0.051 | 0.008 |
| PZ-105 | SMPZ-105-GW082610 | Th-231 | Suspended | 0 U | 0.023 | 0.0085 | 0.02 |
| PZ-105 | SMPZ-105-GW082610 | Th-231 | Total | 0.454 | NA | 0.052 | NA |
| PZ-105 | SMPZ-105-GW082610 | Th-234 | Filtered | -4 U | 85 | 26 | 41 |
| PZ-105 | SMPZ-105-GW082710 | Th-234 | Filtered | 17 | 23 | 7.5 | 11 |
| PZ-105 | SMPZ-105-GW082610 | Th-234 | Suspended | 2 U | 28 | 10 | 14 |
| PZ-105 | SMPZ-105-GW082710 | Th-234 | Suspended | 5.7 | 7.8 | 2.8 | 3.8 |
| PZ-105 | SMPZ-105-GW082610 | Th-234 | Total | -2 | NA | 28 | NA |
| PZ-105 | SMPZ-105-GW082710 | Th-234 | Total | 22.7 | NA | 8 | NA |
| PZ-105 | SMPZ-105-GW082610 | Tl-208 | Filtered | -6 U | 9 | 110 | 4 |
| PZ-105 | SMPZ-105-GW082710 | Tl-208 | Filtered | 0.28 U | 1.6 | 0.44 | 0.77 |
| PZ-105 | SMPZ-105-GW082610 | Tl-208 | Suspended | -0.14 U | 2.8 | 0.93 | 1.3 |
| PZ-105 | SMPZ-105-GW082710 | Tl-208 | Suspended | 0.16 U | 0.92 | 0.25 | 0.44 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| PZ-105 | SMPZ-105-GW082610 | Tl-208 | Total | -6 | NA | 110 | NA |
| PZ-105 | SMPZ-105-GW082710 | Tl-208 | Total | 0.44 | NA | 0.5 | NA |
| PZ-105 | SMPZ-105-GW082610 | Tm-171 | Filtered | 350 U | 1400 | 410 | 670 |
| PZ-105 | SMPZ-105-GW082710 | Tm-171 | Filtered | 30 U | 350 | 100 | 170 |
| PZ-105 | SMPZ-105-GW082610 | Tm-171 | Suspended | -60 U | 450 | 130 | 220 |
| PZ-105 | SMPZ-105-GW082710 | Tm-171 | Suspended | 7 U | 130 | 38 | 63 |
| PZ-105 | SMPZ-105-GW082610 | Tm-171 | Total | 280 | NA | 430 | NA |
| PZ-105 | SMPZ-105-GW082710 | Tm-171 | Total | 40 | NA | 110 | NA |
| PZ-105 | SMPZ-105-GW082610 | U-233/234 | Filtered | 10.9 K | 0.01 | 0.5 | 0.006 |
| PZ-105 | SMPZ-105-GW082610 | U-233/234 | Suspended | 0.048 | 0.018 | 0.018 | 0.016 |
| PZ-105 | SMPZ-105-GW082610 | U-233/234 | Total | 11 | NA | 0.5 | NA |
| PZ-105 | SMPZ-105-GW082610 | U-235/236 | Filtered | 0.454 | 0.013 | 0.051 | 0.008 |
| PZ-105 | SMPZ-105-GW082610 | U-235/236 | Suspended | 0 U | 0.023 | 0.0085 | 0.02 |
| PZ-105 | SMPZ-105-GW082610 | U-235/236 | Total | 0.454 | NA | 0.052 | NA |
| PZ-105 | SMPZ-105-GW082610 | U-238 | Filtered | 10.4 | 0.01 | 0.48 | 0.006 |
| PZ-105 | SMPZ-105-GW082610 | U-238 | Suspended | 0.041 | 0.018 | 0.017 | 0.016 |
| PZ-105 | SMPZ-105-GW082610 | U-238 | Total | 10.4 | NA | 0.48 | NA |
| PZ-106 | SMPZ-106-GW082610 | Ac-227 | Filtered | 2.6 U | 7.8 | 2.4 | 3.7 |
| PZ-106 | SMPZ-106-GW082610 | Ac-227 | Suspended | -3.6 L U | 4.8 | 1.5 | 2.3 |
| PZ-106 | SMPZ-106-GW082610 | Ac-227 | Total | -0.9 | NA | 2.8 | NA |
| PZ-106 | SMPZ-106-GW082610 | Ac-228 | Filtered | 4 | 5.2 | 1.7 | 2.4 |
| PZ-106 | SMPZ-106-GW082610 | Ac-228 | Suspended | -0.4 U B | 3 | 0.93 | 1.4 |
| PZ-106 | SMPZ-106-GW082610 | Ac-228 | Total | 3.6 | NA | 1.9 | NA |
| PZ-106 | SMPZ-106-GW082610 | Ag-108 | Filtered | 0.028 U R | 0.11 | 0.032 | 0.051 |
| PZ-106 | SMPZ-106-GW082610 | Ag-108 | Suspended | 0.004 U R | 0.048 | 0.014 | 0.023 |
| PZ-106 | SMPZ-106-GW082610 | Ag-108 | Total | 0.033 R | NA | 0.035 | NA |
| PZ-106 | SMPZ-106-GW082610 | Ag-108m | Filtered | 0.3 U R | 1.2 | 0.34 | 0.55 |
| PZ-106 | SMPZ-106-GW082610 | Ag-108m | Suspended | 0.05 U R | 0.52 | 0.15 | 0.25 |
| PZ-106 | SMPZ-106-GW082610 | Ag-108m | Total | 0.35 R | NA | 0.38 | NA |
| PZ-106 | SMPZ-106-GW082610 | Ba-133 | Filtered | -1.8 U R | 15 | 4.4 | 7.2 |
| PZ-106 | SMPZ-106-GW082610 | Ba-133 | Suspended | 1.1 U R | 6.3 | 1.9 | 3.1 |
| PZ-106 | SMPZ-106-GW082610 | Ba-133 | Total | -0.7 R | NA | 4.8 | NA |
| PZ-106 | SMPZ-106-GW082610 | Ba-137m | Filtered | 0.51 U | 1.3 | 0.39 | 0.6 |
| PZ-106 | SMPZ-106-GW082610 | Ba-137m | Suspended | 0.16 U | 0.62 | 0.18 | 0.29 |
| PZ-106 | SMPZ-106-GW082610 | Ba-137m | Total | 0.67 | NA | 0.43 | NA |
| PZ-106 | SMPZ-106-GW082610 | Bi-212 | Filtered | 0 U | 17 | 5 | 8.2 |
| PZ-106 | SMPZ-106-GW082610 | Bi-212 | Suspended | 2.6 U | 6.6 | 2 | 3.2 |
| PZ-106 | SMPZ-106-GW082610 | Bi-212 | Total | 2.6 | NA | 5.4 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-106 | SMPZ-106-GW082610 | Bi-214 | Filtered | 1 U | 3.2 | 0.94 | 1.5 |
| PZ-106 | SMPZ-106-GW082610 | Bi-214 | Suspended | -0.38 U | 1.7 | 0.62 | 0.84 |
| PZ-106 | SMPZ-106-GW082610 | Bi-214 | Total | 0.6 | NA | 1.1 | NA |
| PZ-106 | SMPZ-106-GW082610 | Cd-113m | Filtered | 2100 U | 16000 | 4800 | 7800 |
| PZ-106 | SMPZ-106-GW082610 | Cd-113m | Suspended | 400 U | 6600 | 2000 | 3200 |
| PZ-106 | SMPZ-106-GW082610 | Cd-113m | Total | 2500 | NA | 5200 | NA |
| PZ-106 | SMPZ-106-GW082610 | Cf-249 | Filtered | 1.2 U R | 6.2 | 1.8 | 3 |
| PZ-106 | SMPZ-106-GW082610 | Cf-249 | Suspended | 0.75 U R | 2.9 | 0.88 | 1.4 |
| PZ-106 | SMPZ-106-GW082610 | Cf-249 | Total | 2 R | NA | 2 | NA |
| PZ-106 | SMPZ-106-GW082610 | Co-60 | Filtered | 0.01 U | 1.9 | 0.54 | 0.88 |
| PZ-106 | SMPZ-106-GW082610 | Co-60 | Suspended | 0.11 U | 0.78 | 0.22 | 0.36 |
| PZ-106 | SMPZ-106-GW082610 | Co-60 | Total | 0.12 | NA | 0.58 | NA |
| PZ-106 | SMPZ-106-GW082610 | Cs-134 | Filtered | -0.44 U | 1.8 | 0.54 | 0.86 |
| PZ-106 | SMPZ-106-GW082610 | Cs-134 | Suspended | -0.12 U | 0.88 | 0.26 | 0.42 |
| PZ-106 | SMPZ-106-GW082610 | Cs-134 | Total | -0.55 SK | NA | 0.6 | NA |
| PZ-106 | SMPZ-106-GW082610 | Cs-137 | Filtered | 0.54 U | 1.4 | 0.41 | 0.63 |
| PZ-106 | SMPZ-106-GW082610 | Cs-137 | Suspended | 0.17 U | 0.65 | 0.19 | 0.31 |
| PZ-106 | SMPZ-106-GW082610 | Cs-137 | Total | 0.71 | NA | 0.45 | NA |
| PZ-106 | SMPZ-106-GW082610 | Eu-152 | Filtered | 0.5 U | 3.7 | 1.1 | 1.7 |
| PZ-106 | SMPZ-106-GW082610 | Eu-152 | Suspended | 0.62 U | 1.8 | 0.55 | 0.89 |
| PZ-106 | SMPZ-106-GW082610 | Eu-152 | Total | 1.1 | NA | 1.2 | NA |
| PZ-106 | SMPZ-106-GW082610 | Eu-154 | Filtered | -0.9 U | 12 | 3.3 | 5.4 |
| PZ-106 | SMPZ-106-GW082610 | Eu-154 | Suspended | -2 U | 5.6 | 1.7 | 2.6 |
| PZ-106 | SMPZ-106-GW082610 | Eu-154 | Total | -2.9 | NA | 3.7 | NA |
| PZ-106 | SMPZ-106-GW082610 | Eu-155 | Filtered | 0.1 U | 3.5 | 1 | 1.7 |
| PZ-106 | SMPZ-106-GW082610 | Eu-155 | Suspended | 0.45 U | 1.2 | 0.35 | 0.56 |
| PZ-106 | SMPZ-106-GW082610 | Eu-155 | Total | 0.6 SK | NA | 1.1 | NA |
| PZ-106 | SMPZ-106-GW082610 | gross_alpha | Filtered | 6.68 | 0.53 | 0.55 | 0.29 |
| PZ-106 | SMPZ-106-GW082610 | gross_alpha | Suspended | 0.61 | 0.61 | 0.23 | 0.31 |
| PZ-106 | SMPZ-106-GW082610 | gross_alpha | Total | 7.3 | NA | 0.6 | NA |
| PZ-106 | SMPZ-106-GW082610 | gross_beta | Filtered | 9.7 | 2.5 | 1.2 | 1.4 |
| PZ-106 | SMPZ-106-GW082610 | gross_beta | Suspended | 0.36 U | 0.71 | 0.22 | 0.42 |
| PZ-106 | SMPZ-106-GW082610 | gross_beta | Total | 10 | NA | 1.2 | NA |
| PZ-106 | SMPZ-106-GW082610 | H-3 | Filtered | 13 U | 130 | 40 | 66 |
| PZ-106 | SMPZ-106-GW082610 | H-3 | Suspended | -10.3 U R | 25 | 6.1 | 11 |
| PZ-106 | SMPZ-106-GW082610 | H-3 | Total | 3 R | NA | 41 | NA |
| PZ-106 | SMPZ-106-GW082610 | Ho-166m | Filtered | 0.34 U | 2.1 | 0.61 | 0.97 |
| PZ-106 | SMPZ-106-GW082610 | Ho-166m | Suspended | 0.01 U | 1.2 | 0.36 | 0.59 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-106 | SMPZ-106-GW082610 | Ho-166m | Total | 0.35 SK | NA | 0.71 | NA |
| PZ-106 | SMPZ-106-GW082610 | K-40 | Filtered | -14 U | 25 | 18 | 12 |
| PZ-106 | SMPZ-106-GW082610 | K-40 | Suspended | 5.5 U | 12 | 3.3 | 5.8 |
| PZ-106 | SMPZ-106-GW082610 | K-40 | Total | -9 | NA | 19 | NA |
| PZ-106 | SMPZ-106-GW082610 | Na-22 | Filtered | -0.14 U | 2.2 | 0.61 | 1 |
| PZ-106 | SMPZ-106-GW082610 | Na-22 | Suspended | 0 U | 1.1 | 0.31 | 0.52 |
| PZ-106 | SMPZ-106-GW082610 | Na-22 | Total | -0.14 | NA | 0.69 | NA |
| PZ-106 | SMPZ-106-GW082610 | Nb-94 | Filtered | -0.16 U | 1.4 | 0.4 | 0.64 |
| PZ-106 | SMPZ-106-GW082610 | Nb-94 | Suspended | -0.11 U | 0.71 | 0.21 | 0.34 |
| PZ-106 | SMPZ-106-GW082610 | Nb-94 | Total | -0.27 | NA | 0.45 | NA |
| PZ-106 | SMPZ-106-GW082610 | Np-236 | Filtered | 0.55 U | 2.8 | 0.82 | 1.3 |
| PZ-106 | SMPZ-106-GW082610 | Np-236 | Suspended | -0.18 U | 1.2 | 0.36 | 0.59 |
| PZ-106 | SMPZ-106-GW082610 | Np-236 | Total | 0.37 SK | NA | 0.9 | NA |
| PZ-106 | SMPZ-106-GW082610 | Np-239 | Filtered | 2.1 U | 9 | 2.7 | 4.4 |
| PZ-106 | SMPZ-106-GW082610 | Np-239 | Suspended | 0.3 U | 3.9 | 1.2 | 1.9 |
| PZ-106 | SMPZ-106-GW082610 | Np-239 | Total | 2.4 | NA | 2.9 | NA |
| PZ-106 | SMPZ-106-GW082610 | Pa-231 | Filtered | -6 U | 56 | 16 | 27 |
| PZ-106 | SMPZ-106-GW082610 | Pa-231 | Suspended | 5.4 U | 27 | 8 | 13 |
| PZ-106 | SMPZ-106-GW082610 | Pa-231 | Total | -0.3 | NA | 18 | NA |
| PZ-106 | SMPZ-106-GW082610 | Pb-212 | Filtered | 2 | 3 | 1 | 1.4 |
| PZ-106 | SMPZ-106-GW082610 | Pb-212 | Suspended | -0.16 U | 1.3 | 0.48 | 0.65 |
| PZ-106 | SMPZ-106-GW082610 | Pb-212 | Total | 1.8 | NA | 1.1 | NA |
| PZ-106 | SMPZ-106-GW082610 | Pb-214 | Filtered | 3.1 | 3.4 | 1.3 | 1.6 |
| PZ-106 | SMPZ-106-GW082610 | Pb-214 | Suspended | -0.58 U | 1.5 | 0.69 | 0.72 |
| PZ-106 | SMPZ-106-GW082610 | Pb-214 | Total | 2.5 | NA | 1.5 | NA |
| PZ-106 | SMPZ-106-GW082610 | Sb-125 | Filtered | -0.8 U | 15 | 4.3 | 7.1 |
| PZ-106 | SMPZ-106-GW082610 | Sb-125 | Suspended | -1 U | 6.6 | 2 | 3.2 |
| PZ-106 | SMPZ-106-GW082610 | Sb-125 | Total | -1.8 SK | NA | 4.7 | NA |
| PZ-106 | SMPZ-106-GW082610 | Sn-126 | Filtered | -0.26 U | 1.8 | 0.53 | 0.86 |
| PZ-106 | SMPZ-106-GW082610 | Sn-126 | Suspended | -0.01 U | 0.84 | 0.24 | 0.4 |
| PZ-106 | SMPZ-106-GW082610 | Sn-126 | Total | -0.27 | NA | 0.59 | NA |
| PZ-106 | SMPZ-106-GW082610 | Sr-90 | Filtered | 0.005 U | 0.14 | 0.039 | 0.076 |
| PZ-106 | SMPZ-106-GW082610 | Sr-90 | Suspended | 0.055 U | 0.11 | 0.032 | 0.06 |
| PZ-106 | SMPZ-106-GW082610 | Sr-90 | Total | 0.059 | NA | 0.051 | NA |
| PZ-106 | SMPZ-106-GW082610 | Te-125m | Filtered | -0.19 U | 3.4 | 0.99 | 1.6 |
| PZ-106 | SMPZ-106-GW082610 | Te-125m | Suspended | -0.22 U | 1.5 | 0.45 | 0.74 |
| PZ-106 | SMPZ-106-GW082610 | Te-125m | Total | -0.4 SK | NA | 1.1 | NA |
| PZ-106 | SMPZ-106-GW082610 | Th-231 | Filtered | 0.148 | 0.028 | 0.028 | 0.008 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| PZ-106 | SMPZ-106-GW082610 | Th-231 | Suspended | 0.0026 U | 0.0069 | 0.0026 | 0.006 |
| PZ-106 | SMPZ-106-GW082610 | Th-231 | Total | 0.15 | NA | 0.028 | NA |
| PZ-106 | SMPZ-106-GW082610 | Th-234 | Filtered | 7.3 U | 22 | 7.1 | 11 |
| PZ-106 | SMPZ-106-GW082610 | Th-234 | Suspended | 3 U | 9.4 | 3.2 | 4.6 |
| PZ-106 | SMPZ-106-GW082610 | Th-234 | Total | 10.4 | NA | 7.8 | NA |
| PZ-106 | SMPZ-106-GW082610 | Tl-208 | Filtered | -0.9 U | 2.1 | 1.2 | 1 |
| PZ-106 | SMPZ-106-GW082610 | Tl-208 | Suspended | 0.34 U | 0.89 | 0.33 | 0.43 |
| PZ-106 | SMPZ-106-GW082610 | Tl-208 | Total | -0.6 | NA | 1.3 | NA |
| PZ-106 | SMPZ-106-GW082610 | Tm-171 | Filtered | 55 U | 250 | 73 | 120 |
| PZ-106 | SMPZ-106-GW082610 | Tm-171 | Suspended | 20 U | 140 | 41 | 68 |
| PZ-106 | SMPZ-106-GW082610 | Tm-171 | Total | 75 | NA | 84 | NA |
| PZ-106 | SMPZ-106-GW082610 | U-233/234 | Filtered | 3.26 K | 0.02 | 0.18 | 0.007 |
| PZ-106 | SMPZ-106-GW082610 | U-233/234 | Suspended | 0.0123 | 0.019 | 0.0065 | 0.0068 |
| PZ-106 | SMPZ-106-GW082610 | U-233/234 | Total | 3.28 | NA | 0.18 | NA |
| PZ-106 | SMPZ-106-GW082610 | U-235/236 | Filtered | 0.148 | 0.028 | 0.028 | 0.008 |
| PZ-106 | SMPZ-106-GW082610 | U-235/236 | Suspended | 0.0026 U | 0.0069 | 0.0026 | 0.006 |
| PZ-106 | SMPZ-106-GW082610 | U-235/236 | Total | 0.15 | NA | 0.028 | NA |
| PZ-106 | SMPZ-106-GW082610 | U-238 | Filtered | 2.95 | 0.01 | 0.16 | 0.007 |
| PZ-106 | SMPZ-106-GW082610 | U-238 | Suspended | 0.0123 | 0.0056 | 0.0051 | 0.0048 |
| PZ-106 | SMPZ-106-GW082610 | U-238 | Total | 2.96 | NA | 0.16 | NA |
| PZ-108 | SMPZ-108-GW082710 | Ac-227 | Filtered | 0 U | 10 | 3.1 | 5.1 |
| PZ-108 | SMPZ-108-GW082710 | Ac-227 | Suspended | -1.2 U | 4 | 1.2 | 1.9 |
| PZ-108 | SMPZ-108-GW082710 | Ac-227 | Total | -1.2 | NA | 3.3 | NA |
| PZ-108 | SMPZ-108-GW082710 | Ac-228 | Filtered | -0.08 U | 4.9 | 1.4 | 2.2 |
| PZ-108 | SMPZ-108-GW082710 | Ac-228 | Suspended | 1.37 | 2.2 | 0.68 | 1 |
| PZ-108 | SMPZ-108-GW082710 | Ac-228 | Total | 1.3 | NA | 1.5 | NA |
| PZ-108 | SMPZ-108-GW082710 | Ag-108 | Filtered | 0.033 U R | 0.094 | 0.028 | 0.044 |
| PZ-108 | SMPZ-108-GW082710 | Ag-108 | Suspended | 0.015 U R | 0.047 | 0.014 | 0.022 |
| PZ-108 | SMPZ-108-GW082710 | Ag-108 | Total | 0.048 R | NA | 0.031 | NA |
| PZ-108 | SMPZ-108-GW082710 | Ag-108m | Filtered | 0.36 U R | 1 | 0.3 | 0.47 |
| PZ-108 | SMPZ-108-GW082710 | Ag-108m | Suspended | 0.16 U R | 0.5 | 0.15 | 0.24 |
| PZ-108 | SMPZ-108-GW082710 | Ag-108m | Total | 0.52 R | NA | 0.34 | NA |
| PZ-108 | SMPZ-108-GW082710 | Ba-133 | Filtered | 2.9 U R | 12 | 3.6 | 5.7 |
| PZ-108 | SMPZ-108-GW082710 | Ba-133 | Suspended | 0.7 U R | 5.9 | 1.7 | 2.8 |
| PZ-108 | SMPZ-108-GW082710 | Ba-133 | Total | 3.6 R | NA | 4 | NA |
| PZ-108 | SMPZ-108-GW082710 | Ba-137m | Filtered | 0.42 U | 1.3 | 0.39 | 0.62 |
| PZ-108 | SMPZ-108-GW082710 | Ba-137m | Suspended | -0.35 U | 0.78 | 0.62 | 0.37 |
| PZ-108 | SMPZ-108-GW082710 | Ba-137m | Total | 0.07 | NA | 0.74 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-108 | SMPZ-108-GW082710 | Bi-212 | Filtered | 0 U | 13 | 3.6 | 5.9 |
| PZ-108 | SMPZ-108-GW082710 | Bi-212 | Suspended | 2 U | 5 | 1.5 | 2.3 |
| PZ-108 | SMPZ-108-GW082710 | Bi-212 | Total | 2 | NA | 3.9 | NA |
| PZ-108 | SMPZ-108-GW082710 | Bi-214 | Filtered | 2.7 | 2.6 | 1.1 | 1.2 |
| PZ-108 | SMPZ-108-GW082710 | Bi-214 | Suspended | 0.62 | 1.2 | 0.41 | 0.55 |
| PZ-108 | SMPZ-108-GW082710 | Bi-214 | Total | 3.3 | NA | 1.1 | NA |
| PZ-108 | SMPZ-108-GW082710 | Cd-113m | Filtered | 2300 U | 15000 | 4400 | 7200 |
| PZ-108 | SMPZ-108-GW082710 | Cd-113m | Suspended | -300 U | 6700 | 2000 | 3200 |
| PZ-108 | SMPZ-108-GW082710 | Cd-113m | Total | 1900 | NA | 4800 | NA |
| PZ-108 | SMPZ-108-GW082710 | Cf-249 | Filtered | -0.2 U R | 7.4 | 2.2 | 3.6 |
| PZ-108 | SMPZ-108-GW082710 | Cf-249 | Suspended | 1.15 U R | 2.5 | 0.75 | 1.2 |
| PZ-108 | SMPZ-108-GW082710 | Cf-249 | Total | 1 R | NA | 2.3 | NA |
| PZ-108 | SMPZ-108-GW082710 | Co-60 | Filtered | 0 U | 1.8 | 0.5 | 0.83 |
| PZ-108 | SMPZ-108-GW082710 | Co-60 | Suspended | 0.11 U | 0.76 | 0.22 | 0.35 |
| PZ-108 | SMPZ-108-GW082710 | Co-60 | Total | 0.11 | NA | 0.55 | NA |
| PZ-108 | SMPZ-108-GW082710 | Cs-134 | Filtered | -0.33 U | 1.5 | 0.45 | 0.72 |
| PZ-108 | SMPZ-108-GW082710 | Cs-134 | Suspended | -0.01 U | 0.78 | 0.23 | 0.37 |
| PZ-108 | SMPZ-108-GW082710 | Cs-134 | Total | -0.34 | NA | 0.5 | NA |
| PZ-108 | SMPZ-108-GW082710 | Cs-137 | Filtered | 0.44 U | 1.4 | 0.42 | 0.66 |
| PZ-108 | SMPZ-108-GW082710 | Cs-137 | Suspended | -0.37 U | 0.82 | 0.66 | 0.39 |
| PZ-108 | SMPZ-108-GW082710 | Cs-137 | Total | 0.08 | NA | 0.78 | NA |
| PZ-108 | SMPZ-108-GW082710 | Eu-152 | Filtered | 0.003 U | 3.4 | 0.97 | 1.6 |
| PZ-108 | SMPZ-108-GW082710 | Eu-152 | Suspended | 0.8 | 1.4 | 0.42 | 0.66 |
| PZ-108 | SMPZ-108-GW082710 | Eu-152 | Total | 0.8 | NA | 1.1 | NA |
| PZ-108 | SMPZ-108-GW082710 | Eu-154 | Filtered | 2.6 U | 11 | 3.3 | 5.2 |
| PZ-108 | SMPZ-108-GW082710 | Eu-154 | Suspended | 1 U | 5.2 | 1.5 | 2.4 |
| PZ-108 | SMPZ-108-GW082710 | Eu-154 | Total | 3.7 | NA | 3.6 | NA |
| PZ-108 | SMPZ-108-GW082710 | Eu-155 | Filtered | -0.09 U | 3.1 | 0.9 | 1.5 |
| PZ-108 | SMPZ-108-GW082710 | Eu-155 | Suspended | 0.3 U | 1.2 | 0.36 | 0.58 |
| PZ-108 | SMPZ-108-GW082710 | Eu-155 | Total | 0.21 | NA | 0.97 | NA |
| PZ-108 | SMPZ-108-GW082710 | gross_alpha | Filtered | 32.5 | 0.4 | 1.6 | 0.2 |
| PZ-108 | SMPZ-108-GW082710 | gross_alpha | Suspended | 0.63 | 0.51 | 0.2 | 0.27 |
| PZ-108 | SMPZ-108-GW082710 | gross_alpha | Total | 33.1 | NA | 1.7 | NA |
| PZ-108 | SMPZ-108-GW082710 | gross_beta | Filtered | 26.1 | 2.2 | 1.7 | 1.2 |
| PZ-108 | SMPZ-108-GW082710 | gross_beta | Suspended | 0.01 U | 0.69 | 0.19 | 0.41 |
| PZ-108 | SMPZ-108-GW082710 | gross_beta | Total | 26.1 | NA | 1.7 | NA |
| PZ-108 | SMPZ-108-GW082710 | H-3 | Filtered | -13 U | 130 | 40 | 66 |
| PZ-108 | SMPZ-108-GW082710 | H-3 | Suspended | 3.4 U R | 21 | 5.9 | 9.5 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| PZ-108 | SMPZ-108-GW082710 | H-3 | Total | -10 R | NA | 41 | NA |
| PZ-108 | SMPZ-108-GW082710 | H-3_Total | Filtered | -13.4 U | 35 | 9.2 | 16 |
| PZ-108 | SMPZ-108-GW082710 | H-3_Total | Suspended | 3.4 U R | 18 | 5.1 | 8.1 |
| PZ-108 | SMPZ-108-GW082710 | H-3_Total | Total | -10 R | NA | 11 | NA |
| PZ-108 | SMPZ-108-GW082710 | Ho-166m | Filtered | 0.18 U | 2.1 | 0.61 | 0.99 |
| PZ-108 | SMPZ-108-GW082710 | Ho-166m | Suspended | -0.06 U | 0.89 | 0.25 | 0.41 |
| PZ-108 | SMPZ-108-GW082710 | Ho-166m | Total | 0.12 | NA | 0.66 | NA |
| PZ-108 | SMPZ-108-GW082710 | K-40 | Filtered | -7 U | 24 | 12 | 11 |
| PZ-108 | SMPZ-108-GW082710 | K-40 | Suspended | -5.5 U | 11 | 6.2 | 5 |
| PZ-108 | SMPZ-108-GW082710 | K-40 | Total | -13 | NA | 14 | NA |
| PZ-108 | SMPZ-108-GW082710 | Na-22 | Filtered | 0.13 U | 1.7 | 0.49 | 0.79 |
| PZ-108 | SMPZ-108-GW082710 | Na-22 | Suspended | -0.14 U | 0.94 | 0.27 | 0.43 |
| PZ-108 | SMPZ-108-GW082710 | Na-22 | Total | -0.007 | NA | 0.56 | NA |
| PZ-108 | SMPZ-108-GW082710 | Nb-94 | Filtered | 0.4 U | 1.2 | 0.34 | 0.54 |
| PZ-108 | SMPZ-108-GW082710 | Nb-94 | Suspended | -0.19 U | 0.58 | 0.17 | 0.27 |
| PZ-108 | SMPZ-108-GW082710 | Nb-94 | Total | 0.21 | NA | 0.38 | NA |
| PZ-108 | SMPZ-108-GW082710 | Np-236 | Filtered | -0.49 U | 2.6 | 0.77 | 1.2 |
| PZ-108 | SMPZ-108-GW082710 | Np-236 | Suspended | -0.01 U | 1.1 | 0.34 | 0.56 |
| PZ-108 | SMPZ-108-GW082710 | Np-236 | Total | -0.5 | NA | 0.84 | NA |
| PZ-108 | SMPZ-108-GW082710 | Np-239 | Filtered | -1.1 U | 8.6 | 2.6 | 4.2 |
| PZ-108 | SMPZ-108-GW082710 | Np-239 | Suspended | -0.32 U | 2.9 | 0.86 | 1.4 |
| PZ-108 | SMPZ-108-GW082710 | Np-239 | Total | -1.4 | NA | 2.7 | NA |
| PZ-108 | SMPZ-108-GW082710 | Pa-231 | Filtered | 19 U | 55 | 17 | 27 |
| PZ-108 | SMPZ-108-GW082710 | Pa-231 | Suspended | -3.8 U | 25 | 7.4 | 12 |
| PZ-108 | SMPZ-108-GW082710 | Pa-231 | Total | 15 | NA | 18 | NA |
| PZ-108 | SMPZ-108-GW082710 | Pb-212 | Filtered | 1.2 | 2.3 | 0.83 | 1.1 |
| PZ-108 | SMPZ-108-GW082710 | Pb-212 | Suspended | 0.61 | 0.93 | 0.29 | 0.44 |
| PZ-108 | SMPZ-108-GW082710 | Pb-212 | Total | 1.8 | NA | 0.88 | NA |
| PZ-108 | SMPZ-108-GW082710 | Pb-214 | Filtered | 0.24 U | 2.9 | 0.79 | 1.4 |
| PZ-108 | SMPZ-108-GW082710 | Pb-214 | Suspended | 1.11 | 1.2 | 0.37 | 0.55 |
| PZ-108 | SMPZ-108-GW082710 | Pb-214 | Total | 1.35 | NA | 0.87 | NA |
| PZ-108 | SMPZ-108-GW082710 | Sb-125 | Filtered | 4.7 U | 12 | 3.5 | 5.6 |
| PZ-108 | SMPZ-108-GW082710 | Sb-125 | Suspended | 0.5 U | 5.9 | 1.7 | 2.9 |
| PZ-108 | SMPZ-108-GW082710 | Sb-125 | Total | 5.2 | NA | 3.9 | NA |
| PZ-108 | SMPZ-108-GW082710 | Sn-126 | Filtered | 0.47 U | 1.4 | 0.43 | 0.67 |
| PZ-108 | SMPZ-108-GW082710 | Sn-126 | Suspended | 0.36 | 0.63 | 0.19 | 0.29 |
| PZ-108 | SMPZ-108-GW082710 | Sn-126 | Total | 0.84 | NA | 0.47 | NA |
| PZ-108 | SMPZ-108-GW082710 | Sr-90 | Filtered | 0.072 U | 0.2 | 0.061 | 0.12 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-108 | SMPZ-108-GW082710 | Sr-90 | Suspended | -0.021 U | 0.15 | 0.042 | 0.091 |
| PZ-108 | SMPZ-108-GW082710 | Sr-90 | Total | 0.052 | NA | 0.074 | NA |
| PZ-108 | SMPZ-108-GW082710 | Te-125m | Filtered | 1.1 U | 2.7 | 0.81 | 1.3 |
| PZ-108 | SMPZ-108-GW082710 | Te-125m | Suspended | 0.12 U | 1.4 | 0.4 | 0.66 |
| PZ-108 | SMPZ-108-GW082710 | Te-125m | Total | 1.21 | NA | 0.9 | NA |
| PZ-108 | SMPZ-108-GW082710 | Th-231 | Filtered | 0.938 | 0.023 | 0.067 | 0.007 |
| PZ-108 | SMPZ-108-GW082710 | Th-231 | Suspended | -0.0048 U | 0.039 | 0.0034 | 0.013 |
| PZ-108 | SMPZ-108-GW082710 | Th-231 | Total | 0.934 | NA | 0.067 | NA |
| PZ-108 | SMPZ-108-GW082710 | Th-234 | Filtered | 23.1 | 24 | 8.4 | 12 |
| PZ-108 | SMPZ-108-GW082710 | Th-234 | Suspended | 2.8 U | 7.8 | 2.8 | 3.8 |
| PZ-108 | SMPZ-108-GW082710 | Th-234 | Total | 25.9 | NA | 8.9 | NA |
| PZ-108 | SMPZ-108-GW082710 | Tl-208 | Filtered | 0.06 U | 1.7 | 0.45 | 0.8 |
| PZ-108 | SMPZ-108-GW082710 | Tl-208 | Suspended | -0.58 U | 0.88 | 0.64 | 0.42 |
| PZ-108 | SMPZ-108-GW082710 | Tl-208 | Total | -0.52 | NA | 0.79 | NA |
| PZ-108 | SMPZ-108-GW082710 | Tm-171 | Filtered | 160 U | 360 | 110 | 170 |
| PZ-108 | SMPZ-108-GW082710 | Tm-171 | Suspended | -131 R U | 130 | 41 | 64 |
| PZ-108 | SMPZ-108-GW082710 | Tm-171 | Total | 20 | NA | 120 | NA |
| PZ-108 | SMPZ-108-GW082710 | U-233/234 | Filtered | 18.3 | 0.007 | 0.8 | 0.006 |
| PZ-108 | SMPZ-108-GW082710 | U-233/234 | Suspended | 0.059 | 0.046 | 0.021 | 0.019 |
| PZ-108 | SMPZ-108-GW082710 | U-233/234 | Total | 18.3 | NA | 0.8 | NA |
| PZ-108 | SMPZ-108-GW082710 | U-235/236 | Filtered | 0.938 | 0.023 | 0.067 | 0.007 |
| PZ-108 | SMPZ-108-GW082710 | U-235/236 | Suspended | -0.0048 U | 0.039 | 0.0034 | 0.013 |
| PZ-108 | SMPZ-108-GW082710 | U-235/236 | Total | 0.934 | NA | 0.067 | NA |
| PZ-108 | SMPZ-108-GW082710 | U-238 | Filtered | 18 | 0.007 | 0.79 | 0.006 |
| PZ-108 | SMPZ-108-GW082710 | U-238 | Suspended | 0.069 K | 0.035 | 0.021 | 0.013 |
| PZ-108 | SMPZ-108-GW082710 | U-238 | Total | 18.1 | NA | 0.79 | NA |
| PZ-109 | SMPZ-109-GW082510 | Ac-227 | Filtered | -0.6 U | 7 | 2.1 | 3.4 |
| PZ-109 | SMPZ-109-GW082510 | Ac-227 | Suspended | 0.9 U | 4.1 | 1.2 | 2 |
| PZ-109 | SMPZ-109-GW082510 | Ac-227 | Total | 0.3 | NA | 2.4 | NA |
| PZ-109 | SMPZ-109-GW082510 | Ac-228 | Filtered | 0 U | 5.7 | 1.6 | 2.6 |
| PZ-109 | SMPZ-109-GW082510 | Ac-228 | Suspended | -1.6 U B | 3.2 | 2 | 1.5 |
| PZ-109 | SMPZ-109-GW082510 | Ac-228 | Total | -1.6 | NA | 2.6 | NA |
| PZ-109 | SMPZ-109-GW082510 | Ag-108 | Filtered | 0.047 R | 0.094 | 0.029 | 0.044 |
| PZ-109 | SMPZ-109-GW082510 | Ag-108 | Suspended | -0.005 U R | 0.049 | 0.014 | 0.024 |
| PZ-109 | SMPZ-109-GW082510 | Ag-108 | Total | 0.042 R | NA | 0.032 | NA |
| PZ-109 | SMPZ-109-GW082510 | Ag-108m | Filtered | 0.51 R | 1 | 0.31 | 0.47 |
| PZ-109 | SMPZ-109-GW082510 | Ag-108m | Suspended | -0.06 U R | 0.53 | 0.16 | 0.25 |
| PZ-109 | SMPZ-109-GW082510 | Ag-108m | Total | 0.45 R | NA | 0.34 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-109 | SMPZ-109-GW082510 | Ba-133 | Filtered | 2.1 U R | 13 | 3.8 | 6.2 |
| PZ-109 | SMPZ-109-GW082510 | Ba-133 | Suspended | 0.5 U R | 5.8 | 1.7 | 2.8 |
| PZ-109 | SMPZ-109-GW082510 | Ba-133 | Total | 2.6 R | NA | 4.2 | NA |
| PZ-109 | SMPZ-109-GW082510 | Ba-137m | Filtered | 0 U | 1.2 | 0.34 | 0.56 |
| PZ-109 | SMPZ-109-GW082510 | Ba-137m | Suspended | 0.2 U | 0.72 | 0.21 | 0.34 |
| PZ-109 | SMPZ-109-GW082510 | Ba-137m | Total | 0.2 | NA | 0.4 | NA |
| PZ-109 | SMPZ-109-GW082510 | Bi-212 | Filtered | 1.2 U | 6.8 | 1.9 | 3 |
| PZ-109 | SMPZ-109-GW082510 | Bi-212 | Suspended | 4.4 | 5.6 | 1.8 | 2.6 |
| PZ-109 | SMPZ-109-GW082510 | Bi-212 | Total | 5.6 | NA | 2.6 | NA |
| PZ-109 | SMPZ-109-GW082510 | Bi-214 | Filtered | 4.78 | 2.3 | 0.85 | 1.1 |
| PZ-109 | SMPZ-109-GW082510 | Bi-214 | Suspended | -0.44 U | 1.7 | 0.64 | 0.81 |
| PZ-109 | SMPZ-109-GW082510 | Bi-214 | Total | 4.3 | NA | 1.1 | NA |
| PZ-109 | SMPZ-109-GW082510 | Cd-113m | Filtered | 7500 | 11000 | 3400 | 5200 |
| PZ-109 | SMPZ-109-GW082510 | Cd-113m | Suspended | 1100 U | 7000 | 2100 | 3400 |
| PZ-109 | SMPZ-109-GW082510 | Cd-113m | Total | 8600 | NA | 4000 | NA |
| PZ-109 | SMPZ-109-GW082510 | Cf-249 | Filtered | 0.5 U R | 6.1 | 1.8 | 2.9 |
| PZ-109 | SMPZ-109-GW082510 | Cf-249 | Suspended | -0.01 U R | 2.4 | 0.69 | 1.1 |
| PZ-109 | SMPZ-109-GW082510 | Cf-249 | Total | 0.5 R | NA | 1.9 | NA |
| PZ-109 | SMPZ-109-GW082510 | Co-60 | Filtered | -0.03 U | 1.7 | 0.48 | 0.79 |
| PZ-109 | SMPZ-109-GW082510 | Co-60 | Suspended | 0.1 U | 0.65 | 0.19 | 0.3 |
| PZ-109 | SMPZ-109-GW082510 | Co-60 | Total | 0.07 | NA | 0.52 | NA |
| PZ-109 | SMPZ-109-GW082510 | Cs-134 | Filtered | 0.07 U | 2.5 | 0.75 | 1.2 |
| PZ-109 | SMPZ-109-GW082510 | Cs-134 | Suspended | -0.24 U | 0.89 | 0.27 | 0.43 |
| PZ-109 | SMPZ-109-GW082510 | Cs-134 | Total | -0.18 SK | NA | 0.8 | NA |
| PZ-109 | SMPZ-109-GW082510 | Cs-137 | Filtered | 0 U | 1.3 | 0.36 | 0.59 |
| PZ-109 | SMPZ-109-GW082510 | Cs-137 | Suspended | 0.21 U | 0.76 | 0.23 | 0.36 |
| PZ-109 | SMPZ-109-GW082510 | Cs-137 | Total | 0.21 | NA | 0.43 | NA |
| PZ-109 | SMPZ-109-GW082510 | Eu-152 | Filtered | 0.6 U | 3.6 | 1.1 | 1.7 |
| PZ-109 | SMPZ-109-GW082510 | Eu-152 | Suspended | -0.4 U | 1.9 | 0.56 | 0.91 |
| PZ-109 | SMPZ-109-GW082510 | Eu-152 | Total | 0.2 | NA | 1.2 | NA |
| PZ-109 | SMPZ-109-GW082510 | Eu-154 | Filtered | 3.2 U | 12 | 3.4 | 5.3 |
| PZ-109 | SMPZ-109-GW082510 | Eu-154 | Suspended | 0.3 U | 7.5 | 2.2 | 3.6 |
| PZ-109 | SMPZ-109-GW082510 | Eu-154 | Total | 3.5 | NA | 4 | NA |
| PZ-109 | SMPZ-109-GW082510 | Eu-155 | Filtered | -0.04 U | 3.2 | 0.95 | 1.6 |
| PZ-109 | SMPZ-109-GW082510 | Eu-155 | Suspended | 0.3 U | 1.3 | 0.38 | 0.61 |
| PZ-109 | SMPZ-109-GW082510 | Eu-155 | Total | 0.3 SK | NA | 1 | NA |
| PZ-109 | SMPZ-109-GW082510 | gross_alpha | Filtered | 11.7 | 0.42 | 0.76 | 0.22 |
| PZ-109 | SMPZ-109-GW082510 | gross_alpha | Suspended | 0.34 | 0.6 | 0.19 | 0.31 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| PZ-109 | SMPZ-109-GW082510 | gross_alpha | Total | 12 | NA | 0.78 | NA |
| PZ-109 | SMPZ-109-GW082510 | gross_beta | Filtered | 8.5 | 2.3 | 1.1 | 1.3 |
| PZ-109 | SMPZ-109-GW082510 | gross_beta | Suspended | 0.69 | 0.8 | 0.26 | 0.48 |
| PZ-109 | SMPZ-109-GW082510 | gross_beta | Total | 9.1 | NA | 1.1 | NA |
| PZ-109 | SMPZ-109-GW082510 | H-3 | Filtered | 62 U | 130 | 40 | 64 |
| PZ-109 | SMPZ-109-GW082510 | H-3 | Suspended | -16.3 R U | 24 | 5.3 | 11 |
| PZ-109 | SMPZ-109-GW082510 | H-3 | Total | 46 R | NA | 40 | NA |
| PZ-109 | SMPZ-109-GW082510 | Ho-166m | Filtered | -0.25 U | 2.4 | 0.69 | 1.1 |
| PZ-109 | SMPZ-109-GW082510 | Ho-166m | Suspended | 0.04 U | 1.2 | 0.34 | 0.55 |
| PZ-109 | SMPZ-109-GW082510 | Ho-166m | Total | -0.21 SK | NA | 0.77 | NA |
| PZ-109 | SMPZ-109-GW082510 | K-40 | Filtered | -13 U | 23 | 17 | 11 |
| PZ-109 | SMPZ-109-GW082510 | K-40 | Suspended | 0.5 U | 12 | 3.3 | 5.7 |
| PZ-109 | SMPZ-109-GW082510 | K-40 | Total | -12 | NA | 17 | NA |
| PZ-109 | SMPZ-109-GW082510 | Na-22 | Filtered | 0.17 U | 1.5 | 0.43 | 0.68 |
| PZ-109 | SMPZ-109-GW082510 | Na-22 | Suspended | 0.2 U | 0.8 | 0.23 | 0.37 |
| PZ-109 | SMPZ-109-GW082510 | Na-22 | Total | 0.37 | NA | 0.49 | NA |
| PZ-109 | SMPZ-109-GW082510 | Nb-94 | Filtered | 0.13 U | 1.2 | 0.36 | 0.58 |
| PZ-109 | SMPZ-109-GW082510 | Nb-94 | Suspended | -0.03 U | 0.59 | 0.17 | 0.28 |
| PZ-109 | SMPZ-109-GW082510 | Nb-94 | Total | 0.1 | NA | 0.4 | NA |
| PZ-109 | SMPZ-109-GW082510 | Np-236 | Filtered | -0.52 U | 2.7 | 0.8 | 1.3 |
| PZ-109 | SMPZ-109-GW082510 | Np-236 | Suspended | 0.12 U | 1.3 | 0.37 | 0.61 |
| PZ-109 | SMPZ-109-GW082510 | Np-236 | Total | -0.4 SK | NA | 0.88 | NA |
| PZ-109 | SMPZ-109-GW082510 | Np-239 | Filtered | -0.6 U | 8.1 | 2.4 | 3.9 |
| PZ-109 | SMPZ-109-GW082510 | Np-239 | Suspended | 0.9 U | 3.6 | 1.1 | 1.8 |
| PZ-109 | SMPZ-109-GW082510 | Np-239 | Total | 0.4 | NA | 2.6 | NA |
| PZ-109 | SMPZ-109-GW082510 | Pa-231 | Filtered | 0.9 U | 54 | 16 | 26 |
| PZ-109 | SMPZ-109-GW082510 | Pa-231 | Suspended | 2.4 U | 27 | 7.9 | 13 |
| PZ-109 | SMPZ-109-GW082510 | Pa-231 | Total | 3 | NA | 17 | NA |
| PZ-109 | SMPZ-109-GW082510 | Pb-212 | Filtered | 1.67 | 2.3 | 0.84 | 1.1 |
| PZ-109 | SMPZ-109-GW082510 | Pb-212 | Suspended | 0.98 | 1.3 | 0.48 | 0.64 |
| PZ-109 | SMPZ-109-GW082510 | Pb-212 | Total | 2.65 | NA | 0.97 | NA |
| PZ-109 | SMPZ-109-GW082510 | Pb-214 | Filtered | 2.49 | 2.3 | 0.75 | 1.1 |
| PZ-109 | SMPZ-109-GW082510 | Pb-214 | Suspended | -0.13 U | 1.5 | 0.51 | 0.71 |
| PZ-109 | SMPZ-109-GW082510 | Pb-214 | Total | 2.37 | NA | 0.91 | NA |
| PZ-109 | SMPZ-109-GW082510 | Sb-125 | Filtered | -0.2 U | 13 | 3.8 | 6.3 |
| PZ-109 | SMPZ-109-GW082510 | Sb-125 | Suspended | 2.5 U | 6.1 | 1.8 | 3 |
| PZ-109 | SMPZ-109-GW082510 | Sb-125 | Total | 2.3 SK | NA | 4.2 | NA |
| PZ-109 | SMPZ-109-GW082510 | Sn-126 | Filtered | 0.47 U | 1.3 | 0.39 | 0.6 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-109 | SMPZ-109-GW082510 | Sn-126 | Suspended | 0.11 U | 0.81 | 0.24 | 0.39 |
| PZ-109 | SMPZ-109-GW082510 | Sn-126 | Total | 0.58 | NA | 0.46 | NA |
| PZ-109 | SMPZ-109-GW082510 | Sr-90 | Filtered | 0.023 U | 0.093 | 0.028 | 0.053 |
| PZ-109 | SMPZ-109-GW082510 | Sr-90 | Suspended | 0.005 U | 0.11 | 0.033 | 0.064 |
| PZ-109 | SMPZ-109-GW082510 | Sr-90 | Total | 0.029 | NA | 0.043 | NA |
| PZ-109 | SMPZ-109-GW082510 | Te-125m | Filtered | -0.05 U | 3 | 0.88 | 1.4 |
| PZ-109 | SMPZ-109-GW082510 | Te-125m | Suspended | 0.58 U | 1.4 | 0.43 | 0.68 |
| PZ-109 | SMPZ-109-GW082510 | Te-125m | Total | 0.53 SK | NA | 0.98 | NA |
| PZ-109 | SMPZ-109-GW082510 | Th-231 | Filtered | 0.247 | 0.014 | 0.037 | 0.008 |
| PZ-109 | SMPZ-109-GW082510 | Th-231 | Suspended | 0.0077 | 0.0069 | 0.0044 | 0.0059 |
| PZ-109 | SMPZ-109-GW082510 | Th-231 | Total | 0.254 | NA | 0.037 | NA |
| PZ-109 | SMPZ-109-GW082510 | Th-234 | Filtered | 15.2 | 23 | 7.6 | 11 |
| PZ-109 | SMPZ-109-GW082510 | Th-234 | Suspended | 2.3 U | 8.9 | 3 | 4.4 |
| PZ-109 | SMPZ-109-GW082510 | Th-234 | Total | 17.6 | NA | 8.2 | NA |
| PZ-109 | SMPZ-109-GW082510 | Tl-208 | Filtered | 0.84 | 1.4 | 0.53 | 0.67 |
| PZ-109 | SMPZ-109-GW082510 | Tl-208 | Suspended | 0.38 U | 0.85 | 0.31 | 0.41 |
| PZ-109 | SMPZ-109-GW082510 | Tl-208 | Total | 1.22 | NA | 0.61 | NA |
| PZ-109 | SMPZ-109-GW082510 | Tm-171 | Filtered | -150 U | 350 | 110 | 170 |
| PZ-109 | SMPZ-109-GW082510 | Tm-171 | Suspended | -18 U | 130 | 40 | 65 |
| PZ-109 | SMPZ-109-GW082510 | Tm-171 | Total | -170 | NA | 110 | NA |
| PZ-109 | SMPZ-109-GW082510 | U-233/234 | Filtered | 5.4 K | 0.03 | 0.27 | 0.009 |
| PZ-109 | SMPZ-109-GW082510 | U-233/234 | Suspended | 0.0209 | 0.014 | 0.0071 | 0.0043 |
| PZ-109 | SMPZ-109-GW082510 | U-233/234 | Total | 5.42 | NA | 0.27 | NA |
| PZ-109 | SMPZ-109-GW082510 | U-235/236 | Filtered | 0.247 | 0.014 | 0.037 | 0.008 |
| PZ-109 | SMPZ-109-GW082510 | U-235/236 | Suspended | 0.0077 | 0.0069 | 0.0044 | 0.0059 |
| PZ-109 | SMPZ-109-GW082510 | U-235/236 | Total | 0.254 | NA | 0.037 | NA |
| PZ-109 | SMPZ-109-GW082510 | U-238 | Filtered | 4.99 | 0.01 | 0.25 | 0.007 |
| PZ-109 | SMPZ-109-GW082510 | U-238 | Suspended | 0.0205 | 0.0055 | 0.0065 | 0.0048 |
| PZ-109 | SMPZ-109-GW082510 | U-238 | Total | 5.01 | NA | 0.25 | NA |
| PZ-112 | SMPZ-112-GW083110 | Ac-227 | Filtered | 4 | 6.4 | 2 | 3.1 |
| PZ-112 | SMPZ-112-GW083110 | Ac-227 | Suspended | -4.2 U | 8.3 | 2.5 | 4 |
| PZ-112 | SMPZ-112-GW083110 | Ac-227 | Total | -0.2 | NA | 3.2 | NA |
| PZ-112 | SMPZ-112-GW083110 | Ac-228 | Filtered | 3.3 | 3.9 | 1.2 | 1.8 |
| PZ-112 | SMPZ-112-GW083110 | Ac-228 | Suspended | 2.2 | 4.1 | 1.2 | 1.9 |
| PZ-112 | SMPZ-112-GW083110 | Ac-228 | Total | 5.5 | NA | 1.8 | NA |
| PZ-112 | SMPZ-112-GW083110 | Ag-108 | Filtered | -0.017 U R | 0.1 | 0.031 | 0.05 |
| PZ-112 | SMPZ-112-GW083110 | Ag-108 | Suspended | -0.018 U R | 0.097 | 0.029 | 0.046 |
| PZ-112 | SMPZ-112-GW083110 | Ag-108 | Total | -0.035 R | NA | 0.042 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-112 | SMPZ-112-GW083110 | Ag-108m | Filtered | -0.19 U R | 1.1 | 0.33 | 0.54 |
| PZ-112 | SMPZ-112-GW083110 | Ag-108m | Suspended | -0.19 U R | 1 | 0.31 | 0.5 |
| PZ-112 | SMPZ-112-GW083110 | Ag-108m | Total | -0.38 R | NA | 0.45 | NA |
| PZ-112 | SMPZ-112-GW083110 | Ba-133 | Filtered | -4 U R | 12 | 3.5 | 5.7 |
| PZ-112 | SMPZ-112-GW083110 | Ba-133 | Suspended | -1.4 U R | 11 | 3.3 | 5.5 |
| PZ-112 | SMPZ-112-GW083110 | Ba-133 | Total | -5.4 R | NA | 4.9 | NA |
| PZ-112 | SMPZ-112-GW083110 | Ba-137m | Filtered | -0.24 U | 1.1 | 0.33 | 0.54 |
| PZ-112 | SMPZ-112-GW083110 | Ba-137m | Suspended | -0.14 U | 1.3 | 0.38 | 0.62 |
| PZ-112 | SMPZ-112-GW083110 | Ba-137m | Total | -0.38 | NA | 0.5 | NA |
| PZ-112 | SMPZ-112-GW083110 | Bi-212 | Filtered | -0.4 U | 11 | 3.6 | 5.4 |
| PZ-112 | SMPZ-112-GW083110 | Bi-212 | Suspended | 8 | 9.4 | 3 | 4.4 |
| PZ-112 | SMPZ-112-GW083110 | Bi-212 | Total | 7.6 | NA | 4.7 | NA |
| PZ-112 | SMPZ-112-GW083110 | Bi-214 | Filtered | 0.99 U | 2.9 | 0.98 | 1.4 |
| PZ-112 | SMPZ-112-GW083110 | Bi-214 | Suspended | 2.3 | 3 | 1.2 | 1.4 |
| PZ-112 | SMPZ-112-GW083110 | Bi-214 | Total | 3.3 | NA | 1.5 | NA |
| PZ-112 | SMPZ-112-GW083110 | Cd-113m | Filtered | 3200 U | 14000 | 4000 | 6500 |
| PZ-112 | SMPZ-112-GW083110 | Cd-113m | Suspended | 3300 U | 13000 | 3800 | 6100 |
| PZ-112 | SMPZ-112-GW083110 | Cd-113m | Total | 6400 | NA | 5500 | NA |
| PZ-112 | SMPZ-112-GW083110 | Cf-249 | Filtered | 1.5 U R | 5.9 | 1.8 | 2.9 |
| PZ-112 | SMPZ-112-GW083110 | Cf-249 | Suspended | 0.9 U R | 5.3 | 1.6 | 2.5 |
| PZ-112 | SMPZ-112-GW083110 | Cf-249 | Total | 2.5 R | NA | 2.4 | NA |
| PZ-112 | SMPZ-112-GW083110 | Co-60 | Filtered | -0.009 U | 1.3 | 0.36 | 0.59 |
| PZ-112 | SMPZ-112-GW083110 | Co-60 | Suspended | -0.03 U | 1.5 | 0.42 | 0.69 |
| PZ-112 | SMPZ-112-GW083110 | Co-60 | Total | -0.04 | NA | 0.55 | NA |
| PZ-112 | SMPZ-112-GW083110 | Cs-134 | Filtered | 0.28 U | 1.3 | 0.4 | 0.65 |
| PZ-112 | SMPZ-112-GW083110 | Cs-134 | Suspended | -0.01 U | 1.6 | 0.45 | 0.75 |
| PZ-112 | SMPZ-112-GW083110 | Cs-134 | Total | 0.27 SK | NA | 0.6 | NA |
| PZ-112 | SMPZ-112-GW083110 | Cs-137 | Filtered | -0.26 U | 1.2 | 0.35 | 0.57 |
| PZ-112 | SMPZ-112-GW083110 | Cs-137 | Suspended | -0.14 U | 1.4 | 0.4 | 0.65 |
| PZ-112 | SMPZ-112-GW083110 | Cs-137 | Total | -0.4 | NA | 0.53 | NA |
| PZ-112 | SMPZ-112-GW083110 | Eu-152 | Filtered | -0.29 U | 3.2 | 0.94 | 1.5 |
| PZ-112 | SMPZ-112-GW083110 | Eu-152 | Suspended | 0.02 U | 2.3 | 0.66 | 1.1 |
| PZ-112 | SMPZ-112-GW083110 | Eu-152 | Total | -0.3 | NA | 1.1 | NA |
| PZ-112 | SMPZ-112-GW083110 | Eu-154 | Filtered | -1.3 U | 9.8 | 2.9 | 4.6 |
| PZ-112 | SMPZ-112-GW083110 | Eu-154 | Suspended | 1.8 U | 11 | 3.1 | 5 |
| PZ-112 | SMPZ-112-GW083110 | Eu-154 | Total | 0.5 | NA | 4.2 | NA |
| PZ-112 | SMPZ-112-GW083110 | Eu-155 | Filtered | 1.1 U | 3.4 | 1 | 1.7 |
| PZ-112 | SMPZ-112-GW083110 | Eu-155 | Suspended | 0.53 U | 2.3 | 0.69 | 1.1 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| PZ-112 | SMPZ-112-GW083110 | Eu-155 | Total | 1.7 SK | NA | 1.2 | NA |
| PZ-112 | SMPZ-112-GW083110 | gross_alpha | Filtered | 1.55 | 0.39 | 0.24 | 0.2 |
| PZ-112 | SMPZ-112-GW083110 | gross_alpha | Suspended | 1.43 | 0.5 | 0.26 | 0.26 |
| PZ-112 | SMPZ-112-GW083110 | gross_alpha | Total | 2.98 | NA | 0.36 | NA |
| PZ-112 | SMPZ-112-GW083110 | gross_beta | Filtered | 3.36 | 2.3 | 0.82 | 1.4 |
| PZ-112 | SMPZ-112-GW083110 | gross_beta | Suspended | 3.06 | 0.78 | 0.37 | 0.45 |
| PZ-112 | SMPZ-112-GW083110 | gross_beta | Total | 6.43 | NA | 0.9 | NA |
| PZ-112 | SMPZ-112-GW083110 | H-3 | Filtered | 57 U B | 130 | 39 | 63 |
| PZ-112 | SMPZ-112-GW083110 | H-3 | Suspended | -12.2 L U | 19 | 4.4 | 8.7 |
| PZ-112 | SMPZ-112-GW083110 | H-3 | Total | 45 RB | NA | 39 | NA |
| PZ-112 | SMPZ-112-GW083110 | Ho-166m | Filtered | 0.06 U | 2 | 0.57 | 0.94 |
| PZ-112 | SMPZ-112-GW083110 | Ho-166m | Suspended | 0.33 U | 1.9 | 0.56 | 0.9 |
| PZ-112 | SMPZ-112-GW083110 | Ho-166m | Total | 0.39 SK | NA | 0.8 | NA |
| PZ-112 | SMPZ-112-GW083110 | K-40 | Filtered | 0.4 U | 25 | 6.2 | 12 |
| PZ-112 | SMPZ-112-GW083110 | K-40 | Suspended | -4.1 U | 19 | 5.9 | 9 |
| PZ-112 | SMPZ-112-GW083110 | K-40 | Total | -3.7 | NA | 8.5 | NA |
| PZ-112 | SMPZ-112-GW083110 | Na-22 | Filtered | 0.007 U | 1.5 | 0.41 | 0.68 |
| PZ-112 | SMPZ-112-GW083110 | Na-22 | Suspended | 0.24 U | 1.5 | 0.44 | 0.71 |
| PZ-112 | SMPZ-112-GW083110 | Na-22 | Total | 0.24 | NA | 0.6 | NA |
| PZ-112 | SMPZ-112-GW083110 | Nb-94 | Filtered | 0.53 U | 1.2 | 0.35 | 0.56 |
| PZ-112 | SMPZ-112-GW083110 | Nb-94 | Suspended | -0.32 U | 1.3 | 0.39 | 0.62 |
| PZ-112 | SMPZ-112-GW083110 | Nb-94 | Total | 0.21 | NA | 0.52 | NA |
| PZ-112 | SMPZ-112-GW083110 | Np-236 | Filtered | 0 U | 3.2 | 0.96 | 1.6 |
| PZ-112 | SMPZ-112-GW083110 | Np-236 | Suspended | -0.24 U | 2.2 | 0.65 | 1.1 |
| PZ-112 | SMPZ-112-GW083110 | Np-236 | Total | -0.2 SK | NA | 1.2 | NA |
| PZ-112 | SMPZ-112-GW083110 | Np-239 | Filtered | -0.3 U | 7.6 | 2.2 | 3.7 |
| PZ-112 | SMPZ-112-GW083110 | Np-239 | Suspended | -1.3 U | 7.1 | 2.1 | 3.4 |
| PZ-112 | SMPZ-112-GW083110 | Np-239 | Total | -1.6 | NA | 3.1 | NA |
| PZ-112 | SMPZ-112-GW083110 | Pa-231 | Filtered | 16 U | 53 | 16 | 26 |
| PZ-112 | SMPZ-112-GW083110 | Pa-231 | Suspended | 18 U | 46 | 14 | 22 |
| PZ-112 | SMPZ-112-GW083110 | Pa-231 | Total | 34 | NA | 21 | NA |
| PZ-112 | SMPZ-112-GW083110 | Pb-212 | Filtered | 1.4 | 2.9 | 0.93 | 1.4 |
| PZ-112 | SMPZ-112-GW083110 | Pb-212 | Suspended | 2.18 | 2.5 | 0.99 | 1.2 |
| PZ-112 | SMPZ-112-GW083110 | Pb-212 | Total | 3.6 | NA | 1.4 | NA |
| PZ-112 | SMPZ-112-GW083110 | Pb-214 | Filtered | -0.26 U | 3 | 0.9 | 1.5 |
| PZ-112 | SMPZ-112-GW083110 | Pb-214 | Suspended | 0.03 U | 2.5 | 0.8 | 1.2 |
| PZ-112 | SMPZ-112-GW083110 | Pb-214 | Total | -0.2 | NA | 1.2 | NA |
| PZ-112 | SMPZ-112-GW083110 | Sb-125 | Filtered | 1.8 U | 13 | 3.8 | 6.1 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-112 | SMPZ-112-GW083110 | Sb-125 | Suspended | -0.1 U | 11 | 3.2 | 5.3 |
| PZ-112 | SMPZ-112-GW083110 | Sb-125 | Total | 1.7 SK | NA | 5 | NA |
| PZ-112 | SMPZ-112-GW083110 | Sn-126 | Filtered | 0.3 U | 1.3 | 0.4 | 0.64 |
| PZ-112 | SMPZ-112-GW083110 | Sn-126 | Suspended | 0.11 U | 1.6 | 0.46 | 0.75 |
| PZ-112 | SMPZ-112-GW083110 | Sn-126 | Total | 0.41 | NA | 0.61 | NA |
| PZ-112 | SMPZ-112-GW083110 | Sr-90 | Filtered | -0.073 U | 0.15 | 0.038 | 0.089 |
| PZ-112 | SMPZ-112-GW083110 | Sr-90 | Suspended | -0.013 U | 0.11 | 0.031 | 0.061 |
| PZ-112 | SMPZ-112-GW083110 | Sr-90 | Total | -0.086 | NA | 0.049 | NA |
| PZ-112 | SMPZ-112-GW083110 | Te-125m | Filtered | 0.42 U | 2.9 | 0.87 | 1.4 |
| PZ-112 | SMPZ-112-GW083110 | Te-125m | Suspended | -0.03 U | 2.5 | 0.75 | 1.2 |
| PZ-112 | SMPZ-112-GW083110 | Te-125m | Total | 0.4 SK | NA | 1.1 | NA |
| PZ-112 | SMPZ-112-GW083110 | Th-231 | Filtered | 0.0214 | 0.0083 | 0.0081 | 0.0071 |
| PZ-112 | SMPZ-112-GW083110 | Th-231 | Suspended | 0.0029 U | 0.043 | 0.0094 | 0.017 |
| PZ-112 | SMPZ-112-GW083110 | Th-231 | Total | 0.024 | NA | 0.012 | NA |
| PZ-112 | SMPZ-112-GW083110 | Th-234 | Filtered | 8.5 U | 23 | 7.5 | 11 |
| PZ-112 | SMPZ-112-GW083110 | Th-234 | Suspended | 4.7 U | 14 | 4.6 | 6.7 |
| PZ-112 | SMPZ-112-GW083110 | Th-234 | Total | 13.2 | NA | 8.8 | NA |
| PZ-112 | SMPZ-112-GW083110 | Tl-208 | Filtered | 1.11 | 1.7 | 0.64 | 0.82 |
| PZ-112 | SMPZ-112-GW083110 | Tl-208 | Suspended | 1.37 | 1.5 | 0.61 | 0.73 |
| PZ-112 | SMPZ-112-GW083110 | Tl-208 | Total | 2.48 | NA | 0.88 | NA |
| PZ-112 | SMPZ-112-GW083110 | Tm-171 | Filtered | 180 U | 420 | 130 | 200 |
| PZ-112 | SMPZ-112-GW083110 | Tm-171 | Suspended | 15 U | 230 | 69 | 110 |
| PZ-112 | SMPZ-112-GW083110 | Tm-171 | Total | 190 | NA | 140 | NA |
| PZ-112 | SMPZ-112-GW083110 | U-233/234 | Filtered | 0.528 | 0.007 | 0.043 | 0.006 |
| PZ-112 | SMPZ-112-GW083110 | U-233/234 | Suspended | 0.024 | 0.048 | 0.017 | 0.021 |
| PZ-112 | SMPZ-112-GW083110 | U-233/234 | Total | 0.552 | NA | 0.046 | NA |
| PZ-112 | SMPZ-112-GW083110 | U-235/236 | Filtered | 0.0214 | 0.0083 | 0.0081 | 0.0071 |
| PZ-112 | SMPZ-112-GW083110 | U-235/236 | Suspended | 0.0029 U | 0.043 | 0.0094 | 0.017 |
| PZ-112 | SMPZ-112-GW083110 | U-235/236 | Total | 0.024 | NA | 0.012 | NA |
| PZ-112 | SMPZ-112-GW083110 | U-238 | Filtered | 0.444 | 0.018 | 0.038 | 0.006 |
| PZ-112 | SMPZ-112-GW083110 | U-238 | Suspended | 0.021 | 0.037 | 0.014 | 0.015 |
| PZ-112 | SMPZ-112-GW083110 | U-238 | Total | 0.466 | NA | 0.041 | NA |
| PZ-114 | SMPZ-114-GW082410 | H-3 | Filtered | 14 U | 140 | 41 | 67 |
| PZ-114 | SMPZ-114-GW082410 | H-3 | Suspended | 19.5 | 20 | 6.9 | 8.5 |
| PZ-114 | SMPZ-114-GW082410 | H-3 | Total | 33 | NA | 41 | NA |
| PZ-120 | SMPZ-120-GW082710 | Ac-227 | Filtered | -0.2 U | 7 | 2 | 3.4 |
| PZ-120 | SMPZ-120-GW082710 | Ac-227 | Suspended | -0.06 U | 4.5 | 1.3 | 2.2 |
| PZ-120 | SMPZ-120-GW082710 | Ac-227 | Total | -0.3 | NA | 2.4 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| PZ-120 | SMPZ-120-GW082710 | Ac-228 | Filtered | 1.6 U | 4.4 | 1.3 | 2 |
| PZ-120 | SMPZ-120-GW082710 | Ac-228 | Suspended | 1.81 | 2.5 | 0.77 | 1.2 |
| PZ-120 | SMPZ-120-GW082710 | Ac-228 | Total | 3.4 | NA | 1.5 | NA |
| PZ-120 | SMPZ-120-GW082710 | Ag-108 | Filtered | 0.034 U R | 0.1 | 0.031 | 0.05 |
| PZ-120 | SMPZ-120-GW082710 | Ag-108 | Suspended | 0.004 U R | 0.055 | 0.016 | 0.027 |
| PZ-120 | SMPZ-120-GW082710 | Ag-108 | Total | 0.038 R | NA | 0.035 | NA |
| PZ-120 | SMPZ-120-GW082710 | Ag-108m | Filtered | 0.36 U R | 1.1 | 0.34 | 0.53 |
| PZ-120 | SMPZ-120-GW082710 | Ag-108m | Suspended | 0.04 U R | 0.6 | 0.17 | 0.29 |
| PZ-120 | SMPZ-120-GW082710 | Ag-108m | Total | 0.4 R | NA | 0.38 | NA |
| PZ-120 | SMPZ-120-GW082710 | Ba-133 | Filtered | -1.8 U R | 11 | 3.4 | 5.4 |
| PZ-120 | SMPZ-120-GW082710 | Ba-133 | Suspended | 0.5 U R | 6.2 | 1.8 | 3 |
| PZ-120 | SMPZ-120-GW082710 | Ba-133 | Total | -1.3 R | NA | 3.8 | NA |
| PZ-120 | SMPZ-120-GW082710 | Ba-137m | Filtered | 0.4 U | 1.5 | 0.43 | 0.68 |
| PZ-120 | SMPZ-120-GW082710 | Ba-137m | Suspended | 0.12 U | 0.74 | 0.22 | 0.35 |
| PZ-120 | SMPZ-120-GW082710 | Ba-137m | Total | 0.53 | NA | 0.48 | NA |
| PZ-120 | SMPZ-120-GW082710 | Bi-212 | Filtered | -0.2 U | 12 | 3.5 | 5.8 |
| PZ-120 | SMPZ-120-GW082710 | Bi-212 | Suspended | 0.7 U | 6.3 | 1.8 | 3 |
| PZ-120 | SMPZ-120-GW082710 | Bi-212 | Total | 0.5 | NA | 4 | NA |
| PZ-120 | SMPZ-120-GW082710 | Bi-214 | Filtered | -1 U | 3 | 120 | 2 |
| PZ-120 | SMPZ-120-GW082710 | Bi-214 | Suspended | 0.47 U | 1.7 | 0.6 | 0.83 |
| PZ-120 | SMPZ-120-GW082710 | Bi-214 | Total | -1 | NA | 120 | NA |
| PZ-120 | SMPZ-120-GW082710 | Cd-113m | Filtered | 3900 U | 14000 | 4200 | 6700 |
| PZ-120 | SMPZ-120-GW082710 | Cd-113m | Suspended | 1100 U | 7200 | 2100 | 3500 |
| PZ-120 | SMPZ-120-GW082710 | Cd-113m | Total | 5000 | NA | 4700 | NA |
| PZ-120 | SMPZ-120-GW082710 | Cf-249 | Filtered | -1.6 U R | 6.6 | 2 | 3.2 |
| PZ-120 | SMPZ-120-GW082710 | Cf-249 | Suspended | 0.59 U R | 3.2 | 0.94 | 1.5 |
| PZ-120 | SMPZ-120-GW082710 | Cf-249 | Total | -1 R | NA | 2.2 | NA |
| PZ-120 | SMPZ-120-GW082710 | Co-60 | Filtered | 0 U | 1.5 | 0.42 | 0.69 |
| PZ-120 | SMPZ-120-GW082710 | Co-60 | Suspended | 0.15 U | 0.8 | 0.23 | 0.37 |
| PZ-120 | SMPZ-120-GW082710 | Co-60 | Total | 0.15 | NA | 0.48 | NA |
| PZ-120 | SMPZ-120-GW082710 | Cs-134 | Filtered | -0.56 U | 1.8 | 0.53 | 0.85 |
| PZ-120 | SMPZ-120-GW082710 | Cs-134 | Suspended | -0.05 U | 0.75 | 0.22 | 0.36 |
| PZ-120 | SMPZ-120-GW082710 | Cs-134 | Total | -0.61 | NA | 0.58 | NA |
| PZ-120 | SMPZ-120-GW082710 | Cs-137 | Filtered | 0.43 U | 1.5 | 0.45 | 0.72 |
| PZ-120 | SMPZ-120-GW082710 | Cs-137 | Suspended | 0.13 U | 0.78 | 0.23 | 0.37 |
| PZ-120 | SMPZ-120-GW082710 | Cs-137 | Total | 0.56 | NA | 0.51 | NA |
| PZ-120 | SMPZ-120-GW082710 | Eu-152 | Filtered | 0.1 U | 3.9 | 1.1 | 1.8 |
| PZ-120 | SMPZ-120-GW082710 | Eu-152 | Suspended | -0.001 U | 1.8 | 0.54 | 0.89 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-120 | SMPZ-120-GW082710 | Eu-152 | Total | 0.1 | NA | 1.2 | NA |
| PZ-120 | SMPZ-120-GW082710 | Eu-154 | Filtered | 2.2 U | 11 | 3.2 | 5.1 |
| PZ-120 | SMPZ-120-GW082710 | Eu-154 | Suspended | 2 U | 6.1 | 1.8 | 2.9 |
| PZ-120 | SMPZ-120-GW082710 | Eu-154 | Total | 4.3 | NA | 3.7 | NA |
| PZ-120 | SMPZ-120-GW082710 | Eu-155 | Filtered | 0.25 U | 3.1 | 0.93 | 1.5 |
| PZ-120 | SMPZ-120-GW082710 | Eu-155 | Suspended | 0.3 U | 1.3 | 0.4 | 0.65 |
| PZ-120 | SMPZ-120-GW082710 | Eu-155 | Total | 0.5 | NA | 1 | NA |
| PZ-120 | SMPZ-120-GW082710 | gross_alpha | Filtered | 7.5 | 0.42 | 0.57 | 0.22 |
| PZ-120 | SMPZ-120-GW082710 | gross_alpha | Suspended | 0.34 | 0.42 | 0.14 | 0.22 |
| PZ-120 | SMPZ-120-GW082710 | gross_alpha | Total | 7.83 | NA | 0.59 | NA |
| PZ-120 | SMPZ-120-GW082710 | gross_beta | Filtered | 4.4 | 1.8 | 0.75 | 1 |
| PZ-120 | SMPZ-120-GW082710 | gross_beta | Suspended | 0.71 | 0.73 | 0.24 | 0.43 |
| PZ-120 | SMPZ-120-GW082710 | gross_beta | Total | 5.11 | NA | 0.79 | NA |
| PZ-120 | SMPZ-120-GW082710 | H-3 | Filtered | 20 U | 130 | 40 | 65 |
| PZ-120 | SMPZ-120-GW082710 | H-3 | Suspended | -4.7 U R | 22 | 5.5 | 9.8 |
| PZ-120 | SMPZ-120-GW082710 | H-3 | Total | 15 R | NA | 40 | NA |
| PZ-120 | SMPZ-120-GW082710 | H-3_Total | Filtered | 20 | 34 | 11 | 16 |
| PZ-120 | SMPZ-120-GW082710 | H-3_Total | Suspended | -4.7 U R | 19 | 4.4 | 8.3 |
| PZ-120 | SMPZ-120-GW082710 | H-3_Total | Total | 15 R | NA | 11 | NA |
| PZ-120 | SMPZ-120-GW082710 | Ho-166m | Filtered | -0.46 U | 2.1 | 0.62 | 0.99 |
| PZ-120 | SMPZ-120-GW082710 | Ho-166m | Suspended | 0.42 U | 1 | 0.31 | 0.49 |
| PZ-120 | SMPZ-120-GW082710 | Ho-166m | Total | -0.04 | NA | 0.7 | NA |
| PZ-120 | SMPZ-120-GW082710 | K-40 | Filtered | -9 U | 23 | 14 | 11 |
| PZ-120 | SMPZ-120-GW082710 | K-40 | Suspended | 5.6 | 9.5 | 2.8 | 4.5 |
| PZ-120 | SMPZ-120-GW082710 | K-40 | Total | -4 | NA | 14 | NA |
| PZ-120 | SMPZ-120-GW082710 | Na-22 | Filtered | -0.11 U | 1.8 | 0.52 | 0.85 |
| PZ-120 | SMPZ-120-GW082710 | Na-22 | Suspended | 0 U | 0.84 | 0.24 | 0.39 |
| PZ-120 | SMPZ-120-GW082710 | Na-22 | Total | -0.11 | NA | 0.57 | NA |
| PZ-120 | SMPZ-120-GW082710 | Nb-94 | Filtered | 0.13 U | 1.2 | 0.34 | 0.55 |
| PZ-120 | SMPZ-120-GW082710 | Nb-94 | Suspended | 0.05 U | 0.51 | 0.15 | 0.24 |
| PZ-120 | SMPZ-120-GW082710 | Nb-94 | Total | 0.19 | NA | 0.37 | NA |
| PZ-120 | SMPZ-120-GW082710 | Np-236 | Filtered | 0.88 U | 2.6 | 0.78 | 1.3 |
| PZ-120 | SMPZ-120-GW082710 | Np-236 | Suspended | 0.38 U | 1.2 | 0.37 | 0.59 |
| PZ-120 | SMPZ-120-GW082710 | Np-236 | Total | 1.26 | NA | 0.87 | NA |
| PZ-120 | SMPZ-120-GW082710 | Np-239 | Filtered | 0.3 U | 6.9 | 2 | 3.3 |
| PZ-120 | SMPZ-120-GW082710 | Np-239 | Suspended | -0.06 U | 3.8 | 1.1 | 1.8 |
| PZ-120 | SMPZ-120-GW082710 | Np-239 | Total | 0.2 | NA | 2.3 | NA |
| PZ-120 | SMPZ-120-GW082710 | Pa-231 | Filtered | 4 U | 50 | 15 | 24 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-120 | SMPZ-120-GW082710 | Pa-231 | Suspended | -1 U | 29 | 8.4 | 14 |
| PZ-120 | SMPZ-120-GW082710 | Pa-231 | Total | 3 | NA | 17 | NA |
| PZ-120 | SMPZ-120-GW082710 | Pb-212 | Filtered | 1.17 U | 2.6 | 0.999 | 1.2 |
| PZ-120 | SMPZ-120-GW082710 | Pb-212 | Suspended | 0.79 | 1.3 | 0.43 | 0.62 |
| PZ-120 | SMPZ-120-GW082710 | Pb-212 | Total | 2 | NA | 1.1 | NA |
| PZ-120 | SMPZ-120-GW082710 | Pb-214 | Filtered | -0.9 U | 3.2 | 2 | 1.5 |
| PZ-120 | SMPZ-120-GW082710 | Pb-214 | Suspended | 0.06 U | 1.4 | 0.45 | 0.69 |
| PZ-120 | SMPZ-120-GW082710 | Pb-214 | Total | -0.8 | NA | 2 | NA |
| PZ-120 | SMPZ-120-GW082710 | Sb-125 | Filtered | 5 U | 12 | 3.5 | 5.6 |
| PZ-120 | SMPZ-120-GW082710 | Sb-125 | Suspended | 0.0003 U | 5.7 | 1.7 | 2.7 |
| PZ-120 | SMPZ-120-GW082710 | Sb-125 | Total | 5 | NA | 3.9 | NA |
| PZ-120 | SMPZ-120-GW082710 | Sn-126 | Filtered | 0.54 U | 1.5 | 0.44 | 0.69 |
| PZ-120 | SMPZ-120-GW082710 | Sn-126 | Suspended | 0.29 U | 0.82 | 0.25 | 0.39 |
| PZ-120 | SMPZ-120-GW082710 | Sn-126 | Total | 0.83 | NA | 0.51 | NA |
| PZ-120 | SMPZ-120-GW082710 | Sr-90 | Filtered | 0.031 U | 0.19 | 0.055 | 0.11 |
| PZ-120 | SMPZ-120-GW082710 | Sr-90 | Suspended | -0.015 U | 0.15 | 0.041 | 0.089 |
| PZ-120 | SMPZ-120-GW082710 | Sr-90 | Total | 0.017 | NA | 0.069 | NA |
| PZ-120 | SMPZ-120-GW082710 | Te-125m | Filtered | 1.15 U | 2.7 | 0.81 | 1.3 |
| PZ-120 | SMPZ-120-GW082710 | Te-125m | Suspended | 0.0001 U | 1.3 | 0.38 | 0.63 |
| PZ-120 | SMPZ-120-GW082710 | Te-125m | Total | 1.15 | NA | 0.9 | NA |
| PZ-120 | SMPZ-120-GW082710 | Th-231 | Filtered | 0.219 | 0.021 | 0.027 | 0.007 |
| PZ-120 | SMPZ-120-GW082710 | Th-231 | Suspended | 0.0026 U | 0.039 | 0.0084 | 0.015 |
| PZ-120 | SMPZ-120-GW082710 | Th-231 | Total | 0.222 | NA | 0.028 | NA |
| PZ-120 | SMPZ-120-GW082710 | Th-234 | Filtered | 11.2 | 22 | 6.7 | 11 |
| PZ-120 | SMPZ-120-GW082710 | Th-234 | Suspended | 2.6 U | 7.5 | 2.4 | 3.7 |
| PZ-120 | SMPZ-120-GW082710 | Th-234 | Total | 13.8 | NA | 7.2 | NA |
| PZ-120 | SMPZ-120-GW082710 | Tl-208 | Filtered | 0.07 U | 1.7 | 0.46 | 0.83 |
| PZ-120 | SMPZ-120-GW082710 | Tl-208 | Suspended | 0.16 U | 0.95 | 0.26 | 0.46 |
| PZ-120 | SMPZ-120-GW082710 | Tl-208 | Total | 0.23 | NA | 0.53 | NA |
| PZ-120 | SMPZ-120-GW082710 | Tm-171 | Filtered | 60 U | 360 | 110 | 180 |
| PZ-120 | SMPZ-120-GW082710 | Tm-171 | Suspended | 27 U | 140 | 41 | 67 |
| PZ-120 | SMPZ-120-GW082710 | Tm-171 | Total | 90 | NA | 110 | NA |
| PZ-120 | SMPZ-120-GW082710 | U-233/234 | Filtered | 4.82 | 0.03 | 0.23 | 0.01 |
| PZ-120 | SMPZ-120-GW082710 | U-233/234 | Suspended | 0.017 U | 0.043 | 0.014 | 0.019 |
| PZ-120 | SMPZ-120-GW082710 | U-233/234 | Total | 4.84 | NA | 0.23 | NA |
| PZ-120 | SMPZ-120-GW082710 | U-235/236 | Filtered | 0.219 | 0.021 | 0.027 | 0.007 |
| PZ-120 | SMPZ-120-GW082710 | U-235/236 | Suspended | 0.0026 U | 0.039 | 0.0084 | 0.015 |
| PZ-120 | SMPZ-120-GW082710 | U-235/236 | Total | 0.222 | NA | 0.028 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| PZ-120 | SMPZ-120-GW082710 | U-238 | Filtered | 4.61 | 0.02 | 0.22 | 0.008 |
| PZ-120 | SMPZ-120-GW082710 | U-238 | Suspended | 0.014 K | 0.034 | 0.012 | 0.013 |
| PZ-120 | SMPZ-120-GW082710 | U-238 | Total | 4.63 | NA | 0.22 | NA |
| PZ-121 | SMPZ-121-GW090110 | Ac-227 | Filtered | -3.1 U | 9.9 | 3 | 4.8 |
| PZ-121 | SMPZ-121-GW090110 | Ac-227 | Suspended | 2.8 | 2 | 0.68 | 0.95 |
| PZ-121 | SMPZ-121-GW090110 | Ac-227 | Total | -0.3 | NA | 3 | NA |
| PZ-121 | SMPZ-121-GW090110 | Ac-228 | Filtered | 3.5 | 5.2 | 1.6 | 2.4 |
| PZ-121 | SMPZ-121-GW090110 | Ac-228 | Suspended | -0.4 U B | 3.2 | 1 | 1.5 |
| PZ-121 | SMPZ-121-GW090110 | Ac-228 | Total | 3 | NA | 1.9 | NA |
| PZ-121 | SMPZ-121-GW090110 | Ag-108 | Filtered | 0.0007 U R | 0.09 | 0.026 | 0.042 |
| PZ-121 | SMPZ-121-GW090110 | Ag-108 | Suspended | 0.008 U R | 0.046 | 0.014 | 0.022 |
| PZ-121 | SMPZ-121-GW090110 | Ag-108 | Total | 0.008 R | NA | 0.029 | NA |
| PZ-121 | SMPZ-121-GW090110 | Ag-108m | Filtered | 0.007 U R | 0.97 | 0.28 | 0.45 |
| PZ-121 | SMPZ-121-GW090110 | Ag-108m | Suspended | 0.08 U R | 0.5 | 0.15 | 0.24 |
| PZ-121 | SMPZ-121-GW090110 | Ag-108m | Total | 0.09 R | NA | 0.31 | NA |
| PZ-121 | SMPZ-121-GW090110 | Ba-133 | Filtered | -2.8 U R | 15 | 4.3 | 7 |
| PZ-121 | SMPZ-121-GW090110 | Ba-133 | Suspended | -0.02 U R | 6 | 1.8 | 2.9 |
| PZ-121 | SMPZ-121-GW090110 | Ba-133 | Total | -2.8 R | NA | 4.7 | NA |
| PZ-121 | SMPZ-121-GW090110 | Ba-137m | Filtered | 0.29 U | 1.3 | 0.38 | 0.6 |
| PZ-121 | SMPZ-121-GW090110 | Ba-137m | Suspended | -0.22 U | 0.69 | 0.21 | 0.33 |
| PZ-121 | SMPZ-121-GW090110 | Ba-137m | Total | 0.07 | NA | 0.43 | NA |
| PZ-121 | SMPZ-121-GW090110 | Bi-212 | Filtered | 4.9 U | 13 | 3.8 | 5.8 |
| PZ-121 | SMPZ-121-GW090110 | Bi-212 | Suspended | 3.3 | 5.7 | 1.8 | 2.7 |
| PZ-121 | SMPZ-121-GW090110 | Bi-212 | Total | 8.2 | NA | 4.2 | NA |
| PZ-121 | SMPZ-121-GW090110 | Bi-214 | Filtered | 0.47 U | 3.2 | 0.86 | 1.5 |
| PZ-121 | SMPZ-121-GW090110 | Bi-214 | Suspended | -0.55 U | 1.7 | 0.78 | 0.84 |
| PZ-121 | SMPZ-121-GW090110 | Bi-214 | Total | -0.08 | NA | 1.2 | NA |
| PZ-121 | SMPZ-121-GW090110 | Cd-113m | Filtered | -400 U | 17000 | 4900 | 8000 |
| PZ-121 | SMPZ-121-GW090110 | Cd-113m | Suspended | -1000 U | 7400 | 2200 | 3600 |
| PZ-121 | SMPZ-121-GW090110 | Cd-113m | Total | -1400 | NA | 5400 | NA |
| PZ-121 | SMPZ-121-GW090110 | Cf-249 | Filtered | -0.5 U R | 7.2 | 2.1 | 3.4 |
| PZ-121 | SMPZ-121-GW090110 | Cf-249 | Suspended | 0.17 U R | 2.9 | 0.87 | 1.4 |
| PZ-121 | SMPZ-121-GW090110 | Cf-249 | Total | -0.4 R | NA | 2.3 | NA |
| PZ-121 | SMPZ-121-GW090110 | Co-60 | Filtered | -0.25 U | 1.9 | 0.53 | 0.84 |
| PZ-121 | SMPZ-121-GW090110 | Co-60 | Suspended | 0.04 U | 0.78 | 0.22 | 0.37 |
| PZ-121 | SMPZ-121-GW090110 | Co-60 | Total | -0.21 | NA | 0.57 | NA |
| PZ-121 | SMPZ-121-GW090110 | Cs-134 | Filtered | -0.36 U | 1.7 | 0.51 | 0.82 |
| PZ-121 | SMPZ-121-GW090110 | Cs-134 | Suspended | 0.1 U | 0.8 | 0.24 | 0.39 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-121 | SMPZ-121-GW090110 | Cs-134 | Total | -0.26 SK | NA | 0.56 | NA |
| PZ-121 | SMPZ-121-GW090110 | Cs-137 | Filtered | 0.3 U | 1.4 | 0.4 | 0.64 |
| PZ-121 | SMPZ-121-GW090110 | Cs-137 | Suspended | -0.23 U | 0.73 | 0.22 | 0.35 |
| PZ-121 | SMPZ-121-GW090110 | Cs-137 | Total | 0.07 | NA | 0.46 | NA |
| PZ-121 | SMPZ-121-GW090110 | Eu-152 | Filtered | 1.3 U | 3.1 | 0.94 | 1.5 |
| PZ-121 | SMPZ-121-GW090110 | Eu-152 | Suspended | -0.03 U | 1.6 | 0.47 | 0.77 |
| PZ-121 | SMPZ-121-GW090110 | Eu-152 | Total | 1.3 | NA | 1 | NA |
| PZ-121 | SMPZ-121-GW090110 | Eu-154 | Filtered | 4 U | 11 | 3.3 | 5 |
| PZ-121 | SMPZ-121-GW090110 | Eu-154 | Suspended | -1.6 U | 6.1 | 1.8 | 2.9 |
| PZ-121 | SMPZ-121-GW090110 | Eu-154 | Total | 2.5 | NA | 3.7 | NA |
| PZ-121 | SMPZ-121-GW090110 | Eu-155 | Filtered | -0.59 U | 3.2 | 0.96 | 1.6 |
| PZ-121 | SMPZ-121-GW090110 | Eu-155 | Suspended | 0.006 U | 1.3 | 0.38 | 0.63 |
| PZ-121 | SMPZ-121-GW090110 | Eu-155 | Total | -0.6 SK | NA | 1 | NA |
| PZ-121 | SMPZ-121-GW090110 | gross_alpha | Filtered | 1.16 | 0.42 | 0.23 | 0.21 |
| PZ-121 | SMPZ-121-GW090110 | gross_alpha | Suspended | 0.79 | 0.46 | 0.2 | 0.24 |
| PZ-121 | SMPZ-121-GW090110 | gross_alpha | Total | 1.96 | NA | 0.3 | NA |
| PZ-121 | SMPZ-121-GW090110 | gross_beta | Filtered | 0.96 U | 2.5 | 0.75 | 1.5 |
| PZ-121 | SMPZ-121-GW090110 | gross_beta | Suspended | -0.14 U | 0.78 | 0.21 | 0.46 |
| PZ-121 | SMPZ-121-GW090110 | gross_beta | Total | 0.82 | NA | 0.78 | NA |
| PZ-121 | SMPZ-121-GW090110 | H-3 | Filtered | 5 U | 140 | 41 | 68 |
| PZ-121 | SMPZ-121-GW090110 | H-3 | Suspended | -8.9 U R | 22 | 5.3 | 9.8 |
| PZ-121 | SMPZ-121-GW090110 | H-3 | Total | -4 R | NA | 42 | NA |
| PZ-121 | SMPZ-121-GW090110 | Ho-166m | Filtered | 0 U | 3 | 0.87 | 1.4 |
| PZ-121 | SMPZ-121-GW090110 | Ho-166m | Suspended | 0.68 SK | 0.74 | 0.24 | 0.35 |
| PZ-121 | SMPZ-121-GW090110 | Ho-166m | Total | 0.68 SK | NA | 0.9 | NA |
| PZ-121 | SMPZ-121-GW090110 | K-40 | Filtered | -5.6 U | 22 | 7.7 | 10 |
| PZ-121 | SMPZ-121-GW090110 | K-40 | Suspended | 4.1 U | 12 | 3.1 | 5.6 |
| PZ-121 | SMPZ-121-GW090110 | K-40 | Total | -1.6 | NA | 8.3 | NA |
| PZ-121 | SMPZ-121-GW090110 | Na-22 | Filtered | -0.09 U | 1.6 | 0.45 | 0.73 |
| PZ-121 | SMPZ-121-GW090110 | Na-22 | Suspended | -0.004 U | 0.75 | 0.21 | 0.35 |
| PZ-121 | SMPZ-121-GW090110 | Na-22 | Total | -0.1 | NA | 0.5 | NA |
| PZ-121 | SMPZ-121-GW090110 | Nb-94 | Filtered | 0.29 U | 1.4 | 0.4 | 0.64 |
| PZ-121 | SMPZ-121-GW090110 | Nb-94 | Suspended | 0.04 U | 0.69 | 0.2 | 0.33 |
| PZ-121 | SMPZ-121-GW090110 | Nb-94 | Total | 0.34 | NA | 0.45 | NA |
| PZ-121 | SMPZ-121-GW090110 | Np-236 | Filtered | -0.003 U | 2.3 | 0.67 | 1.1 |
| PZ-121 | SMPZ-121-GW090110 | Np-236 | Suspended | 0.09 U | 1.2 | 0.36 | 0.59 |
| PZ-121 | SMPZ-121-GW090110 | Np-236 | Total | 0.09 SK | NA | 0.76 | NA |
| PZ-121 | SMPZ-121-GW090110 | Np-239 | Filtered | 1 U | 7.2 | 2.1 | 3.4 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-121 | SMPZ-121-GW090110 | Np-239 | Suspended | -0.7 U | 3.6 | 1.1 | 1.7 |
| PZ-121 | SMPZ-121-GW090110 | Np-239 | Total | 0.3 | NA | 2.4 | NA |
| PZ-121 | SMPZ-121-GW090110 | Pa-231 | Filtered | 3 U | 59 | 17 | 28 |
| PZ-121 | SMPZ-121-GW090110 | Pa-231 | Suspended | -2.7 U | 28 | 8.3 | 14 |
| PZ-121 | SMPZ-121-GW090110 | Pa-231 | Total | -0.1 | NA | 19 | NA |
| PZ-121 | SMPZ-121-GW090110 | Pb-212 | Filtered | -0.2 U | 2.9 | 1 | 1.4 |
| PZ-121 | SMPZ-121-GW090110 | Pb-212 | Suspended | 0.26 U | 1.2 | 0.41 | 0.61 |
| PZ-121 | SMPZ-121-GW090110 | Pb-212 | Total | 0.08 | NA | 1.1 | NA |
| PZ-121 | SMPZ-121-GW090110 | Pb-214 | Filtered | 0.92 U | 3.1 | 0.83 | 1.5 |
| PZ-121 | SMPZ-121-GW090110 | Pb-214 | Suspended | -0.77 U | 1.6 | 0.75 | 0.8 |
| PZ-121 | SMPZ-121-GW090110 | Pb-214 | Total | 0.1 | NA | 1.1 | NA |
| PZ-121 | SMPZ-121-GW090110 | Sb-125 | Filtered | 0.6 U | 15 | 4.3 | 7.1 |
| PZ-121 | SMPZ-121-GW090110 | Sb-125 | Suspended | 1.2 U | 6.1 | 1.8 | 3 |
| PZ-121 | SMPZ-121-GW090110 | Sb-125 | Total | 1.8 SK | NA | 4.7 | NA |
| PZ-121 | SMPZ-121-GW090110 | Sn-126 | Filtered | -0.06 U | 1.6 | 0.45 | 0.73 |
| PZ-121 | SMPZ-121-GW090110 | Sn-126 | Suspended | 0 U | 0.89 | 0.26 | 0.43 |
| PZ-121 | SMPZ-121-GW090110 | Sn-126 | Total | -0.06 | NA | 0.52 | NA |
| PZ-121 | SMPZ-121-GW090110 | Sr-90 | Filtered | 0.0008 U | 0.1 | 0.029 | 0.057 |
| PZ-121 | SMPZ-121-GW090110 | Sr-90 | Suspended | -0.017 U | 0.11 | 0.03 | 0.061 |
| PZ-121 | SMPZ-121-GW090110 | Sr-90 | Total | -0.016 | NA | 0.042 | NA |
| PZ-121 | SMPZ-121-GW090110 | Te-125m | Filtered | 0.144 U | 3.4 | 0.999 | 1.6 |
| PZ-121 | SMPZ-121-GW090110 | Te-125m | Suspended | 0.27 U | 1.4 | 0.42 | 0.69 |
| PZ-121 | SMPZ-121-GW090110 | Te-125m | Total | 0.4 SK | NA | 1.1 | NA |
| PZ-121 | SMPZ-121-GW090110 | Th-231 | Filtered | 0.043 | 0.032 | 0.016 | 0.011 |
| PZ-121 | SMPZ-121-GW090110 | Th-231 | Suspended | 0 U | 0.021 | 0.0039 | 0.0065 |
| PZ-121 | SMPZ-121-GW090110 | Th-231 | Total | 0.043 | NA | 0.016 | NA |
| PZ-121 | SMPZ-121-GW090110 | Th-234 | Filtered | 2.5 U | 21 | 6.2 | 10 |
| PZ-121 | SMPZ-121-GW090110 | Th-234 | Suspended | 1.7 U | 8.1 | 2.4 | 3.9 |
| PZ-121 | SMPZ-121-GW090110 | Th-234 | Total | 4.2 | NA | 6.7 | NA |
| PZ-121 | SMPZ-121-GW090110 | Tl-208 | Filtered | -0.006 U | 2 | 0.51 | 0.92 |
| PZ-121 | SMPZ-121-GW090110 | Tl-208 | Suspended | -0.15 U | 1 | 0.36 | 0.49 |
| PZ-121 | SMPZ-121-GW090110 | Tl-208 | Total | -0.15 | NA | 0.63 | NA |
| PZ-121 | SMPZ-121-GW090110 | Tm-171 | Filtered | 50 U | 350 | 100 | 170 |
| PZ-121 | SMPZ-121-GW090110 | Tm-171 | Suspended | -45 U | 130 | 38 | 62 |
| PZ-121 | SMPZ-121-GW090110 | Tm-171 | Total | 6 | NA | 110 | NA |
| PZ-121 | SMPZ-121-GW090110 | U-233/234 | Filtered | 0.55 K | 0.037 | 0.052 | 0.015 |
| PZ-121 | SMPZ-121-GW090110 | U-233/234 | Suspended | 0.0157 | 0.021 | 0.0075 | 0.0074 |
| PZ-121 | SMPZ-121-GW090110 | U-233/234 | Total | 0.566 | NA | 0.053 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-121 | SMPZ-121-GW090110 | U-235/236 | Filtered | 0.043 | 0.032 | 0.016 | 0.011 |
| PZ-121 | SMPZ-121-GW090110 | U-235/236 | Suspended | 0 U | 0.021 | 0.0039 | 0.0065 |
| PZ-121 | SMPZ-121-GW090110 | U-235/236 | Total | 0.043 | NA | 0.016 | NA |
| PZ-121 | SMPZ-121-GW090110 | U-238 | Filtered | 0.503 | 0.01 | 0.049 | 0.006 |
| PZ-121 | SMPZ-121-GW090110 | U-238 | Suspended | 0.04 | 0.016 | 0.01 | 0.005 |
| PZ-121 | SMPZ-121-GW090110 | U-238 | Total | 0.544 | NA | 0.05 | NA |
| PZ-122 | SMPZ-122-GW082710 | Ac-227 | Filtered | 1.1 U | 9.6 | 2.9 | 4.7 |
| PZ-122 | SMPZ-122-GW082710 | Ac-227 | Suspended | 1.1 U | 3.5 | 1 | 1.7 |
| PZ-122 | SMPZ-122-GW082710 | Ac-227 | Total | 2.2 | NA | 3 | NA |
| PZ-122 | SMPZ-122-GW082710 | Ac-228 | Filtered | 3.6 | 4.2 | 1.3 | 2 |
| PZ-122 | SMPZ-122-GW082710 | Ac-228 | Suspended | 0.79 U | 2.9 | 0.86 | 1.4 |
| PZ-122 | SMPZ-122-GW082710 | Ac-228 | Total | 4.4 | NA | 1.6 | NA |
| PZ-122 | SMPZ-122-GW082710 | Ag-108 | Filtered | 0.003 U R | 0.096 | 0.028 | 0.046 |
| PZ-122 | SMPZ-122-GW082710 | Ag-108 | Suspended | -0.003 U R | 0.054 | 0.016 | 0.026 |
| PZ-122 | SMPZ-122-GW082710 | Ag-108 | Total | -0.0005 R | NA | 0.032 | NA |
| PZ-122 | SMPZ-122-GW082710 | Ag-108m | Filtered | 0.03 U R | 1 | 0.3 | 0.5 |
| PZ-122 | SMPZ-122-GW082710 | Ag-108m | Suspended | -0.03 U R | 0.58 | 0.17 | 0.28 |
| PZ-122 | SMPZ-122-GW082710 | Ag-108m | Total | -0.006 R | NA | 0.35 | NA |
| PZ-122 | SMPZ-122-GW082710 | Ba-133 | Filtered | -1.9 U R | 13 | 3.7 | 6.1 |
| PZ-122 | SMPZ-122-GW082710 | Ba-133 | Suspended | 0.02 U R | 6.5 | 1.9 | 3.2 |
| PZ-122 | SMPZ-122-GW082710 | Ba-133 | Total | -1.9 R | NA | 4.2 | NA |
| PZ-122 | SMPZ-122-GW082710 | Ba-137m | Filtered | 0.07 U | 1.2 | 0.35 | 0.57 |
| PZ-122 | SMPZ-122-GW082710 | Ba-137m | Suspended | 0.07 U | 0.62 | 0.18 | 0.29 |
| PZ-122 | SMPZ-122-GW082710 | Ba-137m | Total | 0.13 | NA | 0.39 | NA |
| PZ-122 | SMPZ-122-GW082710 | Bi-212 | Filtered | -1.4 U | 12 | 5.1 | 5.7 |
| PZ-122 | SMPZ-122-GW082710 | Bi-212 | Suspended | -1 U | 6.9 | 5.1 | 3.3 |
| PZ-122 | SMPZ-122-GW082710 | Bi-212 | Total | -2.4 | NA | 7.2 | NA |
| PZ-122 | SMPZ-122-GW082710 | Bi-214 | Filtered | 3.5 | 2.8 | 1 | 1.3 |
| PZ-122 | SMPZ-122-GW082710 | Bi-214 | Suspended | 3.79 | 1.6 | 0.64 | 0.75 |
| PZ-122 | SMPZ-122-GW082710 | Bi-214 | Total | 7.3 | NA | 1.2 | NA |
| PZ-122 | SMPZ-122-GW082710 | Cd-113m | Filtered | 500 U | 14000 | 4300 | 7000 |
| PZ-122 | SMPZ-122-GW082710 | Cd-113m | Suspended | -9 U | 7000 | 2100 | 3400 |
| PZ-122 | SMPZ-122-GW082710 | Cd-113m | Total | 500 | NA | 4700 | NA |
| PZ-122 | SMPZ-122-GW082710 | Cf-249 | Filtered | 0.03 U R | 5.9 | 1.7 | 2.8 |
| PZ-122 | SMPZ-122-GW082710 | Cf-249 | Suspended | -0.38 U R | 3 | 0.88 | 1.4 |
| PZ-122 | SMPZ-122-GW082710 | Cf-249 | Total | -0.3 R | NA | 1.9 | NA |
| PZ-122 | SMPZ-122-GW082710 | Co-60 | Filtered | -0.22 U | 1.5 | 0.42 | 0.68 |
| PZ-122 | SMPZ-122-GW082710 | Co-60 | Suspended | 0.27 U | 0.77 | 0.23 | 0.36 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-122 | SMPZ-122-GW082710 | Co-60 | Total | 0.06 | NA | 0.48 | NA |
| PZ-122 | SMPZ-122-GW082710 | Cs-134 | Filtered | -0.57 U | 1.5 | 0.45 | 0.73 |
| PZ-122 | SMPZ-122-GW082710 | Cs-134 | Suspended | -0.25 U | 0.94 | 0.28 | 0.45 |
| PZ-122 | SMPZ-122-GW082710 | Cs-134 | Total | -0.82 | NA | 0.53 | NA |
| PZ-122 | SMPZ-122-GW082710 | Cs-137 | Filtered | 0.07 U | 1.3 | 0.37 | 0.6 |
| PZ-122 | SMPZ-122-GW082710 | Cs-137 | Suspended | 0.07 U | 0.65 | 0.19 | 0.31 |
| PZ-122 | SMPZ-122-GW082710 | Cs-137 | Total | 0.14 | NA | 0.41 | NA |
| PZ-122 | SMPZ-122-GW082710 | Eu-152 | Filtered | 0.09 U | 3.4 | 0.99 | 1.6 |
| PZ-122 | SMPZ-122-GW082710 | Eu-152 | Suspended | 0.87 | 1.8 | 0.53 | 0.84 |
| PZ-122 | SMPZ-122-GW082710 | Eu-152 | Total | 1 | NA | 1.1 | NA |
| PZ-122 | SMPZ-122-GW082710 | Eu-154 | Filtered | 0.4 U | 11 | 3 | 5 |
| PZ-122 | SMPZ-122-GW082710 | Eu-154 | Suspended | -0.07 U | 5.2 | 1.5 | 2.4 |
| PZ-122 | SMPZ-122-GW082710 | Eu-154 | Total | 0.3 | NA | 3.4 | NA |
| PZ-122 | SMPZ-122-GW082710 | Eu-155 | Filtered | 0.9 U | 3.4 | 1 | 1.7 |
| PZ-122 | SMPZ-122-GW082710 | Eu-155 | Suspended | 0.19 U | 1.2 | 0.37 | 0.6 |
| PZ-122 | SMPZ-122-GW082710 | Eu-155 | Total | 1.1 | NA | 1.1 | NA |
| PZ-122 | SMPZ-122-GW082710 | gross_alpha | Filtered | 15.9 | 0.44 | 0.94 | 0.23 |
| PZ-122 | SMPZ-122-GW082710 | gross_alpha | Suspended | 0.62 | 0.53 | 0.2 | 0.28 |
| PZ-122 | SMPZ-122-GW082710 | gross_alpha | Total | 16.5 | NA | 0.97 | NA |
| PZ-122 | SMPZ-122-GW082710 | gross_beta | Filtered | 10.6 | 2.2 | 1.1 | 1.2 |
| PZ-122 | SMPZ-122-GW082710 | gross_beta | Suspended | 1.06 | 0.81 | 0.28 | 0.48 |
| PZ-122 | SMPZ-122-GW082710 | gross_beta | Total | 11.6 | NA | 1.1 | NA |
| PZ-122 | SMPZ-122-GW082710 | H-3 | Filtered | 64 U | 130 | 40 | 65 |
| PZ-122 | SMPZ-122-GW082710 | H-3 | Suspended | -8 U R | 30 | 7.1 | 14 |
| PZ-122 | SMPZ-122-GW082710 | H-3 | Total | 56 R | NA | 41 | NA |
| PZ-122 | SMPZ-122-GW082710 | H-3_Total | Filtered | 64 | 26 | 10 | 12 |
| PZ-122 | SMPZ-122-GW082710 | H-3_Total | Suspended | -8 U R | 26 | 5.5 | 11 |
| PZ-122 | SMPZ-122-GW082710 | H-3_Total | Total | 56 R | NA | 12 | NA |
| PZ-122 | SMPZ-122-GW082710 | Ho-166m | Filtered | 0.2 U | 2.1 | 0.63 | 1 |
| PZ-122 | SMPZ-122-GW082710 | Ho-166m | Suspended | -0.31 U | 1.2 | 0.35 | 0.56 |
| PZ-122 | SMPZ-122-GW082710 | Ho-166m | Total | -0.11 | NA | 0.72 | NA |
| PZ-122 | SMPZ-122-GW082710 | K-40 | Filtered | 13.1 | 24 | 6.8 | 12 |
| PZ-122 | SMPZ-122-GW082710 | K-40 | Suspended | -4 U | 11 | 4.4 | 5.1 |
| PZ-122 | SMPZ-122-GW082710 | K-40 | Total | 9 | NA | 8.1 | NA |
| PZ-122 | SMPZ-122-GW082710 | Na-22 | Filtered | -0.24 U | 1.3 | 0.39 | 0.62 |
| PZ-122 | SMPZ-122-GW082710 | Na-22 | Suspended | -0.24 U | 0.97 | 0.28 | 0.45 |
| PZ-122 | SMPZ-122-GW082710 | Na-22 | Total | -0.48 | NA | 0.48 | NA |
| PZ-122 | SMPZ-122-GW082710 | Nb-94 | Filtered | -0.2 U | 1.1 | 0.33 | 0.53 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-122 | SMPZ-122-GW082710 | Nb-94 | Suspended | 0.38 | 0.65 | 0.2 | 0.31 |
| PZ-122 | SMPZ-122-GW082710 | Nb-94 | Total | 0.19 | NA | 0.38 | NA |
| PZ-122 | SMPZ-122-GW082710 | Np-236 | Filtered | -0.16 U | 3 | 0.89 | 1.5 |
| PZ-122 | SMPZ-122-GW082710 | Np-236 | Suspended | -0.02 U | 1.3 | 0.4 | 0.65 |
| PZ-122 | SMPZ-122-GW082710 | Np-236 | Total | -0.18 | NA | 0.97 | NA |
| PZ-122 | SMPZ-122-GW082710 | Np-239 | Filtered | 0 U | 8.4 | 2.5 | 4.1 |
| PZ-122 | SMPZ-122-GW082710 | Np-239 | Suspended | -0.2 U | 3.9 | 1.1 | 1.9 |
| PZ-122 | SMPZ-122-GW082710 | Np-239 | Total | -0.2 | NA | 2.7 | NA |
| PZ-122 | SMPZ-122-GW082710 | Pa-231 | Filtered | -8 U | 59 | 17 | 28 |
| PZ-122 | SMPZ-122-GW082710 | Pa-231 | Suspended | 7.7 U | 28 | 8.4 | 14 |
| PZ-122 | SMPZ-122-GW082710 | Pa-231 | Total | -0.5 | NA | 19 | NA |
| PZ-122 | SMPZ-122-GW082710 | Pb-212 | Filtered | 0.6 U | 3 | 1 | 1.5 |
| PZ-122 | SMPZ-122-GW082710 | Pb-212 | Suspended | -0.1 U | 1.3 | 0.46 | 0.63 |
| PZ-122 | SMPZ-122-GW082710 | Pb-212 | Total | 0.5 | NA | 1.1 | NA |
| PZ-122 | SMPZ-122-GW082710 | Pb-214 | Filtered | 0.4 U | 2.8 | 0.76 | 1.4 |
| PZ-122 | SMPZ-122-GW082710 | Pb-214 | Suspended | 1.82 | 1.5 | 0.58 | 0.73 |
| PZ-122 | SMPZ-122-GW082710 | Pb-214 | Total | 2.22 | NA | 0.95 | NA |
| PZ-122 | SMPZ-122-GW082710 | Sb-125 | Filtered | 5.2 U | 13 | 3.8 | 6.2 |
| PZ-122 | SMPZ-122-GW082710 | Sb-125 | Suspended | -1.2 U | 6.6 | 2 | 3.2 |
| PZ-122 | SMPZ-122-GW082710 | Sb-125 | Total | 4 | NA | 4.3 | NA |
| PZ-122 | SMPZ-122-GW082710 | Sn-126 | Filtered | -0.15 U | 1.4 | 0.4 | 0.65 |
| PZ-122 | SMPZ-122-GW082710 | Sn-126 | Suspended | 0.56 | 0.79 | 0.25 | 0.38 |
| PZ-122 | SMPZ-122-GW082710 | Sn-126 | Total | 0.41 | NA | 0.47 | NA |
| PZ-122 | SMPZ-122-GW082710 | Sr-90 | Filtered | 0.023 U | 0.22 | 0.063 | 0.13 |
| PZ-122 | SMPZ-122-GW082710 | Sr-90 | Suspended | 0.011 U | 0.15 | 0.042 | 0.089 |
| PZ-122 | SMPZ-122-GW082710 | Sr-90 | Total | 0.034 | NA | 0.076 | NA |
| PZ-122 | SMPZ-122-GW082710 | Te-125m | Filtered | 1.21 U | 2.9 | 0.89 | 1.4 |
| PZ-122 | SMPZ-122-GW082710 | Te-125m | Suspended | -0.28 U | 1.5 | 0.46 | 0.74 |
| PZ-122 | SMPZ-122-GW082710 | Te-125m | Total | 0.928 | NA | 0.997 | NA |
| PZ-122 | SMPZ-122-GW082710 | Th-231 | Filtered | 0.462 | 0.02 | 0.041 | 0.006 |
| PZ-122 | SMPZ-122-GW082710 | Th-231 | Suspended | 0.0121 | 0.016 | 0.0086 | 0.0086 |
| PZ-122 | SMPZ-122-GW082710 | Th-231 | Total | 0.474 | NA | 0.042 | NA |
| PZ-122 | SMPZ-122-GW082710 | Th-234 | Filtered | 10.6 U | 24 | 8.3 | 12 |
| PZ-122 | SMPZ-122-GW082710 | Th-234 | Suspended | 2.7 U | 7.4 | 2.4 | 3.6 |
| PZ-122 | SMPZ-122-GW082710 | Th-234 | Total | 13.4 | NA | 8.7 | NA |
| PZ-122 | SMPZ-122-GW082710 | Tl-208 | Filtered | 0.08 U | 1.8 | 0.68 | 0.86 |
| PZ-122 | SMPZ-122-GW082710 | Tl-208 | Suspended | -0.05 U | 1 | 0.31 | 0.5 |
| PZ-122 | SMPZ-122-GW082710 | Tl-208 | Total | 0.03 | NA | 0.75 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| PZ-122 | SMPZ-122-GW082710 | Tm-171 | Filtered | 10 U | 440 | 130 | 210 |
| PZ-122 | SMPZ-122-GW082710 | Tm-171 | Suspended | 25 U | 120 | 36 | 58 |
| PZ-122 | SMPZ-122-GW082710 | Tm-171 | Total | 40 | NA | 140 | NA |
| PZ-122 | SMPZ-122-GW082710 | U-233/234 | Filtered | 8.53 | 0.02 | 0.38 | 0.005 |
| PZ-122 | SMPZ-122-GW082710 | U-233/234 | Suspended | 0.0006 U | 0.039 | 0.011 | 0.015 |
| PZ-122 | SMPZ-122-GW082710 | U-233/234 | Total | 8.54 | NA | 0.38 | NA |
| PZ-122 | SMPZ-122-GW082710 | U-235/236 | Filtered | 0.462 | 0.02 | 0.041 | 0.006 |
| PZ-122 | SMPZ-122-GW082710 | U-235/236 | Suspended | 0.0121 | 0.016 | 0.0086 | 0.0086 |
| PZ-122 | SMPZ-122-GW082710 | U-235/236 | Total | 0.474 | NA | 0.042 | NA |
| PZ-122 | SMPZ-122-GW082710 | U-238 | Filtered | 7.83 | 0.006 | 0.35 | 0.005 |
| PZ-122 | SMPZ-122-GW082710 | U-238 | Suspended | -0.003 U | 0.033 | 0.0075 | 0.012 |
| PZ-122 | SMPZ-122-GW082710 | U-238 | Total | 7.82 | NA | 0.35 | NA |
| PZ-150 | SMPZ-150-GW082410 | Ac-227 | Filtered | 0.2 U | 12 | 3.7 | 6.1 |
| PZ-150 | SMPZ-150-GW082410 | Ac-227 | Suspended | -1.6 U | 4.2 | 1.3 | 2.1 |
| PZ-150 | SMPZ-150-GW082410 | Ac-227 | Total | -1.5 | NA | 3.9 | NA |
| PZ-150 | SMPZ-150-GW082410 | Ac-228 | Filtered | -2.3 U | 6.7 | 3.8 | 3.1 |
| PZ-150 | SMPZ-150-GW082410 | Ac-228 | Suspended | 1.25 | 2.3 | 0.7 | 1.1 |
| PZ-150 | SMPZ-150-GW082410 | Ac-228 | Total | -1 | NA | 3.9 | NA |
| PZ-150 | SMPZ-150-GW082410 | Ag-108 | Filtered | 0.023 U R | 0.1 | 0.03 | 0.048 |
| PZ-150 | SMPZ-150-GW082410 | Ag-108 | Suspended | 0.011 U R | 0.044 | 0.013 | 0.021 |
| PZ-150 | SMPZ-150-GW082410 | Ag-108 | Total | 0.034 R | NA | 0.033 | NA |
| PZ-150 | SMPZ-150-GW082410 | Ag-108m | Filtered | 0.24 U R | 1.1 | 0.33 | 0.52 |
| PZ-150 | SMPZ-150-GW082410 | Ag-108m | Suspended | 0.12 U R | 0.47 | 0.14 | 0.22 |
| PZ-150 | SMPZ-150-GW082410 | Ag-108m | Total | 0.37 R | NA | 0.35 | NA |
| PZ-150 | SMPZ-150-GW082410 | Ba-133 | Filtered | -3.6 U R | 14 | 4.2 | 6.8 |
| PZ-150 | SMPZ-150-GW082410 | Ba-133 | Suspended | 0.1 U R | 6 | 1.8 | 2.9 |
| PZ-150 | SMPZ-150-GW082410 | Ba-133 | Total | -3.5 R | NA | 4.6 | NA |
| PZ-150 | SMPZ-150-GW082410 | Ba-137m | Filtered | -0.07 U | 1.3 | 0.37 | 0.61 |
| PZ-150 | SMPZ-150-GW082410 | Ba-137m | Suspended | -0.27 U | 0.78 | 0.47 | 0.37 |
| PZ-150 | SMPZ-150-GW082410 | Ba-137m | Total | -0.34 | NA | 0.6 | NA |
| PZ-150 | SMPZ-150-GW082410 | Bi-212 | Filtered | 2.2 U | 13 | 3.7 | 6 |
| PZ-150 | SMPZ-150-GW082410 | Bi-212 | Suspended | 0.9 U | 4.3 | 1.3 | 2 |
| PZ-150 | SMPZ-150-GW082410 | Bi-212 | Total | 3.1 | NA | 3.9 | NA |
| PZ-150 | SMPZ-150-GW082410 | Bi-214 | Filtered | 2.4 | 3.3 | 1.1 | 1.6 |
| PZ-150 | SMPZ-150-GW082410 | Bi-214 | Suspended | 1.81 | 1.4 | 0.66 | 0.67 |
| PZ-150 | SMPZ-150-GW082410 | Bi-214 | Total | 4.2 | NA | 1.3 | NA |
| PZ-150 | SMPZ-150-GW082410 | Cd-113m | Filtered | 2000 U | 16000 | 4600 | 7400 |
| PZ-150 | SMPZ-150-GW082410 | Cd-113m | Suspended | 200 U | 6800 | 2000 | 3300 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-150 | SMPZ-150-GW082410 | Cd-113m | Total | 2200 | NA | 5000 | NA |
| PZ-150 | SMPZ-150-GW082410 | Cf-249 | Filtered | 1.4 U R | 6.6 | 1.9 | 3.1 |
| PZ-150 | SMPZ-150-GW082410 | Cf-249 | Suspended | 0.08 U R | 3.3 | 0.97 | 1.6 |
| PZ-150 | SMPZ-150-GW082410 | Cf-249 | Total | 1.5 R | NA | 2.2 | NA |
| PZ-150 | SMPZ-150-GW082410 | Co-60 | Filtered | -0.23 U | 1.8 | 0.5 | 0.79 |
| PZ-150 | SMPZ-150-GW082410 | Co-60 | Suspended | -0.23 U | 0.88 | 0.26 | 0.4 |
| PZ-150 | SMPZ-150-GW082410 | Co-60 | Total | -0.46 | NA | 0.56 | NA |
| PZ-150 | SMPZ-150-GW082410 | Cs-134 | Filtered | 0 U | 2 | 0.59 | 0.98 |
| PZ-150 | SMPZ-150-GW082410 | Cs-134 | Suspended | -0.26 U | 0.83 | 0.25 | 0.4 |
| PZ-150 | SMPZ-150-GW082410 | Cs-134 | Total | -0.26 | NA | 0.64 | NA |
| PZ-150 | SMPZ-150-GW082410 | Cs-137 | Filtered | -0.07 U | 1.4 | 0.4 | 0.65 |
| PZ-150 | SMPZ-150-GW082410 | Cs-137 | Suspended | -0.28 U | 0.82 | 0.49 | 0.39 |
| PZ-150 | SMPZ-150-GW082410 | Cs-137 | Total | -0.35 | NA | 0.63 | NA |
| PZ-150 | SMPZ-150-GW082410 | Eu-152 | Filtered | -1.7 U | 4.4 | 1.3 | 2.1 |
| PZ-150 | SMPZ-150-GW082410 | Eu-152 | Suspended | 0.44 U | 1.3 | 0.4 | 0.63 |
| PZ-150 | SMPZ-150-GW082410 | Eu-152 | Total | -1.2 | NA | 1.4 | NA |
| PZ-150 | SMPZ-150-GW082410 | Eu-154 | Filtered | 3 U | 13 | 3.8 | 6.1 |
| PZ-150 | SMPZ-150-GW082410 | Eu-154 | Suspended | 0.07 U | 5.1 | 1.4 | 2.4 |
| PZ-150 | SMPZ-150-GW082410 | Eu-154 | Total | 3.1 | NA | 4.1 | NA |
| PZ-150 | SMPZ-150-GW082410 | Eu-155 | Filtered | 0.88 U | 3.2 | 0.95 | 1.5 |
| PZ-150 | SMPZ-150-GW082410 | Eu-155 | Suspended | -0.34 U | 1.1 | 0.34 | 0.56 |
| PZ-150 | SMPZ-150-GW082410 | Eu-155 | Total | 0.5 | NA | 1 | NA |
| PZ-150 | SMPZ-150-GW082410 | H-3 | Filtered | 34 U | 130 | 40 | 64 |
| PZ-150 | SMPZ-150-GW082410 | H-3 | Suspended | 4.2 U | 14 | 4.1 | 6.1 |
| PZ-150 | SMPZ-150-GW082410 | H-3 | Total | 38 | NA | 40 | NA |
| PZ-150 | SMPZ-150-GW082410 | Ho-166m | Filtered | 0.26 U | 2.3 | 0.67 | 1.1 |
| PZ-150 | SMPZ-150-GW082410 | Ho-166m | Suspended | -0.01 U | 0.87 | 0.25 | 0.4 |
| PZ-150 | SMPZ-150-GW082410 | Ho-166m | Total | 0.24 | NA | 0.71 | NA |
| PZ-150 | SMPZ-150-GW082410 | K-40 | Filtered | 13.9 | 18 | 4.6 | 8.2 |
| PZ-150 | SMPZ-150-GW082410 | K-40 | Suspended | 10.5 | 8.9 | 2.6 | 4.1 |
| PZ-150 | SMPZ-150-GW082410 | K-40 | Total | 24.3 | NA | 5.3 | NA |
| PZ-150 | SMPZ-150-GW082410 | Na-22 | Filtered | -0.15 U | 1.8 | 0.5 | 0.82 |
| PZ-150 | SMPZ-150-GW082410 | Na-22 | Suspended | -0.02 U | 0.87 | 0.24 | 0.4 |
| PZ-150 | SMPZ-150-GW082410 | Na-22 | Total | -0.16 | NA | 0.56 | NA |
| PZ-150 | SMPZ-150-GW082410 | Nb-94 | Filtered | 0.23 U | 1.1 | 0.31 | 0.49 |
| PZ-150 | SMPZ-150-GW082410 | Nb-94 | Suspended | -0.09 U | 0.64 | 0.19 | 0.3 |
| PZ-150 | SMPZ-150-GW082410 | Nb-94 | Total | 0.14 | NA | 0.36 | NA |
| PZ-150 | SMPZ-150-GW082410 | Np-236 | Filtered | 0.39 U | 2.8 | 0.83 | 1.4 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-150 | SMPZ-150-GW082410 | Np-236 | Suspended | 0.02 U | 1.3 | 0.39 | 0.64 |
| PZ-150 | SMPZ-150-GW082410 | Np-236 | Total | 0.41 | NA | 0.92 | NA |
| PZ-150 | SMPZ-150-GW082410 | Np-239 | Filtered | 1.4 U | 8.6 | 2.5 | 4.1 |
| PZ-150 | SMPZ-150-GW082410 | Np-239 | Suspended | -0.8 U | 3.6 | 1.1 | 1.8 |
| PZ-150 | SMPZ-150-GW082410 | Np-239 | Total | 0.6 | NA | 2.8 | NA |
| PZ-150 | SMPZ-150-GW082410 | Pa-231 | Filtered | -0.7 U | 51 | 15 | 24 |
| PZ-150 | SMPZ-150-GW082410 | Pa-231 | Suspended | -4.4 U | 28 | 8.3 | 13 |
| PZ-150 | SMPZ-150-GW082410 | Pa-231 | Total | -5 | NA | 17 | NA |
| PZ-150 | SMPZ-150-GW082410 | Pb-212 | Filtered | 0.26 U | 2.9 | 0.95 | 1.4 |
| PZ-150 | SMPZ-150-GW082410 | Pb-212 | Suspended | 0.69 | 1.1 | 0.46 | 0.56 |
| PZ-150 | SMPZ-150-GW082410 | Pb-212 | Total | 0.9 | NA | 1.1 | NA |
| PZ-150 | SMPZ-150-GW082410 | Pb-214 | Filtered | 2.7 | 2.9 | 1 | 1.4 |
| PZ-150 | SMPZ-150-GW082410 | Pb-214 | Suspended | 2.43 | 1.1 | 0.42 | 0.5 |
| PZ-150 | SMPZ-150-GW082410 | Pb-214 | Total | 5.1 | NA | 1.1 | NA |
| PZ-150 | SMPZ-150-GW082410 | Sb-125 | Filtered | 0.5 U | 11 | 3.3 | 5.5 |
| PZ-150 | SMPZ-150-GW082410 | Sb-125 | Suspended | -1.7 U | 6.3 | 1.9 | 3 |
| PZ-150 | SMPZ-150-GW082410 | Sb-125 | Total | -1.2 | NA | 3.8 | NA |
| PZ-150 | SMPZ-150-GW082410 | Sn-126 | Filtered | 0.48 U | 1.6 | 0.48 | 0.76 |
| PZ-150 | SMPZ-150-GW082410 | Sn-126 | Suspended | 0.33 | 0.7 | 0.21 | 0.33 |
| PZ-150 | SMPZ-150-GW082410 | Sn-126 | Total | 0.81 | NA | 0.53 | NA |
| PZ-150 | SMPZ-150-GW082410 | Sr-90 | Filtered | 0.129 U | 0.26 | 0.078 | 0.15 |
| PZ-150 | SMPZ-150-GW082410 | Sr-90 | Suspended | 0.089 U | 0.2 | 0.06 | 0.12 |
| PZ-150 | SMPZ-150-GW082410 | Sr-90 | Total | 0.218 | NA | 0.099 | NA |
| PZ-150 | SMPZ-150-GW082410 | Te-125m | Filtered | 0.13 U | 2.7 | 0.77 | 1.3 |
| PZ-150 | SMPZ-150-GW082410 | Te-125m | Suspended | -0.4 U | 1.4 | 0.43 | 0.7 |
| PZ-150 | SMPZ-150-GW082410 | Te-125m | Total | -0.27 | NA | 0.89 | NA |
| PZ-150 | SMPZ-150-GW082410 | Th-231 | Filtered | 0.084 | 0.031 | 0.023 | 0.009 |
| PZ-150 | SMPZ-150-GW082410 | Th-231 | Suspended | 0.012 | 0.016 | 0.0085 | 0.0085 |
| PZ-150 | SMPZ-150-GW082410 | Th-231 | Total | 0.096 | NA | 0.025 | NA |
| PZ-150 | SMPZ-150-GW082410 | Th-234 | Filtered | 8.1 U | 21 | 6.2 | 10 |
| PZ-150 | SMPZ-150-GW082410 | Th-234 | Suspended | -0.7 U | 7.3 | 2.4 | 3.6 |
| PZ-150 | SMPZ-150-GW082410 | Th-234 | Total | 7.4 | NA | 6.6 | NA |
| PZ-150 | SMPZ-150-GW082410 | Tl-208 | Filtered | 1.43 | 1.9 | 0.71 | 0.87 |
| PZ-150 | SMPZ-150-GW082410 | Tl-208 | Suspended | -0.57 U | 0.96 | 0.75 | 0.46 |
| PZ-150 | SMPZ-150-GW082410 | Tl-208 | Total | 0.9 | NA | 1 | NA |
| PZ-150 | SMPZ-150-GW082410 | Tm-171 | Filtered | 150 U | 340 | 100 | 160 |
| PZ-150 | SMPZ-150-GW082410 | Tm-171 | Suspended | -21 U | 130 | 38 | 63 |
| PZ-150 | SMPZ-150-GW082410 | Tm-171 | Total | 130 | NA | 110 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-150 | SMPZ-150-GW082410 | U-233/234 | Filtered | 1.44 | 0.03 | 0.1 | 0.01 |
| PZ-150 | SMPZ-150-GW082410 | U-233/234 | Suspended | 0.403 | 0.041 | 0.048 | 0.017 |
| PZ-150 | SMPZ-150-GW082410 | U-233/234 | Total | 1.84 | NA | 0.11 | NA |
| PZ-150 | SMPZ-150-GW082410 | U-235/236 | Filtered | 0.084 | 0.031 | 0.023 | 0.009 |
| PZ-150 | SMPZ-150-GW082410 | U-235/236 | Suspended | 0.012 | 0.016 | 0.0085 | 0.0085 |
| PZ-150 | SMPZ-150-GW082410 | U-235/236 | Total | 0.096 | NA | 0.025 | NA |
| PZ-150 | SMPZ-150-GW082410 | U-238 | Filtered | 1.09 | 0.039 | 0.087 | 0.016 |
| PZ-150 | SMPZ-150-GW082410 | U-238 | Suspended | 0.35 | 0.029 | 0.044 | 0.01 |
| PZ-150 | SMPZ-150-GW082410 | U-238 | Total | 1.44 | NA | 0.097 | NA |
| PZ-151 | SMPZ-151-GW090110 | H-3 | Filtered | -63 U | 150 | 44 | 74 |
| PZ-151 | SMPZ-151-GW090110 | H-3 | Suspended | -10.8 U R | 24 | 5.8 | 11 |
| PZ-151 | SMPZ-151-GW090110 | H-3 | Total | -74 R | NA | 44 | NA |
| PZ-160 | SMPZ-160-GW082410 | Ac-227 | Filtered | 6.5 | 4.8 | 1.6 | 2.2 |
| PZ-160 | SMPZ-160-GW082410 | Ac-227 | Suspended | -4.7 R U | 5 | 1.5 | 2.4 |
| PZ-160 | SMPZ-160-GW082410 | Ac-227 | Total | 1.8 | NA | 2.3 | NA |
| PZ-160 | SMPZ-160-GW082410 | Ac-228 | Filtered | -1.4 U | 6.4 | 2.6 | 3 |
| PZ-160 | SMPZ-160-GW082410 | Ac-228 | Suspended | 2.89 | 2.3 | 0.76 | 1.1 |
| PZ-160 | SMPZ-160-GW082410 | Ac-228 | Total | 1.5 | NA | 2.7 | NA |
| PZ-160 | SMPZ-160-GW082410 | Ag-108 | Filtered | -0.025 U R | 0.12 | 0.035 | 0.057 |
| PZ-160 | SMPZ-160-GW082410 | Ag-108 | Suspended | -0.013 U R | 0.043 | 0.013 | 0.021 |
| PZ-160 | SMPZ-160-GW082410 | Ag-108 | Total | -0.038 R | NA | 0.037 | NA |
| PZ-160 | SMPZ-160-GW082410 | Ag-108m | Filtered | -0.27 U R | 1.3 | 0.38 | 0.61 |
| PZ-160 | SMPZ-160-GW082410 | Ag-108m | Suspended | -0.14 U R | 0.47 | 0.14 | 0.22 |
| PZ-160 | SMPZ-160-GW082410 | Ag-108m | Total | -0.41 R | NA | 0.4 | NA |
| PZ-160 | SMPZ-160-GW082410 | Ba-133 | Filtered | -1.1 U R | 14 | 4.1 | 6.6 |
| PZ-160 | SMPZ-160-GW082410 | Ba-133 | Suspended | -1.2 U R | 6.4 | 1.9 | 3.1 |
| PZ-160 | SMPZ-160-GW082410 | Ba-133 | Total | -2.3 R | NA | 4.5 | NA |
| PZ-160 | SMPZ-160-GW082410 | Ba-137m | Filtered | 0.02 U | 1.3 | 0.37 | 0.61 |
| PZ-160 | SMPZ-160-GW082410 | Ba-137m | Suspended | 0.16 U | 0.62 | 0.18 | 0.29 |
| PZ-160 | SMPZ-160-GW082410 | Ba-137m | Total | 0.18 | NA | 0.41 | NA |
| PZ-160 | SMPZ-160-GW082410 | Bi-212 | Filtered | -0.04 U | 11 | 3.1 | 5.1 |
| PZ-160 | SMPZ-160-GW082410 | Bi-212 | Suspended | 0.07 U | 6.4 | 1.8 | 3.1 |
| PZ-160 | SMPZ-160-GW082410 | Bi-212 | Total | 0.04 | NA | 3.6 | NA |
| PZ-160 | SMPZ-160-GW082410 | Bi-214 | Filtered | 3 | 3.1 | 1 | 1.4 |
| PZ-160 | SMPZ-160-GW082410 | Bi-214 | Suspended | 1.25 | 1.7 | 0.67 | 0.82 |
| PZ-160 | SMPZ-160-GW082410 | Bi-214 | Total | 4.2 | NA | 1.2 | NA |
| PZ-160 | SMPZ-160-GW082410 | Cd-113m | Filtered | -4400 U | 17000 | 5000 | 8000 |
| PZ-160 | SMPZ-160-GW082410 | Cd-113m | Suspended | 900 U | 7100 | 2100 | 3400 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| PZ-160 | SMPZ-160-GW082410 | Cd-113m | Total | -3500 | NA | 5400 | NA |
| PZ-160 | SMPZ-160-GW082410 | Cf-249 | Filtered | 0.4 U R | 4.6 | 1.3 | 2.1 |
| PZ-160 | SMPZ-160-GW082410 | Cf-249 | Suspended | -0.16 U R | 3.1 | 0.92 | 1.5 |
| PZ-160 | SMPZ-160-GW082410 | Cf-249 | Total | 0.3 R | NA | 1.6 | NA |
| PZ-160 | SMPZ-160-GW082410 | Co-60 | Filtered | 0.11 U | 1.6 | 0.46 | 0.74 |
| PZ-160 | SMPZ-160-GW082410 | Co-60 | Suspended | -0.15 U | 0.83 | 0.24 | 0.39 |
| PZ-160 | SMPZ-160-GW082410 | Co-60 | Total | -0.04 | NA | 0.52 | NA |
| PZ-160 | SMPZ-160-GW082410 | Cs-134 | Filtered | -0.35 U | 1.5 | 0.43 | 0.69 |
| PZ-160 | SMPZ-160-GW082410 | Cs-134 | Suspended | -0.24 U | 0.93 | 0.28 | 0.45 |
| PZ-160 | SMPZ-160-GW082410 | Cs-134 | Total | -0.59 | NA | 0.51 | NA |
| PZ-160 | SMPZ-160-GW082410 | Cs-137 | Filtered | 0.02 U | 1.4 | 0.39 | 0.64 |
| PZ-160 | SMPZ-160-GW082410 | Cs-137 | Suspended | 0.17 U | 0.65 | 0.19 | 0.31 |
| PZ-160 | SMPZ-160-GW082410 | Cs-137 | Total | 0.19 | NA | 0.44 | NA |
| PZ-160 | SMPZ-160-GW082410 | Eu-152 | Filtered | -0.4 U | 3.8 | 1.1 | 1.8 |
| PZ-160 | SMPZ-160-GW082410 | Eu-152 | Suspended | 0.1 U | 1.5 | 0.43 | 0.7 |
| PZ-160 | SMPZ-160-GW082410 | Eu-152 | Total | -0.3 | NA | 1.2 | NA |
| PZ-160 | SMPZ-160-GW082410 | Eu-154 | Filtered | -0.07 U | 13 | 3.5 | 5.8 |
| PZ-160 | SMPZ-160-GW082410 | Eu-154 | Suspended | -0.9 U | 6 | 1.8 | 2.8 |
| PZ-160 | SMPZ-160-GW082410 | Eu-154 | Total | -1 | NA | 3.9 | NA |
| PZ-160 | SMPZ-160-GW082410 | Eu-155 | Filtered | 0.4 U | 3.2 | 0.95 | 1.6 |
| PZ-160 | SMPZ-160-GW082410 | Eu-155 | Suspended | 0.24 U | 1.2 | 0.35 | 0.56 |
| PZ-160 | SMPZ-160-GW082410 | Eu-155 | Total | 0.6 | NA | 1 | NA |
| PZ-160 | SMPZ-160-GW082410 | gross_alpha | Filtered | 16.8 | 0.6 | 1 | 0.3 |
| PZ-160 | SMPZ-160-GW082410 | gross_alpha | Suspended | 5.49 | 0.64 | 0.6 | 0.32 |
| PZ-160 | SMPZ-160-GW082410 | gross_alpha | Total | 22.3 | NA | 1.2 | NA |
| PZ-160 | SMPZ-160-GW082410 | gross_beta | Filtered | 20 | 5.8 | 2.6 | 3.4 |
| PZ-160 | SMPZ-160-GW082410 | gross_beta | Suspended | 27.7 | 0.8 | 1.3 | 0.5 |
| PZ-160 | SMPZ-160-GW082410 | gross_beta | Total | 47.7 | NA | 2.9 | NA |
| PZ-160 | SMPZ-160-GW082410 | H-3 | Filtered | -36 U | 140 | 41 | 68 |
| PZ-160 | SMPZ-160-GW082410 | H-3 | Suspended | 10 | 14 | 4.7 | 6.2 |
| PZ-160 | SMPZ-160-GW082410 | H-3 | Total | -27 | NA | 41 | NA |
| PZ-160 | SMPZ-160-GW082410 | Ho-166m | Filtered | 0.15 U | 2.2 | 0.61 | 1 |
| PZ-160 | SMPZ-160-GW082410 | Ho-166m | Suspended | -0.12 U | 1.1 | 0.33 | 0.54 |
| PZ-160 | SMPZ-160-GW082410 | Ho-166m | Total | 0.03 | NA | 0.69 | NA |
| PZ-160 | SMPZ-160-GW082410 | K-40 | Filtered | 20.5 | 21 | 7.2 | 9.5 |
| PZ-160 | SMPZ-160-GW082410 | K-40 | Suspended | 8.2 | 9.7 | 3.4 | 4.6 |
| PZ-160 | SMPZ-160-GW082410 | K-40 | Total | 28.7 | NA | 8 | NA |
| PZ-160 | SMPZ-160-GW082410 | Na-22 | Filtered | -0.17 U | 1.8 | 0.49 | 0.79 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-160 | SMPZ-160-GW082410 | Na-22 | Suspended | -0.18 U | 0.91 | 0.27 | 0.43 |
| PZ-160 | SMPZ-160-GW082410 | Na-22 | Total | -0.35 | NA | 0.56 | NA |
| PZ-160 | SMPZ-160-GW082410 | Nb-94 | Filtered | 0.45 U | 1.2 | 0.37 | 0.57 |
| PZ-160 | SMPZ-160-GW082410 | Nb-94 | Suspended | 0.08 U | 0.67 | 0.2 | 0.32 |
| PZ-160 | SMPZ-160-GW082410 | Nb-94 | Total | 0.54 | NA | 0.42 | NA |
| PZ-160 | SMPZ-160-GW082410 | Np-236 | Filtered | 0.53 U | 2.5 | 0.73 | 1.2 |
| PZ-160 | SMPZ-160-GW082410 | Np-236 | Suspended | 0.13 U | 1.2 | 0.35 | 0.57 |
| PZ-160 | SMPZ-160-GW082410 | Np-236 | Total | 0.66 | NA | 0.81 | NA |
| PZ-160 | SMPZ-160-GW082410 | Np-239 | Filtered | 2.4 U | 8.5 | 2.5 | 4.1 |
| PZ-160 | SMPZ-160-GW082410 | Np-239 | Suspended | -0.2 U | 3.7 | 1.1 | 1.8 |
| PZ-160 | SMPZ-160-GW082410 | Np-239 | Total | 2.2 | NA | 2.8 | NA |
| PZ-160 | SMPZ-160-GW082410 | Pa-231 | Filtered | 27 | 53 | 16 | 25 |
| PZ-160 | SMPZ-160-GW082410 | Pa-231 | Suspended | -0.3 U | 26 | 7.6 | 12 |
| PZ-160 | SMPZ-160-GW082410 | Pa-231 | Total | 27 | NA | 18 | NA |
| PZ-160 | SMPZ-160-GW082410 | Pb-212 | Filtered | 1.25 | 2.6 | 0.79 | 1.2 |
| PZ-160 | SMPZ-160-GW082410 | Pb-212 | Suspended | 0.51 U | 1.1 | 0.35 | 0.55 |
| PZ-160 | SMPZ-160-GW082410 | Pb-212 | Total | 1.76 | NA | 0.86 | NA |
| PZ-160 | SMPZ-160-GW082410 | Pb-214 | Filtered | 2.3 | 3.3 | 1.3 | 1.6 |
| PZ-160 | SMPZ-160-GW082410 | Pb-214 | Suspended | 1.78 | 1.4 | 0.55 | 0.69 |
| PZ-160 | SMPZ-160-GW082410 | Pb-214 | Total | 4.1 | NA | 1.4 | NA |
| PZ-160 | SMPZ-160-GW082410 | Sb-125 | Filtered | -0.4 U | 10 | 3 | 5 |
| PZ-160 | SMPZ-160-GW082410 | Sb-125 | Suspended | 1 U | 5.7 | 1.7 | 2.8 |
| PZ-160 | SMPZ-160-GW082410 | Sb-125 | Total | 0.6 | NA | 3.5 | NA |
| PZ-160 | SMPZ-160-GW082410 | Sn-126 | Filtered | 0.52 U | 1.6 | 0.47 | 0.75 |
| PZ-160 | SMPZ-160-GW082410 | Sn-126 | Suspended | 0.23 U | 0.75 | 0.22 | 0.36 |
| PZ-160 | SMPZ-160-GW082410 | Sn-126 | Total | 0.74 | NA | 0.52 | NA |
| PZ-160 | SMPZ-160-GW082410 | Sr-90 | Filtered | 0.004 U | 0.2 | 0.055 | 0.12 |
| PZ-160 | SMPZ-160-GW082410 | Sr-90 | Suspended | 0.074 U | 0.16 | 0.047 | 0.092 |
| PZ-160 | SMPZ-160-GW082410 | Sr-90 | Total | 0.078 | NA | 0.073 | NA |
| PZ-160 | SMPZ-160-GW082410 | Te-125m | Filtered | -0.09 U | 2.4 | 0.7 | 1.2 |
| PZ-160 | SMPZ-160-GW082410 | Te-125m | Suspended | 0.23 U | 1.3 | 0.39 | 0.64 |
| PZ-160 | SMPZ-160-GW082410 | Te-125m | Total | 0.14 | NA | 0.81 | NA |
| PZ-160 | SMPZ-160-GW082410 | Th-231 | Filtered | 0.365 | 0.018 | 0.052 | 0.009 |
| PZ-160 | SMPZ-160-GW082410 | Th-231 | Suspended | 0.024 | 0.016 | 0.012 | 0.009 |
| PZ-160 | SMPZ-160-GW082410 | Th-231 | Total | 0.389 | NA | 0.053 | NA |
| PZ-160 | SMPZ-160-GW082410 | Th-234 | Filtered | 11.3 | 21 | 6.4 | 10 |
| PZ-160 | SMPZ-160-GW082410 | Th-234 | Suspended | 1.1 U | 7.2 | 2.3 | 3.5 |
| PZ-160 | SMPZ-160-GW082410 | Th-234 | Total | 12.3 | NA | 6.7 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| PZ-160 | SMPZ-160-GW082410 | Tl-208 | Filtered | 1.17 | 1.6 | 0.5 | 0.73 |
| PZ-160 | SMPZ-160-GW082410 | Tl-208 | Suspended | -0.08 U | 0.93 | 0.29 | 0.45 |
| PZ-160 | SMPZ-160-GW082410 | Tl-208 | Total | 1.09 | NA | 0.58 | NA |
| PZ-160 | SMPZ-160-GW082410 | Tm-171 | Filtered | 100 U | 340 | 100 | 160 |
| PZ-160 | SMPZ-160-GW082410 | Tm-171 | Suspended | 36 U | 120 | 36 | 58 |
| PZ-160 | SMPZ-160-GW082410 | Tm-171 | Total | 140 | NA | 110 | NA |
| PZ-160 | SMPZ-160-GW082410 | U-233/234 | Filtered | 8.7 | 0.03 | 0.42 | 0.008 |
| PZ-160 | SMPZ-160-GW082410 | U-233/234 | Suspended | 0.267 | 0.024 | 0.038 | 0.007 |
| PZ-160 | SMPZ-160-GW082410 | U-233/234 | Total | 8.97 | NA | 0.43 | NA |
| PZ-160 | SMPZ-160-GW082410 | U-235/236 | Filtered | 0.365 | 0.018 | 0.052 | 0.009 |
| PZ-160 | SMPZ-160-GW082410 | U-235/236 | Suspended | 0.024 | 0.016 | 0.012 | 0.009 |
| PZ-160 | SMPZ-160-GW082410 | U-235/236 | Total | 0.389 | NA | 0.053 | NA |
| PZ-160 | SMPZ-160-GW082410 | U-238 | Filtered | 8.6 | 0.01 | 0.42 | 0.008 |
| PZ-160 | SMPZ-160-GW082410 | U-238 | Suspended | 0.233 | 0.013 | 0.035 | 0.007 |
| PZ-160 | SMPZ-160-GW082410 | U-238 | Total | 8.83 | NA | 0.42 | NA |
| PZ-161 | SMPZ-161-GW082510 | Ac-227 | Filtered | -0.2 U | 8 | 2.4 | 3.9 |
| PZ-161 | SMPZ-161-GW082510 | Ac-227 | Suspended | -2.4 U | 4.8 | 1.4 | 2.3 |
| PZ-161 | SMPZ-161-GW082510 | Ac-227 | Total | -2.6 | NA | 2.8 | NA |
| PZ-161 | SMPZ-161-GW082510 | Ac-228 | Filtered | 2.2 U | 5 | 1.5 | 2.3 |
| PZ-161 | SMPZ-161-GW082510 | Ac-228 | Suspended | -1.1 U | 2.9 | 1.3 | 1.4 |
| PZ-161 | SMPZ-161-GW082510 | Ac-228 | Total | 1.1 | NA | 2 | NA |
| PZ-161 | SMPZ-161-GW082510 | Ag-108 | Filtered | -0.01 U R | 0.11 | 0.033 | 0.054 |
| PZ-161 | SMPZ-161-GW082510 | Ag-108 | Suspended | 0.013 U R | 0.047 | 0.014 | 0.022 |
| PZ-161 | SMPZ-161-GW082510 | Ag-108 | Total | 0.003 R | NA | 0.036 | NA |
| PZ-161 | SMPZ-161-GW082510 | Ag-108m | Filtered | -0.11 U R | 1.2 | 0.36 | 0.58 |
| PZ-161 | SMPZ-161-GW082510 | Ag-108m | Suspended | 0.14 U R | 0.5 | 0.15 | 0.24 |
| PZ-161 | SMPZ-161-GW082510 | Ag-108m | Total | 0.03 R | NA | 0.39 | NA |
| PZ-161 | SMPZ-161-GW082510 | Ba-133 | Filtered | -0.05 U R | 13 | 3.9 | 6.4 |
| PZ-161 | SMPZ-161-GW082510 | Ba-133 | Suspended | 0 U R | 6.8 | 2 | 3.3 |
| PZ-161 | SMPZ-161-GW082510 | Ba-133 | Total | -0.05 R | NA | 4.4 | NA |
| PZ-161 | SMPZ-161-GW082510 | Ba-137m | Filtered | 0.17 U | 1.4 | 0.4 | 0.64 |
| PZ-161 | SMPZ-161-GW082510 | Ba-137m | Suspended | 0.1 U | 0.66 | 0.2 | 0.32 |
| PZ-161 | SMPZ-161-GW082510 | Ba-137m | Total | 0.27 | NA | 0.44 | NA |
| PZ-161 | SMPZ-161-GW082510 | Bi-212 | Filtered | -0.5 U | 11 | 3 | 4.8 |
| PZ-161 | SMPZ-161-GW082510 | Bi-212 | Suspended | 2.8 U | 6.6 | 2 | 3.1 |
| PZ-161 | SMPZ-161-GW082510 | Bi-212 | Total | 2.3 | NA | 3.6 | NA |
| PZ-161 | SMPZ-161-GW082510 | Bi-214 | Filtered | -0.3 U | 3 | 1.2 | 1.4 |
| PZ-161 | SMPZ-161-GW082510 | Bi-214 | Suspended | 0.61 U | 1.6 | 0.55 | 0.78 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-161 | SMPZ-161-GW082510 | Bi-214 | Total | 0.3 | NA | 1.3 | NA |
| PZ-161 | SMPZ-161-GW082510 | Cd-113m | Filtered | -6500 U | 16000 | 4800 | 7600 |
| PZ-161 | SMPZ-161-GW082510 | Cd-113m | Suspended | 700 U | 7200 | 2100 | 3500 |
| PZ-161 | SMPZ-161-GW082510 | Cd-113m | Total | -5800 | NA | 5300 | NA |
| PZ-161 | SMPZ-161-GW082510 | Cf-249 | Filtered | 1.3 U R | 6.1 | 1.8 | 2.9 |
| PZ-161 | SMPZ-161-GW082510 | Cf-249 | Suspended | -0.19 U R | 3 | 0.88 | 1.4 |
| PZ-161 | SMPZ-161-GW082510 | Cf-249 | Total | 1.1 R | NA | 2 | NA |
| PZ-161 | SMPZ-161-GW082510 | Co-60 | Filtered | 0.004 U | 1.5 | 0.4 | 0.67 |
| PZ-161 | SMPZ-161-GW082510 | Co-60 | Suspended | 0.37 | 0.7 | 0.21 | 0.32 |
| PZ-161 | SMPZ-161-GW082510 | Co-60 | Total | 0.37 | NA | 0.46 | NA |
| PZ-161 | SMPZ-161-GW082510 | Cs-134 | Filtered | -0.3 U | 1.6 | 0.48 | 0.77 |
| PZ-161 | SMPZ-161-GW082510 | Cs-134 | Suspended | 0.02 U | 1 | 0.3 | 0.49 |
| PZ-161 | SMPZ-161-GW082510 | Cs-134 | Total | -0.28 | NA | 0.56 | NA |
| PZ-161 | SMPZ-161-GW082510 | Cs-137 | Filtered | 0.18 U | 1.5 | 0.42 | 0.68 |
| PZ-161 | SMPZ-161-GW082510 | Cs-137 | Suspended | 0.1 U | 0.7 | 0.21 | 0.34 |
| PZ-161 | SMPZ-161-GW082510 | Cs-137 | Total | 0.28 | NA | 0.47 | NA |
| PZ-161 | SMPZ-161-GW082510 | Eu-152 | Filtered | 0.7 U | 3.4 | 1 | 1.6 |
| PZ-161 | SMPZ-161-GW082510 | Eu-152 | Suspended | 0.04 U | 1.7 | 0.51 | 0.84 |
| PZ-161 | SMPZ-161-GW082510 | Eu-152 | Total | 0.7 | NA | 1.1 | NA |
| PZ-161 | SMPZ-161-GW082510 | Eu-154 | Filtered | -2.1 U | 12 | 3.6 | 5.8 |
| PZ-161 | SMPZ-161-GW082510 | Eu-154 | Suspended | 0.1 U | 6.3 | 1.8 | 3 |
| PZ-161 | SMPZ-161-GW082510 | Eu-154 | Total | -2 | NA | 4 | NA |
| PZ-161 | SMPZ-161-GW082510 | Eu-155 | Filtered | 0.11 U | 3.3 | 0.98 | 1.6 |
| PZ-161 | SMPZ-161-GW082510 | Eu-155 | Suspended | 0.03 U | 1.1 | 0.33 | 0.54 |
| PZ-161 | SMPZ-161-GW082510 | Eu-155 | Total | 0.1 | NA | 1 | NA |
| PZ-161 | SMPZ-161-GW082510 | gross_alpha | Filtered | 12.3 | 0.59 | 0.86 | 0.31 |
| PZ-161 | SMPZ-161-GW082510 | gross_alpha | Suspended | -0.38 U | 1 | 0.21 | 0.55 |
| PZ-161 | SMPZ-161-GW082510 | gross_alpha | Total | 11.9 | NA | 0.88 | NA |
| PZ-161 | SMPZ-161-GW082510 | gross_beta | Filtered | 13 | 6.8 | 2.6 | 4 |
| PZ-161 | SMPZ-161-GW082510 | gross_beta | Suspended | 0.47 | 0.73 | 0.23 | 0.43 |
| PZ-161 | SMPZ-161-GW082510 | gross_beta | Total | 13.5 | NA | 2.6 | NA |
| PZ-161 | SMPZ-161-GW082510 | H-3 | Filtered | -34 U | 140 | 42 | 69 |
| PZ-161 | SMPZ-161-GW082510 | H-3 | Suspended | 10.4 | 16 | 5.1 | 6.9 |
| PZ-161 | SMPZ-161-GW082510 | H-3 | Total | -23 | NA | 42 | NA |
| PZ-161 | SMPZ-161-GW082510 | Ho-166m | Filtered | 0.03 U | 2.1 | 0.59 | 0.96 |
| PZ-161 | SMPZ-161-GW082510 | Ho-166m | Suspended | 0.35 U | 1.2 | 0.35 | 0.55 |
| PZ-161 | SMPZ-161-GW082510 | Ho-166m | Total | 0.38 | NA | 0.68 | NA |
| PZ-161 | SMPZ-161-GW082510 | K-40 | Filtered | 10.8 | 19 | 5.8 | 8.9 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-161 | SMPZ-161-GW082510 | K-40 | Suspended | -2.1 U | 13 | 4.4 | 6.1 |
| PZ-161 | SMPZ-161-GW082510 | K-40 | Total | 8.7 | NA | 7.3 | NA |
| PZ-161 | SMPZ-161-GW082510 | Na-22 | Filtered | 0.05 U | 1.6 | 0.45 | 0.73 |
| PZ-161 | SMPZ-161-GW082510 | Na-22 | Suspended | -0.15 U | 0.81 | 0.24 | 0.38 |
| PZ-161 | SMPZ-161-GW082510 | Na-22 | Total | -0.1 | NA | 0.51 | NA |
| PZ-161 | SMPZ-161-GW082510 | Nb-94 | Filtered | -0.32 U | 1.3 | 0.39 | 0.63 |
| PZ-161 | SMPZ-161-GW082510 | Nb-94 | Suspended | -0.04 U | 0.55 | 0.16 | 0.26 |
| PZ-161 | SMPZ-161-GW082510 | Nb-94 | Total | -0.36 | NA | 0.43 | NA |
| PZ-161 | SMPZ-161-GW082510 | Np-236 | Filtered | 0.36 U | 2.6 | 0.78 | 1.3 |
| PZ-161 | SMPZ-161-GW082510 | Np-236 | Suspended | 0.003 U | 1.1 | 0.33 | 0.55 |
| PZ-161 | SMPZ-161-GW082510 | Np-236 | Total | 0.36 | NA | 0.85 | NA |
| PZ-161 | SMPZ-161-GW082510 | Np-239 | Filtered | 1.2 U | 8.4 | 2.5 | 4 |
| PZ-161 | SMPZ-161-GW082510 | Np-239 | Suspended | 0.6 U | 3.7 | 1.1 | 1.8 |
| PZ-161 | SMPZ-161-GW082510 | Np-239 | Total | 1.7 | NA | 2.7 | NA |
| PZ-161 | SMPZ-161-GW082510 | Pa-231 | Filtered | -1 U | 58 | 17 | 28 |
| PZ-161 | SMPZ-161-GW082510 | Pa-231 | Suspended | 0 U | 28 | 8.1 | 13 |
| PZ-161 | SMPZ-161-GW082510 | Pa-231 | Total | -1 | NA | 19 | NA |
| PZ-161 | SMPZ-161-GW082510 | Pb-212 | Filtered | 1.5 | 2.6 | 1 | 1.3 |
| PZ-161 | SMPZ-161-GW082510 | Pb-212 | Suspended | 0.19 U | 1.3 | 0.47 | 0.65 |
| PZ-161 | SMPZ-161-GW082510 | Pb-212 | Total | 1.7 | NA | 1.1 | NA |
| PZ-161 | SMPZ-161-GW082510 | Pb-214 | Filtered | 0.04 U | 3.1 | 0.85 | 1.5 |
| PZ-161 | SMPZ-161-GW082510 | Pb-214 | Suspended | 0.6 U | 1.4 | 0.46 | 0.66 |
| PZ-161 | SMPZ-161-GW082510 | Pb-214 | Total | 0.64 | NA | 0.96 | NA |
| PZ-161 | SMPZ-161-GW082510 | Sb-125 | Filtered | -1.2 U | 13 | 4 | 6.5 |
| PZ-161 | SMPZ-161-GW082510 | Sb-125 | Suspended | 0.009 U | 6.5 | 1.9 | 3.2 |
| PZ-161 | SMPZ-161-GW082510 | Sb-125 | Total | -1.2 | NA | 4.4 | NA |
| PZ-161 | SMPZ-161-GW082510 | Sn-126 | Filtered | 0 U | 1.9 | 0.55 | 0.9 |
| PZ-161 | SMPZ-161-GW082510 | Sn-126 | Suspended | 0.27 U | 0.74 | 0.22 | 0.35 |
| PZ-161 | SMPZ-161-GW082510 | Sn-126 | Total | 0.27 | NA | 0.59 | NA |
| PZ-161 | SMPZ-161-GW082510 | Sr-90 | Filtered | -0.085 U | 0.17 | 0.043 | 0.1 |
| PZ-161 | SMPZ-161-GW082510 | Sr-90 | Suspended | -0.074 L U | 0.14 | 0.036 | 0.085 |
| PZ-161 | SMPZ-161-GW082510 | Sr-90 | Total | -0.159 L | NA | 0.056 | NA |
| PZ-161 | SMPZ-161-GW082510 | Te-125m | Filtered | -0.27 U | 3.1 | 0.92 | 1.5 |
| PZ-161 | SMPZ-161-GW082510 | Te-125m | Suspended | 0.002 U | 1.5 | 0.44 | 0.73 |
| PZ-161 | SMPZ-161-GW082510 | Te-125m | Total | -0.3 | NA | 1 | NA |
| PZ-161 | SMPZ-161-GW082510 | Th-231 | Filtered | 0.358 | 0.044 | 0.054 | 0.015 |
| PZ-161 | SMPZ-161-GW082510 | Th-231 | Suspended | 0.0126 | 0.017 | 0.0089 | 0.0089 |
| PZ-161 | SMPZ-161-GW082510 | Th-231 | Total | 0.37 | NA | 0.054 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| PZ-161 | SMPZ-161-GW082510 | Th-234 | Filtered | 12 | 25 | 9.1 | 12 |
| PZ-161 | SMPZ-161-GW082510 | Th-234 | Suspended | -1.7 U | 8.1 | 2.5 | 3.9 |
| PZ-161 | SMPZ-161-GW082510 | Th-234 | Total | 10.3 | NA | 9.5 | NA |
| PZ-161 | SMPZ-161-GW082510 | Tl-208 | Filtered | 1.34 | 1.6 | 0.62 | 0.74 |
| PZ-161 | SMPZ-161-GW082510 | Tl-208 | Suspended | 0.19 U | 0.85 | 0.29 | 0.41 |
| PZ-161 | SMPZ-161-GW082510 | Tl-208 | Total | 1.52 | NA | 0.68 | NA |
| PZ-161 | SMPZ-161-GW082510 | Tm-171 | Filtered | 60 U | 350 | 100 | 170 |
| PZ-161 | SMPZ-161-GW082510 | Tm-171 | Suspended | 10 U | 100 | 30 | 50 |
| PZ-161 | SMPZ-161-GW082510 | Tm-171 | Total | 70 | NA | 110 | NA |
| PZ-161 | SMPZ-161-GW082510 | U-233/234 | Filtered | 8.53 | 0.03 | 0.42 | 0.008 |
| PZ-161 | SMPZ-161-GW082510 | U-233/234 | Suspended | 0.01 U | 0.034 | 0.012 | 0.012 |
| PZ-161 | SMPZ-161-GW082510 | U-233/234 | Total | 8.54 | NA | 0.42 | NA |
| PZ-161 | SMPZ-161-GW082510 | U-235/236 | Filtered | 0.358 | 0.044 | 0.054 | 0.015 |
| PZ-161 | SMPZ-161-GW082510 | U-235/236 | Suspended | 0.0126 | 0.017 | 0.0089 | 0.0089 |
| PZ-161 | SMPZ-161-GW082510 | U-235/236 | Total | 0.37 | NA | 0.054 | NA |
| PZ-161 | SMPZ-161-GW082510 | U-238 | Filtered | 7.22 | 0.04 | 0.37 | 0.01 |
| PZ-161 | SMPZ-161-GW082510 | U-238 | Suspended | -0.003 U | 0.034 | 0.0078 | 0.012 |
| PZ-161 | SMPZ-161-GW082510 | U-238 | Total | 7.22 | NA | 0.37 | NA |
| RD-07 | SMRD-07-GW090110 | Ac-227 | Filtered | -2.6 U | 10 | 3 | 4.9 |
| RD-07 | SMRD-07-GW090110 | Ac-227 | Suspended | -0.9 U | 4.1 | 1.2 | 2 |
| RD-07 | SMRD-07-GW090110 | Ac-227 | Total | -3.5 | NA | 3.2 | NA |
| RD-07 | SMRD-07-GW090110 | Ac-228 | Filtered | 2.9 | 5.3 | 1.6 | 2.5 |
| RD-07 | SMRD-07-GW090110 | Ac-228 | Suspended | 1.82 B | 2.4 | 0.75 | 1.1 |
| RD-07 | SMRD-07-GW090110 | Ac-228 | Total | 4.7 | NA | 1.8 | NA |
| RD-07 | SMRD-07-GW090110 | Ag-108 | Filtered | 0.016 U R | 0.13 | 0.037 | 0.06 |
| RD-07 | SMRD-07-GW090110 | Ag-108 | Suspended | 0.02 U R | 0.046 | 0.014 | 0.022 |
| RD-07 | SMRD-07-GW090110 | Ag-108 | Total | 0.036 R | NA | 0.039 | NA |
| RD-07 | SMRD-07-GW090110 | Ag-108m | Filtered | 0.17 U R | 1.3 | 0.39 | 0.64 |
| RD-07 | SMRD-07-GW090110 | Ag-108m | Suspended | 0.22 U R | 0.49 | 0.15 | 0.24 |
| RD-07 | SMRD-07-GW090110 | Ag-108m | Total | 0.39 R | NA | 0.42 | NA |
| RD-07 | SMRD-07-GW090110 | Ba-133 | Filtered | -4.2 U R | 15 | 4.4 | 7 |
| RD-07 | SMRD-07-GW090110 | Ba-133 | Suspended | -1.4 U R | 6.1 | 1.8 | 2.9 |
| RD-07 | SMRD-07-GW090110 | Ba-133 | Total | -5.6 R | NA | 4.7 | NA |
| RD-07 | SMRD-07-GW090110 | Ba-137m | Filtered | 0.58 | 1.2 | 0.37 | 0.56 |
| RD-07 | SMRD-07-GW090110 | Ba-137m | Suspended | -0.09 U | 0.69 | 0.2 | 0.33 |
| RD-07 | SMRD-07-GW090110 | Ba-137m | Total | 0.49 | NA | 0.42 | NA |
| RD-07 | SMRD-07-GW090110 | Bi-212 | Filtered | 3.2 U | 13 | 3.7 | 5.9 |
| RD-07 | SMRD-07-GW090110 | Bi-212 | Suspended | 1.9 U | 6.1 | 1.8 | 2.9 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-07 | SMRD-07-GW090110 | Bi-212 | Total | 5.1 | NA | 4.2 | NA |
| RD-07 | SMRD-07-GW090110 | Bi-214 | Filtered | 2.2 | 3.4 | 1.1 | 1.6 |
| RD-07 | SMRD-07-GW090110 | Bi-214 | Suspended | -0.34 U | 1.7 | 0.8 | 0.84 |
| RD-07 | SMRD-07-GW090110 | Bi-214 | Total | 1.8 | NA | 1.4 | NA |
| RD-07 | SMRD-07-GW090110 | Cd-113m | Filtered | -3200 U | 17000 | 5100 | 8200 |
| RD-07 | SMRD-07-GW090110 | Cd-113m | Suspended | 1600 U | 7300 | 2200 | 3600 |
| RD-07 | SMRD-07-GW090110 | Cd-113m | Total | -1600 | NA | 5500 | NA |
| RD-07 | SMRD-07-GW090110 | Cf-249 | Filtered | -0.2 U R | 7.1 | 2.1 | 3.4 |
| RD-07 | SMRD-07-GW090110 | Cf-249 | Suspended | -1.09 U R | 3.2 | 0.97 | 1.6 |
| RD-07 | SMRD-07-GW090110 | Cf-249 | Total | -1.3 R | NA | 2.3 | NA |
| RD-07 | SMRD-07-GW090110 | Co-60 | Filtered | 0.22 U | 1.7 | 0.47 | 0.75 |
| RD-07 | SMRD-07-GW090110 | Co-60 | Suspended | -0.01 U | 0.77 | 0.22 | 0.35 |
| RD-07 | SMRD-07-GW090110 | Co-60 | Total | 0.2 | NA | 0.52 | NA |
| RD-07 | SMRD-07-GW090110 | Cs-134 | Filtered | -0.34 U | 1.8 | 0.52 | 0.83 |
| RD-07 | SMRD-07-GW090110 | Cs-134 | Suspended | 0.13 U | 0.89 | 0.26 | 0.43 |
| RD-07 | SMRD-07-GW090110 | Cs-134 | Total | -0.22 SK | NA | 0.58 | NA |
| RD-07 | SMRD-07-GW090110 | Cs-137 | Filtered | 0.61 | 1.3 | 0.39 | 0.6 |
| RD-07 | SMRD-07-GW090110 | Cs-137 | Suspended | -0.09 U | 0.73 | 0.21 | 0.35 |
| RD-07 | SMRD-07-GW090110 | Cs-137 | Total | 0.52 | NA | 0.45 | NA |
| RD-07 | SMRD-07-GW090110 | Eu-152 | Filtered | 0.8 U | 3.5 | 1 | 1.7 |
| RD-07 | SMRD-07-GW090110 | Eu-152 | Suspended | 0.36 U | 1.8 | 0.55 | 0.89 |
| RD-07 | SMRD-07-GW090110 | Eu-152 | Total | 1.1 | NA | 1.2 | NA |
| RD-07 | SMRD-07-GW090110 | Eu-154 | Filtered | 1.8 U | 12 | 3.6 | 5.7 |
| RD-07 | SMRD-07-GW090110 | Eu-154 | Suspended | -1.1 U | 6.3 | 1.8 | 3 |
| RD-07 | SMRD-07-GW090110 | Eu-154 | Total | 0.7 | NA | 4 | NA |
| RD-07 | SMRD-07-GW090110 | Eu-155 | Filtered | 0.4 U | 3.5 | 1 | 1.7 |
| RD-07 | SMRD-07-GW090110 | Eu-155 | Suspended | 0.22 U | 1.2 | 0.36 | 0.58 |
| RD-07 | SMRD-07-GW090110 | Eu-155 | Total | 0.6 SK | NA | 1.1 | NA |
| RD-07 | SMRD-07-GW090110 | gross_alpha | Filtered | 19.6 | 0.5 | 1.1 | 0.3 |
| RD-07 | SMRD-07-GW090110 | gross_alpha | Suspended | 0.27 U | 0.6 | 0.18 | 0.31 |
| RD-07 | SMRD-07-GW090110 | gross_alpha | Total | 19.8 | NA | 1.1 | NA |
| RD-07 | SMRD-07-GW090110 | gross_beta | Filtered | 12 | 2.4 | 1.2 | 1.4 |
| RD-07 | SMRD-07-GW090110 | gross_beta | Suspended | -0.12 U | 0.78 | 0.21 | 0.47 |
| RD-07 | SMRD-07-GW090110 | gross_beta | Total | 11.9 | NA | 1.3 | NA |
| RD-07 | SMRD-07-GW090110 | H-3 | Filtered | -45 U | 140 | 40 | 67 |
| RD-07 | SMRD-07-GW090110 | H-3 | Suspended | -18.1 R U | 25 | 5.6 | 11 |
| RD-07 | SMRD-07-GW090110 | H-3 | Total | -63 R | NA | 40 | NA |
| RD-07 | SMRD-07-GW090110 | Ho-166m | Filtered | 0.04 U | 1.9 | 0.54 | 0.89 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-07 | SMRD-07-GW090110 | Ho-166m | Suspended | 0.2 U | 1.1 | 0.31 | 0.51 |
| RD-07 | SMRD-07-GW090110 | Ho-166m | Total | 0.25 SK | NA | 0.63 | NA |
| RD-07 | SMRD-07-GW090110 | K-40 | Filtered | -13 U | 25 | 14 | 12 |
| RD-07 | SMRD-07-GW090110 | K-40 | Suspended | -6.2 U | 11 | 6 | 5.3 |
| RD-07 | SMRD-07-GW090110 | K-40 | Total | -19 | NA | 16 | NA |
| RD-07 | SMRD-07-GW090110 | Na-22 | Filtered | 0.1 U | 1.2 | 0.32 | 0.51 |
| RD-07 | SMRD-07-GW090110 | Na-22 | Suspended | 0.09 U | 0.68 | 0.19 | 0.31 |
| RD-07 | SMRD-07-GW090110 | Na-22 | Total | 0.2 | NA | 0.38 | NA |
| RD-07 | SMRD-07-GW090110 | Nb-94 | Filtered | 0.44 U | 1.2 | 0.37 | 0.57 |
| RD-07 | SMRD-07-GW090110 | Nb-94 | Suspended | 0.18 U | 0.62 | 0.19 | 0.3 |
| RD-07 | SMRD-07-GW090110 | Nb-94 | Total | 0.62 | NA | 0.41 | NA |
| RD-07 | SMRD-07-GW090110 | Np-236 | Filtered | -0.64 U | 3 | 0.91 | 1.5 |
| RD-07 | SMRD-07-GW090110 | Np-236 | Suspended | -0.12 U | 1.2 | 0.37 | 0.61 |
| RD-07 | SMRD-07-GW090110 | Np-236 | Total | -0.75 SK | NA | 0.98 | NA |
| RD-07 | SMRD-07-GW090110 | Np-239 | Filtered | 1.4 U | 8.4 | 2.5 | 4 |
| RD-07 | SMRD-07-GW090110 | Np-239 | Suspended | 0.9 U | 3.8 | 1.1 | 1.8 |
| RD-07 | SMRD-07-GW090110 | Np-239 | Total | 2.3 | NA | 2.7 | NA |
| RD-07 | SMRD-07-GW090110 | Pa-231 | Filtered | 4 U | 63 | 19 | 30 |
| RD-07 | SMRD-07-GW090110 | Pa-231 | Suspended | 0 U | 28 | 8.2 | 14 |
| RD-07 | SMRD-07-GW090110 | Pa-231 | Total | 4 | NA | 20 | NA |
| RD-07 | SMRD-07-GW090110 | Pb-212 | Filtered | -0.1 U | 3 | 1 | 1.4 |
| RD-07 | SMRD-07-GW090110 | Pb-212 | Suspended | 0.11 U | 1.2 | 0.35 | 0.57 |
| RD-07 | SMRD-07-GW090110 | Pb-212 | Total | 0 | NA | 1.1 | NA |
| RD-07 | SMRD-07-GW090110 | Pb-214 | Filtered | 1.4 U | 3.4 | 1.2 | 1.6 |
| RD-07 | SMRD-07-GW090110 | Pb-214 | Suspended | -0.34 U | 1.5 | 0.67 | 0.71 |
| RD-07 | SMRD-07-GW090110 | Pb-214 | Total | 1 | NA | 1.4 | NA |
| RD-07 | SMRD-07-GW090110 | Sb-125 | Filtered | 4.2 U | 14 | 4.2 | 6.7 |
| RD-07 | SMRD-07-GW090110 | Sb-125 | Suspended | 1.2 U | 6.3 | 1.9 | 3 |
| RD-07 | SMRD-07-GW090110 | Sb-125 | Total | 5.4 SK | NA | 4.6 | NA |
| RD-07 | SMRD-07-GW090110 | Sn-126 | Filtered | -0.1 U | 1.5 | 0.41 | 0.67 |
| RD-07 | SMRD-07-GW090110 | Sn-126 | Suspended | 0.15 U | 0.8 | 0.24 | 0.38 |
| RD-07 | SMRD-07-GW090110 | Sn-126 | Total | 0.05 | NA | 0.48 | NA |
| RD-07 | SMRD-07-GW090110 | Sr-90 | Filtered | 0.088 U | 0.19 | 0.059 | 0.11 |
| RD-07 | SMRD-07-GW090110 | Sr-90 | Suspended | 0.09 | 0.12 | 0.037 | 0.066 |
| RD-07 | SMRD-07-GW090110 | Sr-90 | Total | 0.178 | NA | 0.069 | NA |
| RD-07 | SMRD-07-GW090110 | Te-125m | Filtered | 0.97 U | 3.2 | 0.96 | 1.5 |
| RD-07 | SMRD-07-GW090110 | Te-125m | Suspended | 0.27 U | 1.4 | 0.43 | 0.7 |
| RD-07 | SMRD-07-GW090110 | Te-125m | Total | 1.2 SK | NA | 1.1 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-07 | SMRD-07-GW090110 | Th-231 | Filtered | 0.482 | 0.013 | 0.053 | 0.008 |
| RD-07 | SMRD-07-GW090110 | Th-231 | Suspended | 0.0025 U | 0.0068 | 0.0025 | 0.0058 |
| RD-07 | SMRD-07-GW090110 | Th-231 | Total | 0.485 | NA | 0.053 | NA |
| RD-07 | SMRD-07-GW090110 | Th-234 | Filtered | 8.4 U | 22 | 7.2 | 11 |
| RD-07 | SMRD-07-GW090110 | Th-234 | Suspended | 0.1 U | 7.2 | 2.2 | 3.5 |
| RD-07 | SMRD-07-GW090110 | Th-234 | Total | 8.5 | NA | 7.5 | NA |
| RD-07 | SMRD-07-GW090110 | Tl-208 | Filtered | 0.33 U | 2.1 | 0.56 | 0.99 |
| RD-07 | SMRD-07-GW090110 | Tl-208 | Suspended | 0.05 U | 0.97 | 0.26 | 0.47 |
| RD-07 | SMRD-07-GW090110 | Tl-208 | Total | 0.37 | NA | 0.62 | NA |
| RD-07 | SMRD-07-GW090110 | Tm-171 | Filtered | 10 U | 360 | 110 | 170 |
| RD-07 | SMRD-07-GW090110 | Tm-171 | Suspended | 2 U | 120 | 37 | 60 |
| RD-07 | SMRD-07-GW090110 | Tm-171 | Total | 10 | NA | 110 | NA |
| RD-07 | SMRD-07-GW090110 | U-233/234 | Filtered | 10.8 K | 0.01 | 0.5 | 0.007 |
| RD-07 | SMRD-07-GW090110 | U-233/234 | Suspended | 0.0201 | 0.019 | 0.0076 | 0.0066 |
| RD-07 | SMRD-07-GW090110 | U-233/234 | Total | 10.8 | NA | 0.5 | NA |
| RD-07 | SMRD-07-GW090110 | U-235/236 | Filtered | 0.482 | 0.013 | 0.053 | 0.008 |
| RD-07 | SMRD-07-GW090110 | U-235/236 | Suspended | 0.0025 U | 0.0068 | 0.0025 | 0.0058 |
| RD-07 | SMRD-07-GW090110 | U-235/236 | Total | 0.485 | NA | 0.053 | NA |
| RD-07 | SMRD-07-GW090110 | U-238 | Filtered | 8.79 | 0.01 | 0.41 | 0.006 |
| RD-07 | SMRD-07-GW090110 | U-238 | Suspended | 0.0141 | 0.0054 | 0.0053 | 0.0047 |
| RD-07 | SMRD-07-GW090110 | U-238 | Total | 8.8 | NA | 0.41 | NA |
| RD-13 | SMRD-013-GW082410 | Ac-227 | Filtered | 1.4 U | 8.8 | 2.6 | 4.2 |
| RD-13 | SMRD-013-GW082410 | Ac-227 | Suspended | -0.313 U | 3.4 | 0.996 | 1.6 |
| RD-13 | SMRD-013-GW082410 | Ac-227 | Total | 1.1 | NA | 2.8 | NA |
| RD-13 | SMRD-013-GW082410 | Ac-228 | Filtered | 3.8 | 5.2 | 1.6 | 2.4 |
| RD-13 | SMRD-013-GW082410 | Ac-228 | Suspended | 0.96 | 1.7 | 0.53 | 0.78 |
| RD-13 | SMRD-013-GW082410 | Ac-228 | Total | 4.7 | NA | 1.7 | NA |
| RD-13 | SMRD-013-GW082410 | Ag-108 | Filtered | -0.011 U R | 0.13 | 0.038 | 0.063 |
| RD-13 | SMRD-013-GW082410 | Ag-108 | Suspended | -0.005 U R | 0.043 | 0.013 | 0.02 |
| RD-13 | SMRD-013-GW082410 | Ag-108 | Total | -0.16 R | NA | 0.41 | NA |
| RD-13 | SMRD-013-GW082410 | Ag-108m | Filtered | -0.12 U R | 1.4 | 0.41 | 0.68 |
| RD-13 | SMRD-013-GW082410 | Ag-108m | Suspended | -0.05 U R | 0.46 | 0.14 | 0.22 |
| RD-13 | SMRD-013-GW082410 | Ag-108m | Total | -0.17 R | NA | 0.44 | NA |
| RD-13 | SMRD-013-GW082410 | Am-241 | Filtered | 0.018 U | 0.06 | 0.017 | 0.029 |
| RD-13 | SMRD-013-GW082410 | Am-241 | Suspended | -0.017 U | 0.063 | 0.012 | 0.03 |
| RD-13 | SMRD-013-GW082410 | Am-241 | Total | 0.0005 | NA | 0.021 | NA |
| RD-13 | SMRD-013-GW082410 | Ba-133 | Filtered | 5.7 U R | 13 | 4 | 6.4 |
| RD-13 | SMRD-013-GW082410 | Ba-133 | Suspended | -0.2 U R | 5.7 | 1.7 | 2.7 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-13 | SMRD-013-GW082410 | Ba-133 | Total | 5.5 R | NA | 4.4 | NA |
| RD-13 | SMRD-013-GW082410 | Ba-137m | Filtered | -0.4 U | 1.8 | 1.2 | 0.9 |
| RD-13 | SMRD-013-GW082410 | Ba-137m | Suspended | 0.3 | 0.52 | 0.16 | 0.24 |
| RD-13 | SMRD-013-GW082410 | Ba-137m | Total | -0.1 | NA | 1.2 | NA |
| RD-13 | SMRD-013-GW082410 | Bi-212 | Filtered | 3.6 U | 8.9 | 2.7 | 4 |
| RD-13 | SMRD-013-GW082410 | Bi-212 | Suspended | 0.8 U | 4.5 | 1.3 | 2.1 |
| RD-13 | SMRD-013-GW082410 | Bi-212 | Total | 4.4 | NA | 3 | NA |
| RD-13 | SMRD-013-GW082410 | Bi-214 | Filtered | 2.7 | 3.3 | 1 | 1.6 |
| RD-13 | SMRD-013-GW082410 | Bi-214 | Suspended | -0.62 U | 1.4 | 0.6 | 0.66 |
| RD-13 | SMRD-013-GW082410 | Bi-214 | Total | 2 | NA | 1.2 | NA |
| RD-13 | SMRD-013-GW082410 | C-14 | Filtered | -0.28 U | 2.3 | 0.69 | 1.1 |
| RD-13 | SMRD-013-GW082410 | C-14 | Suspended | 0.6 U R | 2.3 | 0.69 | 1.1 |
| RD-13 | SMRD-013-GW082410 | C-14 | Total | 0.32 R | NA | 0.98 | NA |
| RD-13 | SMRD-013-GW082410 | Cd-113m | Filtered | -3300 U | 18000 | 5500 | 8900 |
| RD-13 | SMRD-013-GW082410 | Cd-113m | Suspended | 1800 U | 5800 | 1700 | 2800 |
| RD-13 | SMRD-013-GW082410 | Cd-113m | Total | -1500 | NA | 5800 | NA |
| RD-13 | SMRD-013-GW082410 | Cf-249 | Filtered | 1.5 U R | 5.9 | 1.7 | 2.8 |
| RD-13 | SMRD-013-GW082410 | Cf-249 | Suspended | 0 U R | 2.8 | 0.8 | 1.3 |
| RD-13 | SMRD-013-GW082410 | Cf-249 | Total | 1.5 R | NA | 1.9 | NA |
| RD-13 | SMRD-013-GW082410 | Cm-243/244 | Filtered | -0.017 U | 0.088 | 0.021 | 0.045 |
| RD-13 | SMRD-013-GW082410 | Cm-243/244 | Suspended | -0.015 U | 0.08 | 0.018 | 0.04 |
| RD-13 | SMRD-013-GW082410 | Cm-243/244 | Total | -0.032 | NA | 0.028 | NA |
| RD-13 | SMRD-013-GW082410 | Cm-245/246 | Filtered | 0.021 | 0.034 | 0.011 | 0.014 |
| RD-13 | SMRD-013-GW082410 | Cm-245/246 | Suspended | 0.0105 U | 0.027 | 0.008 | 0.011 |
| RD-13 | SMRD-013-GW082410 | Cm-245/246 | Total | 0.032 | NA | 0.014 | NA |
| RD-13 | SMRD-013-GW082410 | Co-60 | Filtered | 0.009 U | 1.6 | 0.44 | 0.72 |
| RD-13 | SMRD-013-GW082410 | Co-60 | Suspended | 0 U | 0.2 | 0.042 | 0.068 |
| RD-13 | SMRD-013-GW082410 | Co-60 | Total | 0.009 | NA | 0.44 | NA |
| RD-13 | SMRD-013-GW082410 | Cs-134 | Filtered | -0.19 U | 1.6 | 0.46 | 0.75 |
| RD-13 | SMRD-013-GW082410 | Cs-134 | Suspended | 0.09 U | 0.58 | 0.17 | 0.27 |
| RD-13 | SMRD-013-GW082410 | Cs-134 | Total | -0.1 | NA | 0.49 | NA |
| RD-13 | SMRD-013-GW082410 | Cs-137 | Filtered | -0.4 U | 1.9 | 1.2 | 0.9 |
| RD-13 | SMRD-013-GW082410 | Cs-137 | Suspended | 0.31 | 0.55 | 0.17 | 0.26 |
| RD-13 | SMRD-013-GW082410 | Cs-137 | Total | -0.1 | NA | 1.2 | NA |
| RD-13 | SMRD-013-GW082410 | Eu-152 | Filtered | -0.8 U | 4.5 | 1.3 | 2.1 |
| RD-13 | SMRD-013-GW082410 | Eu-152 | Suspended | -0.07 U | 1.2 | 0.33 | 0.55 |
| RD-13 | SMRD-013-GW082410 | Eu-152 | Total | -0.8 | NA | 1.4 | NA |
| RD-13 | SMRD-013-GW082410 | Eu-154 | Filtered | -2.4 U | 14 | 4.2 | 6.7 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-13 | SMRD-013-GW082410 | Eu-154 | Suspended | -0.6 U | 5.6 | 1.6 | 2.6 |
| RD-13 | SMRD-013-GW082410 | Eu-154 | Total | -3 | NA | 4.5 | NA |
| RD-13 | SMRD-013-GW082410 | Eu-155 | Filtered | 0 U | 3.2 | 0.95 | 1.6 |
| RD-13 | SMRD-013-GW082410 | Eu-155 | Suspended | 0.61 SK | 1 | 0.31 | 0.49 |
| RD-13 | SMRD-013-GW082410 | Eu-155 | Total | 0.613 SK | NA | 0.998 | NA |
| RD-13 | SMRD-013-GW082410 | gross_alpha | Filtered | 5.84 | 0.4 | 0.55 | 0.21 |
| RD-13 | SMRD-013-GW082410 | gross_alpha | Suspended | 0.41 | 0.55 | 0.19 | 0.27 |
| RD-13 | SMRD-013-GW082410 | gross_alpha | Total | 4.56 | NA | 0.48 | NA |
| RD-13 | SMRD-013-GW082410 | gross_beta | Filtered | 5.5 | 2.8 | 1 | 1.6 |
| RD-13 | SMRD-013-GW082410 | gross_beta | Suspended | 0.3 U | 0.72 | 0.22 | 0.43 |
| RD-13 | SMRD-013-GW082410 | gross_beta | Total | 5.9 | NA | 1 | NA |
| RD-13 | SMRD-013-GW082410 | H-3 | Filtered | -28 U | 150 | 42 | 70 |
| RD-13 | SMRD-013-GW082410 | H-3 | Suspended | -1.6 U R | 23 | 6.7 | 11 |
| RD-13 | SMRD-013-GW082410 | H-3 | Total | -30 R | NA | 42 | NA |
| RD-13 | SMRD-013-GW082410 | Ho-166m | Filtered | -0.23 U | 2.5 | 0.71 | 1.2 |
| RD-13 | SMRD-013-GW082410 | Ho-166m | Suspended | 0.12 U | 0.94 | 0.27 | 0.44 |
| RD-13 | SMRD-013-GW082410 | Ho-166m | Total | -0.11 | NA | 0.76 | NA |
| RD-13 | SMRD-013-GW082410 | I-129 | Filtered | 0.09 U | 0.47 | 0.14 | 0.23 |
| RD-13 | SMRD-013-GW082410 | I-129 | Suspended | 0.05 U | 0.54 | 0.16 | 0.27 |
| RD-13 | SMRD-013-GW082410 | I-129 | Total | 0.14 | NA | 0.22 | NA |
| RD-13 | SMRD-013-GW082410 | K-40 | Filtered | -19 U | 27 | 33 | 13 |
| RD-13 | SMRD-013-GW082410 | K-40 | Suspended | -2.2 U | 9.8 | 3.3 | 4.6 |
| RD-13 | SMRD-013-GW082410 | K-40 | Total | -21 | NA | 33 | NA |
| RD-13 | SMRD-013-GW082410 | Na-22 | Filtered | 0.02 U | 1.9 | 0.53 | 0.87 |
| RD-13 | SMRD-013-GW082410 | Na-22 | Suspended | 0.15 U | 0.56 | 0.16 | 0.25 |
| RD-13 | SMRD-013-GW082410 | Na-22 | Total | 0.17 | NA | 0.56 | NA |
| RD-13 | SMRD-013-GW082410 | Nb-94 | Filtered | -0.42 U | 1.6 | 0.48 | 0.77 |
| RD-13 | SMRD-013-GW082410 | Nb-94 | Suspended | 0.14 U | 0.5 | 0.15 | 0.23 |
| RD-13 | SMRD-013-GW082410 | Nb-94 | Total | -0.27 | NA | 0.5 | NA |
| RD-13 | SMRD-013-GW082410 | Np-236 | Filtered | 0.03 U | 2.6 | 0.76 | 1.3 |
| RD-13 | SMRD-013-GW082410 | Np-236 | Suspended | 0.12 U | 1 | 0.31 | 0.51 |
| RD-13 | SMRD-013-GW082410 | Np-236 | Total | 0.15 | NA | 0.82 | NA |
| RD-13 | SMRD-013-GW082410 | Np-237 | Suspended | 0.0016 U | 0.018 | 0.0037 | 0.0054 |
| RD-13 | SMRD-013-GW082410 | Np-237 | Total | 0.0016 | NA | 0.0052 | NA |
| RD-13 | SMRD-013-GW082410 | Np-239 | Filtered | -0.4 U | 8.6 | 2.5 | 4.1 |
| RD-13 | SMRD-013-GW082410 | Np-239 | Suspended | 0.02 U | 3.2 | 0.94 | 1.5 |
| RD-13 | SMRD-013-GW082410 | Np-239 | Total | -0.3 | NA | 2.7 | NA |
| RD-13 | SMRD-013-GW082410 | Pa-231 | Filtered | 0 U | 65 | 19 | 31 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-13 | SMRD-013-GW082410 | Pa-231 | Suspended | -6.4 U | 25 | 7.5 | 12 |
| RD-13 | SMRD-013-GW082410 | Pa-231 | Total | -6 | NA | 20 | NA |
| RD-13 | SMRD-013-GW082410 | Pb-212 | Filtered | 1.9 | 3.1 | 1.3 | 1.5 |
| RD-13 | SMRD-013-GW082410 | Pb-212 | Suspended | 0.15 U | 0.93 | 0.31 | 0.45 |
| RD-13 | SMRD-013-GW082410 | Pb-212 | Total | 2 | NA | 1.3 | NA |
| RD-13 | SMRD-013-GW082410 | Pb-214 | Filtered | 0.3 U | 3.8 | 1 | 1.8 |
| RD-13 | SMRD-013-GW082410 | Pb-214 | Suspended | 0.96 | 1 | 0.32 | 0.47 |
| RD-13 | SMRD-013-GW082410 | Pb-214 | Total | 1.2 | NA | 1.1 | NA |
| RD-13 | SMRD-013-GW082410 | Pu-238 | Filtered | -0.022 U | 0.069 | 0.014 | 0.034 |
| RD-13 | SMRD-013-GW082410 | Pu-238 | Suspended | 0.014 U | 0.078 | 0.021 | 0.039 |
| RD-13 | SMRD-013-GW082410 | Pu-238 | Total | -0.008 | NA | 0.025 | NA |
| RD-13 | SMRD-013-GW082410 | Pu-239/240 | Filtered | -0.0023 U | 0.035 | 0.0058 | 0.013 |
| RD-13 | SMRD-013-GW082410 | Pu-239/240 | Suspended | -0.058 R U | 0.084 | 0.014 | 0.043 |
| RD-13 | SMRD-013-GW082410 | Pu-239/240 | Total | -0.06 R | NA | 0.015 | NA |
| RD-13 | SMRD-013-GW082410 | Pu-242 | Filtered | 0.0041 U | 0.032 | 0.0073 | 0.012 |
| RD-13 | SMRD-013-GW082410 | Pu-242 | Suspended | -0.0081 U | 0.045 | 0.007 | 0.019 |
| RD-13 | SMRD-013-GW082410 | Pu-242 | Total | -0.004 | NA | 0.01 | NA |
| RD-13 | SMRD-013-GW082410 | Ra-226 | Filtered | 0.9 | 0.17 | 0.12 | 0.09 |
| RD-13 | SMRD-013-GW082410 | Ra-226 | Suspended | 0.118 | 0.12 | 0.044 | 0.064 |
| RD-13 | SMRD-013-GW082410 | Ra-226 | Total | 1.01 | NA | 0.12 | NA |
| RD-13 | SMRD-013-GW082410 | Sb-125 | Filtered | 0.09 U | 13 | 3.9 | 6.4 |
| RD-13 | SMRD-013-GW082410 | Sb-125 | Suspended | 0.1 U | 4.9 | 1.4 | 2.4 |
| RD-13 | SMRD-013-GW082410 | Sb-125 | Total | 0.2 | NA | 4.1 | NA |
| RD-13 | SMRD-013-GW082410 | Sn-126 | Filtered | -0.33 U | 1.8 | 0.53 | 0.85 |
| RD-13 | SMRD-013-GW082410 | Sn-126 | Suspended | 0.09 U | 0.68 | 0.2 | 0.32 |
| RD-13 | SMRD-013-GW082410 | Sn-126 | Total | -0.25 | NA | 0.57 | NA |
| RD-13 | SMRD-013-GW082410 | Sr-90 | Filtered | 0.111 U | 0.23 | 0.07 | 0.14 |
| RD-13 | SMRD-013-GW082410 | Sr-90 | Suspended | -0.023 U | 0.16 | 0.045 | 0.098 |
| RD-13 | SMRD-013-GW082410 | Sr-90 | Total | 0.089 | NA | 0.083 | NA |
| RD-13 | SMRD-013-GW082410 | Tc-99 | Filtered | -0.21 U R | 1.4 | 0.42 | 0.7 |
| RD-13 | SMRD-013-GW082410 | Tc-99 | Suspended | 0.24 U | 1.4 | 0.42 | 0.68 |
| RD-13 | SMRD-013-GW082410 | Tc-99 | Total | 0.03 R | NA | 0.59 | NA |
| RD-13 | SMRD-013-GW082410 | Te-125m | Filtered | 0.02 U | 3.1 | 0.89 | 1.5 |
| RD-13 | SMRD-013-GW082410 | Te-125m | Suspended | 0.03 U | 1.1 | 0.33 | 0.55 |
| RD-13 | SMRD-013-GW082410 | Te-125m | Total | 0.2 | NA | 3.9 | NA |
| RD-13 | SMRD-013-GW082410 | Th-231 | Filtered | 0.064 | 0.038 | 0.021 | 0.013 |
| RD-13 | SMRD-013-GW082410 | Th-231 | Suspended | -0.003 U | 0.044 | 0.0093 | 0.014 |
| RD-13 | SMRD-013-GW082410 | Th-231 | Total | 0.061 | NA | 0.023 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-13 | SMRD-013-GW082410 | Th-234 | Filtered | 6.3 U | 23 | 7.3 | 11 |
| RD-13 | SMRD-013-GW082410 | Th-234 | Suspended | -0.2 U | 6.8 | 1.9 | 3.3 |
| RD-13 | SMRD-013-GW082410 | Th-234 | Total | 6.1 | NA | 7.6 | NA |
| RD-13 | SMRD-013-GW082410 | Tl-208 | Filtered | 1.46 | 1.9 | 0.8 | 0.91 |
| RD-13 | SMRD-013-GW082410 | Tl-208 | Suspended | -0.79 U | 0.85 | 0.71 | 0.41 |
| RD-13 | SMRD-013-GW082410 | Tl-208 | Total | 0.7 | NA | 1.1 | NA |
| RD-13 | SMRD-013-GW082410 | Tm-171 | Filtered | 120 U | 380 | 110 | 180 |
| RD-13 | SMRD-013-GW082410 | Tm-171 | Suspended | -21 U | 98 | 29 | 47 |
| RD-13 | SMRD-013-GW082410 | Tm-171 | Total | 100 | NA | 120 | NA |
| RD-13 | SMRD-013-GW082410 | U-233/234 | Filtered | 2.54 | 0.04 | 0.16 | 0.02 |
| RD-13 | SMRD-013-GW082410 | U-233/234 | Suspended | -0.0112 U | 0.04 | 0.0098 | 0.014 |
| RD-13 | SMRD-013-GW082410 | U-233/234 | Total | 2.53 | NA | 0.16 | NA |
| RD-13 | SMRD-013-GW082410 | U-235/236 | Filtered | 0.064 | 0.038 | 0.021 | 0.013 |
| RD-13 | SMRD-013-GW082410 | U-235/236 | Suspended | -0.003 U | 0.044 | 0.0093 | 0.014 |
| RD-13 | SMRD-013-GW082410 | U-235/236 | Total | 0.061 | NA | 0.023 | NA |
| RD-13 | SMRD-013-GW082410 | U-238 | Filtered | 1.85 | 0.04 | 0.12 | 0.02 |
| RD-13 | SMRD-013-GW082410 | U-238 | Suspended | 0.0032 U | 0.029 | 0.0092 | 0.0079 |
| RD-13 | SMRD-013-GW082410 | U-238 | Total | 1.85 | NA | 0.12 | NA |
| RD-14 | SMRD-14-GW081910 | Ac-227 | Filtered | -5 U | 9.3 | 2.8 | 4.5 |
| RD-14 | SMRD-14-GW081910 | Ac-227 | Suspended | 0 U | 5.5 | 1.6 | 2.7 |
| RD-14 | SMRD-14-GW081910 | Ac-227 | Total | -5 | NA | 3.3 | NA |
| RD-14 | SMRD-14-GW081910 | Ac-228 | Filtered | 4.1 | 5 | 1.6 | 2.3 |
| RD-14 | SMRD-14-GW081910 | Ac-228 | Suspended | -1 U | 3 | 1.3 | 1.4 |
| RD-14 | SMRD-14-GW081910 | Ac-228 | Total | 3.1 | NA | 2.1 | NA |
| RD-14 | SMRD-14-GW081910 | Ag-108 | Filtered | 0.02 U R | 0.095 | 0.028 | 0.045 |
| RD-14 | SMRD-14-GW081910 | Ag-108 | Suspended | 0.013 U R | 0.045 | 0.014 | 0.022 |
| RD-14 | SMRD-14-GW081910 | Ag-108 | Total | 0.034 R | NA | 0.031 | NA |
| RD-14 | SMRD-14-GW081910 | Ag-108m | Filtered | 0.22 U R | 1 | 0.3 | 0.48 |
| RD-14 | SMRD-14-GW081910 | Ag-108m | Suspended | 0.14 U R | 0.49 | 0.15 | 0.23 |
| RD-14 | SMRD-14-GW081910 | Ag-108m | Total | 0.36 R | NA | 0.33 | NA |
| RD-14 | SMRD-14-GW081910 | Ba-133 | Filtered | 2.5 U R | 11 | 3.2 | 5.2 |
| RD-14 | SMRD-14-GW081910 | Ba-133 | Suspended | 0.7 U R | 4.7 | 1.4 | 2.2 |
| RD-14 | SMRD-14-GW081910 | Ba-133 | Total | 3.3 R | NA | 3.5 | NA |
| RD-14 | SMRD-14-GW081910 | Ba-137m | Filtered | -0.22 U | 1.5 | 0.43 | 0.7 |
| RD-14 | SMRD-14-GW081910 | Ba-137m | Suspended | 0.17 U | 0.6 | 0.18 | 0.28 |
| RD-14 | SMRD-14-GW081910 | Ba-137m | Total | -0.05 | NA | 0.47 | NA |
| RD-14 | SMRD-14-GW081910 | Bi-212 | Filtered | -1.6 U | 13 | 3.8 | 6.2 |
| RD-14 | SMRD-14-GW081910 | Bi-212 | Suspended | 0 U | 8 | 2.3 | 3.9 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-14 | SMRD-14-GW081910 | Bi-212 | Total | -1.6 | NA | 4.5 | NA |
| RD-14 | SMRD-14-GW081910 | Bi-214 | Filtered | -0.2 U | 3 | 0.87 | 1.4 |
| RD-14 | SMRD-14-GW081910 | Bi-214 | Suspended | 1.69 | 1.6 | 0.65 | 0.79 |
| RD-14 | SMRD-14-GW081910 | Bi-214 | Total | 1.5 | NA | 1.1 | NA |
| RD-14 | SMRD-14-GW081910 | Cd-113m | Filtered | 2300 U | 12000 | 3600 | 5900 |
| RD-14 | SMRD-14-GW081910 | Cd-113m | Suspended | -700 U | 7000 | 2100 | 3400 |
| RD-14 | SMRD-14-GW081910 | Cd-113m | Total | 1500 | NA | 4200 | NA |
| RD-14 | SMRD-14-GW081910 | Cf-249 | Filtered | 1.1 U R | 5.9 | 1.7 | 2.8 |
| RD-14 | SMRD-14-GW081910 | Cf-249 | Suspended | -0.51 U R | 2.9 | 0.87 | 1.4 |
| RD-14 | SMRD-14-GW081910 | Cf-249 | Total | 0.6 R | NA | 1.9 | NA |
| RD-14 | SMRD-14-GW081910 | Co-60 | Filtered | 0.37 U | 1.3 | 0.38 | 0.59 |
| RD-14 | SMRD-14-GW081910 | Co-60 | Suspended | 0.28 U | 0.67 | 0.2 | 0.31 |
| RD-14 | SMRD-14-GW081910 | Co-60 | Total | 0.65 | NA | 0.43 | NA |
| RD-14 | SMRD-14-GW081910 | Cs-134 | Filtered | -0.64 U | 1.7 | 0.51 | 0.81 |
| RD-14 | SMRD-14-GW081910 | Cs-134 | Suspended | -0.005 U | 0.78 | 0.23 | 0.37 |
| RD-14 | SMRD-14-GW081910 | Cs-134 | Total | -0.65 | NA | 0.56 | NA |
| RD-14 | SMRD-14-GW081910 | Cs-137 | Filtered | -0.23 U | 1.6 | 0.46 | 0.74 |
| RD-14 | SMRD-14-GW081910 | Cs-137 | Suspended | 0.18 U | 0.63 | 0.19 | 0.3 |
| RD-14 | SMRD-14-GW081910 | Cs-137 | Total | -0.05 | NA | 0.49 | NA |
| RD-14 | SMRD-14-GW081910 | Eu-152 | Filtered | 0.17 U | 3 | 0.87 | 1.4 |
| RD-14 | SMRD-14-GW081910 | Eu-152 | Suspended | -0.38 U | 1.8 | 0.53 | 0.86 |
| RD-14 | SMRD-14-GW081910 | Eu-152 | Total | -0.2 | NA | 1 | NA |
| RD-14 | SMRD-14-GW081910 | Eu-154 | Filtered | 2.6 U | 11 | 3.2 | 5 |
| RD-14 | SMRD-14-GW081910 | Eu-154 | Suspended | 2.2 U | 5.5 | 1.6 | 2.6 |
| RD-14 | SMRD-14-GW081910 | Eu-154 | Total | 4.8 | NA | 3.6 | NA |
| RD-14 | SMRD-14-GW081910 | Eu-155 | Filtered | -0.2 U | 2.2 | 0.64 | 1.1 |
| RD-14 | SMRD-14-GW081910 | Eu-155 | Suspended | 0.05 U | 1.2 | 0.35 | 0.58 |
| RD-14 | SMRD-14-GW081910 | Eu-155 | Total | -0.15 | NA | 0.73 | NA |
| RD-14 | SMRD-14-GW081910 | gross_alpha | Filtered | 3.92 | 0.51 | 0.39 | 0.28 |
| RD-14 | SMRD-14-GW081910 | gross_alpha | Suspended | 1.02 | 0.64 | 0.27 | 0.33 |
| RD-14 | SMRD-14-GW081910 | gross_alpha | Total | 4.94 | NA | 0.48 | NA |
| RD-14 | SMRD-14-GW081910 | gross_beta | Filtered | 4.93 | 1.2 | 0.57 | 0.72 |
| RD-14 | SMRD-14-GW081910 | gross_beta | Suspended | 1.51 | 0.8 | 0.3 | 0.47 |
| RD-14 | SMRD-14-GW081910 | gross_beta | Total | 6.44 | NA | 0.64 | NA |
| RD-14 | SMRD-14-GW081910 | H-3 | Filtered | 6 U | 140 | 41 | 68 |
| RD-14 | SMRD-14-GW081910 | H-3 | Suspended | 14.4 | 12 | 4.5 | 5.2 |
| RD-14 | SMRD-14-GW081910 | H-3 | Total | 21 | NA | 42 | NA |
| RD-14 | SMRD-14-GW081910 | Ho-166m | Filtered | -0.04 U | 1.9 | 0.53 | 0.87 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-14 | SMRD-14-GW081910 | Ho-166m | Suspended | 0.01 U | 1.1 | 0.32 | 0.53 |
| RD-14 | SMRD-14-GW081910 | Ho-166m | Total | -0.03 | NA | 0.62 | NA |
| RD-14 | SMRD-14-GW081910 | K-40 | Filtered | 29.5 | 6.9 | 5 | 2.8 |
| RD-14 | SMRD-14-GW081910 | K-40 | Suspended | 5.7 | 12 | 3.6 | 5.7 |
| RD-14 | SMRD-14-GW081910 | K-40 | Total | 35.3 | NA | 6.1 | NA |
| RD-14 | SMRD-14-GW081910 | Na-22 | Filtered | -0.38 U | 1.6 | 0.47 | 0.74 |
| RD-14 | SMRD-14-GW081910 | Na-22 | Suspended | 0.18 U | 0.81 | 0.24 | 0.38 |
| RD-14 | SMRD-14-GW081910 | Na-22 | Total | -0.2 | NA | 0.53 | NA |
| RD-14 | SMRD-14-GW081910 | Nb-94 | Filtered | 0.41 U | 1.1 | 0.32 | 0.5 |
| RD-14 | SMRD-14-GW081910 | Nb-94 | Suspended | -0.29 U | 0.67 | 0.2 | 0.32 |
| RD-14 | SMRD-14-GW081910 | Nb-94 | Total | 0.12 | NA | 0.38 | NA |
| RD-14 | SMRD-14-GW081910 | Np-236 | Filtered | -0.24 U | 2.4 | 0.7 | 1.2 |
| RD-14 | SMRD-14-GW081910 | Np-236 | Suspended | -0.21 U | 1.2 | 0.37 | 0.61 |
| RD-14 | SMRD-14-GW081910 | Np-236 | Total | -0.44 | NA | 0.8 | NA |
| RD-14 | SMRD-14-GW081910 | Np-239 | Filtered | -1.2 U | 7.1 | 2.1 | 3.4 |
| RD-14 | SMRD-14-GW081910 | Np-239 | Suspended | -1.3 U | 3.7 | 1.1 | 1.8 |
| RD-14 | SMRD-14-GW081910 | Np-239 | Total | -2.5 | NA | 2.4 | NA |
| RD-14 | SMRD-14-GW081910 | Pa-231 | Filtered | 4 U | 50 | 15 | 24 |
| RD-14 | SMRD-14-GW081910 | Pa-231 | Suspended | -6 U | 26 | 7.8 | 13 |
| RD-14 | SMRD-14-GW081910 | Pa-231 | Total | -2 | NA | 16 | NA |
| RD-14 | SMRD-14-GW081910 | Pb-212 | Filtered | -0.7 U | 2.7 | 1.2 | 1.3 |
| RD-14 | SMRD-14-GW081910 | Pb-212 | Suspended | -0.29 U | 1.3 | 0.51 | 0.62 |
| RD-14 | SMRD-14-GW081910 | Pb-212 | Total | -1 | NA | 1.3 | NA |
| RD-14 | SMRD-14-GW081910 | Pb-214 | Filtered | 0.006 U | 2.9 | 0.78 | 1.4 |
| RD-14 | SMRD-14-GW081910 | Pb-214 | Suspended | 1.58 | 1.4 | 0.58 | 0.7 |
| RD-14 | SMRD-14-GW081910 | Pb-214 | Total | 1.58 | NA | 0.97 | NA |
| RD-14 | SMRD-14-GW081910 | Sb-125 | Filtered | -1.6 U | 13 | 4 | 6.5 |
| RD-14 | SMRD-14-GW081910 | Sb-125 | Suspended | 1.8 U | 6 | 1.8 | 2.9 |
| RD-14 | SMRD-14-GW081910 | Sb-125 | Total | 0.2 | NA | 4.4 | NA |
| RD-14 | SMRD-14-GW081910 | Sn-126 | Filtered | -0.36 U | 1.6 | 0.46 | 0.74 |
| RD-14 | SMRD-14-GW081910 | Sn-126 | Suspended | 0.17 U | 0.76 | 0.23 | 0.37 |
| RD-14 | SMRD-14-GW081910 | Sn-126 | Total | -0.2 | NA | 0.52 | NA |
| RD-14 | SMRD-14-GW081910 | Sr-90 | Suspended | -0.005 U | 0.074 | 0.021 | 0.042 |
| RD-14 | SMRD-14-GW081910 | Sr-90 | Total | 0.034 | NA | 0.051 | NA |
| RD-14 | SMRD-14-GW081910 | Te-125m | Filtered | -0.38 U | 3.1 | 0.92 | 1.5 |
| RD-14 | SMRD-14-GW081910 | Te-125m | Suspended | 0.42 U | 1.4 | 0.42 | 0.68 |
| RD-14 | SMRD-14-GW081910 | Te-125m | Total | 0.04 | NA | 1 | NA |
| RD-14 | SMRD-14-GW081910 | Th-231 | Filtered | 0.104 | 0.044 | 0.027 | 0.017 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-14 | SMRD-14-GW081910 | Th-231 | Suspended | 0 U | 0.015 | 0.0021 | 0.0081 |
| RD-14 | SMRD-14-GW081910 | Th-231 | Total | 0.104 | NA | 0.027 | NA |
| RD-14 | SMRD-14-GW081910 | Th-234 | Filtered | 11.2 | 21 | 6.7 | 10 |
| RD-14 | SMRD-14-GW081910 | Th-234 | Suspended | -2.9 U | 8.6 | 3.5 | 4.2 |
| RD-14 | SMRD-14-GW081910 | Th-234 | Total | 8.4 | NA | 7.6 | NA |
| RD-14 | SMRD-14-GW081910 | Tl-208 | Filtered | -1.1 U | 1.7 | 5.8 | 0.8 |
| RD-14 | SMRD-14-GW081910 | Tl-208 | Suspended | 0.15 U | 0.82 | 0.3 | 0.39 |
| RD-14 | SMRD-14-GW081910 | Tl-208 | Total | -1 | NA | 5.8 | NA |
| RD-14 | SMRD-14-GW081910 | Tm-171 | Filtered | 36 U | 320 | 95 | 160 |
| RD-14 | SMRD-14-GW081910 | Tm-171 | Suspended | 4 U | 130 | 39 | 65 |
| RD-14 | SMRD-14-GW081910 | Tm-171 | Total | 40 | NA | 100 | NA |
| RD-14 | SMRD-14-GW081910 | U-233/234 | Filtered | 2.35 | 0.04 | 0.14 | 0.01 |
| RD-14 | SMRD-14-GW081910 | U-233/234 | Suspended | 0.013 U | 0.043 | 0.014 | 0.018 |
| RD-14 | SMRD-14-GW081910 | U-233/234 | Total | 2.36 | NA | 0.15 | NA |
| RD-14 | SMRD-14-GW081910 | U-235/236 | Filtered | 0.104 | 0.044 | 0.027 | 0.017 |
| RD-14 | SMRD-14-GW081910 | U-235/236 | Suspended | 0 U | 0.015 | 0.0021 | 0.0081 |
| RD-14 | SMRD-14-GW081910 | U-235/236 | Total | 0.104 | NA | 0.027 | NA |
| RD-14 | SMRD-14-GW081910 | U-238 | Filtered | 2.07 | 0.01 | 0.13 | 0.007 |
| RD-14 | SMRD-14-GW081910 | U-238 | Suspended | 0.022 | 0.028 | 0.012 | 0.009 |
| RD-14 | SMRD-14-GW081910 | U-238 | Total | 2.09 | NA | 0.13 | NA |
| RD-15 | SMRD-15-GW082610 | Ac-227 | Filtered | -8.5 L U | 11 | 3.5 | 5.5 |
| RD-15 | SMRD-15-GW082610 | Ac-227 | Suspended | -1.6 U | 4.1 | 1.2 | 2 |
| RD-15 | SMRD-15-GW082610 | Ac-227 | Total | -10.1 L | NA | 3.7 | NA |
| RD-15 | SMRD-15-GW082610 | Ac-228 | Filtered | 5.4 | 5.3 | 1.4 | 2.4 |
| RD-15 | SMRD-15-GW082610 | Ac-228 | Suspended | 1.42 B | 2.1 | 0.66 | 0.98 |
| RD-15 | SMRD-15-GW082610 | Ac-228 | Total | 6.8 | NA | 1.6 | NA |
| RD-15 | SMRD-15-GW082610 | Ag-108 | Filtered | 0 U R | 0.11 | 0.033 | 0.054 |
| RD-15 | SMRD-15-GW082610 | Ag-108 | Suspended | 0.013 U R | 0.043 | 0.013 | 0.02 |
| RD-15 | SMRD-15-GW082610 | Ag-108 | Total | 0.013 R | NA | 0.035 | NA |
| RD-15 | SMRD-15-GW082610 | Ag-108m | Filtered | 0 U R | 1.2 | 0.35 | 0.58 |
| RD-15 | SMRD-15-GW082610 | Ag-108m | Suspended | 0.14 U R | 0.46 | 0.14 | 0.22 |
| RD-15 | SMRD-15-GW082610 | Ag-108m | Total | 0.14 R | NA | 0.38 | NA |
| RD-15 | SMRD-15-GW082610 | Ba-133 | Filtered | 0.07 U R | 14 | 3.9 | 6.5 |
| RD-15 | SMRD-15-GW082610 | Ba-133 | Suspended | 1.5 U R | 5.8 | 1.7 | 2.8 |
| RD-15 | SMRD-15-GW082610 | Ba-133 | Total | 1.6 R | NA | 4.3 | NA |
| RD-15 | SMRD-15-GW082610 | Ba-137m | Filtered | 0 U | 1.9 | 0.53 | 0.88 |
| RD-15 | SMRD-15-GW082610 | Ba-137m | Suspended | 0.53 | 0.66 | 0.27 | 0.31 |
| RD-15 | SMRD-15-GW082610 | Ba-137m | Total | 0.53 | NA | 0.6 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-15 | SMRD-15-GW082610 | Bi-212 | Filtered | -0.09 U | 12 | 3.4 | 5.5 |
| RD-15 | SMRD-15-GW082610 | Bi-212 | Suspended | 2.2 U | 5.3 | 1.6 | 2.5 |
| RD-15 | SMRD-15-GW082610 | Bi-212 | Total | 2.2 | NA | 3.7 | NA |
| RD-15 | SMRD-15-GW082610 | Bi-214 | Filtered | 2.49 | 3.3 | 0.75 | 1.5 |
| RD-15 | SMRD-15-GW082610 | Bi-214 | Suspended | -0.7 U | 1.7 | 1.2 | 0.8 |
| RD-15 | SMRD-15-GW082610 | Bi-214 | Total | 1.8 | NA | 1.4 | NA |
| RD-15 | SMRD-15-GW082610 | Cd-113m | Filtered | 3600 U | 15000 | 4600 | 7300 |
| RD-15 | SMRD-15-GW082610 | Cd-113m | Suspended | 100 U | 6900 | 2000 | 3300 |
| RD-15 | SMRD-15-GW082610 | Cd-113m | Total | 3800 | NA | 5000 | NA |
| RD-15 | SMRD-15-GW082610 | Cf-249 | Filtered | 2 U R | 6.4 | 1.9 | 3 |
| RD-15 | SMRD-15-GW082610 | Cf-249 | Suspended | 0.98 U R | 2.6 | 0.79 | 1.3 |
| RD-15 | SMRD-15-GW082610 | Cf-249 | Total | 3 R | NA | 2.1 | NA |
| RD-15 | SMRD-15-GW082610 | Co-60 | Filtered | 0.06 U | 1.8 | 0.48 | 0.79 |
| RD-15 | SMRD-15-GW082610 | Co-60 | Suspended | 0.08 U | 0.78 | 0.22 | 0.35 |
| RD-15 | SMRD-15-GW082610 | Co-60 | Total | 0.15 | NA | 0.53 | NA |
| RD-15 | SMRD-15-GW082610 | Cs-134 | Filtered | -0.28 U | 1.7 | 0.5 | 0.81 |
| RD-15 | SMRD-15-GW082610 | Cs-134 | Suspended | -0.17 U | 0.85 | 0.25 | 0.41 |
| RD-15 | SMRD-15-GW082610 | Cs-134 | Total | -0.45 SK | NA | 0.56 | NA |
| RD-15 | SMRD-15-GW082610 | Cs-137 | Filtered | 0 U | 2 | 0.56 | 0.93 |
| RD-15 | SMRD-15-GW082610 | Cs-137 | Suspended | 0.57 | 0.7 | 0.28 | 0.33 |
| RD-15 | SMRD-15-GW082610 | Cs-137 | Total | 0.57 | NA | 0.63 | NA |
| RD-15 | SMRD-15-GW082610 | Eu-152 | Filtered | -0.1 U | 3.8 | 1.1 | 1.8 |
| RD-15 | SMRD-15-GW082610 | Eu-152 | Suspended | -0.003 U | 1.6 | 0.46 | 0.76 |
| RD-15 | SMRD-15-GW082610 | Eu-152 | Total | -0.1 | NA | 1.2 | NA |
| RD-15 | SMRD-15-GW082610 | Eu-154 | Filtered | -1.2 U | 11 | 3 | 4.8 |
| RD-15 | SMRD-15-GW082610 | Eu-154 | Suspended | 0 U | 5.2 | 1.5 | 2.4 |
| RD-15 | SMRD-15-GW082610 | Eu-154 | Total | -1.2 | NA | 3.3 | NA |
| RD-15 | SMRD-15-GW082610 | Eu-155 | Filtered | -0.03 U | 3.4 | 1 | 1.7 |
| RD-15 | SMRD-15-GW082610 | Eu-155 | Suspended | 0.13 U | 1.2 | 0.36 | 0.58 |
| RD-15 | SMRD-15-GW082610 | Eu-155 | Total | 0.1 SK | NA | 1.1 | NA |
| RD-15 | SMRD-15-GW082610 | gross_alpha | Filtered | 11.5 | 0.81 | 0.9 | 0.44 |
| RD-15 | SMRD-15-GW082610 | gross_alpha | Suspended | 0.57 | 0.88 | 0.29 | 0.46 |
| RD-15 | SMRD-15-GW082610 | gross_alpha | Total | 12 | NA | 0.94 | NA |
| RD-15 | SMRD-15-GW082610 | gross_beta | Filtered | 11.8 | 2.5 | 1.2 | 1.4 |
| RD-15 | SMRD-15-GW082610 | gross_beta | Suspended | 0.39 U | 0.7 | 0.22 | 0.41 |
| RD-15 | SMRD-15-GW082610 | gross_beta | Total | 12.2 | NA | 1.3 | NA |
| RD-15 | SMRD-15-GW082610 | H-3 | Filtered | 56 U | 130 | 40 | 65 |
| RD-15 | SMRD-15-GW082610 | H-3 | Suspended | 6.9 U R | 23 | 6.6 | 10 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-15 | SMRD-15-GW082610 | H-3 | Total | 63 R | NA | 41 | NA |
| RD-15 | SMRD-15-GW082610 | Ho-166m | Filtered | -0.14 U | 2.5 | 0.71 | 1.2 |
| RD-15 | SMRD-15-GW082610 | Ho-166m | Suspended | 0.16 U | 1 | 0.3 | 0.49 |
| RD-15 | SMRD-15-GW082610 | Ho-166m | Total | 0.02 SK | NA | 0.77 | NA |
| RD-15 | SMRD-15-GW082610 | K-40 | Filtered | -12 U | 25 | 13 | 12 |
| RD-15 | SMRD-15-GW082610 | K-40 | Suspended | -5.8 U | 10 | 8.2 | 4.8 |
| RD-15 | SMRD-15-GW082610 | K-40 | Total | -18 | NA | 16 | NA |
| RD-15 | SMRD-15-GW082610 | Na-22 | Filtered | 0.01 U | 1.8 | 0.5 | 0.82 |
| RD-15 | SMRD-15-GW082610 | Na-22 | Suspended | 0.15 U | 0.66 | 0.19 | 0.29 |
| RD-15 | SMRD-15-GW082610 | Na-22 | Total | 0.16 | NA | 0.54 | NA |
| RD-15 | SMRD-15-GW082610 | Nb-94 | Filtered | -0.08 U | 1.3 | 0.38 | 0.62 |
| RD-15 | SMRD-15-GW082610 | Nb-94 | Suspended | 0.22 U | 0.56 | 0.17 | 0.26 |
| RD-15 | SMRD-15-GW082610 | Nb-94 | Total | 0.13 | NA | 0.41 | NA |
| RD-15 | SMRD-15-GW082610 | Np-236 | Filtered | -0.45 U | 2.9 | 0.85 | 1.4 |
| RD-15 | SMRD-15-GW082610 | Np-236 | Suspended | 0.46 SK | 0.95 | 0.29 | 0.46 |
| RD-15 | SMRD-15-GW082610 | Np-236 | Total | 0.01 SK | NA | 0.89 | NA |
| RD-15 | SMRD-15-GW082610 | Np-239 | Filtered | -0.7 U | 6.5 | 1.9 | 3.1 |
| RD-15 | SMRD-15-GW082610 | Np-239 | Suspended | 0.62 U | 2.5 | 0.75 | 1.2 |
| RD-15 | SMRD-15-GW082610 | Np-239 | Total | -0.1 | NA | 2 | NA |
| RD-15 | SMRD-15-GW082610 | Pa-231 | Filtered | 11 U | 59 | 18 | 28 |
| RD-15 | SMRD-15-GW082610 | Pa-231 | Suspended | 1.1 U | 27 | 7.9 | 13 |
| RD-15 | SMRD-15-GW082610 | Pa-231 | Total | 12 | NA | 19 | NA |
| RD-15 | SMRD-15-GW082610 | Pb-212 | Filtered | 1.57 | 2.9 | 0.95 | 1.4 |
| RD-15 | SMRD-15-GW082610 | Pb-212 | Suspended | 0.19 U | 1.1 | 0.44 | 0.55 |
| RD-15 | SMRD-15-GW082610 | Pb-212 | Total | 1.8 | NA | 1 | NA |
| RD-15 | SMRD-15-GW082610 | Pb-214 | Filtered | 2.4 | 3.2 | 1.2 | 1.5 |
| RD-15 | SMRD-15-GW082610 | Pb-214 | Suspended | -0.9 U | 1.5 | 1.1 | 0.7 |
| RD-15 | SMRD-15-GW082610 | Pb-214 | Total | 1.5 | NA | 1.6 | NA |
| RD-15 | SMRD-15-GW082610 | Sb-125 | Filtered | -1.5 U | 15 | 4.3 | 7 |
| RD-15 | SMRD-15-GW082610 | Sb-125 | Suspended | 1.9 U | 6 | 1.8 | 2.9 |
| RD-15 | SMRD-15-GW082610 | Sb-125 | Total | 0.4 SK | NA | 4.6 | NA |
| RD-15 | SMRD-15-GW082610 | Sn-126 | Filtered | 0.47 U | 1.5 | 0.45 | 0.7 |
| RD-15 | SMRD-15-GW082610 | Sn-126 | Suspended | 0.56 | 0.69 | 0.22 | 0.32 |
| RD-15 | SMRD-15-GW082610 | Sn-126 | Total | 1.03 | NA | 0.5 | NA |
| RD-15 | SMRD-15-GW082610 | Sr-90 | Filtered | 0.055 U | 0.14 | 0.044 | 0.082 |
| RD-15 | SMRD-15-GW082610 | Sr-90 | Suspended | 0.029 U | 0.099 | 0.029 | 0.056 |
| RD-15 | SMRD-15-GW082610 | Sr-90 | Total | 0.084 | NA | 0.053 | NA |
| RD-15 | SMRD-15-GW082610 | Te-125m | Filtered | -0.34 U | 3.4 | 0.99 | 1.6 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|--------|--------|----------------|
| RD-15 | SMRD-15-GW082610 | Te-125m | Suspended | 0.44 U | 1.4 | 0.41 | 0.67 |
| RD-15 | SMRD-15-GW082610 | Te-125m | Total | 0.09 SK | NA | 1.1 | NA |
| RD-15 | SMRD-15-GW082610 | Th-231 | Filtered | 0.22 | 0.032 | 0.034 | 0.011 |
| RD-15 | SMRD-15-GW082610 | Th-231 | Suspended | 0.0025 U | 0.0067 | 0.0025 | 0.0057 |
| RD-15 | SMRD-15-GW082610 | Th-231 | Total | 0.223 | NA | 0.034 | NA |
| RD-15 | SMRD-15-GW082610 | Th-234 | Filtered | 5.8 U | 23 | 7.9 | 11 |
| RD-15 | SMRD-15-GW082610 | Th-234 | Suspended | 4.3 | 7.4 | 2.6 | 3.6 |
| RD-15 | SMRD-15-GW082610 | Th-234 | Total | 10.2 | NA | 8.3 | NA |
| RD-15 | SMRD-15-GW082610 | Tl-208 | Filtered | 0.14 U | 2.2 | 0.61 | 1.1 |
| RD-15 | SMRD-15-GW082610 | Tl-208 | Suspended | 0.11 U | 0.82 | 0.23 | 0.39 |
| RD-15 | SMRD-15-GW082610 | Tl-208 | Total | 0.26 | NA | 0.65 | NA |
| RD-15 | SMRD-15-GW082610 | Tm-171 | Filtered | 80 U | 380 | 110 | 180 |
| RD-15 | SMRD-15-GW082610 | Tm-171 | Suspended | -103 L U | 130 | 39 | 62 |
| RD-15 | SMRD-15-GW082610 | Tm-171 | Total | -30 | NA | 120 | NA |
| RD-15 | SMRD-15-GW082610 | U-233/234 | Filtered | 5.51 K | 0.03 | 0.27 | 0.009 |
| RD-15 | SMRD-15-GW082610 | U-233/234 | Suspended | 0.048 | 0.015 | 0.01 | 0.005 |
| RD-15 | SMRD-15-GW082610 | U-233/234 | Total | 5.56 | NA | 0.27 | NA |
| RD-15 | SMRD-15-GW082610 | U-235/236 | Filtered | 0.22 | 0.032 | 0.034 | 0.011 |
| RD-15 | SMRD-15-GW082610 | U-235/236 | Suspended | 0.0025 U | 0.0067 | 0.0025 | 0.0057 |
| RD-15 | SMRD-15-GW082610 | U-235/236 | Total | 0.223 | NA | 0.034 | NA |
| RD-15 | SMRD-15-GW082610 | U-238 | Filtered | 5.15 | 0.03 | 0.26 | 0.01 |
| RD-15 | SMRD-15-GW082610 | U-238 | Suspended | 0.0317 | 0.015 | 0.0085 | 0.0046 |
| RD-15 | SMRD-15-GW082610 | U-238 | Total | 5.19 | NA | 0.26 | NA |
| RD-16 | SMRD-16-GW090110 | Ac-227 | Filtered | -0.8 U | 9.1 | 2.7 | 4.4 |
| RD-16 | SMRD-16-GW090110 | Ac-227 | Suspended | -1.3 U | 4 | 1.2 | 1.9 |
| RD-16 | SMRD-16-GW090110 | Ac-227 | Total | -2.1 | NA | 3 | NA |
| RD-16 | SMRD-16-GW090110 | Ac-228 | Filtered | 3.8 | 4.7 | 1.5 | 2.1 |
| RD-16 | SMRD-16-GW090110 | Ac-228 | Suspended | 0.45 U B | 2.5 | 0.73 | 1.2 |
| RD-16 | SMRD-16-GW090110 | Ac-228 | Total | 4.3 | NA | 1.7 | NA |
| RD-16 | SMRD-16-GW090110 | Ag-108 | Filtered | -0.0003 U R | 0.096 | 0.027 | 0.045 |
| RD-16 | SMRD-16-GW090110 | Ag-108 | Suspended | 0.002 U R | 0.056 | 0.016 | 0.027 |
| RD-16 | SMRD-16-GW090110 | Ag-108 | Total | 0.001 R | NA | 0.032 | NA |
| RD-16 | SMRD-16-GW090110 | Ag-108m | Filtered | -0.003 U R | 1 | 0.29 | 0.48 |
| RD-16 | SMRD-16-GW090110 | Ag-108m | Suspended | 0.02 U R | 0.61 | 0.18 | 0.29 |
| RD-16 | SMRD-16-GW090110 | Ag-108m | Total | 0.02 R | NA | 0.34 | NA |
| RD-16 | SMRD-16-GW090110 | Ba-133 | Filtered | -0.6 U R | 12 | 3.4 | 5.6 |
| RD-16 | SMRD-16-GW090110 | Ba-133 | Suspended | -0.3 U R | 6 | 1.8 | 2.9 |
| RD-16 | SMRD-16-GW090110 | Ba-133 | Total | -1 R | NA | 3.9 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-16 | SMRD-16-GW090110 | Ba-137m | Filtered | 0.13 U | 1.3 | 0.37 | 0.6 |
| RD-16 | SMRD-16-GW090110 | Ba-137m | Suspended | 0.06 U | 0.74 | 0.2 | 0.35 |
| RD-16 | SMRD-16-GW090110 | Ba-137m | Total | 0.19 | NA | 0.42 | NA |
| RD-16 | SMRD-16-GW090110 | Bi-212 | Filtered | -0.9 U | 13 | 3.7 | 6 |
| RD-16 | SMRD-16-GW090110 | Bi-212 | Suspended | 0.06 U | 6.1 | 1.7 | 2.9 |
| RD-16 | SMRD-16-GW090110 | Bi-212 | Total | -0.9 | NA | 4.1 | NA |
| RD-16 | SMRD-16-GW090110 | Bi-214 | Filtered | -1.1 U | 3.4 | 2 | 1.6 |
| RD-16 | SMRD-16-GW090110 | Bi-214 | Suspended | 0.34 U | 1.2 | 0.37 | 0.55 |
| RD-16 | SMRD-16-GW090110 | Bi-214 | Total | -0.7 | NA | 2 | NA |
| RD-16 | SMRD-16-GW090110 | Cd-113m | Filtered | 3300 U | 14000 | 4100 | 6600 |
| RD-16 | SMRD-16-GW090110 | Cd-113m | Suspended | 2100 U | 6400 | 1900 | 3100 |
| RD-16 | SMRD-16-GW090110 | Cd-113m | Total | 5400 | NA | 4500 | NA |
| RD-16 | SMRD-16-GW090110 | Cf-249 | Filtered | -1.7 U R | 6.7 | 2 | 3.2 |
| RD-16 | SMRD-16-GW090110 | Cf-249 | Suspended | 0 U R | 3.1 | 0.91 | 1.5 |
| RD-16 | SMRD-16-GW090110 | Cf-249 | Total | -1.7 R | NA | 2.2 | NA |
| RD-16 | SMRD-16-GW090110 | Co-60 | Filtered | 0.22 U | 1.6 | 0.45 | 0.72 |
| RD-16 | SMRD-16-GW090110 | Co-60 | Suspended | 0.2 U | 0.81 | 0.23 | 0.37 |
| RD-16 | SMRD-16-GW090110 | Co-60 | Total | 0.42 | NA | 0.51 | NA |
| RD-16 | SMRD-16-GW090110 | Cs-134 | Filtered | 0.03 U | 1.7 | 0.49 | 0.81 |
| RD-16 | SMRD-16-GW090110 | Cs-134 | Suspended | 0.05 U | 0.69 | 0.2 | 0.33 |
| RD-16 | SMRD-16-GW090110 | Cs-134 | Total | 0.08 SK | NA | 0.53 | NA |
| RD-16 | SMRD-16-GW090110 | Cs-137 | Filtered | 0.13 U | 1.4 | 0.39 | 0.63 |
| RD-16 | SMRD-16-GW090110 | Cs-137 | Suspended | 0.06 U | 0.79 | 0.21 | 0.37 |
| RD-16 | SMRD-16-GW090110 | Cs-137 | Total | 0.2 | NA | 0.44 | NA |
| RD-16 | SMRD-16-GW090110 | Eu-152 | Filtered | 0.66 U | 2.9 | 0.85 | 1.4 |
| RD-16 | SMRD-16-GW090110 | Eu-152 | Suspended | -0.35 U | 1.8 | 0.54 | 0.87 |
| RD-16 | SMRD-16-GW090110 | Eu-152 | Total | 0.3 | NA | 1 | NA |
| RD-16 | SMRD-16-GW090110 | Eu-154 | Filtered | 1.1 U | 9.7 | 2.7 | 4.4 |
| RD-16 | SMRD-16-GW090110 | Eu-154 | Suspended | -1.8 U | 5.5 | 1.6 | 2.5 |
| RD-16 | SMRD-16-GW090110 | Eu-154 | Total | -0.6 | NA | 3.2 | NA |
| RD-16 | SMRD-16-GW090110 | Eu-155 | Filtered | 1.37 U | 2.9 | 0.87 | 1.4 |
| RD-16 | SMRD-16-GW090110 | Eu-155 | Suspended | 0.41 U | 1.1 | 0.34 | 0.55 |
| RD-16 | SMRD-16-GW090110 | Eu-155 | Total | 1.78 SK | NA | 0.94 | NA |
| RD-16 | SMRD-16-GW090110 | gross_alpha | Filtered | 4.29 | 0.48 | 0.42 | 0.26 |
| RD-16 | SMRD-16-GW090110 | gross_alpha | Suspended | 0.08 U | 0.57 | 0.15 | 0.31 |
| RD-16 | SMRD-16-GW090110 | gross_alpha | Total | 4.36 | NA | 0.45 | NA |
| RD-16 | SMRD-16-GW090110 | gross_beta | Filtered | 5.67 | 2.4 | 0.96 | 1.4 |
| RD-16 | SMRD-16-GW090110 | gross_beta | Suspended | -0.3 U | 0.81 | 0.22 | 0.49 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|-------|----------------|
| RD-16 | SMRD-16-GW090110 | gross_beta | Total | 5.37 | NA | 0.99 | NA |
| RD-16 | SMRD-16-GW090110 | H-3 | Filtered | 41 U | 140 | 41 | 67 |
| RD-16 | SMRD-16-GW090110 | H-3 | Suspended | -12.6 L U | 25 | 5.8 | 11 |
| RD-16 | SMRD-16-GW090110 | H-3 | Total | 28 R | NA | 42 | NA |
| RD-16 | SMRD-16-GW090110 | Ho-166m | Filtered | -0.42 U | 2.3 | 0.68 | 1.1 |
| RD-16 | SMRD-16-GW090110 | Ho-166m | Suspended | 0.004 U | 0.95 | 0.27 | 0.44 |
| RD-16 | SMRD-16-GW090110 | Ho-166m | Total | -0.41 SK | NA | 0.73 | NA |
| RD-16 | SMRD-16-GW090110 | K-40 | Filtered | 27.7 | 8.9 | 5.5 | 3.7 |
| RD-16 | SMRD-16-GW090110 | K-40 | Suspended | 1.8 U | 8.4 | 2.2 | 3.9 |
| RD-16 | SMRD-16-GW090110 | K-40 | Total | 29.5 | NA | 5.9 | NA |
| RD-16 | SMRD-16-GW090110 | Na-22 | Filtered | 0.23 U | 1.7 | 0.49 | 0.78 |
| RD-16 | SMRD-16-GW090110 | Na-22 | Suspended | 0 U | 0.68 | 0.18 | 0.3 |
| RD-16 | SMRD-16-GW090110 | Na-22 | Total | 0.23 | NA | 0.52 | NA |
| RD-16 | SMRD-16-GW090110 | Nb-94 | Filtered | 0.47 U | 1.3 | 0.38 | 0.6 |
| RD-16 | SMRD-16-GW090110 | Nb-94 | Suspended | -0.13 U | 0.58 | 0.17 | 0.27 |
| RD-16 | SMRD-16-GW090110 | Nb-94 | Total | 0.33 | NA | 0.42 | NA |
| RD-16 | SMRD-16-GW090110 | Np-236 | Filtered | 0.01 U | 2.5 | 0.73 | 1.2 |
| RD-16 | SMRD-16-GW090110 | Np-236 | Suspended | 0.19 U | 1 | 0.31 | 0.5 |
| RD-16 | SMRD-16-GW090110 | Np-236 | Total | 0.2 SK | NA | 0.79 | NA |
| RD-16 | SMRD-16-GW090110 | Np-239 | Filtered | -1.2 U | 7.8 | 2.3 | 3.8 |
| RD-16 | SMRD-16-GW090110 | Np-239 | Suspended | 0.2 U | 3.5 | 1 | 1.7 |
| RD-16 | SMRD-16-GW090110 | Np-239 | Total | -1 | NA | 2.5 | NA |
| RD-16 | SMRD-16-GW090110 | Pa-231 | Filtered | 3 U | 56 | 16 | 27 |
| RD-16 | SMRD-16-GW090110 | Pa-231 | Suspended | 2.4 U | 23 | 6.8 | 11 |
| RD-16 | SMRD-16-GW090110 | Pa-231 | Total | 6 | NA | 18 | NA |
| RD-16 | SMRD-16-GW090110 | Pb-212 | Filtered | -0.25 U | 2.3 | 0.81 | 1.1 |
| RD-16 | SMRD-16-GW090110 | Pb-212 | Suspended | -0.02 U | 1.1 | 0.37 | 0.52 |
| RD-16 | SMRD-16-GW090110 | Pb-212 | Total | -0.26 | NA | 0.89 | NA |
| RD-16 | SMRD-16-GW090110 | Pb-214 | Filtered | 2.88 | 2.4 | 0.92 | 1.1 |
| RD-16 | SMRD-16-GW090110 | Pb-214 | Suspended | -1.3 U | 1.5 | 2.1 | 0.7 |
| RD-16 | SMRD-16-GW090110 | Pb-214 | Total | 1.6 | NA | 2.3 | NA |
| RD-16 | SMRD-16-GW090110 | Sb-125 | Filtered | 5.4 U | 13 | 3.9 | 6.3 |
| RD-16 | SMRD-16-GW090110 | Sb-125 | Suspended | 1.5 U | 6 | 1.8 | 2.9 |
| RD-16 | SMRD-16-GW090110 | Sb-125 | Total | 6.9 SK | NA | 4.3 | NA |
| RD-16 | SMRD-16-GW090110 | Sn-126 | Filtered | -0.004 U | 1.7 | 0.48 | 0.79 |
| RD-16 | SMRD-16-GW090110 | Sn-126 | Suspended | 0.32 U | 0.71 | 0.21 | 0.33 |
| RD-16 | SMRD-16-GW090110 | Sn-126 | Total | 0.31 | NA | 0.52 | NA |
| RD-16 | SMRD-16-GW090110 | Sr-90 | Filtered | 0.012 U | 0.17 | 0.051 | 0.099 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-16 | SMRD-16-GW090110 | Sr-90 | Suspended | -0.007 U | 0.12 | 0.034 | 0.067 |
| RD-16 | SMRD-16-GW090110 | Sr-90 | Total | 0.005 | NA | 0.061 | NA |
| RD-16 | SMRD-16-GW090110 | Te-125m | Filtered | 1.24 U | 3 | 0.91 | 1.4 |
| RD-16 | SMRD-16-GW090110 | Te-125m | Suspended | 0.35 U | 1.4 | 0.41 | 0.67 |
| RD-16 | SMRD-16-GW090110 | Te-125m | Total | 1.59 SK | NA | 0.997 | NA |
| RD-16 | SMRD-16-GW090110 | Th-231 | Filtered | 0.035 | 0.012 | 0.013 | 0.007 |
| RD-16 | SMRD-16-GW090110 | Th-231 | Suspended | 0.0075 | 0.0068 | 0.0044 | 0.0058 |
| RD-16 | SMRD-16-GW090110 | Th-231 | Total | 0.043 | NA | 0.013 | NA |
| RD-16 | SMRD-16-GW090110 | Th-234 | Filtered | 10.4 U | 22 | 7.6 | 11 |
| RD-16 | SMRD-16-GW090110 | Th-234 | Suspended | 0.7 U | 6.9 | 2.1 | 3.4 |
| RD-16 | SMRD-16-GW090110 | Th-234 | Total | 11 | NA | 7.9 | NA |
| RD-16 | SMRD-16-GW090110 | Tl-208 | Filtered | -0.13 U | 1.9 | 0.63 | 0.92 |
| RD-16 | SMRD-16-GW090110 | Tl-208 | Suspended | 0.22 U | 0.82 | 0.23 | 0.39 |
| RD-16 | SMRD-16-GW090110 | Tl-208 | Total | 0.08 | NA | 0.67 | NA |
| RD-16 | SMRD-16-GW090110 | Tm-171 | Filtered | 30 U | 370 | 110 | 180 |
| RD-16 | SMRD-16-GW090110 | Tm-171 | Suspended | -124 R U | 130 | 40 | 63 |
| RD-16 | SMRD-16-GW090110 | Tm-171 | Total | -90 | NA | 120 | NA |
| RD-16 | SMRD-16-GW090110 | U-233/234 | Filtered | 0.96 K | 0.032 | 0.071 | 0.013 |
| RD-16 | SMRD-16-GW090110 | U-233/234 | Suspended | 0.0101 | 0.015 | 0.0053 | 0.0047 |
| RD-16 | SMRD-16-GW090110 | U-233/234 | Total | 0.97 | NA | 0.072 | NA |
| RD-16 | SMRD-16-GW090110 | U-235/236 | Filtered | 0.035 | 0.012 | 0.013 | 0.007 |
| RD-16 | SMRD-16-GW090110 | U-235/236 | Suspended | 0.0075 | 0.0068 | 0.0044 | 0.0058 |
| RD-16 | SMRD-16-GW090110 | U-235/236 | Total | 0.043 | NA | 0.013 | NA |
| RD-16 | SMRD-16-GW090110 | U-238 | Filtered | 0.761 | 0.024 | 0.061 | 0.008 |
| RD-16 | SMRD-16-GW090110 | U-238 | Suspended | 0.008 | 0.019 | 0.0057 | 0.0066 |
| RD-16 | SMRD-16-GW090110 | U-238 | Total | 0.769 | NA | 0.061 | NA |
| RD-17 | SMRD-17-GW082510 | Ac-227 | Filtered | -0.008 U | 9.9 | 2.9 | 4.8 |
| RD-17 | SMRD-17-GW082510 | Ac-227 | Suspended | -0.47 U | 2.4 | 0.7 | 1.1 |
| RD-17 | SMRD-17-GW082510 | Ac-227 | Total | -0.5 | NA | 3 | NA |
| RD-17 | SMRD-17-GW082510 | Ac-228 | Filtered | 6.1 | 2.9 | 1.4 | 1.3 |
| RD-17 | SMRD-17-GW082510 | Ac-228 | Suspended | 0.49 U | 1.6 | 0.48 | 0.75 |
| RD-17 | SMRD-17-GW082510 | Ac-228 | Total | 6.6 | NA | 1.5 | NA |
| RD-17 | SMRD-17-GW082510 | Ag-108 | Filtered | 0 U R | 0.11 | 0.031 | 0.051 |
| RD-17 | SMRD-17-GW082510 | Ag-108 | Suspended | -0.004 U R | 0.037 | 0.011 | 0.018 |
| RD-17 | SMRD-17-GW082510 | Ag-108 | Total | -0.04 R | NA | 0.34 | NA |
| RD-17 | SMRD-17-GW082510 | Ag-108m | Filtered | 0 U R | 1.2 | 0.34 | 0.55 |
| RD-17 | SMRD-17-GW082510 | Ag-108m | Suspended | -0.04 U R | 0.4 | 0.12 | 0.19 |
| RD-17 | SMRD-17-GW082510 | Ag-108m | Total | -0.04 R | NA | 0.35 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-17 | SMRD-17-GW082510 | Am-241 | Filtered | -0.012 U | 0.084 | 0.019 | 0.041 |
| RD-17 | SMRD-17-GW082510 | Am-241 | Suspended | 0.0088 | 0.028 | 0.008 | 0.0078 |
| RD-17 | SMRD-17-GW082510 | Am-241 | Total | -0.003 | NA | 0.021 | NA |
| RD-17 | SMRD-17-GW082510 | Ba-133 | Filtered | 4.9 U R | 15 | 4.4 | 7.1 |
| RD-17 | SMRD-17-GW082510 | Ba-133 | Suspended | -0.4 U R | 4.1 | 1.2 | 1.9 |
| RD-17 | SMRD-17-GW082510 | Ba-133 | Total | 4.5 R | NA | 4.6 | NA |
| RD-17 | SMRD-17-GW082510 | Ba-137m | Filtered | 0.35 U | 1.3 | 0.39 | 0.61 |
| RD-17 | SMRD-17-GW082510 | Ba-137m | Suspended | 0.04 U | 0.44 | 0.12 | 0.2 |
| RD-17 | SMRD-17-GW082510 | Ba-137m | Total | 0.39 | NA | 0.4 | NA |
| RD-17 | SMRD-17-GW082510 | Bi-212 | Filtered | -0.4 U | 11 | 3.2 | 5.2 |
| RD-17 | SMRD-17-GW082510 | Bi-212 | Suspended | 0.96 U | 3.2 | 0.95 | 1.5 |
| RD-17 | SMRD-17-GW082510 | Bi-212 | Total | 0.6 | NA | 3.3 | NA |
| RD-17 | SMRD-17-GW082510 | Bi-214 | Filtered | 4.2 | 3.2 | 1.2 | 1.5 |
| RD-17 | SMRD-17-GW082510 | Bi-214 | Suspended | 0.42 U | 1.1 | 0.35 | 0.51 |
| RD-17 | SMRD-17-GW082510 | Bi-214 | Total | 4.6 | NA | 1.3 | NA |
| RD-17 | SMRD-17-GW082510 | C-14 | Filtered | 0.74 U | 2.3 | 0.69 | 1.1 |
| RD-17 | SMRD-17-GW082510 | C-14 | Suspended | 0.54 U R | 2.1 | 0.65 | 1 |
| RD-17 | SMRD-17-GW082510 | C-14 | Total | 1.28 R | NA | 0.95 | NA |
| RD-17 | SMRD-17-GW082510 | Cd-113m | Filtered | 8000 U | 18000 | 5400 | 8500 |
| RD-17 | SMRD-17-GW082510 | Cd-113m | Suspended | -800 U | 4500 | 1300 | 2200 |
| RD-17 | SMRD-17-GW082510 | Cd-113m | Total | 7200 | NA | 5500 | NA |
| RD-17 | SMRD-17-GW082510 | Cf-249 | Filtered | -1.6 U R | 8.4 | 2.5 | 4 |
| RD-17 | SMRD-17-GW082510 | Cf-249 | Suspended | -0.09 U R | 1.9 | 0.56 | 0.92 |
| RD-17 | SMRD-17-GW082510 | Cf-249 | Total | -1.7 R | NA | 2.6 | NA |
| RD-17 | SMRD-17-GW082510 | Cm-243/244 | Filtered | 0.027 U | 0.11 | 0.031 | 0.056 |
| RD-17 | SMRD-17-GW082510 | Cm-243/244 | Suspended | 0.027 | 0.06 | 0.018 | 0.027 |
| RD-17 | SMRD-17-GW082510 | Cm-243/244 | Total | 0.055 | NA | 0.036 | NA |
| RD-17 | SMRD-17-GW082510 | Cm-245/246 | Filtered | 0.01 U | 0.042 | 0.012 | 0.018 |
| RD-17 | SMRD-17-GW082510 | Cm-245/246 | Suspended | 0.027 | 0.026 | 0.01 | 0.01 |
| RD-17 | SMRD-17-GW082510 | Cm-245/246 | Total | 0.037 | NA | 0.016 | NA |
| RD-17 | SMRD-17-GW082510 | Co-60 | Filtered | -0.23 U | 1.7 | 0.49 | 0.78 |
| RD-17 | SMRD-17-GW082510 | Co-60 | Suspended | 0.12 U | 0.57 | 0.16 | 0.26 |
| RD-17 | SMRD-17-GW082510 | Co-60 | Total | -0.12 | NA | 0.51 | NA |
| RD-17 | SMRD-17-GW082510 | Cs-134 | Filtered | -0.81 U | 1.6 | 0.48 | 0.76 |
| RD-17 | SMRD-17-GW082510 | Cs-134 | Suspended | 0.16 U | 0.48 | 0.14 | 0.23 |
| RD-17 | SMRD-17-GW082510 | Cs-134 | Total | -0.65 | NA | 0.51 | NA |
| RD-17 | SMRD-17-GW082510 | Cs-137 | Filtered | 0.37 U | 1.4 | 0.41 | 0.65 |
| RD-17 | SMRD-17-GW082510 | Cs-137 | Suspended | 0.04 U | 0.46 | 0.13 | 0.21 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-17 | SMRD-17-GW082510 | Cs-137 | Total | 0.41 | NA | 0.43 | NA |
| RD-17 | SMRD-17-GW082510 | Eu-152 | Filtered | -0.6 U | 4.5 | 1.3 | 2.2 |
| RD-17 | SMRD-17-GW082510 | Eu-152 | Suspended | -0.14 U | 1 | 0.3 | 0.49 |
| RD-17 | SMRD-17-GW082510 | Eu-152 | Total | -0.8 | NA | 1.4 | NA |
| RD-17 | SMRD-17-GW082510 | Eu-154 | Filtered | 2.4 U | 11 | 3.2 | 5.1 |
| RD-17 | SMRD-17-GW082510 | Eu-154 | Suspended | -0.5 U | 4.6 | 1.3 | 2.1 |
| RD-17 | SMRD-17-GW082510 | Eu-154 | Total | 2 | NA | 3.5 | NA |
| RD-17 | SMRD-17-GW082510 | Eu-155 | Filtered | -0.7 U | 4.7 | 1.4 | 2.3 |
| RD-17 | SMRD-17-GW082510 | Eu-155 | Suspended | 0.006 U | 0.6 | 0.17 | 0.29 |
| RD-17 | SMRD-17-GW082510 | Eu-155 | Total | -0.7 | NA | 1.4 | NA |
| RD-17 | SMRD-17-GW082510 | gross_alpha | Filtered | 4.96 | 0.39 | 0.5 | 0.2 |
| RD-17 | SMRD-17-GW082510 | gross_alpha | Suspended | 0.07 U | 0.59 | 0.16 | 0.31 |
| RD-17 | SMRD-17-GW082510 | gross_alpha | Total | 4.65 | NA | 0.5 | NA |
| RD-17 | SMRD-17-GW082510 | gross_beta | Filtered | 7.3 | 3.1 | 1.2 | 1.9 |
| RD-17 | SMRD-17-GW082510 | gross_beta | Suspended | 0.15 U | 0.7 | 0.21 | 0.41 |
| RD-17 | SMRD-17-GW082510 | gross_beta | Total | 7.5 | NA | 1.2 | NA |
| RD-17 | SMRD-17-GW082510 | H-3 | Filtered | -35 U | 140 | 40 | 68 |
| RD-17 | SMRD-17-GW082510 | H-3 | Suspended | 10.8 R | 20 | 6.3 | 9.6 |
| RD-17 | SMRD-17-GW082510 | H-3 | Total | -25 R | NA | 41 | NA |
| RD-17 | SMRD-17-GW082510 | Ho-166m | Filtered | -0.33 U | 2.5 | 0.73 | 1.2 |
| RD-17 | SMRD-17-GW082510 | Ho-166m | Suspended | 0.14 U | 0.69 | 0.2 | 0.32 |
| RD-17 | SMRD-17-GW082510 | Ho-166m | Total | -0.19 | NA | 0.75 | NA |
| RD-17 | SMRD-17-GW082510 | I-129 | Filtered | 0.15 U | 0.51 | 0.15 | 0.25 |
| RD-17 | SMRD-17-GW082510 | I-129 | Suspended | 0.24 U | 0.51 | 0.16 | 0.25 |
| RD-17 | SMRD-17-GW082510 | I-129 | Total | 0.39 | NA | 0.22 | NA |
| RD-17 | SMRD-17-GW082510 | K-40 | Filtered | 13.7 | 17 | 4.2 | 7.7 |
| RD-17 | SMRD-17-GW082510 | K-40 | Suspended | -10 U | 10 | 19 | 5 |
| RD-17 | SMRD-17-GW082510 | K-40 | Total | 3 | NA | 20 | NA |
| RD-17 | SMRD-17-GW082510 | Na-22 | Filtered | -0.07 U | 1.5 | 0.41 | 0.66 |
| RD-17 | SMRD-17-GW082510 | Na-22 | Suspended | -0.15 U | 0.71 | 0.21 | 0.33 |
| RD-17 | SMRD-17-GW082510 | Na-22 | Total | -0.21 | NA | 0.45 | NA |
| RD-17 | SMRD-17-GW082510 | Nb-94 | Filtered | 0.36 U | 1.2 | 0.35 | 0.55 |
| RD-17 | SMRD-17-GW082510 | Nb-94 | Suspended | 0 U | 0.51 | 0.15 | 0.24 |
| RD-17 | SMRD-17-GW082510 | Nb-94 | Total | 0.36 | NA | 0.38 | NA |
| RD-17 | SMRD-17-GW082510 | Np-236 | Filtered | -0.0009 U | 3.6 | 1 | 1.7 |
| RD-17 | SMRD-17-GW082510 | Np-236 | Suspended | -0.12 U | 0.57 | 0.17 | 0.27 |
| RD-17 | SMRD-17-GW082510 | Np-236 | Total | -0.1 | NA | 1.1 | NA |
| RD-17 | SMRD-17-GW082510 | Np-237 | Suspended | 0 U | 0.0091 | 0.0017 | 0.0055 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-17 | SMRD-17-GW082510 | Np-237 | Total | -0.0042 | NA | 0.0034 | NA |
| RD-17 | SMRD-17-GW082510 | Np-239 | Filtered | 0.08 U | 10 | 3 | 5 |
| RD-17 | SMRD-17-GW082510 | Np-239 | Suspended | 0.87 U | 2.3 | 0.69 | 1.1 |
| RD-17 | SMRD-17-GW082510 | Np-239 | Total | 0.9 | NA | 3.1 | NA |
| RD-17 | SMRD-17-GW082510 | Pa-231 | Filtered | 8 U | 67 | 20 | 32 |
| RD-17 | SMRD-17-GW082510 | Pa-231 | Suspended | -5.3 U | 19 | 5.6 | 9 |
| RD-17 | SMRD-17-GW082510 | Pa-231 | Total | 3 | NA | 21 | NA |
| RD-17 | SMRD-17-GW082510 | Pb-212 | Filtered | 0.58 U | 2.2 | 0.67 | 1.1 |
| RD-17 | SMRD-17-GW082510 | Pb-212 | Suspended | 0.23 U | 0.67 | 0.2 | 0.32 |
| RD-17 | SMRD-17-GW082510 | Pb-212 | Total | 0.82 | NA | 0.7 | NA |
| RD-17 | SMRD-17-GW082510 | Pb-214 | Filtered | 4.6 | 3.1 | 1 | 1.5 |
| RD-17 | SMRD-17-GW082510 | Pb-214 | Suspended | 0.8 | 0.89 | 0.28 | 0.42 |
| RD-17 | SMRD-17-GW082510 | Pb-214 | Total | 5.4 | NA | 1.1 | NA |
| RD-17 | SMRD-17-GW082510 | Pu-238 | Filtered | 0.054 | 0.064 | 0.021 | 0.03 |
| RD-17 | SMRD-17-GW082510 | Pu-238 | Suspended | 0.044 | 0.051 | 0.018 | 0.023 |
| RD-17 | SMRD-17-GW082510 | Pu-238 | Total | 0.098 | NA | 0.028 | NA |
| RD-17 | SMRD-17-GW082510 | Pu-239/240 | Filtered | -0.0079 U | 0.038 | 0.0072 | 0.016 |
| RD-17 | SMRD-17-GW082510 | Pu-239/240 | Suspended | -0.0012 U | 0.039 | 0.0078 | 0.016 |
| RD-17 | SMRD-17-GW082510 | Pu-239/240 | Total | -0.009 | NA | 0.011 | NA |
| RD-17 | SMRD-17-GW082510 | Pu-242 | Filtered | -0.0087 U | 0.042 | 0.0084 | 0.018 |
| RD-17 | SMRD-17-GW082510 | Pu-242 | Suspended | 0.0058 U | 0.028 | 0.007 | 0.0094 |
| RD-17 | SMRD-17-GW082510 | Pu-242 | Total | -0.003 | NA | 0.011 | NA |
| RD-17 | SMRD-17-GW082510 | Ra-226 | Filtered | 1.21 | 0.14 | 0.13 | 0.07 |
| RD-17 | SMRD-17-GW082510 | Ra-226 | Suspended | 0.054 U | 0.14 | 0.042 | 0.077 |
| RD-17 | SMRD-17-GW082510 | Ra-226 | Total | 1.27 | NA | 0.14 | NA |
| RD-17 | SMRD-17-GW082510 | Sb-125 | Filtered | 0 U | 15 | 4.4 | 7.3 |
| RD-17 | SMRD-17-GW082510 | Sb-125 | Suspended | 0.6 U | 3.5 | 1 | 1.7 |
| RD-17 | SMRD-17-GW082510 | Sb-125 | Total | 0.6 | NA | 4.5 | NA |
| RD-17 | SMRD-17-GW082510 | Sn-126 | Filtered | 0.25 U | 1.6 | 0.48 | 0.78 |
| RD-17 | SMRD-17-GW082510 | Sn-126 | Suspended | 0.08 U | 0.51 | 0.15 | 0.24 |
| RD-17 | SMRD-17-GW082510 | Sn-126 | Total | 0.32 | NA | 0.5 | NA |
| RD-17 | SMRD-17-GW082510 | Sr-90 | Filtered | -0.011 U | 0.3 | 0.085 | 0.18 |
| RD-17 | SMRD-17-GW082510 | Sr-90 | Suspended | 0.006 U | 0.17 | 0.05 | 0.1 |
| RD-17 | SMRD-17-GW082510 | Sr-90 | Total | -0.004 | NA | 0.098 | NA |
| RD-17 | SMRD-17-GW082510 | Tc-99 | Filtered | -0.02 U | 1.7 | 0.52 | 0.85 |
| RD-17 | SMRD-17-GW082510 | Tc-99 | Suspended | -0.34 U | 1.4 | 0.41 | 0.69 |
| RD-17 | SMRD-17-GW082510 | Tc-99 | Total | -0.36 | NA | 0.66 | NA |
| RD-17 | SMRD-17-GW082510 | Te-125m | Filtered | 0 U | 3.5 | 1 | 1.7 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-17 | SMRD-17-GW082510 | Te-125m | Suspended | 0.14 U | 0.8 | 0.24 | 0.39 |
| RD-17 | SMRD-17-GW082510 | Te-125m | Total | 0.6 | NA | 4.3 | NA |
| RD-17 | SMRD-17-GW082510 | Th-231 | Filtered | 0.059 | 0.058 | 0.024 | 0.023 |
| RD-17 | SMRD-17-GW082510 | Th-231 | Suspended | 0.0037 U | 0.03 | 0.0069 | 0.007 |
| RD-17 | SMRD-17-GW082510 | Th-231 | Total | 0.063 | NA | 0.025 | NA |
| RD-17 | SMRD-17-GW082510 | Th-234 | Filtered | 20 U | 46 | 16 | 22 |
| RD-17 | SMRD-17-GW082510 | Th-234 | Suspended | -1 U | 5.6 | 1.9 | 2.7 |
| RD-17 | SMRD-17-GW082510 | Th-234 | Total | 19 | NA | 17 | NA |
| RD-17 | SMRD-17-GW082510 | Tl-208 | Filtered | -2.2 U | 2.2 | 3.2 | 1.1 |
| RD-17 | SMRD-17-GW082510 | Tl-208 | Suspended | -0.18 U | 0.6 | 0.3 | 0.29 |
| RD-17 | SMRD-17-GW082510 | Tl-208 | Total | -2.4 | NA | 3.2 | NA |
| RD-17 | SMRD-17-GW082510 | Tm-171 | Filtered | 140 U | 460 | 140 | 220 |
| RD-17 | SMRD-17-GW082510 | Tm-171 | Suspended | 8 U | 72 | 21 | 35 |
| RD-17 | SMRD-17-GW082510 | Tm-171 | Total | 150 | NA | 140 | NA |
| RD-17 | SMRD-17-GW082510 | U-233/234 | Filtered | 2.09 | 0.08 | 0.14 | 0.04 |
| RD-17 | SMRD-17-GW082510 | U-233/234 | Suspended | 0.014 U | 0.045 | 0.016 | 0.016 |
| RD-17 | SMRD-17-GW082510 | U-233/234 | Total | 2.1 | NA | 0.14 | NA |
| RD-17 | SMRD-17-GW082510 | U-235/236 | Filtered | 0.059 | 0.058 | 0.024 | 0.023 |
| RD-17 | SMRD-17-GW082510 | U-235/236 | Suspended | 0.0037 U | 0.03 | 0.0069 | 0.007 |
| RD-17 | SMRD-17-GW082510 | U-235/236 | Total | 0.063 | NA | 0.025 | NA |
| RD-17 | SMRD-17-GW082510 | U-238 | Filtered | 1.93 | 0.06 | 0.13 | 0.02 |
| RD-17 | SMRD-17-GW082510 | U-238 | Suspended | 0.011 | 0.032 | 0.012 | 0.01 |
| RD-17 | SMRD-17-GW082510 | U-238 | Total | 1.94 | NA | 0.13 | NA |
| RD-18 | SMRD-18-GW081910 | Ac-227 | Filtered | 5.3 | 4.3 | 1.4 | 2 |
| RD-18 | SMRD-18-GW081910 | Ac-227 | Suspended | -3.2 L U | 4.6 | 1.4 | 2.3 |
| RD-18 | SMRD-18-GW081910 | Ac-227 | Total | 2.2 | NA | 2 | NA |
| RD-18 | SMRD-18-GW081910 | Ac-228 | Filtered | 3.1 | 4 | 1.3 | 1.9 |
| RD-18 | SMRD-18-GW081910 | Ac-228 | Suspended | 1 U | 2.5 | 0.74 | 1.2 |
| RD-18 | SMRD-18-GW081910 | Ac-228 | Total | 4.1 | NA | 1.5 | NA |
| RD-18 | SMRD-18-GW081910 | Ag-108 | Filtered | -0.01 U R | 0.091 | 0.027 | 0.044 |
| RD-18 | SMRD-18-GW081910 | Ag-108 | Suspended | -0.004 U R | 0.053 | 0.016 | 0.026 |
| RD-18 | SMRD-18-GW081910 | Ag-108 | Total | -0.014 R | NA | 0.031 | NA |
| RD-18 | SMRD-18-GW081910 | Ag-108m | Filtered | -0.11 U R | 0.98 | 0.29 | 0.47 |
| RD-18 | SMRD-18-GW081910 | Ag-108m | Suspended | -0.04 U R | 0.57 | 0.17 | 0.28 |
| RD-18 | SMRD-18-GW081910 | Ag-108m | Total | -0.15 R | NA | 0.33 | NA |
| RD-18 | SMRD-18-GW081910 | Ba-133 | Filtered | -3.1 U R | 12 | 3.6 | 5.9 |
| RD-18 | SMRD-18-GW081910 | Ba-133 | Suspended | -2.1 U R | 6.1 | 1.8 | 3 |
| RD-18 | SMRD-18-GW081910 | Ba-133 | Total | -5.2 R | NA | 4.1 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-18 | SMRD-18-GW081910 | Ba-137m | Filtered | 0.36 U | 1 | 0.31 | 0.5 |
| RD-18 | SMRD-18-GW081910 | Ba-137m | Suspended | 0.16 U | 0.65 | 0.19 | 0.31 |
| RD-18 | SMRD-18-GW081910 | Ba-137m | Total | 0.52 | NA | 0.37 | NA |
| RD-18 | SMRD-18-GW081910 | Bi-212 | Filtered | 5.9 | 8.6 | 3.2 | 4 |
| RD-18 | SMRD-18-GW081910 | Bi-212 | Suspended | 0.04 U | 6.4 | 1.8 | 3 |
| RD-18 | SMRD-18-GW081910 | Bi-212 | Total | 5.9 | NA | 3.6 | NA |
| RD-18 | SMRD-18-GW081910 | Bi-214 | Filtered | 1.05 U | 2.8 | 0.97 | 1.4 |
| RD-18 | SMRD-18-GW081910 | Bi-214 | Suspended | 2.6 | 1.7 | 0.75 | 0.82 |
| RD-18 | SMRD-18-GW081910 | Bi-214 | Total | 3.6 | NA | 1.2 | NA |
| RD-18 | SMRD-18-GW081910 | Cd-113m | Filtered | 2200 U | 14000 | 4300 | 7000 |
| RD-18 | SMRD-18-GW081910 | Cd-113m | Suspended | -1200 U | 7300 | 2200 | 3500 |
| RD-18 | SMRD-18-GW081910 | Cd-113m | Total | 1000 | NA | 4800 | NA |
| RD-18 | SMRD-18-GW081910 | Cf-249 | Filtered | -0.2 U R | 5.5 | 1.6 | 2.6 |
| RD-18 | SMRD-18-GW081910 | Cf-249 | Suspended | -0.13 U R | 2.8 | 0.82 | 1.3 |
| RD-18 | SMRD-18-GW081910 | Cf-249 | Total | -0.3 R | NA | 1.8 | NA |
| RD-18 | SMRD-18-GW081910 | Co-60 | Filtered | -0.01 U | 1.2 | 0.35 | 0.57 |
| RD-18 | SMRD-18-GW081910 | Co-60 | Suspended | 0.004 U | 0.78 | 0.22 | 0.36 |
| RD-18 | SMRD-18-GW081910 | Co-60 | Total | -0.009 | NA | 0.41 | NA |
| RD-18 | SMRD-18-GW081910 | Cs-134 | Filtered | -0.33 U | 1.5 | 0.45 | 0.73 |
| RD-18 | SMRD-18-GW081910 | Cs-134 | Suspended | 0.004 U | 0.92 | 0.27 | 0.44 |
| RD-18 | SMRD-18-GW081910 | Cs-134 | Total | -0.33 | NA | 0.52 | NA |
| RD-18 | SMRD-18-GW081910 | Cs-137 | Filtered | 0.38 U | 1.1 | 0.33 | 0.52 |
| RD-18 | SMRD-18-GW081910 | Cs-137 | Suspended | 0.17 U | 0.69 | 0.2 | 0.33 |
| RD-18 | SMRD-18-GW081910 | Cs-137 | Total | 0.55 | NA | 0.39 | NA |
| RD-18 | SMRD-18-GW081910 | Eu-152 | Filtered | -0.5 U | 3.4 | 1 | 1.6 |
| RD-18 | SMRD-18-GW081910 | Eu-152 | Suspended | 0.34 U | 1.8 | 0.53 | 0.85 |
| RD-18 | SMRD-18-GW081910 | Eu-152 | Total | -0.1 | NA | 1.1 | NA |
| RD-18 | SMRD-18-GW081910 | Eu-154 | Filtered | -1 U | 9.5 | 2.7 | 4.5 |
| RD-18 | SMRD-18-GW081910 | Eu-154 | Suspended | 2.1 U | 5.6 | 1.7 | 2.6 |
| RD-18 | SMRD-18-GW081910 | Eu-154 | Total | 1.2 | NA | 3.2 | NA |
| RD-18 | SMRD-18-GW081910 | Eu-155 | Filtered | 0.6 U | 3.4 | 1 | 1.7 |
| RD-18 | SMRD-18-GW081910 | Eu-155 | Suspended | 0.38 U | 1 | 0.31 | 0.49 |
| RD-18 | SMRD-18-GW081910 | Eu-155 | Total | 1 | NA | 1.1 | NA |
| RD-18 | SMRD-18-GW081910 | gross_alpha | Filtered | 5.84 | 0.41 | 0.49 | 0.21 |
| RD-18 | SMRD-18-GW081910 | gross_alpha | Suspended | 9.67 | 0.9 | 0.92 | 0.47 |
| RD-18 | SMRD-18-GW081910 | gross_alpha | Total | 15.5 | NA | 1 | NA |
| RD-18 | SMRD-18-GW081910 | gross_beta | Filtered | 5.19 | 1.1 | 0.56 | 0.66 |
| RD-18 | SMRD-18-GW081910 | gross_beta | Suspended | 0.62 | 0.83 | 0.27 | 0.49 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-18 | SMRD-18-GW081910 | gross_beta | Total | 5.81 | NA | 0.62 | NA |
| RD-18 | SMRD-18-GW081910 | H-3 | Filtered | -4 U | 140 | 41 | 67 |
| RD-18 | SMRD-18-GW081910 | H-3 | Suspended | 7.3 | 12 | 3.8 | 5 |
| RD-18 | SMRD-18-GW081910 | H-3 | Total | 3 | NA | 41 | NA |
| RD-18 | SMRD-18-GW081910 | Ho-166m | Filtered | -0.52 U | 1.8 | 0.55 | 0.88 |
| RD-18 | SMRD-18-GW081910 | Ho-166m | Suspended | -0.37 U | 1.2 | 0.36 | 0.57 |
| RD-18 | SMRD-18-GW081910 | Ho-166m | Total | -0.89 | NA | 0.65 | NA |
| RD-18 | SMRD-18-GW081910 | K-40 | Filtered | 2.4 U | 23 | 5.9 | 11 |
| RD-18 | SMRD-18-GW081910 | K-40 | Suspended | 2.6 U | 9.6 | 3.1 | 4.5 |
| RD-18 | SMRD-18-GW081910 | K-40 | Total | 5 | NA | 6.7 | NA |
| RD-18 | SMRD-18-GW081910 | Na-22 | Filtered | -0.13 U | 1.2 | 0.34 | 0.56 |
| RD-18 | SMRD-18-GW081910 | Na-22 | Suspended | 0.33 | 0.71 | 0.21 | 0.33 |
| RD-18 | SMRD-18-GW081910 | Na-22 | Total | 0.2 | NA | 0.41 | NA |
| RD-18 | SMRD-18-GW081910 | Nb-94 | Filtered | 0.29 U | 1 | 0.3 | 0.48 |
| RD-18 | SMRD-18-GW081910 | Nb-94 | Suspended | 0.1 U | 0.68 | 0.2 | 0.32 |
| RD-18 | SMRD-18-GW081910 | Nb-94 | Total | 0.39 | NA | 0.36 | NA |
| RD-18 | SMRD-18-GW081910 | Np-236 | Filtered | -1.11 U | 2.9 | 0.88 | 1.4 |
| RD-18 | SMRD-18-GW081910 | Np-236 | Suspended | 0.39 U | 1 | 0.3 | 0.49 |
| RD-18 | SMRD-18-GW081910 | Np-236 | Total | -0.72 | NA | 0.93 | NA |
| RD-18 | SMRD-18-GW081910 | Np-239 | Filtered | 1.3 U | 7.4 | 2.2 | 3.6 |
| RD-18 | SMRD-18-GW081910 | Np-239 | Suspended | 0.1 U | 3.6 | 1 | 1.7 |
| RD-18 | SMRD-18-GW081910 | Np-239 | Total | 1.4 | NA | 2.4 | NA |
| RD-18 | SMRD-18-GW081910 | Pa-231 | Filtered | -7 U | 52 | 15 | 25 |
| RD-18 | SMRD-18-GW081910 | Pa-231 | Suspended | -2 U | 29 | 8.6 | 14 |
| RD-18 | SMRD-18-GW081910 | Pa-231 | Total | -9 | NA | 18 | NA |
| RD-18 | SMRD-18-GW081910 | Pb-212 | Filtered | 1.2 U | 2.9 | 0.997 | 1.4 |
| RD-18 | SMRD-18-GW081910 | Pb-212 | Suspended | 0.65 | 1.3 | 0.47 | 0.63 |
| RD-18 | SMRD-18-GW081910 | Pb-212 | Total | 1.9 | NA | 1.1 | NA |
| RD-18 | SMRD-18-GW081910 | Pb-214 | Filtered | 2.65 | 2.5 | 0.89 | 1.2 |
| RD-18 | SMRD-18-GW081910 | Pb-214 | Suspended | 1.57 | 1.4 | 0.53 | 0.68 |
| RD-18 | SMRD-18-GW081910 | Pb-214 | Total | 4.2 | NA | 1 | NA |
| RD-18 | SMRD-18-GW081910 | Sb-125 | Filtered | -0.2 U | 12 | 3.6 | 5.9 |
| RD-18 | SMRD-18-GW081910 | Sb-125 | Suspended | -0.5 U | 5.6 | 1.7 | 2.7 |
| RD-18 | SMRD-18-GW081910 | Sb-125 | Total | -0.7 | NA | 4 | NA |
| RD-18 | SMRD-18-GW081910 | Sn-126 | Filtered | 0.5 | 1 | 0.31 | 0.49 |
| RD-18 | SMRD-18-GW081910 | Sn-126 | Suspended | 0.002 U | 0.56 | 0.16 | 0.26 |
| RD-18 | SMRD-18-GW081910 | Sn-126 | Total | 0.5 | NA | 0.35 | NA |
| RD-18 | SMRD-18-GW081910 | Sr-90 | Suspended | -0.004 U | 0.083 | 0.024 | 0.047 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-18 | SMRD-18-GW081910 | Sr-90 | Total | 0.133 | NA | 0.06 | NA |
| RD-18 | SMRD-18-GW081910 | Te-125m | Filtered | -0.06 U | 2.8 | 0.84 | 1.4 |
| RD-18 | SMRD-18-GW081910 | Te-125m | Suspended | -0.1 U | 1.3 | 0.38 | 0.63 |
| RD-18 | SMRD-18-GW081910 | Te-125m | Total | -0.16 | NA | 0.92 | NA |
| RD-18 | SMRD-18-GW081910 | Th-231 | Filtered | 0.146 | 0.036 | 0.031 | 0.012 |
| RD-18 | SMRD-18-GW081910 | Th-231 | Suspended | 0.0094 | 0.029 | 0.0085 | 0.0083 |
| RD-18 | SMRD-18-GW081910 | Th-231 | Total | 0.156 | NA | 0.032 | NA |
| RD-18 | SMRD-18-GW081910 | Th-234 | Filtered | 5.1 U | 23 | 8 | 11 |
| RD-18 | SMRD-18-GW081910 | Th-234 | Suspended | 0.5 U | 7.8 | 2.8 | 3.8 |
| RD-18 | SMRD-18-GW081910 | Th-234 | Total | 5.6 | NA | 8.4 | NA |
| RD-18 | SMRD-18-GW081910 | Tl-208 | Filtered | 0.69 U | 1.6 | 0.56 | 0.76 |
| RD-18 | SMRD-18-GW081910 | Tl-208 | Suspended | -0.15 U | 0.97 | 0.37 | 0.47 |
| RD-18 | SMRD-18-GW081910 | Tl-208 | Total | 0.53 | NA | 0.67 | NA |
| RD-18 | SMRD-18-GW081910 | Tm-171 | Filtered | 8 U | 400 | 120 | 190 |
| RD-18 | SMRD-18-GW081910 | Tm-171 | Suspended | 57 U | 130 | 38 | 61 |
| RD-18 | SMRD-18-GW081910 | Tm-171 | Total | 70 | NA | 120 | NA |
| RD-18 | SMRD-18-GW081910 | U-233/234 | Filtered | 3.39 | 0.05 | 0.19 | 0.02 |
| RD-18 | SMRD-18-GW081910 | U-233/234 | Suspended | 0.015 U | 0.042 | 0.014 | 0.018 |
| RD-18 | SMRD-18-GW081910 | U-233/234 | Total | 3.41 | NA | 0.19 | NA |
| RD-18 | SMRD-18-GW081910 | U-235/236 | Filtered | 0.146 | 0.036 | 0.031 | 0.012 |
| RD-18 | SMRD-18-GW081910 | U-235/236 | Suspended | 0.0094 | 0.029 | 0.0085 | 0.0083 |
| RD-18 | SMRD-18-GW081910 | U-235/236 | Total | 0.156 | NA | 0.032 | NA |
| RD-18 | SMRD-18-GW081910 | U-238 | Filtered | 2.48 | 0.04 | 0.15 | 0.01 |
| RD-18 | SMRD-18-GW081910 | U-238 | Suspended | 0.018 | 0.035 | 0.013 | 0.013 |
| RD-18 | SMRD-18-GW081910 | U-238 | Total | 2.5 | NA | 0.15 | NA |
| RD-19 | SMRD-019-GW081910 | Ac-227 | Filtered | -4.8 U | 12 | 3.5 | 5.7 |
| RD-19 | SMRD-019-GW081910 | Ac-227 | Suspended | 0.05 U | 5.4 | 1.6 | 2.7 |
| RD-19 | SMRD-019-GW081910 | Ac-227 | Total | -3.6 | NA | 3.7 | NA |
| RD-19 | SMRD-019-GW081910 | Ac-228 | Filtered | 8 | 4.2 | 1.5 | 2 |
| RD-19 | SMRD-019-GW081910 | Ac-228 | Suspended | 3.07 | 2 | 0.67 | 0.92 |
| RD-19 | SMRD-019-GW081910 | Ac-228 | Total | 11.1 | NA | 1.6 | NA |
| RD-19 | SMRD-019-GW081910 | Ag-108 | Filtered | -0.006 U R | 0.11 | 0.032 | 0.053 |
| RD-19 | SMRD-019-GW081910 | Ag-108 | Suspended | 0 U R | 0.057 | 0.017 | 0.028 |
| RD-19 | SMRD-019-GW081910 | Ag-108 | Total | 0.07 R | NA | 0.34 | NA |
| RD-19 | SMRD-019-GW081910 | Ag-108m | Filtered | -0.06 U R | 1.2 | 0.35 | 0.57 |
| RD-19 | SMRD-019-GW081910 | Ag-108m | Suspended | 0 U R | 0.61 | 0.18 | 0.3 |
| RD-19 | SMRD-019-GW081910 | Ag-108m | Total | 0.08 R | NA | 0.36 | NA |
| RD-19 | SMRD-019-GW081910 | Am-241 | Filtered | -0.02 U | 0.097 | 0.022 | 0.048 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-19 | SMRD-019-GW081910 | Am-241 | Suspended | 0.005 U | 0.047 | 0.011 | 0.02 |
| RD-19 | SMRD-019-GW081910 | Am-241 | Total | -0.015 | NA | 0.024 | NA |
| RD-19 | SMRD-019-GW081910 | Ba-133 | Filtered | 3.8 U R | 14 | 4.3 | 7 |
| RD-19 | SMRD-019-GW081910 | Ba-133 | Suspended | 0.08 U R | 6 | 1.8 | 2.9 |
| RD-19 | SMRD-019-GW081910 | Ba-133 | Total | 3.4 R | NA | 4.9 | NA |
| RD-19 | SMRD-019-GW081910 | Ba-137m | Filtered | 0.56 U | 1.3 | 0.39 | 0.61 |
| RD-19 | SMRD-019-GW081910 | Ba-137m | Suspended | 0.02 U | 0.74 | 0.22 | 0.35 |
| RD-19 | SMRD-019-GW081910 | Ba-137m | Total | 0.58 | NA | 0.44 | NA |
| RD-19 | SMRD-019-GW081910 | Bi-212 | Filtered | 14.7 | 7 | 3.5 | 3.2 |
| RD-19 | SMRD-019-GW081910 | Bi-212 | Suspended | 3.3 | 5.6 | 1.7 | 2.7 |
| RD-19 | SMRD-019-GW081910 | Bi-212 | Total | 18.7 | NA | 4 | NA |
| RD-19 | SMRD-019-GW081910 | Bi-214 | Filtered | 2.8 | 3.6 | 1 | 1.7 |
| RD-19 | SMRD-019-GW081910 | Bi-214 | Suspended | 0.53 U | 1.7 | 0.61 | 0.82 |
| RD-19 | SMRD-019-GW081910 | Bi-214 | Total | 3.4 | NA | 1.2 | NA |
| RD-19 | SMRD-019-GW081910 | C-14 | Filtered | 1.18 | 2.2 | 0.69 | 1.1 |
| RD-19 | SMRD-019-GW081910 | C-14 | Suspended | 1.59 R | 2.2 | 0.68 | 1.1 |
| RD-19 | SMRD-019-GW081910 | C-14 | Total | 2.76 R | NA | 0.97 | NA |
| RD-19 | SMRD-019-GW081910 | Cd-113m | Filtered | -4300 U | 19000 | 5700 | 9300 |
| RD-19 | SMRD-019-GW081910 | Cd-113m | Suspended | 1500 U | 6900 | 2000 | 3300 |
| RD-19 | SMRD-019-GW081910 | Cd-113m | Total | -2700 | NA | 6100 | NA |
| RD-19 | SMRD-019-GW081910 | Cf-249 | Filtered | -0.9 U R | 7.1 | 2.1 | 3.5 |
| RD-19 | SMRD-019-GW081910 | Cf-249 | Suspended | 0.32 U R | 2.9 | 0.86 | 1.4 |
| RD-19 | SMRD-019-GW081910 | Cf-249 | Total | -0.4 R | NA | 2.2 | NA |
| RD-19 | SMRD-019-GW081910 | Cm-243/244 | Filtered | 0.021 U | 0.11 | 0.029 | 0.054 |
| RD-19 | SMRD-019-GW081910 | Cm-243/244 | Suspended | 0.052 | 0.061 | 0.022 | 0.029 |
| RD-19 | SMRD-019-GW081910 | Cm-243/244 | Total | 0.073 | NA | 0.037 | NA |
| RD-19 | SMRD-019-GW081910 | Cm-245/246 | Filtered | 0.0067 U | 0.022 | 0.0061 | 0.0076 |
| RD-19 | SMRD-019-GW081910 | Cm-245/246 | Suspended | 0.0109 U | 0.029 | 0.0084 | 0.012 |
| RD-19 | SMRD-019-GW081910 | Cm-245/246 | Total | 0.018 | NA | 0.01 | NA |
| RD-19 | SMRD-019-GW081910 | Co-60 | Filtered | 0.55 U | 1.4 | 0.41 | 0.64 |
| RD-19 | SMRD-019-GW081910 | Co-60 | Suspended | 0.1 U | 0.65 | 0.19 | 0.3 |
| RD-19 | SMRD-019-GW081910 | Co-60 | Total | 0.63 | NA | 0.45 | NA |
| RD-19 | SMRD-019-GW081910 | Cs-134 | Filtered | 0.32 U | 1.5 | 0.46 | 0.74 |
| RD-19 | SMRD-019-GW081910 | Cs-134 | Suspended | 0.337 U | 0.73 | 0.099 | 0.35 |
| RD-19 | SMRD-019-GW081910 | Cs-134 | Total | 0.36 | NA | 0.5 | NA |
| RD-19 | SMRD-019-GW081910 | Cs-137 | Filtered | 0.6 U | 1.4 | 0.41 | 0.64 |
| RD-19 | SMRD-019-GW081910 | Cs-137 | Suspended | 0.02 U | 0.78 | 0.23 | 0.37 |
| RD-19 | SMRD-019-GW081910 | Cs-137 | Total | 0.61 | NA | 0.47 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-19 | SMRD-019-GW081910 | Eu-152 | Filtered | 1 U | 4.1 | 1.2 | 2 |
| RD-19 | SMRD-019-GW081910 | Eu-152 | Suspended | 0.02 U | 1.7 | 0.5 | 0.83 |
| RD-19 | SMRD-019-GW081910 | Eu-152 | Total | 1 | NA | 1.3 | NA |
| RD-19 | SMRD-019-GW081910 | Eu-154 | Filtered | -1.3 U | 11 | 3.3 | 5.3 |
| RD-19 | SMRD-019-GW081910 | Eu-154 | Suspended | 1.3 U | 5.5 | 1.6 | 2.6 |
| RD-19 | SMRD-019-GW081910 | Eu-154 | Total | -0.07 | NA | 3.7 | NA |
| RD-19 | SMRD-019-GW081910 | Eu-155 | Filtered | 0.7 U | 4.2 | 1.3 | 2.1 |
| RD-19 | SMRD-019-GW081910 | Eu-155 | Suspended | -0.24 U | 1.1 | 0.34 | 0.55 |
| RD-19 | SMRD-019-GW081910 | Eu-155 | Total | 0.3 | NA | 1.3 | NA |
| RD-19 | SMRD-019-GW081910 | gross_alpha | Filtered | 29.1 | 0.4 | 1.9 | 0.2 |
| RD-19 | SMRD-019-GW081910 | gross_alpha | Suspended | 0.47 | 0.41 | 0.16 | 0.21 |
| RD-19 | SMRD-019-GW081910 | gross_alpha | Total | 29.6 | NA | 2 | NA |
| RD-19 | SMRD-019-GW081910 | gross_beta | Filtered | 16.8 | 6.1 | 2.5 | 3.6 |
| RD-19 | SMRD-019-GW081910 | gross_beta | Suspended | 0.99 | 0.64 | 0.23 | 0.37 |
| RD-19 | SMRD-019-GW081910 | gross_beta | Total | 17.8 | NA | 2.5 | NA |
| RD-19 | SMRD-019-GW081910 | H-3 | Filtered | -43 U | 150 | 42 | 71 |
| RD-19 | SMRD-019-GW081910 | H-3 | Suspended | 13.3 R | 20 | 6.3 | 9.6 |
| RD-19 | SMRD-019-GW081910 | H-3 | Total | -30 R | NA | 42 | NA |
| RD-19 | SMRD-019-GW081910 | Ho-166m | Filtered | -0.13 U | 2.3 | 0.68 | 1.1 |
| RD-19 | SMRD-019-GW081910 | Ho-166m | Suspended | 0.01 U | 1.1 | 0.32 | 0.53 |
| RD-19 | SMRD-019-GW081910 | Ho-166m | Total | -0.17 | NA | 0.73 | NA |
| RD-19 | SMRD-019-GW081910 | I-129 | Filtered | 0.06 U | 0.45 | 0.14 | 0.22 |
| RD-19 | SMRD-019-GW081910 | I-129 | Suspended | 0.18 U | 0.47 | 0.14 | 0.23 |
| RD-19 | SMRD-019-GW081910 | I-129 | Total | 0.24 | NA | 0.2 | NA |
| RD-19 | SMRD-019-GW081910 | K-40 | Filtered | -11.5 U | 21 | 9.4 | 10 |
| RD-19 | SMRD-019-GW081910 | K-40 | Suspended | -4.4 U | 12 | 4.1 | 5.5 |
| RD-19 | SMRD-019-GW081910 | K-40 | Total | -15.4 | NA | 9.9 | NA |
| RD-19 | SMRD-019-GW081910 | Na-22 | Filtered | -0.16 U | 1.4 | 0.41 | 0.66 |
| RD-19 | SMRD-019-GW081910 | Na-22 | Suspended | 0.23 U | 0.69 | 0.2 | 0.32 |
| RD-19 | SMRD-019-GW081910 | Na-22 | Total | 0.19 | NA | 0.45 | NA |
| RD-19 | SMRD-019-GW081910 | Nb-94 | Filtered | 0 U | 1.5 | 0.42 | 0.7 |
| RD-19 | SMRD-019-GW081910 | Nb-94 | Suspended | -0.11 U | 0.65 | 0.19 | 0.31 |
| RD-19 | SMRD-019-GW081910 | Nb-94 | Total | -0.08 | NA | 0.43 | NA |
| RD-19 | SMRD-019-GW081910 | Np-236 | Filtered | 0.04 U | 3 | 0.88 | 1.5 |
| RD-19 | SMRD-019-GW081910 | Np-236 | Suspended | 0.03 U | 1.2 | 0.35 | 0.58 |
| RD-19 | SMRD-019-GW081910 | Np-236 | Total | -0.03 | NA | 1.1 | NA |
| RD-19 | SMRD-019-GW081910 | Np-237 | Suspended | 0.036 | 0.081 | 0.026 | 0.024 |
| RD-19 | SMRD-019-GW081910 | Np-237 | Total | 0.038 | NA | 0.027 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-19 | SMRD-019-GW081910 | Np-239 | Filtered | -3.4 U | 11 | 3.2 | 5.3 |
| RD-19 | SMRD-019-GW081910 | Np-239 | Suspended | -0.7 U | 3.7 | 1.1 | 1.8 |
| RD-19 | SMRD-019-GW081910 | Np-239 | Total | -3.4 | NA | 3.2 | NA |
| RD-19 | SMRD-019-GW081910 | Pa-231 | Filtered | -17 U | 70 | 21 | 34 |
| RD-19 | SMRD-019-GW081910 | Pa-231 | Suspended | 4.6 U | 25 | 7.4 | 12 |
| RD-19 | SMRD-019-GW081910 | Pa-231 | Total | -12 | NA | 22 | NA |
| RD-19 | SMRD-019-GW081910 | Pb-212 | Filtered | 4.3 | 3.4 | 1.6 | 1.6 |
| RD-19 | SMRD-019-GW081910 | Pb-212 | Suspended | 0.6 | 1.1 | 0.37 | 0.53 |
| RD-19 | SMRD-019-GW081910 | Pb-212 | Total | 5.1 | NA | 1.8 | NA |
| RD-19 | SMRD-019-GW081910 | Pb-214 | Filtered | 6.3 | 3.2 | 1.1 | 1.6 |
| RD-19 | SMRD-019-GW081910 | Pb-214 | Suspended | -0.55 U | 1.5 | 0.67 | 0.71 |
| RD-19 | SMRD-019-GW081910 | Pb-214 | Total | 5.7 | NA | 1.3 | NA |
| RD-19 | SMRD-019-GW081910 | Pu-238 | Filtered | -0.008 U | 0.06 | 0.012 | 0.027 |
| RD-19 | SMRD-019-GW081910 | Pu-238 | Suspended | 0.003 U | 0.061 | 0.015 | 0.029 |
| RD-19 | SMRD-019-GW081910 | Pu-238 | Total | -0.005 | NA | 0.019 | NA |
| RD-19 | SMRD-019-GW081910 | Pu-239/240 | Filtered | 0.0014 U | 0.033 | 0.0062 | 0.011 |
| RD-19 | SMRD-019-GW081910 | Pu-239/240 | Suspended | -0.0043 U | 0.039 | 0.0064 | 0.016 |
| RD-19 | SMRD-019-GW081910 | Pu-239/240 | Total | -0.0029 | NA | 0.0089 | NA |
| RD-19 | SMRD-019-GW081910 | Pu-242 | Filtered | -0.0007 U | 0.037 | 0.0065 | 0.014 |
| RD-19 | SMRD-019-GW081910 | Pu-242 | Suspended | 0.0037 U | 0.041 | 0.0096 | 0.017 |
| RD-19 | SMRD-019-GW081910 | Pu-242 | Total | 0.003 | NA | 0.012 | NA |
| RD-19 | SMRD-019-GW081910 | Ra-226 | Filtered | 0.94 | 0.16 | 0.12 | 0.08 |
| RD-19 | SMRD-019-GW081910 | Ra-226 | Suspended | 0.07 U | 0.14 | 0.043 | 0.076 |
| RD-19 | SMRD-019-GW081910 | Ra-226 | Total | 1.01 | NA | 0.13 | NA |
| RD-19 | SMRD-019-GW081910 | Sb-125 | Filtered | 0.9 U | 16 | 4.9 | 8 |
| RD-19 | SMRD-019-GW081910 | Sb-125 | Suspended | 1.3 U | 5.2 | 1.6 | 2.5 |
| RD-19 | SMRD-019-GW081910 | Sb-125 | Total | 4.2 | NA | 4.5 | NA |
| RD-19 | SMRD-019-GW081910 | Sn-126 | Filtered | 0.07 U | 1.2 | 0.36 | 0.59 |
| RD-19 | SMRD-019-GW081910 | Sn-126 | Suspended | 0 U | 0.83 | 0.24 | 0.4 |
| RD-19 | SMRD-019-GW081910 | Sn-126 | Total | 0.66 | NA | 0.53 | NA |
| RD-19 | SMRD-019-GW081910 | Sr-90 | Filtered | 0.01 U | 0.25 | 0.071 | 0.15 |
| RD-19 | SMRD-019-GW081910 | Sr-90 | Suspended | -0.053 U | 0.17 | 0.046 | 0.1 |
| RD-19 | SMRD-019-GW081910 | Sr-90 | Total | -0.043 | NA | 0.084 | NA |
| RD-19 | SMRD-019-GW081910 | Tc-99 | Filtered | 0.04 U | 1.7 | 0.51 | 0.84 |
| RD-19 | SMRD-019-GW081910 | Tc-99 | Suspended | -0.17 U | 1.2 | 0.36 | 0.59 |
| RD-19 | SMRD-019-GW081910 | Tc-99 | Total | -0.13 | NA | 0.62 | NA |
| RD-19 | SMRD-019-GW081910 | Te-125m | Filtered | 0.2 U | 3.8 | 1.1 | 1.9 |
| RD-19 | SMRD-019-GW081910 | Te-125m | Suspended | 0.3 U | 1.2 | 0.36 | 0.59 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-19 | SMRD-019-GW081910 | Te-125m | Total | 3.9 | NA | 4.2 | NA |
| RD-19 | SMRD-019-GW081910 | Th-231 | Filtered | 0.719 | 0.049 | 0.083 | 0.016 |
| RD-19 | SMRD-019-GW081910 | Th-231 | Suspended | -0.0021 U | 0.028 | 0.0066 | 0.0066 |
| RD-19 | SMRD-019-GW081910 | Th-231 | Total | 0.717 | NA | 0.083 | NA |
| RD-19 | SMRD-019-GW081910 | Th-234 | Filtered | 52 | 31 | 14 | 15 |
| RD-19 | SMRD-019-GW081910 | Th-234 | Suspended | -2.8 U | 8 | 2.7 | 3.9 |
| RD-19 | SMRD-019-GW081910 | Th-234 | Total | 46 | NA | 14 | NA |
| RD-19 | SMRD-019-GW081910 | Tl-208 | Filtered | 1.6 | 1.8 | 0.93 | 0.89 |
| RD-19 | SMRD-019-GW081910 | Tl-208 | Suspended | -0.13 U | 0.81 | 0.28 | 0.39 |
| RD-19 | SMRD-019-GW081910 | Tl-208 | Total | 1.5 | NA | 1 | NA |
| RD-19 | SMRD-019-GW081910 | Tm-171 | Filtered | -540 R U | 480 | 150 | 230 |
| RD-19 | SMRD-019-GW081910 | Tm-171 | Suspended | 2 U | 92 | 27 | 45 |
| RD-19 | SMRD-019-GW081910 | Tm-171 | Total | -540 R | NA | 160 | NA |
| RD-19 | SMRD-019-GW081910 | U-233/234 | Filtered | 14.1 | 0.04 | 0.66 | 0.01 |
| RD-19 | SMRD-019-GW081910 | U-233/234 | Suspended | 0.028 | 0.027 | 0.014 | 0.008 |
| RD-19 | SMRD-019-GW081910 | U-233/234 | Total | 14.1 | NA | 0.66 | NA |
| RD-19 | SMRD-019-GW081910 | U-235/236 | Filtered | 0.719 | 0.049 | 0.083 | 0.016 |
| RD-19 | SMRD-019-GW081910 | U-235/236 | Suspended | -0.0021 U | 0.028 | 0.0066 | 0.0066 |
| RD-19 | SMRD-019-GW081910 | U-235/236 | Total | 0.717 | NA | 0.083 | NA |
| RD-19 | SMRD-019-GW081910 | U-238 | Filtered | 13.3 | 0.04 | 0.63 | 0.02 |
| RD-19 | SMRD-019-GW081910 | U-238 | Suspended | 0.027 | 0.023 | 0.013 | 0.005 |
| RD-19 | SMRD-019-GW081910 | U-238 | Total | 13.3 | NA | 0.63 | NA |
| RD-20 | SMRD-20-GW082610 | Ac-227 | Filtered | -9.2 L U | 10 | 3.2 | 5.1 |
| RD-20 | SMRD-20-GW082610 | Ac-227 | Suspended | -3.5 L U | 4.6 | 1.4 | 2.2 |
| RD-20 | SMRD-20-GW082610 | Ac-227 | Total | -12.7 R | NA | 3.5 | NA |
| RD-20 | SMRD-20-GW082610 | Ac-228 | Filtered | 4.4 | 3.5 | 1.2 | 1.6 |
| RD-20 | SMRD-20-GW082610 | Ac-228 | Suspended | 2.67 B | 1.7 | 0.74 | 0.78 |
| RD-20 | SMRD-20-GW082610 | Ac-228 | Total | 7.1 | NA | 1.4 | NA |
| RD-20 | SMRD-20-GW082610 | Ag-108 | Filtered | 0.013 U R | 0.09 | 0.027 | 0.043 |
| RD-20 | SMRD-20-GW082610 | Ag-108 | Suspended | 0.014 U R | 0.051 | 0.015 | 0.025 |
| RD-20 | SMRD-20-GW082610 | Ag-108 | Total | 0.027 R | NA | 0.031 | NA |
| RD-20 | SMRD-20-GW082610 | Ag-108m | Filtered | 0.14 U R | 0.97 | 0.29 | 0.46 |
| RD-20 | SMRD-20-GW082610 | Ag-108m | Suspended | 0.15 U R | 0.55 | 0.16 | 0.26 |
| RD-20 | SMRD-20-GW082610 | Ag-108m | Total | 0.29 R | NA | 0.33 | NA |
| RD-20 | SMRD-20-GW082610 | Ba-133 | Filtered | 0.9 U R | 12 | 3.6 | 5.9 |
| RD-20 | SMRD-20-GW082610 | Ba-133 | Suspended | 0.04 U R | 4.7 | 1.4 | 2.2 |
| RD-20 | SMRD-20-GW082610 | Ba-133 | Total | 0.9 R | NA | 3.8 | NA |
| RD-20 | SMRD-20-GW082610 | Ba-137m | Filtered | 0.03 U | 1.1 | 0.32 | 0.52 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-20 | SMRD-20-GW082610 | Ba-137m | Suspended | 0.02 U | 0.68 | 0.2 | 0.32 |
| RD-20 | SMRD-20-GW082610 | Ba-137m | Total | 0.05 | NA | 0.37 | NA |
| RD-20 | SMRD-20-GW082610 | Bi-212 | Filtered | 1.4 U | 12 | 3.2 | 5.5 |
| RD-20 | SMRD-20-GW082610 | Bi-212 | Suspended | 4.2 | 5.6 | 1.7 | 2.6 |
| RD-20 | SMRD-20-GW082610 | Bi-212 | Total | 5.5 | NA | 3.7 | NA |
| RD-20 | SMRD-20-GW082610 | Bi-214 | Filtered | 0.4 U | 2.9 | 1 | 1.4 |
| RD-20 | SMRD-20-GW082610 | Bi-214 | Suspended | 0.51 U | 1.6 | 0.51 | 0.76 |
| RD-20 | SMRD-20-GW082610 | Bi-214 | Total | 1 | NA | 1.2 | NA |
| RD-20 | SMRD-20-GW082610 | Cd-113m | Filtered | -100 U | 15000 | 4300 | 7100 |
| RD-20 | SMRD-20-GW082610 | Cd-113m | Suspended | 600 U | 7200 | 2100 | 3500 |
| RD-20 | SMRD-20-GW082610 | Cd-113m | Total | 500 | NA | 4800 | NA |
| RD-20 | SMRD-20-GW082610 | Cf-249 | Filtered | 0.4 U R | 4.6 | 1.4 | 2.2 |
| RD-20 | SMRD-20-GW082610 | Cf-249 | Suspended | 0.008 U R | 3 | 0.87 | 1.4 |
| RD-20 | SMRD-20-GW082610 | Cf-249 | Total | 0.4 R | NA | 1.6 | NA |
| RD-20 | SMRD-20-GW082610 | Co-60 | Filtered | 0.47 U | 1.3 | 0.38 | 0.6 |
| RD-20 | SMRD-20-GW082610 | Co-60 | Suspended | 0.08 U | 0.82 | 0.23 | 0.38 |
| RD-20 | SMRD-20-GW082610 | Co-60 | Total | 0.55 | NA | 0.45 | NA |
| RD-20 | SMRD-20-GW082610 | Cs-134 | Filtered | -0.28 U | 1.3 | 0.37 | 0.6 |
| RD-20 | SMRD-20-GW082610 | Cs-134 | Suspended | 0.66 SK | 1.2 | 0.19 | 0.56 |
| RD-20 | SMRD-20-GW082610 | Cs-134 | Total | 0.38 SK | NA | 0.42 | NA |
| RD-20 | SMRD-20-GW082610 | Cs-137 | Filtered | 0.03 U | 1.2 | 0.33 | 0.55 |
| RD-20 | SMRD-20-GW082610 | Cs-137 | Suspended | 0.02 U | 0.72 | 0.21 | 0.34 |
| RD-20 | SMRD-20-GW082610 | Cs-137 | Total | 0.05 | NA | 0.39 | NA |
| RD-20 | SMRD-20-GW082610 | Eu-152 | Filtered | 0 U | 3.5 | 1 | 1.7 |
| RD-20 | SMRD-20-GW082610 | Eu-152 | Suspended | -0.04 U | 1.8 | 0.53 | 0.86 |
| RD-20 | SMRD-20-GW082610 | Eu-152 | Total | -0.04 | NA | 1.2 | NA |
| RD-20 | SMRD-20-GW082610 | Eu-154 | Filtered | 2.4 U | 9.1 | 2.7 | 4.3 |
| RD-20 | SMRD-20-GW082610 | Eu-154 | Suspended | -0.4 U | 5.6 | 1.6 | 2.6 |
| RD-20 | SMRD-20-GW082610 | Eu-154 | Total | 1.9 | NA | 3.1 | NA |
| RD-20 | SMRD-20-GW082610 | Eu-155 | Filtered | 0.118 U | 3.4 | 0.997 | 1.6 |
| RD-20 | SMRD-20-GW082610 | Eu-155 | Suspended | 0.48 U | 1.1 | 0.34 | 0.55 |
| RD-20 | SMRD-20-GW082610 | Eu-155 | Total | 0.6 SK | NA | 1.1 | NA |
| RD-20 | SMRD-20-GW082610 | gross_alpha | Filtered | 7.59 | 0.46 | 0.58 | 0.24 |
| RD-20 | SMRD-20-GW082610 | gross_alpha | Suspended | 0.45 | 0.6 | 0.21 | 0.3 |
| RD-20 | SMRD-20-GW082610 | gross_alpha | Total | 8.04 | NA | 0.62 | NA |
| RD-20 | SMRD-20-GW082610 | gross_beta | Filtered | 9.5 | 2.5 | 1.1 | 1.4 |
| RD-20 | SMRD-20-GW082610 | gross_beta | Suspended | 0.02 U | 0.68 | 0.19 | 0.4 |
| RD-20 | SMRD-20-GW082610 | gross_beta | Total | 9.5 | NA | 1.2 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-20 | SMRD-20-GW082610 | H-3 | Filtered | -49 U | 130 | 40 | 66 |
| RD-20 | SMRD-20-GW082610 | H-3 | Suspended | -5 U R | 23 | 5.9 | 10 |
| RD-20 | SMRD-20-GW082610 | H-3 | Total | -54 R | NA | 40 | NA |
| RD-20 | SMRD-20-GW082610 | Ho-166m | Filtered | -0.15 U | 2 | 0.59 | 0.97 |
| RD-20 | SMRD-20-GW082610 | Ho-166m | Suspended | -0.09 U | 1.1 | 0.31 | 0.51 |
| RD-20 | SMRD-20-GW082610 | Ho-166m | Total | -0.24 SK | NA | 0.67 | NA |
| RD-20 | SMRD-20-GW082610 | K-40 | Filtered | 7.2 U | 23 | 6 | 11 |
| RD-20 | SMRD-20-GW082610 | K-40 | Suspended | 3.8 U | 9.4 | 2.7 | 4.4 |
| RD-20 | SMRD-20-GW082610 | K-40 | Total | 11 | NA | 6.6 | NA |
| RD-20 | SMRD-20-GW082610 | Na-22 | Filtered | -0.14 U | 1.5 | 0.42 | 0.69 |
| RD-20 | SMRD-20-GW082610 | Na-22 | Suspended | 0.06 U | 0.79 | 0.22 | 0.36 |
| RD-20 | SMRD-20-GW082610 | Na-22 | Total | -0.07 | NA | 0.48 | NA |
| RD-20 | SMRD-20-GW082610 | Nb-94 | Filtered | 0.002 U | 1.1 | 0.33 | 0.55 |
| RD-20 | SMRD-20-GW082610 | Nb-94 | Suspended | -0.04 U | 0.7 | 0.21 | 0.34 |
| RD-20 | SMRD-20-GW082610 | Nb-94 | Total | -0.04 | NA | 0.39 | NA |
| RD-20 | SMRD-20-GW082610 | Np-236 | Filtered | -0.58 U | 2.9 | 0.87 | 1.4 |
| RD-20 | SMRD-20-GW082610 | Np-236 | Suspended | -0.02 U | 1 | 0.3 | 0.49 |
| RD-20 | SMRD-20-GW082610 | Np-236 | Total | -0.6 SK | NA | 0.92 | NA |
| RD-20 | SMRD-20-GW082610 | Np-239 | Filtered | 0.1 U | 7.7 | 2.3 | 3.7 |
| RD-20 | SMRD-20-GW082610 | Np-239 | Suspended | 0.52 U | 3 | 0.88 | 1.4 |
| RD-20 | SMRD-20-GW082610 | Np-239 | Total | 0.7 | NA | 2.4 | NA |
| RD-20 | SMRD-20-GW082610 | Pa-231 | Filtered | 15 U | 51 | 15 | 25 |
| RD-20 | SMRD-20-GW082610 | Pa-231 | Suspended | 0.9 U | 27 | 7.8 | 13 |
| RD-20 | SMRD-20-GW082610 | Pa-231 | Total | 16 | NA | 17 | NA |
| RD-20 | SMRD-20-GW082610 | Pb-212 | Filtered | 0.92 U | 2.9 | 0.99 | 1.4 |
| RD-20 | SMRD-20-GW082610 | Pb-212 | Suspended | 0.09 U | 1.3 | 0.42 | 0.62 |
| RD-20 | SMRD-20-GW082610 | Pb-212 | Total | 1 | NA | 1.1 | NA |
| RD-20 | SMRD-20-GW082610 | Pb-214 | Filtered | 1.1 U | 2.8 | 1.1 | 1.3 |
| RD-20 | SMRD-20-GW082610 | Pb-214 | Suspended | 0.33 U | 1.5 | 0.42 | 0.75 |
| RD-20 | SMRD-20-GW082610 | Pb-214 | Total | 1.4 | NA | 1.1 | NA |
| RD-20 | SMRD-20-GW082610 | Sb-125 | Filtered | -0.6 U | 14 | 4.1 | 6.7 |
| RD-20 | SMRD-20-GW082610 | Sb-125 | Suspended | 0.3 U | 5.9 | 1.7 | 2.8 |
| RD-20 | SMRD-20-GW082610 | Sb-125 | Total | -0.2 SK | NA | 4.4 | NA |
| RD-20 | SMRD-20-GW082610 | Sn-126 | Filtered | 0.37 U | 0.95 | 0.28 | 0.45 |
| RD-20 | SMRD-20-GW082610 | Sn-126 | Suspended | 0.04 U | 0.75 | 0.22 | 0.36 |
| RD-20 | SMRD-20-GW082610 | Sn-126 | Total | 0.41 | NA | 0.36 | NA |
| RD-20 | SMRD-20-GW082610 | Sr-90 | Filtered | -0.039 U | 0.14 | 0.037 | 0.076 |
| RD-20 | SMRD-20-GW082610 | Sr-90 | Suspended | -0.015 U | 0.1 | 0.029 | 0.058 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-20 | SMRD-20-GW082610 | Sr-90 | Total | -0.054 | NA | 0.047 | NA |
| RD-20 | SMRD-20-GW082610 | Te-125m | Filtered | -0.13 U | 3.2 | 0.94 | 1.6 |
| RD-20 | SMRD-20-GW082610 | Te-125m | Suspended | 0.08 U | 1.4 | 0.4 | 0.66 |
| RD-20 | SMRD-20-GW082610 | Te-125m | Total | -0.05 SK | NA | 1 | NA |
| RD-20 | SMRD-20-GW082610 | Th-231 | Filtered | 0.144 | 0.027 | 0.028 | 0.008 |
| RD-20 | SMRD-20-GW082610 | Th-231 | Suspended | 0.0024 U | 0.0066 | 0.0024 | 0.0056 |
| RD-20 | SMRD-20-GW082610 | Th-231 | Total | 0.146 | NA | 0.028 | NA |
| RD-20 | SMRD-20-GW082610 | Th-234 | Filtered | 2 U | 21 | 6.6 | 10 |
| RD-20 | SMRD-20-GW082610 | Th-234 | Suspended | -1.8 U | 7.7 | 3.4 | 3.8 |
| RD-20 | SMRD-20-GW082610 | Th-234 | Total | 0.2 | NA | 7.4 | NA |
| RD-20 | SMRD-20-GW082610 | Tl-208 | Filtered | 0.86 | 1.6 | 0.54 | 0.76 |
| RD-20 | SMRD-20-GW082610 | Tl-208 | Suspended | 0.51 | 0.84 | 0.33 | 0.4 |
| RD-20 | SMRD-20-GW082610 | Tl-208 | Total | 1.37 | NA | 0.63 | NA |
| RD-20 | SMRD-20-GW082610 | Tm-171 | Filtered | 5 U | 450 | 130 | 220 |
| RD-20 | SMRD-20-GW082610 | Tm-171 | Suspended | -24 U | 130 | 39 | 64 |
| RD-20 | SMRD-20-GW082610 | Tm-171 | Total | -20 | NA | 140 | NA |
| RD-20 | SMRD-20-GW082610 | U-233/234 | Filtered | 3.8 K | 0.03 | 0.2 | 0.01 |
| RD-20 | SMRD-20-GW082610 | U-233/234 | Suspended | 0.0176 | 0.014 | 0.0065 | 0.0045 |
| RD-20 | SMRD-20-GW082610 | U-233/234 | Total | 3.82 | NA | 0.2 | NA |
| RD-20 | SMRD-20-GW082610 | U-235/236 | Filtered | 0.144 | 0.027 | 0.028 | 0.008 |
| RD-20 | SMRD-20-GW082610 | U-235/236 | Suspended | 0.0024 U | 0.0066 | 0.0024 | 0.0056 |
| RD-20 | SMRD-20-GW082610 | U-235/236 | Total | 0.146 | NA | 0.028 | NA |
| RD-20 | SMRD-20-GW082610 | U-238 | Filtered | 3.37 | 0.03 | 0.18 | 0.009 |
| RD-20 | SMRD-20-GW082610 | U-238 | Suspended | 0.0175 | 0.026 | 0.0085 | 0.01 |
| RD-20 | SMRD-20-GW082610 | U-238 | Total | 3.39 | NA | 0.18 | NA |
| RD-21 | SMRD-021-GW090910 | Ac-227 | Filtered | 2.8 U | 6.5 | 2 | 3.2 |
| RD-21 | SMRD-021-GW090910 | Ac-227 | Suspended | -1 U | 4.3 | 1.3 | 2.1 |
| RD-21 | SMRD-021-GW090910 | Ac-227 | Total | 1.8 | NA | 2.4 | NA |
| RD-21 | SMRD-021-GW090910 | Ac-228 | Filtered | 3.6 | 4 | 1.3 | 1.9 |
| RD-21 | SMRD-021-GW090910 | Ac-228 | Suspended | 1.77 B | 2.3 | 0.73 | 1.1 |
| RD-21 | SMRD-021-GW090910 | Ac-228 | Total | 5.3 | NA | 1.5 | NA |
| RD-21 | SMRD-021-GW090910 | Ag-108 | Filtered | 0.002 U R | 0.08 | 0.023 | 0.038 |
| RD-21 | SMRD-021-GW090910 | Ag-108 | Suspended | 0.007 U R | 0.042 | 0.012 | 0.02 |
| RD-21 | SMRD-021-GW090910 | Ag-108 | Total | 0.009 R | NA | 0.026 | NA |
| RD-21 | SMRD-021-GW090910 | Ag-108m | Filtered | 0.02 U R | 0.86 | 0.25 | 0.41 |
| RD-21 | SMRD-021-GW090910 | Ag-108m | Suspended | 0.07 U R | 0.45 | 0.13 | 0.21 |
| RD-21 | SMRD-021-GW090910 | Ag-108m | Total | 0.09 R | NA | 0.28 | NA |
| RD-21 | SMRD-021-GW090910 | Ba-133 | Filtered | -2.3 U R | 12 | 3.7 | 6 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-21 | SMRD-021-GW090910 | Ba-133 | Suspended | -1.1 U R | 6.5 | 1.9 | 3.1 |
| RD-21 | SMRD-021-GW090910 | Ba-133 | Total | -3.4 R | NA | 4.2 | NA |
| RD-21 | SMRD-021-GW090910 | Ba-137m | Filtered | 0.24 U | 1.2 | 0.34 | 0.55 |
| RD-21 | SMRD-021-GW090910 | Ba-137m | Suspended | 0 U | 0.7 | 0.2 | 0.33 |
| RD-21 | SMRD-021-GW090910 | Ba-137m | Total | 0.24 | NA | 0.4 | NA |
| RD-21 | SMRD-021-GW090910 | Bi-212 | Filtered | -0.8 U | 11 | 4.2 | 5.5 |
| RD-21 | SMRD-021-GW090910 | Bi-212 | Suspended | 3.3 | 5.3 | 1.6 | 2.5 |
| RD-21 | SMRD-021-GW090910 | Bi-212 | Total | 2.4 | NA | 4.5 | NA |
| RD-21 | SMRD-021-GW090910 | Bi-214 | Filtered | 0.55 U | 2.8 | 0.89 | 1.3 |
| RD-21 | SMRD-021-GW090910 | Bi-214 | Suspended | 2.88 | 1.8 | 0.75 | 0.88 |
| RD-21 | SMRD-021-GW090910 | Bi-214 | Total | 3.4 | NA | 1.2 | NA |
| RD-21 | SMRD-021-GW090910 | Cd-113m | Filtered | -2500 U | 14000 | 4000 | 6600 |
| RD-21 | SMRD-021-GW090910 | Cd-113m | Suspended | 700 U | 6900 | 2100 | 3400 |
| RD-21 | SMRD-021-GW090910 | Cd-113m | Total | -1800 | NA | 4500 | NA |
| RD-21 | SMRD-021-GW090910 | Cf-249 | Filtered | 2.4 U R | 5.2 | 1.6 | 2.5 |
| RD-21 | SMRD-021-GW090910 | Cf-249 | Suspended | -0.08 U R | 3.1 | 0.9 | 1.5 |
| RD-21 | SMRD-021-GW090910 | Cf-249 | Total | 2.4 R | NA | 1.8 | NA |
| RD-21 | SMRD-021-GW090910 | Co-60 | Filtered | -0.01 U | 1.3 | 0.36 | 0.59 |
| RD-21 | SMRD-021-GW090910 | Co-60 | Suspended | 0.14 U | 0.81 | 0.24 | 0.38 |
| RD-21 | SMRD-021-GW090910 | Co-60 | Total | 0.13 | NA | 0.43 | NA |
| RD-21 | SMRD-021-GW090910 | Cs-134 | Filtered | 0.32 U | 1.4 | 0.41 | 0.67 |
| RD-21 | SMRD-021-GW090910 | Cs-134 | Suspended | -0.44 U | 0.98 | 0.3 | 0.47 |
| RD-21 | SMRD-021-GW090910 | Cs-134 | Total | -0.12 SK | NA | 0.51 | NA |
| RD-21 | SMRD-021-GW090910 | Cs-137 | Filtered | 0.26 U | 1.2 | 0.36 | 0.58 |
| RD-21 | SMRD-021-GW090910 | Cs-137 | Suspended | 0 U | 0.74 | 0.21 | 0.35 |
| RD-21 | SMRD-021-GW090910 | Cs-137 | Total | 0.26 | NA | 0.42 | NA |
| RD-21 | SMRD-021-GW090910 | Eu-152 | Filtered | 0.62 U | 3.2 | 0.94 | 1.5 |
| RD-21 | SMRD-021-GW090910 | Eu-152 | Suspended | -0.01 U | 1.6 | 0.47 | 0.78 |
| RD-21 | SMRD-021-GW090910 | Eu-152 | Total | 0.6 | NA | 1.1 | NA |
| RD-21 | SMRD-021-GW090910 | Eu-154 | Filtered | 1.3 U | 9.9 | 2.9 | 4.7 |
| RD-21 | SMRD-021-GW090910 | Eu-154 | Suspended | -1 U | 6.4 | 1.9 | 3 |
| RD-21 | SMRD-021-GW090910 | Eu-154 | Total | 0.3 | NA | 3.4 | NA |
| RD-21 | SMRD-021-GW090910 | Eu-155 | Filtered | 0.02 U | 3.2 | 0.95 | 1.6 |
| RD-21 | SMRD-021-GW090910 | Eu-155 | Suspended | 0.23 U | 1.2 | 0.36 | 0.58 |
| RD-21 | SMRD-021-GW090910 | Eu-155 | Total | 0.3 SK | NA | 1 | NA |
| RD-21 | SMRD-021-GW090910 | gross_alpha | Filtered | 14.1 | 0.48 | 0.88 | 0.26 |
| RD-21 | SMRD-021-GW090910 | gross_alpha | Suspended | 0.19 U | 0.45 | 0.14 | 0.24 |
| RD-21 | SMRD-021-GW090910 | gross_alpha | Total | 14.3 | NA | 0.89 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-21 | SMRD-021-GW090910 | gross_beta | Filtered | 6 | 2.4 | 0.98 | 1.4 |
| RD-21 | SMRD-021-GW090910 | gross_beta | Suspended | 0.59 | 0.77 | 0.25 | 0.45 |
| RD-21 | SMRD-021-GW090910 | gross_beta | Total | 6.6 | NA | 1 | NA |
| RD-21 | SMRD-021-GW090910 | H-3 | Filtered | -33 U | 140 | 40 | 67 |
| RD-21 | SMRD-021-GW090910 | H-3 | Suspended | -17.7 R U | 22 | 5 | 10 |
| RD-21 | SMRD-021-GW090910 | H-3 | Total | -51 R | NA | 41 | NA |
| RD-21 | SMRD-021-GW090910 | Ho-166m | Filtered | -0.28 U | 2.2 | 0.64 | 1 |
| RD-21 | SMRD-021-GW090910 | Ho-166m | Suspended | -0.12 U | 1.1 | 0.32 | 0.52 |
| RD-21 | SMRD-021-GW090910 | Ho-166m | Total | -0.4 SK | NA | 0.72 | NA |
| RD-21 | SMRD-021-GW090910 | K-40 | Filtered | -2.8 U | 23 | 6 | 11 |
| RD-21 | SMRD-021-GW090910 | K-40 | Suspended | -0.3 U | 9.3 | 2.3 | 4.3 |
| RD-21 | SMRD-021-GW090910 | K-40 | Total | -3.1 | NA | 6.4 | NA |
| RD-21 | SMRD-021-GW090910 | Na-22 | Filtered | 0.07 U | 1.3 | 0.38 | 0.61 |
| RD-21 | SMRD-021-GW090910 | Na-22 | Suspended | -0.09 U | 0.82 | 0.23 | 0.38 |
| RD-21 | SMRD-021-GW090910 | Na-22 | Total | -0.02 | NA | 0.44 | NA |
| RD-21 | SMRD-021-GW090910 | Nb-94 | Filtered | -0.3 U | 1.1 | 0.34 | 0.54 |
| RD-21 | SMRD-021-GW090910 | Nb-94 | Suspended | 0.006 U | 0.72 | 0.21 | 0.35 |
| RD-21 | SMRD-021-GW090910 | Nb-94 | Total | -0.29 | NA | 0.4 | NA |
| RD-21 | SMRD-021-GW090910 | Np-236 | Filtered | -0.55 U | 2.9 | 0.87 | 1.4 |
| RD-21 | SMRD-021-GW090910 | Np-236 | Suspended | 0.17 U | 1.1 | 0.34 | 0.55 |
| RD-21 | SMRD-021-GW090910 | Np-236 | Total | -0.38 SK | NA | 0.93 | NA |
| RD-21 | SMRD-021-GW090910 | Np-239 | Filtered | 1.7 U | 7.5 | 2.2 | 3.6 |
| RD-21 | SMRD-021-GW090910 | Np-239 | Suspended | 0.5 U | 3.6 | 1.1 | 1.7 |
| RD-21 | SMRD-021-GW090910 | Np-239 | Total | 2.2 | NA | 2.5 | NA |
| RD-21 | SMRD-021-GW090910 | Pa-231 | Filtered | -11 U | 56 | 17 | 27 |
| RD-21 | SMRD-021-GW090910 | Pa-231 | Suspended | 8.5 U | 23 | 6.9 | 11 |
| RD-21 | SMRD-021-GW090910 | Pa-231 | Total | -2 | NA | 18 | NA |
| RD-21 | SMRD-021-GW090910 | Pb-212 | Filtered | 0.4 U | 3.1 | 1.1 | 1.5 |
| RD-21 | SMRD-021-GW090910 | Pb-212 | Suspended | 0.22 U | 1.3 | 0.44 | 0.63 |
| RD-21 | SMRD-021-GW090910 | Pb-212 | Total | 0.7 | NA | 1.2 | NA |
| RD-21 | SMRD-021-GW090910 | Pb-214 | Filtered | -0.22 U | 2.5 | 0.86 | 1.2 |
| RD-21 | SMRD-021-GW090910 | Pb-214 | Suspended | 0.85 | 1.6 | 0.65 | 0.78 |
| RD-21 | SMRD-021-GW090910 | Pb-214 | Total | 0.6 | NA | 1.1 | NA |
| RD-21 | SMRD-021-GW090910 | Sb-125 | Filtered | -2.8 U | 14 | 4.2 | 6.9 |
| RD-21 | SMRD-021-GW090910 | Sb-125 | Suspended | 1.5 U | 6.4 | 1.9 | 3.1 |
| RD-21 | SMRD-021-GW090910 | Sb-125 | Total | -1.3 SK | NA | 4.6 | NA |
| RD-21 | SMRD-021-GW090910 | Sn-126 | Filtered | 0.05 U | 1.3 | 0.39 | 0.65 |
| RD-21 | SMRD-021-GW090910 | Sn-126 | Suspended | 0.26 U | 0.83 | 0.25 | 0.4 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-21 | SMRD-021-GW090910 | Sn-126 | Total | 0.31 | NA | 0.47 | NA |
| RD-21 | SMRD-021-GW090910 | Sr-90 | Filtered | -0.014 U | 0.12 | 0.035 | 0.07 |
| RD-21 | SMRD-021-GW090910 | Sr-90 | Suspended | -0.032 U | 0.11 | 0.031 | 0.063 |
| RD-21 | SMRD-021-GW090910 | Sr-90 | Total | -0.046 | NA | 0.047 | NA |
| RD-21 | SMRD-021-GW090910 | Te-125m | Filtered | -0.65 U | 3.3 | 0.97 | 1.6 |
| RD-21 | SMRD-021-GW090910 | Te-125m | Suspended | 0.34 U | 1.5 | 0.44 | 0.72 |
| RD-21 | SMRD-021-GW090910 | Te-125m | Total | -0.3 SK | NA | 1.1 | NA |
| RD-21 | SMRD-021-GW090910 | Th-231 | Filtered | 0.256 | 0.027 | 0.037 | 0.008 |
| RD-21 | SMRD-021-GW090910 | Th-231 | Suspended | 0.0033 U | 0.0089 | 0.0033 | 0.0077 |
| RD-21 | SMRD-021-GW090910 | Th-231 | Total | 0.259 | NA | 0.037 | NA |
| RD-21 | SMRD-021-GW090910 | Th-234 | Filtered | 1.8 U | 22 | 7.5 | 11 |
| RD-21 | SMRD-021-GW090910 | Th-234 | Suspended | 2.2 U | 7.9 | 2.8 | 3.9 |
| RD-21 | SMRD-021-GW090910 | Th-234 | Total | 4 | NA | 8 | NA |
| RD-21 | SMRD-021-GW090910 | Tl-208 | Filtered | 0.84 | 1.6 | 0.55 | 0.77 |
| RD-21 | SMRD-021-GW090910 | Tl-208 | Suspended | 0.03 U | 1 | 0.28 | 0.5 |
| RD-21 | SMRD-021-GW090910 | Tl-208 | Total | 0.87 | NA | 0.62 | NA |
| RD-21 | SMRD-021-GW090910 | Tm-171 | Filtered | 10 U | 400 | 120 | 200 |
| RD-21 | SMRD-021-GW090910 | Tm-171 | Suspended | 27 U | 130 | 39 | 63 |
| RD-21 | SMRD-021-GW090910 | Tm-171 | Total | 40 | NA | 130 | NA |
| RD-21 | SMRD-021-GW090910 | U-233/234 | Filtered | 6.68 K | 0.03 | 0.32 | 0.01 |
| RD-21 | SMRD-021-GW090910 | U-233/234 | Suspended | 0.0212 | 0.02 | 0.0084 | 0.0062 |
| RD-21 | SMRD-021-GW090910 | U-233/234 | Total | 6.7 | NA | 0.32 | NA |
| RD-21 | SMRD-021-GW090910 | U-235/236 | Filtered | 0.256 | 0.027 | 0.037 | 0.008 |
| RD-21 | SMRD-021-GW090910 | U-235/236 | Suspended | 0.0033 U | 0.0089 | 0.0033 | 0.0077 |
| RD-21 | SMRD-021-GW090910 | U-235/236 | Total | 0.259 | NA | 0.037 | NA |
| RD-21 | SMRD-021-GW090910 | U-238 | Filtered | 5.5 | 0.02 | 0.27 | 0.006 |
| RD-21 | SMRD-021-GW090910 | U-238 | Suspended | 0.0159 | 0.019 | 0.0075 | 0.0062 |
| RD-21 | SMRD-021-GW090910 | U-238 | Total | 5.52 | NA | 0.27 | NA |
| RD-22 | SMRD-022-GW090910 | Ac-227 | Filtered | 3.2 U | 9.1 | 2.7 | 4.4 |
| RD-22 | SMRD-022-GW090910 | Ac-227 | Suspended | 0.18 U | 2.7 | 0.78 | 1.3 |
| RD-22 | SMRD-022-GW090910 | Ac-227 | Total | 3.4 | NA | 2.9 | NA |
| RD-22 | SMRD-022-GW090910 | Ac-228 | Filtered | 7.8 | 3.7 | 1.5 | 1.6 |
| RD-22 | SMRD-022-GW090910 | Ac-228 | Suspended | -1.1 U B | 3.1 | 1.5 | 1.5 |
| RD-22 | SMRD-022-GW090910 | Ac-228 | Total | 6.7 | NA | 2.1 | NA |
| RD-22 | SMRD-022-GW090910 | Ag-108 | Filtered | -0.034 U R | 0.13 | 0.038 | 0.061 |
| RD-22 | SMRD-022-GW090910 | Ag-108 | Suspended | 0.0006 U R | 0.05 | 0.015 | 0.024 |
| RD-22 | SMRD-022-GW090910 | Ag-108 | Total | -0.033 R | NA | 0.041 | NA |
| RD-22 | SMRD-022-GW090910 | Ag-108m | Filtered | -0.36 U R | 1.4 | 0.41 | 0.65 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-22 | SMRD-022-GW090910 | Ag-108m | Suspended | 0.006 U R | 0.54 | 0.16 | 0.26 |
| RD-22 | SMRD-022-GW090910 | Ag-108m | Total | -0.36 R | NA | 0.44 | NA |
| RD-22 | SMRD-022-GW090910 | Ba-133 | Filtered | 4.4 U R | 12 | 3.7 | 5.9 |
| RD-22 | SMRD-022-GW090910 | Ba-133 | Suspended | 0.2 U R | 5.9 | 1.8 | 2.9 |
| RD-22 | SMRD-022-GW090910 | Ba-133 | Total | 4.6 R | NA | 4.1 | NA |
| RD-22 | SMRD-022-GW090910 | Ba-137m | Filtered | 0.33 U | 1.6 | 0.46 | 0.73 |
| RD-22 | SMRD-022-GW090910 | Ba-137m | Suspended | 0.22 U | 0.65 | 0.19 | 0.31 |
| RD-22 | SMRD-022-GW090910 | Ba-137m | Total | 0.55 | NA | 0.5 | NA |
| RD-22 | SMRD-022-GW090910 | Bi-212 | Filtered | 4.1 U | 14 | 4.1 | 6.5 |
| RD-22 | SMRD-022-GW090910 | Bi-212 | Suspended | 0.8 U | 5.8 | 1.7 | 2.8 |
| RD-22 | SMRD-022-GW090910 | Bi-212 | Total | 5 | NA | 4.4 | NA |
| RD-22 | SMRD-022-GW090910 | Bi-214 | Filtered | 2.1 | 3.6 | 1.3 | 1.7 |
| RD-22 | SMRD-022-GW090910 | Bi-214 | Suspended | -0.54 U | 1.7 | 0.69 | 0.81 |
| RD-22 | SMRD-022-GW090910 | Bi-214 | Total | 1.6 | NA | 1.5 | NA |
| RD-22 | SMRD-022-GW090910 | Cd-113m | Filtered | 2200 U | 16000 | 4600 | 7400 |
| RD-22 | SMRD-022-GW090910 | Cd-113m | Suspended | -100 U | 7000 | 2100 | 3400 |
| RD-22 | SMRD-022-GW090910 | Cd-113m | Total | 2100 | NA | 5000 | NA |
| RD-22 | SMRD-022-GW090910 | Cf-249 | Filtered | 3.8 R | 6.4 | 2 | 3 |
| RD-22 | SMRD-022-GW090910 | Cf-249 | Suspended | 0.3 U R | 2.9 | 0.85 | 1.4 |
| RD-22 | SMRD-022-GW090910 | Cf-249 | Total | 4.1 R | NA | 2.1 | NA |
| RD-22 | SMRD-022-GW090910 | Co-60 | Filtered | -0.14 U | 1.8 | 0.51 | 0.82 |
| RD-22 | SMRD-022-GW090910 | Co-60 | Suspended | -0.03 U | 0.72 | 0.2 | 0.34 |
| RD-22 | SMRD-022-GW090910 | Co-60 | Total | -0.17 | NA | 0.55 | NA |
| RD-22 | SMRD-022-GW090910 | Cs-134 | Filtered | -0.22 U | 1.7 | 0.51 | 0.82 |
| RD-22 | SMRD-022-GW090910 | Cs-134 | Suspended | 0.02 U | 0.86 | 0.25 | 0.42 |
| RD-22 | SMRD-022-GW090910 | Cs-134 | Total | -0.2 SK | NA | 0.57 | NA |
| RD-22 | SMRD-022-GW090910 | Cs-137 | Filtered | 0.35 U | 1.6 | 0.48 | 0.77 |
| RD-22 | SMRD-022-GW090910 | Cs-137 | Suspended | 0.23 U | 0.68 | 0.2 | 0.33 |
| RD-22 | SMRD-022-GW090910 | Cs-137 | Total | 0.58 | NA | 0.52 | NA |
| RD-22 | SMRD-022-GW090910 | Eu-152 | Filtered | -1.2 U | 4.2 | 1.3 | 2 |
| RD-22 | SMRD-022-GW090910 | Eu-152 | Suspended | 0.45 U | 1.5 | 0.44 | 0.7 |
| RD-22 | SMRD-022-GW090910 | Eu-152 | Total | -0.7 | NA | 1.3 | NA |
| RD-22 | SMRD-022-GW090910 | Eu-154 | Filtered | -2.3 U | 11 | 3.2 | 5 |
| RD-22 | SMRD-022-GW090910 | Eu-154 | Suspended | 1 U | 5.8 | 1.7 | 2.7 |
| RD-22 | SMRD-022-GW090910 | Eu-154 | Total | -1.3 | NA | 3.6 | NA |
| RD-22 | SMRD-022-GW090910 | Eu-155 | Filtered | 1 U | 3.4 | 1 | 1.6 |
| RD-22 | SMRD-022-GW090910 | Eu-155 | Suspended | 0.01 U | 1.2 | 0.36 | 0.6 |
| RD-22 | SMRD-022-GW090910 | Eu-155 | Total | 1 SK | NA | 1.1 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-22 | SMRD-022-GW090910 | gross_alpha | Filtered | 4.94 | 0.48 | 0.46 | 0.25 |
| RD-22 | SMRD-022-GW090910 | gross_alpha | Suspended | 0.05 U | 0.45 | 0.12 | 0.24 |
| RD-22 | SMRD-022-GW090910 | gross_alpha | Total | 4.99 | NA | 0.48 | NA |
| RD-22 | SMRD-022-GW090910 | gross_beta | Filtered | 18.5 | 3.1 | 1.7 | 1.8 |
| RD-22 | SMRD-022-GW090910 | gross_beta | Suspended | 0.34 U | 0.76 | 0.23 | 0.45 |
| RD-22 | SMRD-022-GW090910 | gross_beta | Total | 18.8 | NA | 1.7 | NA |
| RD-22 | SMRD-022-GW090910 | H-3 | Filtered | -15 U | 150 | 45 | 74 |
| RD-22 | SMRD-022-GW090910 | H-3 | Suspended | -2.4 U R | 25 | 6.5 | 11 |
| RD-22 | SMRD-022-GW090910 | H-3 | Total | -18 R | NA | 45 | NA |
| RD-22 | SMRD-022-GW090910 | Ho-166m | Filtered | 0.27 U | 2.1 | 0.59 | 0.95 |
| RD-22 | SMRD-022-GW090910 | Ho-166m | Suspended | 0.49 U | 1.1 | 0.33 | 0.52 |
| RD-22 | SMRD-022-GW090910 | Ho-166m | Total | 0.76 SK | NA | 0.68 | NA |
| RD-22 | SMRD-022-GW090910 | K-40 | Filtered | -14 U | 24 | 16 | 11 |
| RD-22 | SMRD-022-GW090910 | K-40 | Suspended | 3.8 U | 12 | 3 | 5.6 |
| RD-22 | SMRD-022-GW090910 | K-40 | Total | -11 | NA | 16 | NA |
| RD-22 | SMRD-022-GW090910 | Na-22 | Filtered | -0.19 U | 2.2 | 0.61 | 0.99 |
| RD-22 | SMRD-022-GW090910 | Na-22 | Suspended | -0.02 U | 0.71 | 0.2 | 0.33 |
| RD-22 | SMRD-022-GW090910 | Na-22 | Total | -0.21 | NA | 0.64 | NA |
| RD-22 | SMRD-022-GW090910 | Nb-94 | Filtered | 0 U | 1.7 | 0.47 | 0.78 |
| RD-22 | SMRD-022-GW090910 | Nb-94 | Suspended | -0.16 U | 0.7 | 0.21 | 0.34 |
| RD-22 | SMRD-022-GW090910 | Nb-94 | Total | -0.16 | NA | 0.52 | NA |
| RD-22 | SMRD-022-GW090910 | Np-236 | Filtered | -0.79 U | 3.1 | 0.93 | 1.5 |
| RD-22 | SMRD-022-GW090910 | Np-236 | Suspended | 0.18 U | 1.2 | 0.35 | 0.57 |
| RD-22 | SMRD-022-GW090910 | Np-236 | Total | -0.61 SK | NA | 0.99 | NA |
| RD-22 | SMRD-022-GW090910 | Np-239 | Filtered | -0.07 U | 8.4 | 2.4 | 4 |
| RD-22 | SMRD-022-GW090910 | Np-239 | Suspended | 0.6 U | 3.6 | 1.1 | 1.8 |
| RD-22 | SMRD-022-GW090910 | Np-239 | Total | 0.5 | NA | 2.7 | NA |
| RD-22 | SMRD-022-GW090910 | Pa-231 | Filtered | 13 U | 60 | 18 | 29 |
| RD-22 | SMRD-022-GW090910 | Pa-231 | Suspended | 7.6 U | 24 | 7.1 | 11 |
| RD-22 | SMRD-022-GW090910 | Pa-231 | Total | 21 | NA | 19 | NA |
| RD-22 | SMRD-022-GW090910 | Pb-212 | Filtered | 1.81 | 2.8 | 0.87 | 1.3 |
| RD-22 | SMRD-022-GW090910 | Pb-212 | Suspended | 0.27 U | 1.2 | 0.36 | 0.58 |
| RD-22 | SMRD-022-GW090910 | Pb-212 | Total | 2.08 | NA | 0.94 | NA |
| RD-22 | SMRD-022-GW090910 | Pb-214 | Filtered | 2.1 | 3.3 | 1.2 | 1.6 |
| RD-22 | SMRD-022-GW090910 | Pb-214 | Suspended | -1 U | 1.5 | 1 | 0.7 |
| RD-22 | SMRD-022-GW090910 | Pb-214 | Total | 1.1 | NA | 1.6 | NA |
| RD-22 | SMRD-022-GW090910 | Sb-125 | Filtered | -2 U | 15 | 4.5 | 7.3 |
| RD-22 | SMRD-022-GW090910 | Sb-125 | Suspended | 1.1 U | 5.9 | 1.8 | 2.9 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-22 | SMRD-022-GW090910 | Sb-125 | Total | -0.9 SK | NA | 4.8 | NA |
| RD-22 | SMRD-022-GW090910 | Sn-126 | Filtered | 0.51 U | 1.4 | 0.43 | 0.66 |
| RD-22 | SMRD-022-GW090910 | Sn-126 | Suspended | 0.28 U | 0.75 | 0.23 | 0.36 |
| RD-22 | SMRD-022-GW090910 | Sn-126 | Total | 0.79 | NA | 0.48 | NA |
| RD-22 | SMRD-022-GW090910 | Sr-90 | Filtered | -0.0009 U | 0.11 | 0.033 | 0.064 |
| RD-22 | SMRD-022-GW090910 | Sr-90 | Suspended | -0.003 U | 0.11 | 0.03 | 0.06 |
| RD-22 | SMRD-022-GW090910 | Sr-90 | Total | -0.004 | NA | 0.045 | NA |
| RD-22 | SMRD-022-GW090910 | Te-125m | Filtered | -0.5 U | 3.5 | 1 | 1.7 |
| RD-22 | SMRD-022-GW090910 | Te-125m | Suspended | 0.25 U | 1.4 | 0.41 | 0.67 |
| RD-22 | SMRD-022-GW090910 | Te-125m | Total | -0.2 SK | NA | 1.1 | NA |
| RD-22 | SMRD-022-GW090910 | Th-231 | Filtered | 0.046 | 0.011 | 0.014 | 0.007 |
| RD-22 | SMRD-022-GW090910 | Th-231 | Suspended | -0.0024 U | 0.018 | 0.0024 | 0.0056 |
| RD-22 | SMRD-022-GW090910 | Th-231 | Total | 0.044 | NA | 0.014 | NA |
| RD-22 | SMRD-022-GW090910 | Th-234 | Filtered | 8.9 U | 22 | 6.8 | 11 |
| RD-22 | SMRD-022-GW090910 | Th-234 | Suspended | -1.3 U | 8.7 | 3.1 | 4.3 |
| RD-22 | SMRD-022-GW090910 | Th-234 | Total | 7.6 | NA | 7.5 | NA |
| RD-22 | SMRD-022-GW090910 | Tl-208 | Filtered | 1.6 | 1.8 | 0.65 | 0.84 |
| RD-22 | SMRD-022-GW090910 | Tl-208 | Suspended | 0.46 | 0.8 | 0.28 | 0.39 |
| RD-22 | SMRD-022-GW090910 | Tl-208 | Total | 2.05 | NA | 0.71 | NA |
| RD-22 | SMRD-022-GW090910 | Tm-171 | Filtered | 150 U | 340 | 100 | 160 |
| RD-22 | SMRD-022-GW090910 | Tm-171 | Suspended | -0.5 U | 110 | 33 | 55 |
| RD-22 | SMRD-022-GW090910 | Tm-171 | Total | 150 | NA | 110 | NA |
| RD-22 | SMRD-022-GW090910 | U-233/234 | Filtered | 1.06 K | 0.028 | 0.075 | 0.011 |
| RD-22 | SMRD-022-GW090910 | U-233/234 | Suspended | 0.0135 | 0.014 | 0.0058 | 0.0045 |
| RD-22 | SMRD-022-GW090910 | U-233/234 | Total | 1.08 | NA | 0.075 | NA |
| RD-22 | SMRD-022-GW090910 | U-235/236 | Filtered | 0.046 | 0.011 | 0.014 | 0.007 |
| RD-22 | SMRD-022-GW090910 | U-235/236 | Suspended | -0.0024 U | 0.018 | 0.0024 | 0.0056 |
| RD-22 | SMRD-022-GW090910 | U-235/236 | Total | 0.044 | NA | 0.014 | NA |
| RD-22 | SMRD-022-GW090910 | U-238 | Filtered | 0.51 | 0.026 | 0.047 | 0.01 |
| RD-22 | SMRD-022-GW090910 | U-238 | Suspended | 0.0019 U | 0.0052 | 0.0019 | 0.0045 |
| RD-22 | SMRD-022-GW090910 | U-238 | Total | 0.512 | NA | 0.047 | NA |
| RD-23 | SMRD-23-GW090210 | Ac-227 | Filtered | -3.9 U | 9.5 | 2.9 | 4.6 |
| RD-23 | SMRD-23-GW090210 | Ac-227 | Suspended | -1.8 U | 4.4 | 1.3 | 2.1 |
| RD-23 | SMRD-23-GW090210 | Ac-227 | Total | -5.6 | NA | 3.2 | NA |
| RD-23 | SMRD-23-GW090210 | Ac-228 | Filtered | 3.5 B | 4.5 | 1.4 | 2.1 |
| RD-23 | SMRD-23-GW090210 | Ac-228 | Suspended | 1.57 | 2.1 | 0.66 | 0.96 |
| RD-23 | SMRD-23-GW090210 | Ac-228 | Total | 5.1 B | NA | 1.6 | NA |
| RD-23 | SMRD-23-GW090210 | Ag-108 | Filtered | -0.015 U R | 0.12 | 0.034 | 0.055 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-23 | SMRD-23-GW090210 | Ag-108 | Suspended | 0.013 U R | 0.041 | 0.012 | 0.019 |
| RD-23 | SMRD-23-GW090210 | Ag-108 | Total | -0.002 R | NA | 0.036 | NA |
| RD-23 | SMRD-23-GW090210 | Ag-108m | Filtered | -0.16 U R | 1.2 | 0.36 | 0.59 |
| RD-23 | SMRD-23-GW090210 | Ag-108m | Suspended | 0.14 U R | 0.44 | 0.13 | 0.21 |
| RD-23 | SMRD-23-GW090210 | Ag-108m | Total | -0.02 R | NA | 0.39 | NA |
| RD-23 | SMRD-23-GW090210 | Ba-133 | Filtered | -3.1 U R | 14 | 4 | 6.5 |
| RD-23 | SMRD-23-GW090210 | Ba-133 | Suspended | 0.2 U R | 6.4 | 1.9 | 3.1 |
| RD-23 | SMRD-23-GW090210 | Ba-133 | Total | -2.9 R | NA | 4.5 | NA |
| RD-23 | SMRD-23-GW090210 | Ba-137m | Filtered | 0.39 U | 1.4 | 0.4 | 0.63 |
| RD-23 | SMRD-23-GW090210 | Ba-137m | Suspended | 0.2 U | 0.61 | 0.2 | 0.29 |
| RD-23 | SMRD-23-GW090210 | Ba-137m | Total | 0.6 | NA | 0.45 | NA |
| RD-23 | SMRD-23-GW090210 | Bi-212 | Filtered | 5.5 | 12 | 3.6 | 5.4 |
| RD-23 | SMRD-23-GW090210 | Bi-212 | Suspended | 1.1 U | 5.4 | 1.6 | 2.5 |
| RD-23 | SMRD-23-GW090210 | Bi-212 | Total | 6.7 | NA | 3.9 | NA |
| RD-23 | SMRD-23-GW090210 | Bi-214 | Filtered | 1.3 U | 2.9 | 1 | 1.4 |
| RD-23 | SMRD-23-GW090210 | Bi-214 | Suspended | -0.9 U | 1.7 | 1.7 | 0.8 |
| RD-23 | SMRD-23-GW090210 | Bi-214 | Total | 0.4 | NA | 2 | NA |
| RD-23 | SMRD-23-GW090210 | Cd-113m | Filtered | 1800 U | 14000 | 4000 | 6500 |
| RD-23 | SMRD-23-GW090210 | Cd-113m | Suspended | 40 U | 6600 | 1900 | 3200 |
| RD-23 | SMRD-23-GW090210 | Cd-113m | Total | 1800 | NA | 4400 | NA |
| RD-23 | SMRD-23-GW090210 | Cf-249 | Filtered | 1 U R | 6.3 | 1.8 | 3 |
| RD-23 | SMRD-23-GW090210 | Cf-249 | Suspended | 0 U B | 3.1 | 0.91 | 1.5 |
| RD-23 | SMRD-23-GW090210 | Cf-249 | Total | 1 B R | NA | 2.1 | NA |
| RD-23 | SMRD-23-GW090210 | Co-60 | Filtered | 0.02 U | 1.3 | 0.36 | 0.6 |
| RD-23 | SMRD-23-GW090210 | Co-60 | Suspended | 0.24 U | 0.74 | 0.22 | 0.34 |
| RD-23 | SMRD-23-GW090210 | Co-60 | Total | 0.26 | NA | 0.42 | NA |
| RD-23 | SMRD-23-GW090210 | Cs-134 | Filtered | -0.17 U | 1.5 | 0.44 | 0.72 |
| RD-23 | SMRD-23-GW090210 | Cs-134 | Suspended | 0.08 U | 0.86 | 0.25 | 0.41 |
| RD-23 | SMRD-23-GW090210 | Cs-134 | Total | -0.09 | NA | 0.51 | NA |
| RD-23 | SMRD-23-GW090210 | Cs-137 | Filtered | 0.42 U | 1.4 | 0.42 | 0.67 |
| RD-23 | SMRD-23-GW090210 | Cs-137 | Suspended | 0.21 U | 0.64 | 0.21 | 0.3 |
| RD-23 | SMRD-23-GW090210 | Cs-137 | Total | 0.63 | NA | 0.47 | NA |
| RD-23 | SMRD-23-GW090210 | Eu-152 | Filtered | 1.34 U | 3.2 | 0.96 | 1.5 |
| RD-23 | SMRD-23-GW090210 | Eu-152 | Suspended | 0.67 U | 1.5 | 0.45 | 0.71 |
| RD-23 | SMRD-23-GW090210 | Eu-152 | Total | 2 | NA | 1.1 | NA |
| RD-23 | SMRD-23-GW090210 | Eu-154 | Filtered | -2.4 U | 14 | 4 | 6.3 |
| RD-23 | SMRD-23-GW090210 | Eu-154 | Suspended | -0.9 U | 5.8 | 1.7 | 2.7 |
| RD-23 | SMRD-23-GW090210 | Eu-154 | Total | -3.4 | NA | 4.3 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-23 | SMRD-23-GW090210 | Eu-155 | Filtered | 0.17 U | 3.3 | 0.97 | 1.6 |
| RD-23 | SMRD-23-GW090210 | Eu-155 | Suspended | 0 U | 1.4 | 0.42 | 0.69 |
| RD-23 | SMRD-23-GW090210 | Eu-155 | Total | 0.2 | NA | 1.1 | NA |
| RD-23 | SMRD-23-GW090210 | gross_alpha | Filtered | 2.03 | 0.66 | 0.34 | 0.35 |
| RD-23 | SMRD-23-GW090210 | gross_alpha | Suspended | 0.01 U | 0.46 | 0.12 | 0.24 |
| RD-23 | SMRD-23-GW090210 | gross_alpha | Total | 2.04 | NA | 0.36 | NA |
| RD-23 | SMRD-23-GW090210 | gross_beta | Filtered | 2.21 | 1.1 | 0.43 | 0.64 |
| RD-23 | SMRD-23-GW090210 | gross_beta | Suspended | -0.05 U | 0.75 | 0.21 | 0.44 |
| RD-23 | SMRD-23-GW090210 | gross_beta | Total | 2.16 | NA | 0.48 | NA |
| RD-23 | SMRD-23-GW090210 | H-3 | Filtered | 28 U | 130 | 40 | 65 |
| RD-23 | SMRD-23-GW090210 | H-3 | Total | 28 R | NA | 40 | NA |
| RD-23 | SMRD-23-GW090210 | Ho-166m | Filtered | 0 U | 2.9 | 0.83 | 1.4 |
| RD-23 | SMRD-23-GW090210 | Ho-166m | Suspended | -0.05 U | 1 | 0.29 | 0.48 |
| RD-23 | SMRD-23-GW090210 | Ho-166m | Total | -0.05 | NA | 0.88 | NA |
| RD-23 | SMRD-23-GW090210 | K-40 | Filtered | 5.7 U | 18 | 5.3 | 8.3 |
| RD-23 | SMRD-23-GW090210 | K-40 | Suspended | -5.6 U | 11 | 7.7 | 5.1 |
| RD-23 | SMRD-23-GW090210 | K-40 | Total | 0.2 | NA | 9.3 | NA |
| RD-23 | SMRD-23-GW090210 | Na-22 | Filtered | 0.03 U | 1.7 | 0.48 | 0.8 |
| RD-23 | SMRD-23-GW090210 | Na-22 | Suspended | 0.18 U | 0.77 | 0.22 | 0.35 |
| RD-23 | SMRD-23-GW090210 | Na-22 | Total | 0.21 | NA | 0.53 | NA |
| RD-23 | SMRD-23-GW090210 | Nb-94 | Filtered | 0.07 U | 1.2 | 0.34 | 0.55 |
| RD-23 | SMRD-23-GW090210 | Nb-94 | Suspended | 0.05 U | 0.59 | 0.17 | 0.28 |
| RD-23 | SMRD-23-GW090210 | Nb-94 | Total | 0.13 | NA | 0.38 | NA |
| RD-23 | SMRD-23-GW090210 | Np-236 | Filtered | 0.74 U | 2.4 | 0.72 | 1.1 |
| RD-23 | SMRD-23-GW090210 | Np-236 | Suspended | -0.35 U | 1.2 | 0.37 | 0.6 |
| RD-23 | SMRD-23-GW090210 | Np-236 | Total | 0.39 | NA | 0.8 | NA |
| RD-23 | SMRD-23-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-23 | SMRD-23-GW090210 | Np-239 | Filtered | 0.8 U | 8 | 2.4 | 3.9 |
| RD-23 | SMRD-23-GW090210 | Np-239 | Suspended | 0.6 U | 3.4 | 1 | 1.7 |
| RD-23 | SMRD-23-GW090210 | Np-239 | Total | 1.4 | NA | 2.6 | NA |
| RD-23 | SMRD-23-GW090210 | Pa-231 | Filtered | -2 U | 57 | 17 | 27 |
| RD-23 | SMRD-23-GW090210 | Pa-231 | Suspended | -5.5 U | 24 | 7.2 | 12 |
| RD-23 | SMRD-23-GW090210 | Pa-231 | Total | -7 | NA | 18 | NA |
| RD-23 | SMRD-23-GW090210 | Pb-212 | Filtered | 0.42 U | 2.4 | 0.79 | 1.2 |
| RD-23 | SMRD-23-GW090210 | Pb-212 | Suspended | 0.84 | 1 | 0.33 | 0.49 |
| RD-23 | SMRD-23-GW090210 | Pb-212 | Total | 1.26 | NA | 0.85 | NA |
| RD-23 | SMRD-23-GW090210 | Pb-214 | Filtered | -0.5 U | 3 | 1.3 | 1.4 |
| RD-23 | SMRD-23-GW090210 | Pb-214 | Suspended | -1.6 U | 1.5 | 3.2 | 0.7 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-23 | SMRD-23-GW090210 | Pb-214 | Total | -2.1 | NA | 3.5 | NA |
| RD-23 | SMRD-23-GW090210 | Sb-125 | Filtered | 3.7 U | 13 | 4 | 6.5 |
| RD-23 | SMRD-23-GW090210 | Sb-125 | Suspended | 0.6 U | 6.3 | 1.9 | 3 |
| RD-23 | SMRD-23-GW090210 | Sb-125 | Total | 4.3 | NA | 4.4 | NA |
| RD-23 | SMRD-23-GW090210 | Sn-126 | Filtered | 0.009 U | 1.6 | 0.44 | 0.73 |
| RD-23 | SMRD-23-GW090210 | Sn-126 | Suspended | 0.42 | 0.72 | 0.22 | 0.34 |
| RD-23 | SMRD-23-GW090210 | Sn-126 | Total | 0.42 | NA | 0.5 | NA |
| RD-23 | SMRD-23-GW090210 | Sr-90 | Filtered | 0.028 U | 0.1 | 0.031 | 0.058 |
| RD-23 | SMRD-23-GW090210 | Sr-90 | Suspended | 0.004 U | 0.13 | 0.036 | 0.071 |
| RD-23 | SMRD-23-GW090210 | Sr-90 | Total | 0.032 | NA | 0.048 | NA |
| RD-23 | SMRD-23-GW090210 | Te-125m | Filtered | 0.87 U | 3.1 | 0.93 | 1.5 |
| RD-23 | SMRD-23-GW090210 | Te-125m | Suspended | 0.14 U | 1.4 | 0.43 | 0.7 |
| RD-23 | SMRD-23-GW090210 | Te-125m | Total | 1 | NA | 1 | NA |
| RD-23 | SMRD-23-GW090210 | Th-231 | Filtered | 0.0263 | 0.0079 | 0.0088 | 0.0068 |
| RD-23 | SMRD-23-GW090210 | Th-231 | Suspended | 0.0049 U | 0.0067 | 0.0035 | 0.0057 |
| RD-23 | SMRD-23-GW090210 | Th-231 | Total | 0.0313 | NA | 0.0095 | NA |
| RD-23 | SMRD-23-GW090210 | Th-234 | Filtered | 8.7 U | 23 | 7.5 | 11 |
| RD-23 | SMRD-23-GW090210 | Th-234 | Suspended | 1.4 U | 6.9 | 2 | 3.4 |
| RD-23 | SMRD-23-GW090210 | Th-234 | Total | 10.1 | NA | 7.8 | NA |
| RD-23 | SMRD-23-GW090210 | Tl-208 | Filtered | -0.3 U | 1.7 | 0.68 | 0.82 |
| RD-23 | SMRD-23-GW090210 | Tl-208 | Suspended | 0.11 U | 0.83 | 0.23 | 0.39 |
| RD-23 | SMRD-23-GW090210 | Tl-208 | Total | -0.19 | NA | 0.72 | NA |
| RD-23 | SMRD-23-GW090210 | Tm-171 | Filtered | -70 U | 380 | 110 | 180 |
| RD-23 | SMRD-23-GW090210 | Tm-171 | Suspended | -183 R U | 130 | 43 | 65 |
| RD-23 | SMRD-23-GW090210 | Tm-171 | Total | -250 R | NA | 120 | NA |
| RD-23 | SMRD-23-GW090210 | U-233/234 | Filtered | 0.673 | 0.017 | 0.049 | 0.005 |
| RD-23 | SMRD-23-GW090210 | U-233/234 | Suspended | 0.0047 | 0.015 | 0.0063 | 0.0046 |
| RD-23 | SMRD-23-GW090210 | U-233/234 | Total | 0.678 | NA | 0.05 | NA |
| RD-23 | SMRD-23-GW090210 | U-235/236 | Filtered | 0.0263 | 0.0079 | 0.0088 | 0.0068 |
| RD-23 | SMRD-23-GW090210 | U-235/236 | Suspended | 0.0049 U | 0.0067 | 0.0035 | 0.0057 |
| RD-23 | SMRD-23-GW090210 | U-235/236 | Total | 0.0313 | NA | 0.0095 | NA |
| RD-23 | SMRD-23-GW090210 | U-238 | Filtered | 0.407 | 0.017 | 0.036 | 0.005 |
| RD-23 | SMRD-23-GW090210 | U-238 | Suspended | 0.0036 U | 0.018 | 0.0062 | 0.0065 |
| RD-23 | SMRD-23-GW090210 | U-238 | Total | 0.411 | NA | 0.036 | NA |
| RD-24 | SMRD-24-GW083110 | Ac-227 | Filtered | -4.5 U | 9.6 | 2.9 | 4.6 |
| RD-24 | SMRD-24-GW083110 | Ac-227 | Suspended | 0.1 U | 6.3 | 1.9 | 3.1 |
| RD-24 | SMRD-24-GW083110 | Ac-227 | Total | -4.4 | NA | 3.5 | NA |
| RD-24 | SMRD-24-GW083110 | Ac-228 | Filtered | 9.6 | 4.8 | 1.9 | 2.2 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-24 | SMRD-24-GW083110 | Ac-228 | Suspended | -1.7 U | 3.1 | 2.1 | 1.5 |
| RD-24 | SMRD-24-GW083110 | Ac-228 | Total | 8 | NA | 2.8 | NA |
| RD-24 | SMRD-24-GW083110 | Ag-108 | Filtered | -0.023 U R | 0.12 | 0.035 | 0.056 |
| RD-24 | SMRD-24-GW083110 | Ag-108 | Suspended | 0.011 U R | 0.051 | 0.015 | 0.024 |
| RD-24 | SMRD-24-GW083110 | Ag-108 | Total | -0.012 R | NA | 0.038 | NA |
| RD-24 | SMRD-24-GW083110 | Ag-108m | Filtered | -0.25 U R | 1.3 | 0.37 | 0.6 |
| RD-24 | SMRD-24-GW083110 | Ag-108m | Suspended | 0.12 U R | 0.55 | 0.16 | 0.26 |
| RD-24 | SMRD-24-GW083110 | Ag-108m | Total | -0.13 R | NA | 0.41 | NA |
| RD-24 | SMRD-24-GW083110 | Ba-133 | Filtered | 2.3 U R | 13 | 3.9 | 6.3 |
| RD-24 | SMRD-24-GW083110 | Ba-133 | Suspended | -0.6 U R | 5.9 | 1.8 | 2.9 |
| RD-24 | SMRD-24-GW083110 | Ba-133 | Total | 1.8 R | NA | 4.3 | NA |
| RD-24 | SMRD-24-GW083110 | Ba-137m | Filtered | 0.39 U | 1.3 | 0.4 | 0.62 |
| RD-24 | SMRD-24-GW083110 | Ba-137m | Suspended | -0.16 U | 0.7 | 0.21 | 0.33 |
| RD-24 | SMRD-24-GW083110 | Ba-137m | Total | 0.24 | NA | 0.45 | NA |
| RD-24 | SMRD-24-GW083110 | Bi-212 | Filtered | 4 U | 11 | 3.3 | 5.1 |
| RD-24 | SMRD-24-GW083110 | Bi-212 | Suspended | 0.9 U | 5 | 1.5 | 2.4 |
| RD-24 | SMRD-24-GW083110 | Bi-212 | Total | 4.8 | NA | 3.6 | NA |
| RD-24 | SMRD-24-GW083110 | Bi-214 | Filtered | 0.8 U | 3.4 | 1.1 | 1.6 |
| RD-24 | SMRD-24-GW083110 | Bi-214 | Suspended | 0.49 U | 1.7 | 0.58 | 0.81 |
| RD-24 | SMRD-24-GW083110 | Bi-214 | Total | 1.3 | NA | 1.2 | NA |
| RD-24 | SMRD-24-GW083110 | Cd-113m | Filtered | -800 U | 16000 | 4700 | 7700 |
| RD-24 | SMRD-24-GW083110 | Cd-113m | Suspended | -400 U | 6800 | 2000 | 3300 |
| RD-24 | SMRD-24-GW083110 | Cd-113m | Total | -1200 | NA | 5100 | NA |
| RD-24 | SMRD-24-GW083110 | Cf-249 | Filtered | 1 U R | 6.3 | 1.9 | 3 |
| RD-24 | SMRD-24-GW083110 | Cf-249 | Suspended | -0.34 U R | 3 | 0.88 | 1.4 |
| RD-24 | SMRD-24-GW083110 | Cf-249 | Total | 0.7 R | NA | 2.1 | NA |
| RD-24 | SMRD-24-GW083110 | Co-60 | Filtered | -0.13 U | 1.8 | 0.52 | 0.84 |
| RD-24 | SMRD-24-GW083110 | Co-60 | Suspended | 0.4 | 0.72 | 0.22 | 0.33 |
| RD-24 | SMRD-24-GW083110 | Co-60 | Total | 0.26 | NA | 0.56 | NA |
| RD-24 | SMRD-24-GW083110 | Cs-134 | Filtered | -0.05 U | 1.6 | 0.46 | 0.76 |
| RD-24 | SMRD-24-GW083110 | Cs-134 | Suspended | 0.12 U | 0.74 | 0.22 | 0.35 |
| RD-24 | SMRD-24-GW083110 | Cs-134 | Total | 0.07 SK | NA | 0.51 | NA |
| RD-24 | SMRD-24-GW083110 | Cs-137 | Filtered | 0.41 U | 1.4 | 0.42 | 0.66 |
| RD-24 | SMRD-24-GW083110 | Cs-137 | Suspended | -0.16 U | 0.74 | 0.22 | 0.35 |
| RD-24 | SMRD-24-GW083110 | Cs-137 | Total | 0.25 | NA | 0.47 | NA |
| RD-24 | SMRD-24-GW083110 | Eu-152 | Filtered | -0.2 U | 3.9 | 1.1 | 1.9 |
| RD-24 | SMRD-24-GW083110 | Eu-152 | Suspended | 0.06 U | 1.8 | 0.53 | 0.87 |
| RD-24 | SMRD-24-GW083110 | Eu-152 | Total | -0.1 | NA | 1.3 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-24 | SMRD-24-GW083110 | Eu-154 | Filtered | -0.9 U | 11 | 3.1 | 4.9 |
| RD-24 | SMRD-24-GW083110 | Eu-154 | Suspended | -0.9 U | 5.7 | 1.7 | 2.7 |
| RD-24 | SMRD-24-GW083110 | Eu-154 | Total | -1.8 | NA | 3.5 | NA |
| RD-24 | SMRD-24-GW083110 | Eu-155 | Filtered | 1.1 U | 3.3 | 1 | 1.6 |
| RD-24 | SMRD-24-GW083110 | Eu-155 | Suspended | 0 U | 1.2 | 0.37 | 0.61 |
| RD-24 | SMRD-24-GW083110 | Eu-155 | Total | 1.1 SK | NA | 1.1 | NA |
| RD-24 | SMRD-24-GW083110 | gross_alpha | Filtered | 7.79 | 0.41 | 0.59 | 0.21 |
| RD-24 | SMRD-24-GW083110 | gross_alpha | Suspended | 0.34 | 0.39 | 0.14 | 0.2 |
| RD-24 | SMRD-24-GW083110 | gross_alpha | Total | 8.12 | NA | 0.6 | NA |
| RD-24 | SMRD-24-GW083110 | gross_beta | Filtered | 7.28 | 2.2 | 0.99 | 1.3 |
| RD-24 | SMRD-24-GW083110 | gross_beta | Suspended | -0.009 U | 0.68 | 0.19 | 0.4 |
| RD-24 | SMRD-24-GW083110 | gross_beta | Total | 7.3 | NA | 1 | NA |
| RD-24 | SMRD-24-GW083110 | H-3 | Filtered | 79 | 120 | 38 | 61 |
| RD-24 | SMRD-24-GW083110 | H-3 | Suspended | 9.4 U R | 21 | 6.4 | 9.5 |
| RD-24 | SMRD-24-GW083110 | H-3 | Total | 88 R | NA | 38 | NA |
| RD-24 | SMRD-24-GW083110 | Ho-166m | Filtered | -0.54 U | 2.5 | 0.72 | 1.2 |
| RD-24 | SMRD-24-GW083110 | Ho-166m | Suspended | 0 U | 1.2 | 0.35 | 0.58 |
| RD-24 | SMRD-24-GW083110 | Ho-166m | Total | -0.54 SK | NA | 0.8 | NA |
| RD-24 | SMRD-24-GW083110 | K-40 | Filtered | 12.3 | 20 | 4.8 | 9.3 |
| RD-24 | SMRD-24-GW083110 | K-40 | Suspended | 4.5 U | 12 | 3.3 | 5.7 |
| RD-24 | SMRD-24-GW083110 | K-40 | Total | 16.8 | NA | 5.8 | NA |
| RD-24 | SMRD-24-GW083110 | Na-22 | Filtered | 0.07 U | 1.9 | 0.51 | 0.84 |
| RD-24 | SMRD-24-GW083110 | Na-22 | Suspended | 0.002 U | 0.65 | 0.18 | 0.3 |
| RD-24 | SMRD-24-GW083110 | Na-22 | Total | 0.07 | NA | 0.54 | NA |
| RD-24 | SMRD-24-GW083110 | Nb-94 | Filtered | 0.64 | 1.1 | 0.35 | 0.52 |
| RD-24 | SMRD-24-GW083110 | Nb-94 | Suspended | -0.005 U | 0.64 | 0.19 | 0.3 |
| RD-24 | SMRD-24-GW083110 | Nb-94 | Total | 0.63 | NA | 0.4 | NA |
| RD-24 | SMRD-24-GW083110 | Np-236 | Filtered | 0.65 U | 2.4 | 0.71 | 1.1 |
| RD-24 | SMRD-24-GW083110 | Np-236 | Suspended | -0.04 U | 1.2 | 0.36 | 0.58 |
| RD-24 | SMRD-24-GW083110 | Np-236 | Total | 0.61 SK | NA | 0.8 | NA |
| RD-24 | SMRD-24-GW083110 | Np-239 | Filtered | 1.5 U | 7.5 | 2.2 | 3.6 |
| RD-24 | SMRD-24-GW083110 | Np-239 | Suspended | 1 U | 3.6 | 1.1 | 1.8 |
| RD-24 | SMRD-24-GW083110 | Np-239 | Total | 2.5 | NA | 2.5 | NA |
| RD-24 | SMRD-24-GW083110 | Pa-231 | Filtered | -18 U | 63 | 19 | 30 |
| RD-24 | SMRD-24-GW083110 | Pa-231 | Suspended | 1.3 U | 26 | 7.7 | 13 |
| RD-24 | SMRD-24-GW083110 | Pa-231 | Total | -17 | NA | 20 | NA |
| RD-24 | SMRD-24-GW083110 | Pb-212 | Filtered | 1.05 U | 2.6 | 0.71 | 1.3 |
| RD-24 | SMRD-24-GW083110 | Pb-212 | Suspended | 1.45 | 1.2 | 0.44 | 0.61 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-24 | SMRD-24-GW083110 | Pb-212 | Total | 2.5 | NA | 0.83 | NA |
| RD-24 | SMRD-24-GW083110 | Pb-214 | Filtered | -6.4 L U | 3.1 | 2.6 | 1.5 |
| RD-24 | SMRD-24-GW083110 | Pb-214 | Suspended | -0.67 U | 1.6 | 0.68 | 0.78 |
| RD-24 | SMRD-24-GW083110 | Pb-214 | Total | -7 L | NA | 2.7 | NA |
| RD-24 | SMRD-24-GW083110 | Sb-125 | Filtered | -4.4 U | 14 | 4.3 | 7 |
| RD-24 | SMRD-24-GW083110 | Sb-125 | Suspended | 1.3 U | 5.7 | 1.7 | 2.8 |
| RD-24 | SMRD-24-GW083110 | Sb-125 | Total | -3.1 SK | NA | 4.7 | NA |
| RD-24 | SMRD-24-GW083110 | Sn-126 | Filtered | 0.42 U | 1.5 | 0.45 | 0.72 |
| RD-24 | SMRD-24-GW083110 | Sn-126 | Suspended | -0.004 U | 0.81 | 0.24 | 0.39 |
| RD-24 | SMRD-24-GW083110 | Sn-126 | Total | 0.42 | NA | 0.51 | NA |
| RD-24 | SMRD-24-GW083110 | Sr-90 | Filtered | -0.052 U | 0.16 | 0.041 | 0.094 |
| RD-24 | SMRD-24-GW083110 | Sr-90 | Suspended | 0.0004 U | 0.094 | 0.027 | 0.053 |
| RD-24 | SMRD-24-GW083110 | Sr-90 | Total | -0.052 | NA | 0.049 | NA |
| RD-24 | SMRD-24-GW083110 | Te-125m | Filtered | -1 U | 3.3 | 1 | 1.6 |
| RD-24 | SMRD-24-GW083110 | Te-125m | Suspended | 0.29 U | 1.3 | 0.4 | 0.64 |
| RD-24 | SMRD-24-GW083110 | Te-125m | Total | -0.7 SK | NA | 1.1 | NA |
| RD-24 | SMRD-24-GW083110 | Th-231 | Filtered | 0.177 | 0.019 | 0.023 | 0.006 |
| RD-24 | SMRD-24-GW083110 | Th-231 | Suspended | -0.0044 U | 0.035 | 0.0031 | 0.012 |
| RD-24 | SMRD-24-GW083110 | Th-231 | Total | 0.172 | NA | 0.023 | NA |
| RD-24 | SMRD-24-GW083110 | Th-234 | Filtered | 9.4 U | 22 | 7.4 | 11 |
| RD-24 | SMRD-24-GW083110 | Th-234 | Suspended | 4.2 | 8.3 | 2.7 | 4.1 |
| RD-24 | SMRD-24-GW083110 | Th-234 | Total | 13.6 | NA | 7.8 | NA |
| RD-24 | SMRD-24-GW083110 | Tl-208 | Filtered | 0.71 U | 1.8 | 0.48 | 0.83 |
| RD-24 | SMRD-24-GW083110 | Tl-208 | Suspended | 0.77 | 0.85 | 0.34 | 0.41 |
| RD-24 | SMRD-24-GW083110 | Tl-208 | Total | 1.48 | NA | 0.59 | NA |
| RD-24 | SMRD-24-GW083110 | Tm-171 | Filtered | 7 U | 340 | 98 | 160 |
| RD-24 | SMRD-24-GW083110 | Tm-171 | Suspended | -27 U | 130 | 39 | 63 |
| RD-24 | SMRD-24-GW083110 | Tm-171 | Total | -20 | NA | 110 | NA |
| RD-24 | SMRD-24-GW083110 | U-233/234 | Filtered | 4.4 | 0.006 | 0.21 | 0.005 |
| RD-24 | SMRD-24-GW083110 | U-233/234 | Suspended | 0.0055 U | 0.028 | 0.0097 | 0.0095 |
| RD-24 | SMRD-24-GW083110 | U-233/234 | Total | 4.41 | NA | 0.21 | NA |
| RD-24 | SMRD-24-GW083110 | U-235/236 | Filtered | 0.177 | 0.019 | 0.023 | 0.006 |
| RD-24 | SMRD-24-GW083110 | U-235/236 | Suspended | -0.0044 U | 0.035 | 0.0031 | 0.012 |
| RD-24 | SMRD-24-GW083110 | U-235/236 | Total | 0.172 | NA | 0.023 | NA |
| RD-24 | SMRD-24-GW083110 | U-238 | Filtered | 3.63 | 0.006 | 0.18 | 0.005 |
| RD-24 | SMRD-24-GW083110 | U-238 | Suspended | 0.005 U | 0.035 | 0.01 | 0.013 |
| RD-24 | SMRD-24-GW083110 | U-238 | Total | 3.63 | NA | 0.18 | NA |
| RD-27 | SMRD-027-GW090310 | Ac-227 | Filtered | -5.3 U | 9.9 | 3 | 4.8 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-27 | SMRD-027-GW090310 | Ac-227 | Suspended | -1.1 U | 3.6 | 1.1 | 1.7 |
| RD-27 | SMRD-027-GW090310 | Ac-227 | Total | -6.5 L | NA | 3.2 | NA |
| RD-27 | SMRD-027-GW090310 | Ac-228 | Filtered | 2.9 B | 4.7 | 1.5 | 2.2 |
| RD-27 | SMRD-027-GW090310 | Ac-228 | Suspended | 1.94 | 2.1 | 0.68 | 0.96 |
| RD-27 | SMRD-027-GW090310 | Ac-228 | Total | 4.9 B | NA | 1.6 | NA |
| RD-27 | SMRD-027-GW090310 | Ag-108 | Filtered | 0.008 U R | 0.11 | 0.032 | 0.052 |
| RD-27 | SMRD-027-GW090310 | Ag-108 | Suspended | -0.006 U R | 0.05 | 0.015 | 0.024 |
| RD-27 | SMRD-027-GW090310 | Ag-108 | Total | 0.001 R | NA | 0.035 | NA |
| RD-27 | SMRD-027-GW090310 | Ag-108m | Filtered | 0.08 U R | 1.2 | 0.34 | 0.56 |
| RD-27 | SMRD-027-GW090310 | Ag-108m | Suspended | -0.07 U R | 0.54 | 0.16 | 0.26 |
| RD-27 | SMRD-027-GW090310 | Ag-108m | Total | 0.01 R | NA | 0.38 | NA |
| RD-27 | SMRD-027-GW090310 | Ba-133 | Filtered | 1.9 U R | 9.5 | 2.8 | 4.5 |
| RD-27 | SMRD-027-GW090310 | Ba-133 | Suspended | -0.2 U R | 4.3 | 1.3 | 2.1 |
| RD-27 | SMRD-027-GW090310 | Ba-133 | Total | 1.7 R | NA | 3.1 | NA |
| RD-27 | SMRD-027-GW090310 | Ba-137m | Filtered | -0.21 U | 1.4 | 0.4 | 0.65 |
| RD-27 | SMRD-027-GW090310 | Ba-137m | Suspended | -0.11 U | 0.71 | 0.28 | 0.33 |
| RD-27 | SMRD-027-GW090310 | Ba-137m | Total | -0.33 | NA | 0.49 | NA |
| RD-27 | SMRD-027-GW090310 | Bi-212 | Filtered | -1 U | 9.7 | 2.7 | 4.4 |
| RD-27 | SMRD-027-GW090310 | Bi-212 | Suspended | 2.6 | 5.6 | 1.7 | 2.6 |
| RD-27 | SMRD-027-GW090310 | Bi-212 | Total | 1.7 | NA | 3.2 | NA |
| RD-27 | SMRD-027-GW090310 | Bi-214 | Filtered | -0.4 U | 3.2 | 1.1 | 1.5 |
| RD-27 | SMRD-027-GW090310 | Bi-214 | Suspended | 0.19 U | 1.3 | 0.41 | 0.59 |
| RD-27 | SMRD-027-GW090310 | Bi-214 | Total | -0.2 | NA | 1.2 | NA |
| RD-27 | SMRD-027-GW090310 | Cd-113m | Filtered | 5700 U | 13000 | 3900 | 6200 |
| RD-27 | SMRD-027-GW090310 | Cd-113m | Suspended | -800 U | 7200 | 2100 | 3500 |
| RD-27 | SMRD-027-GW090310 | Cd-113m | Total | 4900 | NA | 4500 | NA |
| RD-27 | SMRD-027-GW090310 | Cf-249 | Filtered | 1.3 U R | 5.5 | 1.6 | 2.6 |
| RD-27 | SMRD-027-GW090310 | Cf-249 | Suspended | -0.57 U B | 2.8 | 0.83 | 1.3 |
| RD-27 | SMRD-027-GW090310 | Cf-249 | Total | 0.7 B R | NA | 1.8 | NA |
| RD-27 | SMRD-027-GW090310 | Co-60 | Filtered | -0.44 U | 1.8 | 0.52 | 0.82 |
| RD-27 | SMRD-027-GW090310 | Co-60 | Suspended | 0.13 U | 0.78 | 0.22 | 0.35 |
| RD-27 | SMRD-027-GW090310 | Co-60 | Total | -0.31 | NA | 0.56 | NA |
| RD-27 | SMRD-027-GW090310 | Cs-134 | Filtered | -0.68 U | 1.7 | 0.51 | 0.8 |
| RD-27 | SMRD-027-GW090310 | Cs-134 | Suspended | 0.007 U | 0.67 | 0.19 | 0.32 |
| RD-27 | SMRD-027-GW090310 | Cs-134 | Total | -0.68 | NA | 0.54 | NA |
| RD-27 | SMRD-027-GW090310 | Cs-137 | Filtered | -0.23 U | 1.5 | 0.43 | 0.69 |
| RD-27 | SMRD-027-GW090310 | Cs-137 | Suspended | -0.12 U | 0.75 | 0.3 | 0.35 |
| RD-27 | SMRD-027-GW090310 | Cs-137 | Total | -0.35 | NA | 0.52 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-27 | SMRD-027-GW090310 | Eu-152 | Filtered | 0 U | 3.7 | 1.1 | 1.8 |
| RD-27 | SMRD-027-GW090310 | Eu-152 | Suspended | 0.002 U | 1.5 | 0.43 | 0.71 |
| RD-27 | SMRD-027-GW090310 | Eu-152 | Total | 0.002 | NA | 1.2 | NA |
| RD-27 | SMRD-027-GW090310 | Eu-154 | Filtered | -4.1 U | 12 | 3.6 | 5.6 |
| RD-27 | SMRD-027-GW090310 | Eu-154 | Suspended | -0.7 U | 5.9 | 1.7 | 2.7 |
| RD-27 | SMRD-027-GW090310 | Eu-154 | Total | -4.8 | NA | 4 | NA |
| RD-27 | SMRD-027-GW090310 | Eu-155 | Filtered | -0.33 U | 2.5 | 0.74 | 1.2 |
| RD-27 | SMRD-027-GW090310 | Eu-155 | Suspended | 0.26 U | 1 | 0.31 | 0.5 |
| RD-27 | SMRD-027-GW090310 | Eu-155 | Total | -0.07 | NA | 0.8 | NA |
| RD-27 | SMRD-027-GW090310 | gross_alpha | Filtered | 5.83 | 0.58 | 0.54 | 0.31 |
| RD-27 | SMRD-027-GW090310 | gross_alpha | Suspended | 0.85 | 0.61 | 0.25 | 0.32 |
| RD-27 | SMRD-027-GW090310 | gross_alpha | Total | 4.18 | NA | 0.46 | NA |
| RD-27 | SMRD-027-GW090310 | gross_beta | Filtered | 5.69 | 1.2 | 0.6 | 0.68 |
| RD-27 | SMRD-027-GW090310 | gross_beta | Suspended | 0.03 U | 0.84 | 0.24 | 0.5 |
| RD-27 | SMRD-027-GW090310 | gross_beta | Total | 5.72 | NA | 0.64 | NA |
| RD-27 | SMRD-027-GW090310 | H-3 | Filtered | 4 U | 130 | 38 | 63 |
| RD-27 | SMRD-027-GW090310 | H-3 | Suspended | 9.4 R | 15 | 4.9 | 6.6 |
| RD-27 | SMRD-027-GW090310 | H-3 | Total | 14 R | NA | 39 | NA |
| RD-27 | SMRD-027-GW090310 | Ho-166m | Filtered | -0.002 U | 2 | 0.56 | 0.93 |
| RD-27 | SMRD-027-GW090310 | Ho-166m | Suspended | 0.16 U | 0.94 | 0.27 | 0.44 |
| RD-27 | SMRD-027-GW090310 | Ho-166m | Total | 0.16 | NA | 0.63 | NA |
| RD-27 | SMRD-027-GW090310 | K-40 | Filtered | 35.4 | 3.9 | 4.4 | 1.2 |
| RD-27 | SMRD-027-GW090310 | K-40 | Suspended | -5 U | 10 | 6.9 | 4.9 |
| RD-27 | SMRD-027-GW090310 | K-40 | Total | 30.4 | NA | 8.2 | NA |
| RD-27 | SMRD-027-GW090310 | Na-22 | Filtered | -0.24 U | 1.7 | 0.47 | 0.75 |
| RD-27 | SMRD-027-GW090310 | Na-22 | Suspended | -0.23 U | 0.96 | 0.28 | 0.44 |
| RD-27 | SMRD-027-GW090310 | Na-22 | Total | -0.47 | NA | 0.55 | NA |
| RD-27 | SMRD-027-GW090310 | Nb-94 | Filtered | -0.13 U | 1.2 | 0.36 | 0.58 |
| RD-27 | SMRD-027-GW090310 | Nb-94 | Suspended | 0.007 U | 0.64 | 0.18 | 0.3 |
| RD-27 | SMRD-027-GW090310 | Nb-94 | Total | -0.12 | NA | 0.4 | NA |
| RD-27 | SMRD-027-GW090310 | Np-236 | Filtered | -0.21 U | 2.7 | 0.8 | 1.3 |
| RD-27 | SMRD-027-GW090310 | Np-236 | Suspended | -0.11 U | 1.2 | 0.36 | 0.59 |
| RD-27 | SMRD-027-GW090310 | Np-236 | Total | -0.33 | NA | 0.88 | NA |
| RD-27 | SMRD-027-GW090310 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-27 | SMRD-027-GW090310 | Np-239 | Filtered | 1.6 U | 7.8 | 2.3 | 3.8 |
| RD-27 | SMRD-027-GW090310 | Np-239 | Suspended | 0.02 U | 3.1 | 0.9 | 1.5 |
| RD-27 | SMRD-027-GW090310 | Np-239 | Total | 1.6 | NA | 2.5 | NA |
| RD-27 | SMRD-027-GW090310 | Pa-231 | Filtered | -0.03 U | 55 | 16 | 27 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-27 | SMRD-027-GW090310 | Pa-231 | Suspended | 4.1 U | 26 | 7.7 | 12 |
| RD-27 | SMRD-027-GW090310 | Pa-231 | Total | 4 | NA | 18 | NA |
| RD-27 | SMRD-027-GW090310 | Pb-212 | Filtered | 1.85 | 2.5 | 0.97 | 1.2 |
| RD-27 | SMRD-027-GW090310 | Pb-212 | Suspended | 0.39 U | 1.1 | 0.42 | 0.55 |
| RD-27 | SMRD-027-GW090310 | Pb-212 | Total | 2.2 | NA | 1.1 | NA |
| RD-27 | SMRD-027-GW090310 | Pb-214 | Filtered | -0.12 U | 3 | 0.91 | 1.4 |
| RD-27 | SMRD-027-GW090310 | Pb-214 | Suspended | -1.2 U | 1.4 | 1.6 | 0.7 |
| RD-27 | SMRD-027-GW090310 | Pb-214 | Total | -1.3 | NA | 1.8 | NA |
| RD-27 | SMRD-027-GW090310 | Sb-125 | Filtered | 2.1 U | 13 | 3.7 | 6.1 |
| RD-27 | SMRD-027-GW090310 | Sb-125 | Suspended | 0.7 U | 5.7 | 1.7 | 2.8 |
| RD-27 | SMRD-027-GW090310 | Sb-125 | Total | 2.8 | NA | 4.1 | NA |
| RD-27 | SMRD-027-GW090310 | Sn-126 | Filtered | 0.22 U | 1.5 | 0.45 | 0.72 |
| RD-27 | SMRD-027-GW090310 | Sn-126 | Suspended | 0.3 U | 0.8 | 0.24 | 0.38 |
| RD-27 | SMRD-027-GW090310 | Sn-126 | Total | 0.52 | NA | 0.51 | NA |
| RD-27 | SMRD-027-GW090310 | Sr-90 | Filtered | 0.001 U | 0.076 | 0.022 | 0.043 |
| RD-27 | SMRD-027-GW090310 | Sr-90 | Suspended | 0.014 U | 0.1 | 0.03 | 0.058 |
| RD-27 | SMRD-027-GW090310 | Sr-90 | Total | 0.015 | NA | 0.037 | NA |
| RD-27 | SMRD-027-GW090310 | Te-125m | Filtered | 0.49 U | 2.9 | 0.86 | 1.4 |
| RD-27 | SMRD-027-GW090310 | Te-125m | Suspended | 0.15 U | 1.3 | 0.39 | 0.64 |
| RD-27 | SMRD-027-GW090310 | Te-125m | Total | 0.64 | NA | 0.95 | NA |
| RD-27 | SMRD-027-GW090310 | Th-231 | Filtered | 0.071 | 0.007 | 0.014 | 0.006 |
| RD-27 | SMRD-027-GW090310 | Th-231 | Suspended | 0.0025 U | 0.0068 | 0.0025 | 0.0059 |
| RD-27 | SMRD-027-GW090310 | Th-231 | Total | 0.073 | NA | 0.014 | NA |
| RD-27 | SMRD-027-GW090310 | Th-234 | Filtered | 1.3 U | 22 | 6.8 | 11 |
| RD-27 | SMRD-027-GW090310 | Th-234 | Suspended | 2.1 U | 7 | 2.2 | 3.4 |
| RD-27 | SMRD-027-GW090310 | Th-234 | Total | 3.4 | NA | 7.1 | NA |
| RD-27 | SMRD-027-GW090310 | Tl-208 | Filtered | 0.61 U | 1.4 | 0.46 | 0.65 |
| RD-27 | SMRD-027-GW090310 | Tl-208 | Suspended | 0.12 U | 0.83 | 0.23 | 0.39 |
| RD-27 | SMRD-027-GW090310 | Tl-208 | Total | 0.74 | NA | 0.52 | NA |
| RD-27 | SMRD-027-GW090310 | Tm-171 | Filtered | 60 U | 360 | 110 | 170 |
| RD-27 | SMRD-027-GW090310 | Tm-171 | Suspended | -146 R U | 130 | 41 | 63 |
| RD-27 | SMRD-027-GW090310 | Tm-171 | Total | -90 R | NA | 110 | NA |
| RD-27 | SMRD-027-GW090310 | U-233/234 | Filtered | 1.7 | 0.02 | 0.094 | 0.007 |
| RD-27 | SMRD-027-GW090310 | U-233/234 | Suspended | 0.0176 | 0.015 | 0.0081 | 0.0047 |
| RD-27 | SMRD-027-GW090310 | U-233/234 | Total | 1.72 | NA | 0.094 | NA |
| RD-27 | SMRD-027-GW090310 | U-235/236 | Filtered | 0.071 | 0.007 | 0.014 | 0.006 |
| RD-27 | SMRD-027-GW090310 | U-235/236 | Suspended | 0.0025 U | 0.0068 | 0.0025 | 0.0059 |
| RD-27 | SMRD-027-GW090310 | U-235/236 | Total | 0.073 | NA | 0.014 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-27 | SMRD-027-GW090310 | U-238 | Filtered | 1.29 | 0.006 | 0.076 | 0.005 |
| RD-27 | SMRD-027-GW090310 | U-238 | Suspended | 0.0042 U | 0.015 | 0.0057 | 0.0047 |
| RD-27 | SMRD-027-GW090310 | U-238 | Total | 1.29 | NA | 0.076 | NA |
| RD-29 | SMRD-29-GW083110 | Ac-227 | Filtered | -0.1 U | 6.8 | 2 | 3.2 |
| RD-29 | SMRD-29-GW083110 | Ac-227 | Suspended | -2.9 U | 5.3 | 1.6 | 2.6 |
| RD-29 | SMRD-29-GW083110 | Ac-227 | Total | -3 | NA | 2.5 | NA |
| RD-29 | SMRD-29-GW083110 | Ac-228 | Filtered | 1.8 U | 4.6 | 1.4 | 2.1 |
| RD-29 | SMRD-29-GW083110 | Ac-228 | Suspended | 0.82 U | 2.1 | 0.64 | 1 |
| RD-29 | SMRD-29-GW083110 | Ac-228 | Total | 2.6 | NA | 1.5 | NA |
| RD-29 | SMRD-29-GW083110 | Ag-108 | Filtered | -0.009 U R | 0.12 | 0.034 | 0.055 |
| RD-29 | SMRD-29-GW083110 | Ag-108 | Suspended | 0.001 U R | 0.054 | 0.016 | 0.026 |
| RD-29 | SMRD-29-GW083110 | Ag-108 | Total | -0.1 R | NA | 0.38 | NA |
| RD-29 | SMRD-29-GW083110 | Ag-108m | Filtered | -0.1 U R | 1.2 | 0.36 | 0.59 |
| RD-29 | SMRD-29-GW083110 | Ag-108m | Suspended | -0.01 U R | 0.58 | 0.17 | 0.28 |
| RD-29 | SMRD-29-GW083110 | Ag-108m | Total | -0.11 R | NA | 0.4 | NA |
| RD-29 | SMRD-29-GW083110 | Am-241 | Filtered | 0.022 | 0.05 | 0.015 | 0.02 |
| RD-29 | SMRD-29-GW083110 | Am-241 | Suspended | 0.011 U | 0.05 | 0.013 | 0.021 |
| RD-29 | SMRD-29-GW083110 | Am-241 | Total | 0.033 | NA | 0.02 | NA |
| RD-29 | SMRD-29-GW083110 | Ba-133 | Filtered | -0.4 U R | 12 | 3.7 | 6 |
| RD-29 | SMRD-29-GW083110 | Ba-133 | Suspended | -0.7 U R | 6.5 | 1.9 | 3.2 |
| RD-29 | SMRD-29-GW083110 | Ba-133 | Total | -1.1 R | NA | 4.1 | NA |
| RD-29 | SMRD-29-GW083110 | Ba-137m | Filtered | 0.38 U | 1.2 | 0.36 | 0.56 |
| RD-29 | SMRD-29-GW083110 | Ba-137m | Suspended | -0.06 U | 0.69 | 0.2 | 0.33 |
| RD-29 | SMRD-29-GW083110 | Ba-137m | Total | 0.32 | NA | 0.41 | NA |
| RD-29 | SMRD-29-GW083110 | Bi-212 | Filtered | -0.01 U | 9.9 | 2.8 | 4.6 |
| RD-29 | SMRD-29-GW083110 | Bi-212 | Suspended | 3.3 | 4.3 | 1.4 | 2 |
| RD-29 | SMRD-29-GW083110 | Bi-212 | Total | 3.3 | NA | 3.1 | NA |
| RD-29 | SMRD-29-GW083110 | Bi-214 | Filtered | -2.7 U | 3.7 | 4.6 | 1.8 |
| RD-29 | SMRD-29-GW083110 | Bi-214 | Suspended | 2.73 | 1.6 | 0.61 | 0.75 |
| RD-29 | SMRD-29-GW083110 | Bi-214 | Total | -0.2 | NA | 4.7 | NA |
| RD-29 | SMRD-29-GW083110 | C-14 | Filtered | 0.35 U | 2.3 | 0.7 | 1.1 |
| RD-29 | SMRD-29-GW083110 | C-14 | Suspended | 1.64 R | 2.3 | 0.7 | 1.1 |
| RD-29 | SMRD-29-GW083110 | C-14 | Total | 1.99 R | NA | 0.99 | NA |
| RD-29 | SMRD-29-GW083110 | Cd-113m | Filtered | 80 U | 15000 | 4400 | 7200 |
| RD-29 | SMRD-29-GW083110 | Cd-113m | Suspended | -500 U | 7400 | 2200 | 3600 |
| RD-29 | SMRD-29-GW083110 | Cd-113m | Total | -400 | NA | 4900 | NA |
| RD-29 | SMRD-29-GW083110 | Cf-249 | Filtered | -0.5 U R | 6.7 | 2 | 3.2 |
| RD-29 | SMRD-29-GW083110 | Cf-249 | Suspended | 0.53 U R | 3.1 | 0.93 | 1.5 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-29 | SMRD-29-GW083110 | Cf-249 | Total | 0.06 R | NA | 2.2 | NA |
| RD-29 | SMRD-29-GW083110 | Cm-243/244 | Filtered | 0.001 U | 0.085 | 0.021 | 0.042 |
| RD-29 | SMRD-29-GW083110 | Cm-243/244 | Suspended | 0.05 | 0.076 | 0.025 | 0.037 |
| RD-29 | SMRD-29-GW083110 | Cm-243/244 | Total | 0.052 | NA | 0.033 | NA |
| RD-29 | SMRD-29-GW083110 | Cm-245/246 | Filtered | 0.0191 | 0.02 | 0.0085 | 0.0062 |
| RD-29 | SMRD-29-GW083110 | Cm-245/246 | Suspended | 0.014 U | 0.044 | 0.013 | 0.02 |
| RD-29 | SMRD-29-GW083110 | Cm-245/246 | Total | 0.033 | NA | 0.015 | NA |
| RD-29 | SMRD-29-GW083110 | Co-60 | Filtered | -0.26 U | 1.9 | 0.55 | 0.89 |
| RD-29 | SMRD-29-GW083110 | Co-60 | Suspended | 0.007 U | 0.55 | 0.15 | 0.25 |
| RD-29 | SMRD-29-GW083110 | Co-60 | Total | -0.25 | NA | 0.57 | NA |
| RD-29 | SMRD-29-GW083110 | Cs-134 | Filtered | -0.29 U | 1.6 | 0.47 | 0.76 |
| RD-29 | SMRD-29-GW083110 | Cs-134 | Suspended | -0.37 U | 0.78 | 0.24 | 0.38 |
| RD-29 | SMRD-29-GW083110 | Cs-134 | Total | -0.66 | NA | 0.52 | NA |
| RD-29 | SMRD-29-GW083110 | Cs-137 | Filtered | 0.4 U | 1.3 | 0.38 | 0.59 |
| RD-29 | SMRD-29-GW083110 | Cs-137 | Suspended | -0.06 U | 0.73 | 0.21 | 0.35 |
| RD-29 | SMRD-29-GW083110 | Cs-137 | Total | 0.34 | NA | 0.43 | NA |
| RD-29 | SMRD-29-GW083110 | Eu-152 | Filtered | -0.38 U | 3.3 | 0.95 | 1.5 |
| RD-29 | SMRD-29-GW083110 | Eu-152 | Suspended | -0.21 U | 1.7 | 0.51 | 0.84 |
| RD-29 | SMRD-29-GW083110 | Eu-152 | Total | -0.6 | NA | 1.1 | NA |
| RD-29 | SMRD-29-GW083110 | Eu-154 | Filtered | -1.9 U | 14 | 4 | 6.4 |
| RD-29 | SMRD-29-GW083110 | Eu-154 | Suspended | -0.1 U | 5.9 | 1.7 | 2.8 |
| RD-29 | SMRD-29-GW083110 | Eu-154 | Total | -2 | NA | 4.3 | NA |
| RD-29 | SMRD-29-GW083110 | Eu-155 | Filtered | 0.66 U | 3.2 | 0.97 | 1.6 |
| RD-29 | SMRD-29-GW083110 | Eu-155 | Suspended | 0.12 U | 1.3 | 0.38 | 0.63 |
| RD-29 | SMRD-29-GW083110 | Eu-155 | Total | 0.8 | NA | 1 | NA |
| RD-29 | SMRD-29-GW083110 | gross_alpha | Filtered | 17.1 | 0.5 | 1.2 | 0.3 |
| RD-29 | SMRD-29-GW083110 | gross_alpha | Suspended | 0.59 | 0.48 | 0.19 | 0.26 |
| RD-29 | SMRD-29-GW083110 | gross_alpha | Total | 18.4 | NA | 1.3 | NA |
| RD-29 | SMRD-29-GW083110 | gross_beta | Filtered | 5.8 | 3.3 | 1.2 | 1.9 |
| RD-29 | SMRD-29-GW083110 | gross_beta | Suspended | 0.9 | 0.72 | 0.25 | 0.43 |
| RD-29 | SMRD-29-GW083110 | gross_beta | Total | 6.7 | NA | 1.3 | NA |
| RD-29 | SMRD-29-GW083110 | H-3 | Filtered | -32 U | 140 | 41 | 68 |
| RD-29 | SMRD-29-GW083110 | H-3 | Suspended | 5.8 U R | 20 | 6.1 | 9.5 |
| RD-29 | SMRD-29-GW083110 | H-3 | Total | -26 R | NA | 41 | NA |
| RD-29 | SMRD-29-GW083110 | Ho-166m | Filtered | 0.46 U | 2.5 | 0.72 | 1.2 |
| RD-29 | SMRD-29-GW083110 | Ho-166m | Suspended | 0 U | 1.2 | 0.33 | 0.55 |
| RD-29 | SMRD-29-GW083110 | Ho-166m | Total | 0.46 | NA | 0.79 | NA |
| RD-29 | SMRD-29-GW083110 | I-129 | Filtered | 0.04 U | 0.49 | 0.15 | 0.24 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|--------|----------------|
| RD-29 | SMRD-29-GW083110 | I-129 | Suspended | 0.08 U | 0.48 | 0.14 | 0.24 |
| RD-29 | SMRD-29-GW083110 | I-129 | Total | 0.12 | NA | 0.21 | NA |
| RD-29 | SMRD-29-GW083110 | K-40 | Filtered | -18 U | 25 | 19 | 12 |
| RD-29 | SMRD-29-GW083110 | K-40 | Suspended | 29.1 | 9.9 | 3.8 | 4.7 |
| RD-29 | SMRD-29-GW083110 | K-40 | Total | -10 | NA | 19 | NA |
| RD-29 | SMRD-29-GW083110 | Na-22 | Filtered | -0.03 U | 1.8 | 0.51 | 0.84 |
| RD-29 | SMRD-29-GW083110 | Na-22 | Suspended | 0.05 U | 0.64 | 0.18 | 0.29 |
| RD-29 | SMRD-29-GW083110 | Na-22 | Total | 0.01 | NA | 0.54 | NA |
| RD-29 | SMRD-29-GW083110 | Nb-94 | Filtered | 0.37 U | 1.4 | 0.41 | 0.65 |
| RD-29 | SMRD-29-GW083110 | Nb-94 | Suspended | -0.003 U | 0.65 | 0.19 | 0.31 |
| RD-29 | SMRD-29-GW083110 | Nb-94 | Total | 0.37 | NA | 0.45 | NA |
| RD-29 | SMRD-29-GW083110 | Np-236 | Filtered | 0.92 U | 2.4 | 0.72 | 1.2 |
| RD-29 | SMRD-29-GW083110 | Np-236 | Suspended | 0.15 U | 1.3 | 0.39 | 0.65 |
| RD-29 | SMRD-29-GW083110 | Np-236 | Total | 1.07 | NA | 0.82 | NA |
| RD-29 | SMRD-29-GW083110 | Np-237 | Suspended | -0.0019 U | 0.021 | 0.0019 | 0.0063 |
| RD-29 | SMRD-29-GW083110 | Np-237 | Total | -0.0019 | NA | 0.0044 | NA |
| RD-29 | SMRD-29-GW083110 | Np-239 | Filtered | 0.02 U | 7.9 | 2.3 | 3.8 |
| RD-29 | SMRD-29-GW083110 | Np-239 | Suspended | 0.3 U | 3.7 | 1.1 | 1.8 |
| RD-29 | SMRD-29-GW083110 | Np-239 | Total | 0.3 | NA | 2.5 | NA |
| RD-29 | SMRD-29-GW083110 | Pa-231 | Filtered | 21 U | 59 | 18 | 28 |
| RD-29 | SMRD-29-GW083110 | Pa-231 | Suspended | -8.7 U | 30 | 8.9 | 14 |
| RD-29 | SMRD-29-GW083110 | Pa-231 | Total | 13 | NA | 20 | NA |
| RD-29 | SMRD-29-GW083110 | Pb-212 | Filtered | 1.08 U | 2.4 | 0.92 | 1.1 |
| RD-29 | SMRD-29-GW083110 | Pb-212 | Suspended | 1.26 | 1.4 | 0.47 | 0.66 |
| RD-29 | SMRD-29-GW083110 | Pb-212 | Total | 1.9 | NA | 1 | NA |
| RD-29 | SMRD-29-GW083110 | Pb-214 | Filtered | 2.04 | 2.6 | 0.8 | 1.2 |
| RD-29 | SMRD-29-GW083110 | Pb-214 | Suspended | 3.16 | 1.2 | 0.44 | 0.6 |
| RD-29 | SMRD-29-GW083110 | Pb-214 | Total | 5.2 | NA | 0.92 | NA |
| RD-29 | SMRD-29-GW083110 | Pu-238 | Filtered | 0.013 U | 0.048 | 0.013 | 0.02 |
| RD-29 | SMRD-29-GW083110 | Pu-238 | Suspended | 0.035 | 0.054 | 0.017 | 0.025 |
| RD-29 | SMRD-29-GW083110 | Pu-238 | Total | 0.047 | NA | 0.022 | NA |
| RD-29 | SMRD-29-GW083110 | Pu-239/240 | Filtered | 0.0086 | 0.027 | 0.0078 | 0.0076 |
| RD-29 | SMRD-29-GW083110 | Pu-239/240 | Suspended | -0.0066 U L | 0.032 | 0.0054 | 0.013 |
| RD-29 | SMRD-29-GW083110 | Pu-239/240 | Total | 0.002 | NA | 0.0095 | NA |
| RD-29 | SMRD-29-GW083110 | Pu-242 | Filtered | -0.0007 U | 0.036 | 0.0063 | 0.013 |
| RD-29 | SMRD-29-GW083110 | Pu-242 | Suspended | -0.0097 U | 0.046 | 0.0099 | 0.021 |
| RD-29 | SMRD-29-GW083110 | Pu-242 | Total | -0.01 | NA | 0.012 | NA |
| RD-29 | SMRD-29-GW083110 | Ra-226 | Filtered | 0.316 | 0.17 | 0.075 | 0.088 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-29 | SMRD-29-GW083110 | Ra-226 | Suspended | 0.06 | 0.09 | 0.03 | 0.047 |
| RD-29 | SMRD-29-GW083110 | Ra-226 | Total | 0.376 | NA | 0.08 | NA |
| RD-29 | SMRD-29-GW083110 | Sb-125 | Filtered | -0.5 U | 14 | 4 | 6.6 |
| RD-29 | SMRD-29-GW083110 | Sb-125 | Suspended | -0.7 U | 5.9 | 1.7 | 2.9 |
| RD-29 | SMRD-29-GW083110 | Sb-125 | Total | -1.1 | NA | 4.4 | NA |
| RD-29 | SMRD-29-GW083110 | Sn-126 | Filtered | 0.06 U | 1.2 | 0.35 | 0.58 |
| RD-29 | SMRD-29-GW083110 | Sn-126 | Suspended | 0.2 U | 0.75 | 0.22 | 0.36 |
| RD-29 | SMRD-29-GW083110 | Sn-126 | Total | 0.26 | NA | 0.42 | NA |
| RD-29 | SMRD-29-GW083110 | Sr-90 | Filtered | 0.109 | 0.11 | 0.035 | 0.063 |
| RD-29 | SMRD-29-GW083110 | Sr-90 | Suspended | -0.069 U | 0.16 | 0.041 | 0.094 |
| RD-29 | SMRD-29-GW083110 | Sr-90 | Total | 0.04 | NA | 0.054 | NA |
| RD-29 | SMRD-29-GW083110 | Tc-99 | Filtered | -0.14 U | 1.5 | 0.45 | 0.74 |
| RD-29 | SMRD-29-GW083110 | Tc-99 | Suspended | -0.13 U | 1.4 | 0.42 | 0.69 |
| RD-29 | SMRD-29-GW083110 | Tc-99 | Total | -0.27 | NA | 0.61 | NA |
| RD-29 | SMRD-29-GW083110 | Te-125m | Filtered | -0.1 U | 3.1 | 0.92 | 1.5 |
| RD-29 | SMRD-29-GW083110 | Te-125m | Suspended | -0.15 U | 1.4 | 0.4 | 0.66 |
| RD-29 | SMRD-29-GW083110 | Te-125m | Total | -1 | NA | 4.1 | NA |
| RD-29 | SMRD-29-GW083110 | Th-231 | Filtered | 0.476 | 0.055 | 0.063 | 0.021 |
| RD-29 | SMRD-29-GW083110 | Th-231 | Suspended | 0 | 0.01 | 0 | 0 |
| RD-29 | SMRD-29-GW083110 | Th-231 | Total | 0.476 | NA | 0.063 | NA |
| RD-29 | SMRD-29-GW083110 | Th-234 | Filtered | -2.6 U | 24 | 7.8 | 12 |
| RD-29 | SMRD-29-GW083110 | Th-234 | Suspended | -9.2 U | 8.9 | 5.8 | 4.4 |
| RD-29 | SMRD-29-GW083110 | Th-234 | Total | -1.9 | NA | 8.3 | NA |
| RD-29 | SMRD-29-GW083110 | Tl-208 | Filtered | -0.7 U | 1.7 | 1.2 | 0.8 |
| RD-29 | SMRD-29-GW083110 | Tl-208 | Suspended | 0.36 U | 0.8 | 0.27 | 0.38 |
| RD-29 | SMRD-29-GW083110 | Tl-208 | Total | -0.5 | NA | 1.2 | NA |
| RD-29 | SMRD-29-GW083110 | Tm-171 | Filtered | -50 U | 340 | 100 | 170 |
| RD-29 | SMRD-29-GW083110 | Tm-171 | Suspended | 3 U | 120 | 35 | 57 |
| RD-29 | SMRD-29-GW083110 | Tm-171 | Total | -40 | NA | 110 | NA |
| RD-29 | SMRD-29-GW083110 | U-233/234 | Filtered | 9.49 | 0.05 | 0.46 | 0.02 |
| RD-29 | SMRD-29-GW083110 | U-233/234 | Suspended | 0.051 | 0.023 | 0.017 | 0.005 |
| RD-29 | SMRD-29-GW083110 | U-233/234 | Total | 9.54 | NA | 0.46 | NA |
| RD-29 | SMRD-29-GW083110 | U-235/236 | Filtered | 0.476 | 0.055 | 0.063 | 0.021 |
| RD-29 | SMRD-29-GW083110 | U-235/236 | Suspended | 0 | 0.01 | 0 | 0 |
| RD-29 | SMRD-29-GW083110 | U-235/236 | Total | 0.476 | NA | 0.063 | NA |
| RD-29 | SMRD-29-GW083110 | U-238 | Filtered | 9.63 | 0.04 | 0.47 | 0.01 |
| RD-29 | SMRD-29-GW083110 | U-238 | Suspended | 0.032 | 0.03 | 0.015 | 0.009 |
| RD-29 | SMRD-29-GW083110 | U-238 | Total | 9.66 | NA | 0.47 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-33A | SMRD-33A-GW081810 | Ac-227 | Filtered | -6.6 U | 12 | 3.8 | 6 |
| RD-33A | SMRD-33A-GW081810 | Ac-227 | Suspended | 0.09 U | 3.8 | 1.1 | 1.8 |
| RD-33A | SMRD-33A-GW081810 | Ac-227 | Total | -6.5 | NA | 3.9 | NA |
| RD-33A | SMRD-33A-GW081810 | Ac-228 | Filtered | 3.8 | 4.7 | 1.5 | 2.2 |
| RD-33A | SMRD-33A-GW081810 | Ac-228 | Suspended | 1.74 | 2.2 | 0.69 | 1 |
| RD-33A | SMRD-33A-GW081810 | Ac-228 | Total | 5.6 | NA | 1.6 | NA |
| RD-33A | SMRD-33A-GW081810 | Ag-108 | Filtered | 0.02 U R | 0.11 | 0.034 | 0.055 |
| RD-33A | SMRD-33A-GW081810 | Ag-108 | Suspended | 0.011 U R | 0.048 | 0.014 | 0.023 |
| RD-33A | SMRD-33A-GW081810 | Ag-108 | Total | 0.32 R | NA | 0.37 | NA |
| RD-33A | SMRD-33A-GW081810 | Ag-108m | Filtered | 0.21 U R | 1.2 | 0.36 | 0.59 |
| RD-33A | SMRD-33A-GW081810 | Ag-108m | Suspended | 0.12 U R | 0.52 | 0.15 | 0.25 |
| RD-33A | SMRD-33A-GW081810 | Ag-108m | Total | 0.34 R | NA | 0.39 | NA |
| RD-33A | SMRD-33A-GW081810 | Ba-133 | Filtered | 3.8 U R | 14 | 4.3 | 6.9 |
| RD-33A | SMRD-33A-GW081810 | Ba-133 | Suspended | 2.1 U R | 5.2 | 1.6 | 2.5 |
| RD-33A | SMRD-33A-GW081810 | Ba-133 | Total | 5.8 R | NA | 4.6 | NA |
| RD-33A | SMRD-33A-GW081810 | Ba-137m | Filtered | -0.29 U | 1.5 | 0.44 | 0.71 |
| RD-33A | SMRD-33A-GW081810 | Ba-137m | Suspended | 0.13 U | 0.59 | 0.17 | 0.28 |
| RD-33A | SMRD-33A-GW081810 | Ba-137m | Total | -0.16 | NA | 0.47 | NA |
| RD-33A | SMRD-33A-GW081810 | Bi-212 | Filtered | 6.2 | 11 | 3.2 | 5 |
| RD-33A | SMRD-33A-GW081810 | Bi-212 | Suspended | 2.3 U | 5.3 | 1.6 | 2.5 |
| RD-33A | SMRD-33A-GW081810 | Bi-212 | Total | 8.5 | NA | 3.6 | NA |
| RD-33A | SMRD-33A-GW081810 | Bi-214 | Filtered | 0.03 U | 3.6 | 0.95 | 1.7 |
| RD-33A | SMRD-33A-GW081810 | Bi-214 | Suspended | 1.09 | 1.7 | 0.65 | 0.83 |
| RD-33A | SMRD-33A-GW081810 | Bi-214 | Total | 1.1 | NA | 1.2 | NA |
| RD-33A | SMRD-33A-GW081810 | Cd-113m | Filtered | 1000 U | 19000 | 5700 | 9300 |
| RD-33A | SMRD-33A-GW081810 | Cd-113m | Suspended | -300 U | 6800 | 2000 | 3300 |
| RD-33A | SMRD-33A-GW081810 | Cd-113m | Total | 700 | NA | 6000 | NA |
| RD-33A | SMRD-33A-GW081810 | Cf-249 | Filtered | -0.02 U R | 6.2 | 1.8 | 3 |
| RD-33A | SMRD-33A-GW081810 | Cf-249 | Suspended | 0 U R | 3.4 | 1 | 1.7 |
| RD-33A | SMRD-33A-GW081810 | Cf-249 | Total | -0.02 R | NA | 2.1 | NA |
| RD-33A | SMRD-33A-GW081810 | Co-60 | Filtered | 0.66 | 1.4 | 0.43 | 0.66 |
| RD-33A | SMRD-33A-GW081810 | Co-60 | Suspended | 0 U | 1 | 0.3 | 0.49 |
| RD-33A | SMRD-33A-GW081810 | Co-60 | Total | 0.66 | NA | 0.52 | NA |
| RD-33A | SMRD-33A-GW081810 | Cs-134 | Filtered | 0.04 U | 1.6 | 0.48 | 0.79 |
| RD-33A | SMRD-33A-GW081810 | Cs-134 | Suspended | -0.17 U | 0.75 | 0.22 | 0.36 |
| RD-33A | SMRD-33A-GW081810 | Cs-134 | Total | -0.13 | NA | 0.53 | NA |
| RD-33A | SMRD-33A-GW081810 | Cs-137 | Filtered | -0.31 U | 1.6 | 0.46 | 0.75 |
| RD-33A | SMRD-33A-GW081810 | Cs-137 | Suspended | 0.14 U | 0.62 | 0.18 | 0.3 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-33A | SMRD-33A-GW081810 | Cs-137 | Total | -0.17 | NA | 0.5 | NA |
| RD-33A | SMRD-33A-GW081810 | Eu-152 | Filtered | 0.2 U | 4.1 | 1.2 | 2 |
| RD-33A | SMRD-33A-GW081810 | Eu-152 | Suspended | -0.16 U | 1.7 | 0.51 | 0.83 |
| RD-33A | SMRD-33A-GW081810 | Eu-152 | Total | 0.04 | NA | 1.3 | NA |
| RD-33A | SMRD-33A-GW081810 | Eu-154 | Filtered | -0.02 U | 12 | 3.5 | 5.7 |
| RD-33A | SMRD-33A-GW081810 | Eu-154 | Suspended | -1.2 U | 5.9 | 1.7 | 2.8 |
| RD-33A | SMRD-33A-GW081810 | Eu-154 | Total | -1.2 | NA | 3.9 | NA |
| RD-33A | SMRD-33A-GW081810 | Eu-155 | Filtered | 1.5 U | 4 | 1.2 | 2 |
| RD-33A | SMRD-33A-GW081810 | Eu-155 | Suspended | -0.15 U | 1.1 | 0.34 | 0.56 |
| RD-33A | SMRD-33A-GW081810 | Eu-155 | Total | 1.4 | NA | 1.3 | NA |
| RD-33A | SMRD-33A-GW081810 | gross_beta | Filtered | 4.64 | 1.8 | 0.74 | 1.1 |
| RD-33A | SMRD-33A-GW081810 | gross_beta | Suspended | 0.33 U | 0.67 | 0.2 | 0.39 |
| RD-33A | SMRD-33A-GW081810 | gross_beta | Total | 4.98 | NA | 0.77 | NA |
| RD-33A | SMRD-33A-GW081810 | H-3 | Filtered | 30 U | 150 | 43 | 70 |
| RD-33A | SMRD-33A-GW081810 | H-3 | Suspended | -4.3 U R | 23 | 6.7 | 11 |
| RD-33A | SMRD-33A-GW081810 | H-3 | Total | 26 R | NA | 44 | NA |
| RD-33A | SMRD-33A-GW081810 | Ho-166m | Filtered | -0.74 U | 2.5 | 0.75 | 1.2 |
| RD-33A | SMRD-33A-GW081810 | Ho-166m | Suspended | 0.3 U | 1 | 0.31 | 0.5 |
| RD-33A | SMRD-33A-GW081810 | Ho-166m | Total | -0.44 | NA | 0.81 | NA |
| RD-33A | SMRD-33A-GW081810 | K-40 | Filtered | 13.7 | 19 | 7 | 9.2 |
| RD-33A | SMRD-33A-GW081810 | K-40 | Suspended | 2.2 U | 11 | 3 | 5.4 |
| RD-33A | SMRD-33A-GW081810 | K-40 | Total | 15.9 | NA | 7.6 | NA |
| RD-33A | SMRD-33A-GW081810 | Na-22 | Filtered | 0.22 U | 1.3 | 0.37 | 0.6 |
| RD-33A | SMRD-33A-GW081810 | Na-22 | Suspended | -0.13 U | 0.74 | 0.22 | 0.35 |
| RD-33A | SMRD-33A-GW081810 | Na-22 | Total | 0.08 | NA | 0.43 | NA |
| RD-33A | SMRD-33A-GW081810 | Nb-94 | Filtered | 0.5 U | 1.2 | 0.36 | 0.56 |
| RD-33A | SMRD-33A-GW081810 | Nb-94 | Suspended | 0.08 U | 0.63 | 0.19 | 0.3 |
| RD-33A | SMRD-33A-GW081810 | Nb-94 | Total | 0.57 | NA | 0.4 | NA |
| RD-33A | SMRD-33A-GW081810 | Np-236 | Filtered | -0.02 U | 3.5 | 1 | 1.7 |
| RD-33A | SMRD-33A-GW081810 | Np-236 | Suspended | -0.09 U | 1.2 | 0.36 | 0.58 |
| RD-33A | SMRD-33A-GW081810 | Np-236 | Total | -0.1 | NA | 1.1 | NA |
| RD-33A | SMRD-33A-GW081810 | Np-239 | Filtered | -1.6 U | 9.7 | 2.9 | 4.8 |
| RD-33A | SMRD-33A-GW081810 | Np-239 | Suspended | 0.89 U | 3.3 | 0.99 | 1.6 |
| RD-33A | SMRD-33A-GW081810 | Np-239 | Total | -0.7 | NA | 3.1 | NA |
| RD-33A | SMRD-33A-GW081810 | Pa-231 | Filtered | -12 U | 73 | 22 | 36 |
| RD-33A | SMRD-33A-GW081810 | Pa-231 | Suspended | -2.7 U | 24 | 7.1 | 12 |
| RD-33A | SMRD-33A-GW081810 | Pa-231 | Total | -15 | NA | 23 | NA |
| RD-33A | SMRD-33A-GW081810 | Pb-212 | Filtered | 2.4 | 3.2 | 1.3 | 1.6 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-33A | SMRD-33A-GW081810 | Pb-212 | Suspended | 0.01 U | 1.1 | 0.33 | 0.52 |
| RD-33A | SMRD-33A-GW081810 | Pb-212 | Total | 2.4 | NA | 1.3 | NA |
| RD-33A | SMRD-33A-GW081810 | Pb-214 | Filtered | 4.27 | 2.8 | 0.92 | 1.4 |
| RD-33A | SMRD-33A-GW081810 | Pb-214 | Suspended | -0.57 U | 1.4 | 0.64 | 0.7 |
| RD-33A | SMRD-33A-GW081810 | Pb-214 | Total | 3.7 | NA | 1.1 | NA |
| RD-33A | SMRD-33A-GW081810 | Sb-125 | Filtered | 0.8 U | 16 | 4.7 | 7.8 |
| RD-33A | SMRD-33A-GW081810 | Sb-125 | Suspended | 0.8 U | 5.7 | 1.7 | 2.8 |
| RD-33A | SMRD-33A-GW081810 | Sb-125 | Total | 1.6 | NA | 5 | NA |
| RD-33A | SMRD-33A-GW081810 | Sn-126 | Filtered | 0.13 U | 1.4 | 0.42 | 0.69 |
| RD-33A | SMRD-33A-GW081810 | Sn-126 | Suspended | 0.25 U | 0.72 | 0.21 | 0.34 |
| RD-33A | SMRD-33A-GW081810 | Sn-126 | Total | 0.38 | NA | 0.47 | NA |
| RD-33A | SMRD-33A-GW081810 | Sr-90 | Filtered | -0.03 U | 0.24 | 0.067 | 0.14 |
| RD-33A | SMRD-33A-GW081810 | Sr-90 | Suspended | -0.005 U | 0.19 | 0.054 | 0.12 |
| RD-33A | SMRD-33A-GW081810 | Sr-90 | Total | -0.035 | NA | 0.086 | NA |
| RD-33A | SMRD-33A-GW081810 | Te-125m | Filtered | 0.2 U | 3.7 | 1.1 | 1.8 |
| RD-33A | SMRD-33A-GW081810 | Te-125m | Suspended | 0.19 U | 1.3 | 0.39 | 0.64 |
| RD-33A | SMRD-33A-GW081810 | Te-125m | Total | 1.5 | NA | 4.8 | NA |
| RD-33A | SMRD-33A-GW081810 | Th-231 | Filtered | 0.031 | 0.048 | 0.017 | 0.019 |
| RD-33A | SMRD-33A-GW081810 | Th-231 | Suspended | -0.0069 U | 0.042 | 0.009 | 0.013 |
| RD-33A | SMRD-33A-GW081810 | Th-231 | Total | 0.024 | NA | 0.019 | NA |
| RD-33A | SMRD-33A-GW081810 | Th-234 | Filtered | 1.4 U | 24 | 7.2 | 12 |
| RD-33A | SMRD-33A-GW081810 | Th-234 | Suspended | 2.3 U | 8.7 | 2.7 | 4.3 |
| RD-33A | SMRD-33A-GW081810 | Th-234 | Total | 3.6 | NA | 7.7 | NA |
| RD-33A | SMRD-33A-GW081810 | Tl-208 | Filtered | 0.75 | 1.6 | 0.53 | 0.75 |
| RD-33A | SMRD-33A-GW081810 | Tl-208 | Suspended | 0.09 U | 0.77 | 0.27 | 0.37 |
| RD-33A | SMRD-33A-GW081810 | Tl-208 | Total | 0.84 | NA | 0.59 | NA |
| RD-33A | SMRD-33A-GW081810 | Tm-171 | Filtered | 230 | 450 | 140 | 220 |
| RD-33A | SMRD-33A-GW081810 | Tm-171 | Suspended | 1 U | 120 | 35 | 58 |
| RD-33A | SMRD-33A-GW081810 | Tm-171 | Total | 230 | NA | 140 | NA |
| RD-33A | SMRD-33A-GW081810 | U-233/234 | Filtered | 1.61 | 0.07 | 0.11 | 0.03 |
| RD-33A | SMRD-33A-GW081810 | U-233/234 | Suspended | 0.004 U | 0.034 | 0.011 | 0.01 |
| RD-33A | SMRD-33A-GW081810 | U-233/234 | Total | 1.61 | NA | 0.11 | NA |
| RD-33A | SMRD-33A-GW081810 | U-235/236 | Filtered | 0.031 | 0.048 | 0.017 | 0.019 |
| RD-33A | SMRD-33A-GW081810 | U-235/236 | Suspended | -0.0069 U | 0.042 | 0.009 | 0.013 |
| RD-33A | SMRD-33A-GW081810 | U-235/236 | Total | 0.024 | NA | 0.019 | NA |
| RD-33A | SMRD-33A-GW081810 | U-238 | Filtered | 1.17 | 0.047 | 0.091 | 0.021 |
| RD-33A | SMRD-33A-GW081810 | U-238 | Suspended | 0.0036 U | 0.03 | 0.0096 | 0.0082 |
| RD-33A | SMRD-33A-GW081810 | U-238 | Total | 1.18 | NA | 0.091 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-33B | SMRD-33B-GW090210 | Ac-227 | Filtered | 0.3 U | 8.7 | 2.5 | 4.2 |
| RD-33B | SMRD-33B-GW090210 | Ac-227 | Suspended | 0.09 U | 3.2 | 0.93 | 1.5 |
| RD-33B | SMRD-33B-GW090210 | Ac-227 | Total | 0.3 | NA | 2.7 | NA |
| RD-33B | SMRD-33B-GW090210 | Ac-228 | Filtered | 7.5 | 5.1 | 1.8 | 2.4 |
| RD-33B | SMRD-33B-GW090210 | Ac-228 | Suspended | 1.06 | 2.2 | 0.66 | 1 |
| RD-33B | SMRD-33B-GW090210 | Ac-228 | Total | 8.6 | NA | 1.9 | NA |
| RD-33B | SMRD-33B-GW090210 | Ag-108 | Filtered | 0.019 U R | 0.11 | 0.033 | 0.053 |
| RD-33B | SMRD-33B-GW090210 | Ag-108 | Suspended | 0.01 U R | 0.045 | 0.013 | 0.021 |
| RD-33B | SMRD-33B-GW090210 | Ag-108 | Total | 0.29 R | NA | 0.36 | NA |
| RD-33B | SMRD-33B-GW090210 | Ag-108m | Filtered | 0.2 U R | 1.2 | 0.35 | 0.57 |
| RD-33B | SMRD-33B-GW090210 | Ag-108m | Suspended | 0.11 U R | 0.48 | 0.14 | 0.23 |
| RD-33B | SMRD-33B-GW090210 | Ag-108m | Total | 0.31 R | NA | 0.38 | NA |
| RD-33B | SMRD-33B-GW090210 | Am-241 | Filtered | 0.023 | 0.047 | 0.015 | 0.02 |
| RD-33B | SMRD-33B-GW090210 | Am-241 | Suspended | 0.0101 U | 0.037 | 0.0099 | 0.013 |
| RD-33B | SMRD-33B-GW090210 | Am-241 | Total | 0.033 | NA | 0.018 | NA |
| RD-33B | SMRD-33B-GW090210 | Ba-133 | Filtered | 2.8 U R | 13 | 3.8 | 6.1 |
| RD-33B | SMRD-33B-GW090210 | Ba-133 | Suspended | 2.5 R | 5.1 | 1.6 | 2.5 |
| RD-33B | SMRD-33B-GW090210 | Ba-133 | Total | 5.3 R | NA | 4.1 | NA |
| RD-33B | SMRD-33B-GW090210 | Ba-137m | Filtered | 0.16 U | 1.5 | 0.43 | 0.71 |
| RD-33B | SMRD-33B-GW090210 | Ba-137m | Suspended | -0.17 U | 0.63 | 0.19 | 0.29 |
| RD-33B | SMRD-33B-GW090210 | Ba-137m | Total | -0.02 | NA | 0.47 | NA |
| RD-33B | SMRD-33B-GW090210 | Bi-212 | Filtered | 0 U | 13 | 3.8 | 6.2 |
| RD-33B | SMRD-33B-GW090210 | Bi-212 | Suspended | 0.08 U | 4.1 | 1.2 | 1.9 |
| RD-33B | SMRD-33B-GW090210 | Bi-212 | Total | 0.08 | NA | 4 | NA |
| RD-33B | SMRD-33B-GW090210 | Bi-214 | Filtered | -2.2 U | 3.6 | 3.2 | 1.7 |
| RD-33B | SMRD-33B-GW090210 | Bi-214 | Suspended | 1.36 | 1.4 | 0.56 | 0.69 |
| RD-33B | SMRD-33B-GW090210 | Bi-214 | Total | -0.9 | NA | 3.3 | NA |
| RD-33B | SMRD-33B-GW090210 | C-14 | Filtered | 0.57 U | 2.2 | 0.67 | 1.1 |
| RD-33B | SMRD-33B-GW090210 | C-14 | Suspended | 2.73 R | 2.3 | 0.73 | 1.1 |
| RD-33B | SMRD-33B-GW090210 | C-14 | Total | 3.31 R | NA | 0.99 | NA |
| RD-33B | SMRD-33B-GW090210 | Cd-113m | Filtered | 2200 U | 16000 | 4600 | 7500 |
| RD-33B | SMRD-33B-GW090210 | Cd-113m | Suspended | 1300 U | 5800 | 1700 | 2800 |
| RD-33B | SMRD-33B-GW090210 | Cd-113m | Total | 3400 | NA | 4900 | NA |
| RD-33B | SMRD-33B-GW090210 | Cf-249 | Filtered | -0.03 U R | 5.1 | 1.5 | 2.4 |
| RD-33B | SMRD-33B-GW090210 | Cf-249 | Suspended | -0.66 U R | 2.9 | 0.85 | 1.4 |
| RD-33B | SMRD-33B-GW090210 | Cf-249 | Total | -0.7 R | NA | 1.7 | NA |
| RD-33B | SMRD-33B-GW090210 | Cm-243/244 | Filtered | 0.025 U | 0.081 | 0.023 | 0.04 |
| RD-33B | SMRD-33B-GW090210 | Cm-243/244 | Suspended | 0.024 U | 0.1 | 0.029 | 0.054 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-33B | SMRD-33B-GW090210 | Cm-243/244 | Total | 0.048 | NA | 0.038 | NA |
| RD-33B | SMRD-33B-GW090210 | Cm-245/246 | Filtered | 0.028 | 0.023 | 0.01 | 0.008 |
| RD-33B | SMRD-33B-GW090210 | Cm-245/246 | Suspended | 0.017 | 0.033 | 0.01 | 0.014 |
| RD-33B | SMRD-33B-GW090210 | Cm-245/246 | Total | 0.045 | NA | 0.014 | NA |
| RD-33B | SMRD-33B-GW090210 | Co-60 | Filtered | -0.23 U | 1.6 | 0.45 | 0.71 |
| RD-33B | SMRD-33B-GW090210 | Co-60 | Suspended | -0.0001 U | 0.66 | 0.18 | 0.3 |
| RD-33B | SMRD-33B-GW090210 | Co-60 | Total | -0.23 | NA | 0.48 | NA |
| RD-33B | SMRD-33B-GW090210 | Cs-134 | Filtered | 0.55 U | 1.4 | 0.43 | 0.68 |
| RD-33B | SMRD-33B-GW090210 | Cs-134 | Suspended | 0.006 U | 0.49 | 0.14 | 0.23 |
| RD-33B | SMRD-33B-GW090210 | Cs-134 | Total | 0.55 | NA | 0.45 | NA |
| RD-33B | SMRD-33B-GW090210 | Cs-137 | Filtered | 0.17 U | 1.6 | 0.46 | 0.75 |
| RD-33B | SMRD-33B-GW090210 | Cs-137 | Suspended | -0.18 U | 0.66 | 0.2 | 0.31 |
| RD-33B | SMRD-33B-GW090210 | Cs-137 | Total | -0.02 | NA | 0.5 | NA |
| RD-33B | SMRD-33B-GW090210 | Eu-152 | Filtered | 0.02 U | 2.9 | 0.84 | 1.4 |
| RD-33B | SMRD-33B-GW090210 | Eu-152 | Suspended | 0.31 U | 1.4 | 0.42 | 0.68 |
| RD-33B | SMRD-33B-GW090210 | Eu-152 | Total | 0.33 | NA | 0.94 | NA |
| RD-33B | SMRD-33B-GW090210 | Eu-154 | Filtered | 0.1 U | 12 | 3.4 | 5.7 |
| RD-33B | SMRD-33B-GW090210 | Eu-154 | Suspended | -1 U | 5.4 | 1.6 | 2.5 |
| RD-33B | SMRD-33B-GW090210 | Eu-154 | Total | -0.8 | NA | 3.8 | NA |
| RD-33B | SMRD-33B-GW090210 | Eu-155 | Filtered | 0.44 U | 2.9 | 0.87 | 1.4 |
| RD-33B | SMRD-33B-GW090210 | Eu-155 | Suspended | 0.24 U | 1 | 0.3 | 0.49 |
| RD-33B | SMRD-33B-GW090210 | Eu-155 | Total | 0.68 | NA | 0.92 | NA |
| RD-33B | SMRD-33B-GW090210 | gross_alpha | Filtered | 3.64 | 0.48 | 0.41 | 0.25 |
| RD-33B | SMRD-33B-GW090210 | gross_alpha | Suspended | 1.37 | 0.64 | 0.29 | 0.35 |
| RD-33B | SMRD-33B-GW090210 | gross_alpha | Total | 1.59 | NA | 0.33 | NA |
| RD-33B | SMRD-33B-GW090210 | gross_beta | Filtered | 7.03 | 2.2 | 0.93 | 1.3 |
| RD-33B | SMRD-33B-GW090210 | gross_beta | Suspended | 0.3 U | 0.77 | 0.23 | 0.46 |
| RD-33B | SMRD-33B-GW090210 | gross_beta | Total | 7.33 | NA | 0.96 | NA |
| RD-33B | SMRD-33B-GW090210 | H-3 | Filtered | -32 U | 140 | 41 | 68 |
| RD-33B | SMRD-33B-GW090210 | H-3 | Suspended | 4.6 U R | 18 | 5.6 | 8.7 |
| RD-33B | SMRD-33B-GW090210 | H-3 | Total | -28 R | NA | 41 | NA |
| RD-33B | SMRD-33B-GW090210 | Ho-166m | Filtered | -0.46 U | 2.6 | 0.75 | 1.2 |
| RD-33B | SMRD-33B-GW090210 | Ho-166m | Suspended | 0.11 U | 0.86 | 0.25 | 0.4 |
| RD-33B | SMRD-33B-GW090210 | Ho-166m | Total | -0.35 | NA | 0.79 | NA |
| RD-33B | SMRD-33B-GW090210 | I-129 | Filtered | 0.09 U | 0.43 | 0.13 | 0.21 |
| RD-33B | SMRD-33B-GW090210 | I-129 | Suspended | 0.09 U | 0.5 | 0.15 | 0.25 |
| RD-33B | SMRD-33B-GW090210 | I-129 | Total | 0.18 | NA | 0.2 | NA |
| RD-33B | SMRD-33B-GW090210 | K-40 | Filtered | -23 U | 26 | 35 | 12 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-33B | SMRD-33B-GW090210 | K-40 | Suspended | 3.7 U | 8.8 | 2.5 | 4.1 |
| RD-33B | SMRD-33B-GW090210 | K-40 | Total | -19 | NA | 35 | NA |
| RD-33B | SMRD-33B-GW090210 | Na-22 | Filtered | 0.03 U | 1.6 | 0.45 | 0.75 |
| RD-33B | SMRD-33B-GW090210 | Na-22 | Suspended | 0.03 U | 0.72 | 0.2 | 0.33 |
| RD-33B | SMRD-33B-GW090210 | Na-22 | Total | 0.07 | NA | 0.5 | NA |
| RD-33B | SMRD-33B-GW090210 | Nb-94 | Filtered | 0.04 U | 1.4 | 0.4 | 0.66 |
| RD-33B | SMRD-33B-GW090210 | Nb-94 | Suspended | 0.21 U | 0.59 | 0.18 | 0.28 |
| RD-33B | SMRD-33B-GW090210 | Nb-94 | Total | 0.25 | NA | 0.44 | NA |
| RD-33B | SMRD-33B-GW090210 | Np-236 | Filtered | -0.55 U | 2.7 | 0.81 | 1.3 |
| RD-33B | SMRD-33B-GW090210 | Np-236 | Suspended | -0.32 U | 1.1 | 0.32 | 0.52 |
| RD-33B | SMRD-33B-GW090210 | Np-236 | Total | -0.87 | NA | 0.87 | NA |
| RD-33B | SMRD-33B-GW090210 | Np-237 | Suspended | 0.0067 R | 0.009 | 0.0047 | 0.0055 |
| RD-33B | SMRD-33B-GW090210 | Np-237 | Total | 0.0101 | NA | 0.0075 | NA |
| RD-33B | SMRD-33B-GW090210 | Np-239 | Filtered | -0.2 U | 7.9 | 2.3 | 3.8 |
| RD-33B | SMRD-33B-GW090210 | Np-239 | Suspended | -1 U | 3.4 | 1 | 1.6 |
| RD-33B | SMRD-33B-GW090210 | Np-239 | Total | -1.2 | NA | 2.5 | NA |
| RD-33B | SMRD-33B-GW090210 | Pa-231 | Filtered | 18 U | 55 | 16 | 26 |
| RD-33B | SMRD-33B-GW090210 | Pa-231 | Suspended | 5.3 U | 23 | 6.8 | 11 |
| RD-33B | SMRD-33B-GW090210 | Pa-231 | Total | 23 | NA | 18 | NA |
| RD-33B | SMRD-33B-GW090210 | Pb-212 | Filtered | 0.676 U | 2.5 | 0.996 | 1.2 |
| RD-33B | SMRD-33B-GW090210 | Pb-212 | Suspended | 0.32 U | 0.93 | 0.34 | 0.45 |
| RD-33B | SMRD-33B-GW090210 | Pb-212 | Total | 1 | NA | 1 | NA |
| RD-33B | SMRD-33B-GW090210 | Pb-214 | Filtered | 4.9 | 2.1 | 1.1 | 1 |
| RD-33B | SMRD-33B-GW090210 | Pb-214 | Suspended | 1.49 | 0.81 | 0.34 | 0.38 |
| RD-33B | SMRD-33B-GW090210 | Pb-214 | Total | 6.4 | NA | 1.2 | NA |
| RD-33B | SMRD-33B-GW090210 | Pu-238 | Filtered | 0.003 U | 0.048 | 0.011 | 0.021 |
| RD-33B | SMRD-33B-GW090210 | Pu-238 | Suspended | 0.059 | 0.048 | 0.018 | 0.022 |
| RD-33B | SMRD-33B-GW090210 | Pu-238 | Total | 0.062 | NA | 0.021 | NA |
| RD-33B | SMRD-33B-GW090210 | Pu-239/240 | Filtered | -0.0018 U | 0.025 | 0.0018 | 0.0069 |
| RD-33B | SMRD-33B-GW090210 | Pu-239/240 | Suspended | -0.0059 U | 0.028 | 0.0048 | 0.011 |
| RD-33B | SMRD-33B-GW090210 | Pu-239/240 | Total | -0.0077 | NA | 0.0051 | NA |
| RD-33B | SMRD-33B-GW090210 | Pu-242 | Filtered | 0.0012 U | 0.029 | 0.0055 | 0.0098 |
| RD-33B | SMRD-33B-GW090210 | Pu-242 | Suspended | -0.0038 U | 0.032 | 0.0066 | 0.013 |
| RD-33B | SMRD-33B-GW090210 | Pu-242 | Total | -0.0026 | NA | 0.0086 | NA |
| RD-33B | SMRD-33B-GW090210 | Ra-226 | Filtered | 1.22 | 0.17 | 0.14 | 0.09 |
| RD-33B | SMRD-33B-GW090210 | Ra-226 | Suspended | 0.166 | 0.075 | 0.038 | 0.037 |
| RD-33B | SMRD-33B-GW090210 | Ra-226 | Total | 1.39 | NA | 0.14 | NA |
| RD-33B | SMRD-33B-GW090210 | Sb-125 | Filtered | -2.5 U | 14 | 4.1 | 6.6 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-33B | SMRD-33B-GW090210 | Sb-125 | Suspended | 1.5 U | 4.3 | 1.3 | 2.1 |
| RD-33B | SMRD-33B-GW090210 | Sb-125 | Total | -1 | NA | 4.3 | NA |
| RD-33B | SMRD-33B-GW090210 | Sn-126 | Filtered | -0.05 U | 1.3 | 0.38 | 0.62 |
| RD-33B | SMRD-33B-GW090210 | Sn-126 | Suspended | 0.003 U | 0.73 | 0.21 | 0.35 |
| RD-33B | SMRD-33B-GW090210 | Sn-126 | Total | -0.04 | NA | 0.43 | NA |
| RD-33B | SMRD-33B-GW090210 | Sr-90 | Filtered | -0.041 U | 0.21 | 0.058 | 0.13 |
| RD-33B | SMRD-33B-GW090210 | Sr-90 | Suspended | 0.048 U | 0.17 | 0.05 | 0.1 |
| RD-33B | SMRD-33B-GW090210 | Sr-90 | Total | 0.007 | NA | 0.076 | NA |
| RD-33B | SMRD-33B-GW090210 | Tc-99 | Filtered | -0.33 U | 1.8 | 0.53 | 0.89 |
| RD-33B | SMRD-33B-GW090210 | Tc-99 | Suspended | -0.05 U | 1.3 | 0.38 | 0.63 |
| RD-33B | SMRD-33B-GW090210 | Tc-99 | Total | -0.38 | NA | 0.66 | NA |
| RD-33B | SMRD-33B-GW090210 | Te-125m | Filtered | -0.57 U | 3.2 | 0.94 | 1.5 |
| RD-33B | SMRD-33B-GW090210 | Te-125m | Suspended | 0.35 U | 1 | 0.3 | 0.48 |
| RD-33B | SMRD-33B-GW090210 | Te-125m | Total | -0.9 | NA | 4 | NA |
| RD-33B | SMRD-33B-GW090210 | Th-231 | Filtered | 0.0037 U | 0.03 | 0.0063 | 0.0084 |
| RD-33B | SMRD-33B-GW090210 | Th-231 | Suspended | 0.0039 U | 0.032 | 0.0074 | 0.0074 |
| RD-33B | SMRD-33B-GW090210 | Th-231 | Total | 0.0076 | NA | 0.0097 | NA |
| RD-33B | SMRD-33B-GW090210 | Th-234 | Filtered | -9.54 U | 24 | 9.98 | 12 |
| RD-33B | SMRD-33B-GW090210 | Th-234 | Suspended | -0.3 U | 7.6 | 2.7 | 3.7 |
| RD-33B | SMRD-33B-GW090210 | Th-234 | Total | -10 | NA | 10 | NA |
| RD-33B | SMRD-33B-GW090210 | Tl-208 | Filtered | -1 U | 2 | 15 | 0.8 |
| RD-33B | SMRD-33B-GW090210 | Tl-208 | Suspended | -1 U | 0.9 | 1.2 | 0.4 |
| RD-33B | SMRD-33B-GW090210 | Tl-208 | Total | -2 | NA | 15 | NA |
| RD-33B | SMRD-33B-GW090210 | Tm-171 | Filtered | 66.8 U | 330 | 100 | 160 |
| RD-33B | SMRD-33B-GW090210 | Tm-171 | Suspended | -26 U | 97 | 29 | 47 |
| RD-33B | SMRD-33B-GW090210 | Tm-171 | Total | 40 | NA | 100 | NA |
| RD-33B | SMRD-33B-GW090210 | U-233/234 | Filtered | 0.214 | 0.029 | 0.034 | 0.01 |
| RD-33B | SMRD-33B-GW090210 | U-233/234 | Suspended | -0.003 U | 0.045 | 0.013 | 0.016 |
| RD-33B | SMRD-33B-GW090210 | U-233/234 | Total | 0.211 | NA | 0.037 | NA |
| RD-33B | SMRD-33B-GW090210 | U-235/236 | Filtered | 0.0037 U | 0.03 | 0.0063 | 0.0084 |
| RD-33B | SMRD-33B-GW090210 | U-235/236 | Suspended | 0.0039 U | 0.032 | 0.0074 | 0.0074 |
| RD-33B | SMRD-33B-GW090210 | U-235/236 | Total | 0.0076 | NA | 0.0097 | NA |
| RD-33B | SMRD-33B-GW090210 | U-238 | Filtered | 0.101 | 0.013 | 0.023 | 0.007 |
| RD-33B | SMRD-33B-GW090210 | U-238 | Suspended | -0.0047 U | 0.037 | 0.0094 | 0.012 |
| RD-33B | SMRD-33B-GW090210 | U-238 | Total | 0.096 | NA | 0.025 | NA |
| RD-33C | SMRD-033C-GW090310 | Ac-227 | Filtered | -2.8 U | 11 | 3.2 | 5.2 |
| RD-33C | SMRD-033C-GW090310 | Ac-227 | Suspended | -3.4 L U | 4.8 | 1.5 | 2.4 |
| RD-33C | SMRD-033C-GW090310 | Ac-227 | Total | -6.1 | NA | 3.6 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-33C | SMRD-033C-GW090310 | Ac-228 | Filtered | 5 B | 5.1 | 1.7 | 2.3 |
| RD-33C | SMRD-033C-GW090310 | Ac-228 | Suspended | 0.52 U | 2.4 | 0.71 | 1.1 |
| RD-33C | SMRD-033C-GW090310 | Ac-228 | Total | 5.5 B | NA | 1.8 | NA |
| RD-33C | SMRD-033C-GW090310 | Ag-108 | Filtered | 0 U R | 0.12 | 0.035 | 0.057 |
| RD-33C | SMRD-033C-GW090310 | Ag-108 | Suspended | -0.007 U R | 0.054 | 0.016 | 0.026 |
| RD-33C | SMRD-033C-GW090310 | Ag-108 | Total | -0.007 R | NA | 0.038 | NA |
| RD-33C | SMRD-033C-GW090310 | Ag-108m | Filtered | 0 U R | 1.3 | 0.37 | 0.62 |
| RD-33C | SMRD-033C-GW090310 | Ag-108m | Suspended | -0.08 U R | 0.58 | 0.17 | 0.28 |
| RD-33C | SMRD-033C-GW090310 | Ag-108m | Total | -0.08 R | NA | 0.41 | NA |
| RD-33C | SMRD-033C-GW090310 | Ba-133 | Filtered | 0.06 U R | 14 | 4.1 | 6.7 |
| RD-33C | SMRD-033C-GW090310 | Ba-133 | Suspended | 2.2 U R | 6.1 | 1.8 | 3 |
| RD-33C | SMRD-033C-GW090310 | Ba-133 | Total | 2.3 R | NA | 4.5 | NA |
| RD-33C | SMRD-033C-GW090310 | Ba-137m | Filtered | 0.26 U | 1.4 | 0.41 | 0.65 |
| RD-33C | SMRD-033C-GW090310 | Ba-137m | Suspended | 0.02 U | 0.69 | 0.2 | 0.33 |
| RD-33C | SMRD-033C-GW090310 | Ba-137m | Total | 0.29 | NA | 0.45 | NA |
| RD-33C | SMRD-033C-GW090310 | Bi-212 | Filtered | 0.9 U | 13 | 3.7 | 6.1 |
| RD-33C | SMRD-033C-GW090310 | Bi-212 | Suspended | 3 U | 6.5 | 2 | 3.1 |
| RD-33C | SMRD-033C-GW090310 | Bi-212 | Total | 3.9 | NA | 4.2 | NA |
| RD-33C | SMRD-033C-GW090310 | Bi-214 | Filtered | 2.8 | 3.2 | 1 | 1.5 |
| RD-33C | SMRD-033C-GW090310 | Bi-214 | Suspended | 1.07 | 1.7 | 0.59 | 0.8 |
| RD-33C | SMRD-033C-GW090310 | Bi-214 | Total | 3.9 | NA | 1.2 | NA |
| RD-33C | SMRD-033C-GW090310 | Cd-113m | Filtered | 1900 U | 12000 | 3500 | 5700 |
| RD-33C | SMRD-033C-GW090310 | Cd-113m | Suspended | 200 U | 7400 | 2200 | 3600 |
| RD-33C | SMRD-033C-GW090310 | Cd-113m | Total | 2100 | NA | 4100 | NA |
| RD-33C | SMRD-033C-GW090310 | Cf-249 | Filtered | -2.2 U R | 6.6 | 2 | 3.2 |
| RD-33C | SMRD-033C-GW090310 | Cf-249 | Suspended | -0.12 U B | 3.3 | 0.96 | 1.6 |
| RD-33C | SMRD-033C-GW090310 | Cf-249 | Total | -2.4 B R | NA | 2.2 | NA |
| RD-33C | SMRD-033C-GW090310 | Co-60 | Filtered | 0.51 U | 1.6 | 0.47 | 0.72 |
| RD-33C | SMRD-033C-GW090310 | Co-60 | Suspended | 0.17 U | 0.8 | 0.23 | 0.37 |
| RD-33C | SMRD-033C-GW090310 | Co-60 | Total | 0.68 | NA | 0.53 | NA |
| RD-33C | SMRD-033C-GW090310 | Cs-134 | Filtered | 0.71 SK | 1.3 | 0.4 | 0.6 |
| RD-33C | SMRD-033C-GW090310 | Cs-134 | Suspended | -0.02 U | 1.2 | 0.36 | 0.59 |
| RD-33C | SMRD-033C-GW090310 | Cs-134 | Total | 0.68 | NA | 0.53 | NA |
| RD-33C | SMRD-033C-GW090310 | Cs-137 | Filtered | 0.28 U | 1.5 | 0.43 | 0.69 |
| RD-33C | SMRD-033C-GW090310 | Cs-137 | Suspended | 0.02 U | 0.73 | 0.21 | 0.35 |
| RD-33C | SMRD-033C-GW090310 | Cs-137 | Total | 0.3 | NA | 0.48 | NA |
| RD-33C | SMRD-033C-GW090310 | Eu-152 | Filtered | 0.6 U | 3.7 | 1.1 | 1.8 |
| RD-33C | SMRD-033C-GW090310 | Eu-152 | Suspended | 0.74 U | 1.8 | 0.56 | 0.89 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-33C | SMRD-033C-GW090310 | Eu-152 | Total | 1.3 | NA | 1.2 | NA |
| RD-33C | SMRD-033C-GW090310 | Eu-154 | Filtered | -0.8 U | 11 | 3.2 | 5.2 |
| RD-33C | SMRD-033C-GW090310 | Eu-154 | Suspended | -0.04 U | 5.3 | 1.5 | 2.5 |
| RD-33C | SMRD-033C-GW090310 | Eu-154 | Total | -0.9 | NA | 3.6 | NA |
| RD-33C | SMRD-033C-GW090310 | Eu-155 | Filtered | -1.4 U | 3.4 | 1 | 1.7 |
| RD-33C | SMRD-033C-GW090310 | Eu-155 | Suspended | -0.02 U | 1.3 | 0.38 | 0.63 |
| RD-33C | SMRD-033C-GW090310 | Eu-155 | Total | -1.4 | NA | 1.1 | NA |
| RD-33C | SMRD-033C-GW090310 | gross_alpha | Filtered | 4.81 | 0.57 | 0.5 | 0.3 |
| RD-33C | SMRD-033C-GW090310 | gross_alpha | Suspended | 1.8 | 0.61 | 0.32 | 0.32 |
| RD-33C | SMRD-033C-GW090310 | gross_alpha | Total | 6.61 | NA | 0.6 | NA |
| RD-33C | SMRD-033C-GW090310 | gross_beta | Filtered | 4.63 | 1.1 | 0.54 | 0.64 |
| RD-33C | SMRD-033C-GW090310 | gross_beta | Suspended | 0.63 | 0.76 | 0.25 | 0.45 |
| RD-33C | SMRD-033C-GW090310 | gross_beta | Total | 5.25 | NA | 0.59 | NA |
| RD-33C | SMRD-033C-GW090310 | H-3 | Filtered | -16 U | 130 | 38 | 63 |
| RD-33C | SMRD-033C-GW090310 | H-3 | Suspended | 8.3 R | 17 | 5.1 | 7.2 |
| RD-33C | SMRD-033C-GW090310 | H-3 | Total | -7 R | NA | 38 | NA |
| RD-33C | SMRD-033C-GW090310 | Ho-166m | Filtered | -0.03 U | 2.1 | 0.59 | 0.97 |
| RD-33C | SMRD-033C-GW090310 | Ho-166m | Suspended | 0.26 U | 1.2 | 0.34 | 0.55 |
| RD-33C | SMRD-033C-GW090310 | Ho-166m | Total | 0.23 | NA | 0.68 | NA |
| RD-33C | SMRD-033C-GW090310 | K-40 | Filtered | -0.7 U | 22 | 5 | 10 |
| RD-33C | SMRD-033C-GW090310 | K-40 | Suspended | 1.3 U | 10 | 3 | 4.7 |
| RD-33C | SMRD-033C-GW090310 | K-40 | Total | 0.6 | NA | 5.8 | NA |
| RD-33C | SMRD-033C-GW090310 | Na-22 | Filtered | 0.43 U | 1.7 | 0.48 | 0.74 |
| RD-33C | SMRD-033C-GW090310 | Na-22 | Suspended | -0.09 U | 0.91 | 0.26 | 0.43 |
| RD-33C | SMRD-033C-GW090310 | Na-22 | Total | 0.34 | NA | 0.55 | NA |
| RD-33C | SMRD-033C-GW090310 | Nb-94 | Filtered | -0.01 U | 1.3 | 0.38 | 0.63 |
| RD-33C | SMRD-033C-GW090310 | Nb-94 | Suspended | -0.009 U | 0.7 | 0.2 | 0.33 |
| RD-33C | SMRD-033C-GW090310 | Nb-94 | Total | -0.02 | NA | 0.43 | NA |
| RD-33C | SMRD-033C-GW090310 | Np-236 | Filtered | 0.26 U | 2.8 | 0.81 | 1.3 |
| RD-33C | SMRD-033C-GW090310 | Np-236 | Suspended | -0.4 U | 1.3 | 0.38 | 0.61 |
| RD-33C | SMRD-033C-GW090310 | Np-236 | Total | -0.14 | NA | 0.9 | NA |
| RD-33C | SMRD-033C-GW090310 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-33C | SMRD-033C-GW090310 | Np-239 | Filtered | -1.1 U | 9.5 | 2.8 | 4.6 |
| RD-33C | SMRD-033C-GW090310 | Np-239 | Suspended | 0.4 U | 4.1 | 1.2 | 2 |
| RD-33C | SMRD-033C-GW090310 | Np-239 | Total | -0.7 | NA | 3.1 | NA |
| RD-33C | SMRD-033C-GW090310 | Pa-231 | Filtered | 9 U | 63 | 19 | 30 |
| RD-33C | SMRD-033C-GW090310 | Pa-231 | Suspended | 3.5 U | 28 | 8.4 | 14 |
| RD-33C | SMRD-033C-GW090310 | Pa-231 | Total | 13 | NA | 20 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-33C | SMRD-033C-GW090310 | Pb-212 | Filtered | 1.18 U | 2.9 | 0.93 | 1.4 |
| RD-33C | SMRD-033C-GW090310 | Pb-212 | Suspended | 0.69 | 1.2 | 0.4 | 0.59 |
| RD-33C | SMRD-033C-GW090310 | Pb-212 | Total | 1.9 | NA | 1 | NA |
| RD-33C | SMRD-033C-GW090310 | Pb-214 | Filtered | 1 U | 3.7 | 1 | 1.8 |
| RD-33C | SMRD-033C-GW090310 | Pb-214 | Suspended | 0.68 U | 1.5 | 0.53 | 0.71 |
| RD-33C | SMRD-033C-GW090310 | Pb-214 | Total | 1.7 | NA | 1.2 | NA |
| RD-33C | SMRD-033C-GW090310 | Sb-125 | Filtered | -1.7 U | 15 | 4.3 | 7 |
| RD-33C | SMRD-033C-GW090310 | Sb-125 | Suspended | 1.7 U | 6.3 | 1.9 | 3.1 |
| RD-33C | SMRD-033C-GW090310 | Sb-125 | Total | 0.05 | NA | 4.7 | NA |
| RD-33C | SMRD-033C-GW090310 | Sn-126 | Filtered | 0.33 U | 1.5 | 0.43 | 0.69 |
| RD-33C | SMRD-033C-GW090310 | Sn-126 | Suspended | 0.08 U | 0.8 | 0.23 | 0.38 |
| RD-33C | SMRD-033C-GW090310 | Sn-126 | Total | 0.41 | NA | 0.49 | NA |
| RD-33C | SMRD-033C-GW090310 | Sr-90 | Filtered | -0.005 U | 0.11 | 0.033 | 0.065 |
| RD-33C | SMRD-033C-GW090310 | Sr-90 | Suspended | -0.022 U | 0.092 | 0.025 | 0.052 |
| RD-33C | SMRD-033C-GW090310 | Sr-90 | Total | -0.028 | NA | 0.041 | NA |
| RD-33C | SMRD-033C-GW090310 | Te-125m | Filtered | -0.38 U | 3.4 | 0.99 | 1.6 |
| RD-33C | SMRD-033C-GW090310 | Te-125m | Suspended | 0.4 U | 1.5 | 0.44 | 0.71 |
| RD-33C | SMRD-033C-GW090310 | Te-125m | Total | 0.01 | NA | 1.1 | NA |
| RD-33C | SMRD-033C-GW090310 | Th-231 | Filtered | 0.0099 | 0.0067 | 0.0049 | 0.0057 |
| RD-33C | SMRD-033C-GW090310 | Th-231 | Suspended | 0.0049 U | 0.0066 | 0.0035 | 0.0057 |
| RD-33C | SMRD-033C-GW090310 | Th-231 | Total | 0.0148 | NA | 0.006 | NA |
| RD-33C | SMRD-033C-GW090310 | Th-234 | Filtered | 11.1 | 23 | 7.6 | 11 |
| RD-33C | SMRD-033C-GW090310 | Th-234 | Suspended | 1.2 U | 7.2 | 2.2 | 3.5 |
| RD-33C | SMRD-033C-GW090310 | Th-234 | Total | 12.3 | NA | 7.9 | NA |
| RD-33C | SMRD-033C-GW090310 | Tl-208 | Filtered | 0.04 U | 1.9 | 0.5 | 0.91 |
| RD-33C | SMRD-033C-GW090310 | Tl-208 | Suspended | 0.5 | 0.74 | 0.24 | 0.35 |
| RD-33C | SMRD-033C-GW090310 | Tl-208 | Total | 0.54 | NA | 0.55 | NA |
| RD-33C | SMRD-033C-GW090310 | Tm-171 | Filtered | 80 U | 350 | 100 | 170 |
| RD-33C | SMRD-033C-GW090310 | Tm-171 | Suspended | 35 U | 120 | 37 | 60 |
| RD-33C | SMRD-033C-GW090310 | Tm-171 | Total | 120 | NA | 110 | NA |
| RD-33C | SMRD-033C-GW090310 | U-233/234 | Filtered | 0.223 | 0.015 | 0.024 | 0.005 |
| RD-33C | SMRD-033C-GW090310 | U-233/234 | Suspended | -0.0011 U | 0.014 | 0.0052 | 0.0046 |
| RD-33C | SMRD-033C-GW090310 | U-233/234 | Total | 0.221 | NA | 0.024 | NA |
| RD-33C | SMRD-033C-GW090310 | U-235/236 | Filtered | 0.0099 | 0.0067 | 0.0049 | 0.0057 |
| RD-33C | SMRD-033C-GW090310 | U-235/236 | Suspended | 0.0049 U | 0.0066 | 0.0035 | 0.0057 |
| RD-33C | SMRD-033C-GW090310 | U-235/236 | Total | 0.0148 | NA | 0.006 | NA |
| RD-33C | SMRD-033C-GW090310 | U-238 | Filtered | 0.11 | 0.026 | 0.017 | 0.01 |
| RD-33C | SMRD-033C-GW090310 | U-238 | Suspended | -0.0022 U | 0.014 | 0.0044 | 0.0046 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-33C | SMRD-033C-GW090310 | U-238 | Total | 0.108 | NA | 0.018 | NA |
| RD-34A | SMRD-034A-GW082010 | Ac-227 | Filtered | -1.1 U | 8.5 | 2.5 | 4.1 |
| RD-34A | SMRD-034A-GW082010 | Ac-227 | Suspended | -0.9 U | 4.1 | 1.2 | 2 |
| RD-34A | SMRD-034A-GW082010 | Ac-227 | Total | -2 | NA | 2.8 | NA |
| RD-34A | SMRD-034A-GW082010 | Ac-228 | Filtered | 1.4 U | 4.7 | 1.4 | 2.2 |
| RD-34A | SMRD-034A-GW082010 | Ac-228 | Suspended | 0.22 U | 3.1 | 0.8 | 1.5 |
| RD-34A | SMRD-034A-GW082010 | Ac-228 | Total | 1.6 | NA | 1.6 | NA |
| RD-34A | SMRD-034A-GW082010 | Ag-108 | Filtered | -0.02 U R | 0.099 | 0.029 | 0.047 |
| RD-34A | SMRD-034A-GW082010 | Ag-108 | Suspended | 0.005 U R | 0.051 | 0.015 | 0.024 |
| RD-34A | SMRD-034A-GW082010 | Ag-108 | Total | -0.015 R | NA | 0.033 | NA |
| RD-34A | SMRD-034A-GW082010 | Ag-108m | Filtered | -0.22 U R | 1.1 | 0.31 | 0.5 |
| RD-34A | SMRD-034A-GW082010 | Ag-108m | Suspended | 0.06 U R | 0.54 | 0.16 | 0.26 |
| RD-34A | SMRD-034A-GW082010 | Ag-108m | Total | -0.16 R | NA | 0.35 | NA |
| RD-34A | SMRD-034A-GW082010 | Ba-133 | Filtered | 0.04 U R | 13 | 3.8 | 6.3 |
| RD-34A | SMRD-034A-GW082010 | Ba-133 | Suspended | -1.4 U R | 5.7 | 1.7 | 2.7 |
| RD-34A | SMRD-034A-GW082010 | Ba-133 | Total | -1.3 R | NA | 4.2 | NA |
| RD-34A | SMRD-034A-GW082010 | Ba-137m | Filtered | 0.3 U | 1.2 | 0.35 | 0.56 |
| RD-34A | SMRD-034A-GW082010 | Ba-137m | Suspended | -0.006 U | 0.54 | 0.15 | 0.25 |
| RD-34A | SMRD-034A-GW082010 | Ba-137m | Total | 0.29 | NA | 0.39 | NA |
| RD-34A | SMRD-034A-GW082010 | Bi-212 | Filtered | 4.4 U | 11 | 3.3 | 5.1 |
| RD-34A | SMRD-034A-GW082010 | Bi-212 | Suspended | 3.3 | 6.3 | 1.9 | 3 |
| RD-34A | SMRD-034A-GW082010 | Bi-212 | Total | 7.7 | NA | 3.8 | NA |
| RD-34A | SMRD-034A-GW082010 | Bi-214 | Filtered | 1.37 | 2.7 | 0.92 | 1.3 |
| RD-34A | SMRD-034A-GW082010 | Bi-214 | Suspended | -0.16 U | 1.7 | 0.58 | 0.82 |
| RD-34A | SMRD-034A-GW082010 | Bi-214 | Total | 1.2 | NA | 1.1 | NA |
| RD-34A | SMRD-034A-GW082010 | Cd-113m | Filtered | -4400 U | 15000 | 4400 | 7100 |
| RD-34A | SMRD-034A-GW082010 | Cd-113m | Suspended | -800 U | 7100 | 2100 | 3400 |
| RD-34A | SMRD-034A-GW082010 | Cd-113m | Total | -5200 | NA | 4900 | NA |
| RD-34A | SMRD-034A-GW082010 | Cf-249 | Filtered | -0.7 U R | 6.2 | 1.8 | 3 |
| RD-34A | SMRD-034A-GW082010 | Cf-249 | Suspended | 0.77 U R | 2.5 | 0.75 | 1.2 |
| RD-34A | SMRD-034A-GW082010 | Cf-249 | Total | 0.1 R | NA | 2 | NA |
| RD-34A | SMRD-034A-GW082010 | Co-60 | Filtered | -0.02 U | 1.6 | 0.45 | 0.75 |
| RD-34A | SMRD-034A-GW082010 | Co-60 | Suspended | -0.05 U | 0.92 | 0.26 | 0.43 |
| RD-34A | SMRD-034A-GW082010 | Co-60 | Total | -0.08 | NA | 0.53 | NA |
| RD-34A | SMRD-034A-GW082010 | Cs-134 | Filtered | -0.64 U | 1.7 | 0.51 | 0.8 |
| RD-34A | SMRD-034A-GW082010 | Cs-134 | Suspended | 0.07 U | 0.69 | 0.2 | 0.33 |
| RD-34A | SMRD-034A-GW082010 | Cs-134 | Total | -0.57 | NA | 0.54 | NA |
| RD-34A | SMRD-034A-GW082010 | Cs-137 | Filtered | 0.31 U | 1.3 | 0.38 | 0.59 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-34A | SMRD-034A-GW082010 | Cs-137 | Suspended | -0.006 U | 0.57 | 0.16 | 0.27 |
| RD-34A | SMRD-034A-GW082010 | Cs-137 | Total | 0.31 | NA | 0.41 | NA |
| RD-34A | SMRD-034A-GW082010 | Eu-152 | Filtered | 0.8 U | 3.3 | 0.98 | 1.6 |
| RD-34A | SMRD-034A-GW082010 | Eu-152 | Suspended | -0.31 U | 1.6 | 0.48 | 0.78 |
| RD-34A | SMRD-034A-GW082010 | Eu-152 | Total | 0.5 | NA | 1.1 | NA |
| RD-34A | SMRD-034A-GW082010 | Eu-154 | Filtered | 0.8 U | 12 | 3.5 | 5.6 |
| RD-34A | SMRD-034A-GW082010 | Eu-154 | Suspended | 2.2 U | 5.2 | 1.6 | 2.5 |
| RD-34A | SMRD-034A-GW082010 | Eu-154 | Total | 3 | NA | 3.8 | NA |
| RD-34A | SMRD-034A-GW082010 | Eu-155 | Filtered | -1.69 U | 3 | 0.92 | 1.5 |
| RD-34A | SMRD-034A-GW082010 | Eu-155 | Suspended | 0.29 U | 1.2 | 0.36 | 0.58 |
| RD-34A | SMRD-034A-GW082010 | Eu-155 | Total | -1.4 | NA | 0.99 | NA |
| RD-34A | SMRD-034A-GW082010 | gross_alpha | Filtered | 19.4 | 0.4 | 1.1 | 0.2 |
| RD-34A | SMRD-034A-GW082010 | gross_alpha | Suspended | 0.4 U | 0.89 | 0.27 | 0.48 |
| RD-34A | SMRD-034A-GW082010 | gross_alpha | Total | 19.8 | NA | 1.2 | NA |
| RD-34A | SMRD-034A-GW082010 | gross_beta | Filtered | 14.3 | 3.2 | 1.6 | 1.9 |
| RD-34A | SMRD-034A-GW082010 | gross_beta | Suspended | 2.03 | 0.79 | 0.32 | 0.47 |
| RD-34A | SMRD-034A-GW082010 | gross_beta | Total | 16.4 | NA | 1.6 | NA |
| RD-34A | SMRD-034A-GW082010 | H-3 | Filtered | 966 | 130 | 65 | 66 |
| RD-34A | SMRD-034A-GW082010 | H-3 | Suspended | 0.37 U | 3 | 0.81 | 1.3 |
| RD-34A | SMRD-034A-GW082010 | H-3 | Total | 966 | NA | 65 | NA |
| RD-34A | SMRD-034A-GW082010 | Ho-166m | Filtered | 0.2 U | 2 | 0.58 | 0.95 |
| RD-34A | SMRD-034A-GW082010 | Ho-166m | Suspended | -0.008 U | 1.1 | 0.32 | 0.53 |
| RD-34A | SMRD-034A-GW082010 | Ho-166m | Total | 0.2 | NA | 0.67 | NA |
| RD-34A | SMRD-034A-GW082010 | K-40 | Filtered | 7.9 | 16 | 4.9 | 7.3 |
| RD-34A | SMRD-034A-GW082010 | K-40 | Suspended | 0.6 U | 12 | 3.7 | 5.8 |
| RD-34A | SMRD-034A-GW082010 | K-40 | Total | 8.5 | NA | 6.1 | NA |
| RD-34A | SMRD-034A-GW082010 | Na-22 | Filtered | -0.34 U | 1.8 | 0.53 | 0.84 |
| RD-34A | SMRD-034A-GW082010 | Na-22 | Suspended | -0.13 U | 0.85 | 0.25 | 0.4 |
| RD-34A | SMRD-034A-GW082010 | Na-22 | Total | -0.47 | NA | 0.58 | NA |
| RD-34A | SMRD-034A-GW082010 | Nb-94 | Filtered | -0.24 U | 1.2 | 0.35 | 0.57 |
| RD-34A | SMRD-034A-GW082010 | Nb-94 | Suspended | -0.003 U | 0.61 | 0.18 | 0.29 |
| RD-34A | SMRD-034A-GW082010 | Nb-94 | Total | -0.24 | NA | 0.4 | NA |
| RD-34A | SMRD-034A-GW082010 | Np-236 | Filtered | -0.45 U | 2.7 | 0.8 | 1.3 |
| RD-34A | SMRD-034A-GW082010 | Np-236 | Suspended | 0.06 U | 1.1 | 0.33 | 0.54 |
| RD-34A | SMRD-034A-GW082010 | Np-236 | Total | -0.39 | NA | 0.87 | NA |
| RD-34A | SMRD-034A-GW082010 | Np-239 | Filtered | 0.2 U | 8 | 2.3 | 3.9 |
| RD-34A | SMRD-034A-GW082010 | Np-239 | Suspended | 1.19 U | 3.2 | 0.97 | 1.6 |
| RD-34A | SMRD-034A-GW082010 | Np-239 | Total | 1.4 | NA | 2.5 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-34A | SMRD-034A-GW082010 | Pa-231 | Filtered | -12 U | 54 | 16 | 26 |
| RD-34A | SMRD-034A-GW082010 | Pa-231 | Suspended | -6.2 U | 27 | 8.1 | 13 |
| RD-34A | SMRD-034A-GW082010 | Pa-231 | Total | -18 | NA | 18 | NA |
| RD-34A | SMRD-034A-GW082010 | Pb-212 | Filtered | -0.5 U | 2.9 | 1.2 | 1.4 |
| RD-34A | SMRD-034A-GW082010 | Pb-212 | Suspended | 0.45 U | 1.3 | 0.47 | 0.64 |
| RD-34A | SMRD-034A-GW082010 | Pb-212 | Total | -0.1 | NA | 1.3 | NA |
| RD-34A | SMRD-034A-GW082010 | Pb-214 | Filtered | -0.2 U | 2.9 | 1 | 1.4 |
| RD-34A | SMRD-034A-GW082010 | Pb-214 | Suspended | 0.22 U | 1.4 | 0.44 | 0.68 |
| RD-34A | SMRD-034A-GW082010 | Pb-214 | Total | -0.02 | NA | 1.1 | NA |
| RD-34A | SMRD-034A-GW082010 | Sb-125 | Filtered | 3.2 U | 12 | 3.6 | 5.7 |
| RD-34A | SMRD-034A-GW082010 | Sb-125 | Suspended | 1.4 U | 6.2 | 1.8 | 3 |
| RD-34A | SMRD-034A-GW082010 | Sb-125 | Total | 4.6 | NA | 4 | NA |
| RD-34A | SMRD-034A-GW082010 | Sn-126 | Filtered | 0.02 U | 1 | 0.29 | 0.48 |
| RD-34A | SMRD-034A-GW082010 | Sn-126 | Suspended | -0.009 U | 0.84 | 0.24 | 0.4 |
| RD-34A | SMRD-034A-GW082010 | Sn-126 | Total | 0.01 | NA | 0.38 | NA |
| RD-34A | SMRD-034A-GW082010 | Sr-90 | Suspended | 0.002 U | 0.072 | 0.021 | 0.041 |
| RD-34A | SMRD-034A-GW082010 | Sr-90 | Total | -0.002 | NA | 0.058 | NA |
| RD-34A | SMRD-034A-GW082010 | Te-125m | Filtered | 0.74 U | 2.8 | 0.82 | 1.3 |
| RD-34A | SMRD-034A-GW082010 | Te-125m | Suspended | 0.32 U | 1.4 | 0.43 | 0.69 |
| RD-34A | SMRD-034A-GW082010 | Te-125m | Total | 1.06 | NA | 0.93 | NA |
| RD-34A | SMRD-034A-GW082010 | Th-231 | Filtered | 0.578 | 0.038 | 0.07 | 0.011 |
| RD-34A | SMRD-034A-GW082010 | Th-231 | Suspended | -0.0023 U | 0.031 | 0.0023 | 0.0087 |
| RD-34A | SMRD-034A-GW082010 | Th-231 | Total | 0.576 | NA | 0.07 | NA |
| RD-34A | SMRD-034A-GW082010 | Th-234 | Filtered | 30.5 | 23 | 8.7 | 11 |
| RD-34A | SMRD-034A-GW082010 | Th-234 | Suspended | -1.7 U | 8.3 | 2.8 | 4.1 |
| RD-34A | SMRD-034A-GW082010 | Th-234 | Total | 28.8 | NA | 9.1 | NA |
| RD-34A | SMRD-034A-GW082010 | Tl-208 | Filtered | -0.3 U | 1.8 | 0.74 | 0.84 |
| RD-34A | SMRD-034A-GW082010 | Tl-208 | Suspended | 0.06 U | 0.71 | 0.2 | 0.34 |
| RD-34A | SMRD-034A-GW082010 | Tl-208 | Total | -0.24 | NA | 0.76 | NA |
| RD-34A | SMRD-034A-GW082010 | Tm-171 | Filtered | 7 U | 360 | 110 | 170 |
| RD-34A | SMRD-034A-GW082010 | Tm-171 | Suspended | -7 U | 130 | 38 | 62 |
| RD-34A | SMRD-034A-GW082010 | Tm-171 | Total | -0.7 | NA | 110 | NA |
| RD-34A | SMRD-034A-GW082010 | U-233/234 | Filtered | 10.8 | 0.04 | 0.52 | 0.02 |
| RD-34A | SMRD-034A-GW082010 | U-233/234 | Suspended | 0.016 | 0.039 | 0.014 | 0.016 |
| RD-34A | SMRD-034A-GW082010 | U-233/234 | Total | 10.8 | NA | 0.52 | NA |
| RD-34A | SMRD-034A-GW082010 | U-235/236 | Filtered | 0.578 | 0.038 | 0.07 | 0.011 |
| RD-34A | SMRD-034A-GW082010 | U-235/236 | Suspended | -0.0023 U | 0.031 | 0.0023 | 0.0087 |
| RD-34A | SMRD-034A-GW082010 | U-235/236 | Total | 0.576 | NA | 0.07 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-34A | SMRD-034A-GW082010 | U-238 | Filtered | 10.9 | 0.04 | 0.52 | 0.01 |
| RD-34A | SMRD-034A-GW082010 | U-238 | Suspended | 0.03 | 0.025 | 0.014 | 0.007 |
| RD-34A | SMRD-034A-GW082010 | U-238 | Total | 10.9 | NA | 0.52 | NA |
| RD-34B | SMRD-034B-GW082010 | Ac-227 | Filtered | -3.4 U | 11 | 3.2 | 5.1 |
| RD-34B | SMRD-034B-GW082010 | Ac-227 | Suspended | -0.2 U | 3.9 | 1.1 | 1.9 |
| RD-34B | SMRD-034B-GW082010 | Ac-227 | Total | -3.7 | NA | 3.4 | NA |
| RD-34B | SMRD-034B-GW082010 | Ac-228 | Filtered | 7.2 | 3.8 | 1.8 | 1.7 |
| RD-34B | SMRD-034B-GW082010 | Ac-228 | Suspended | 1.15 | 2.2 | 0.66 | 1 |
| RD-34B | SMRD-034B-GW082010 | Ac-228 | Total | 8.4 | NA | 1.9 | NA |
| RD-34B | SMRD-034B-GW082010 | Ag-108 | Filtered | 0.028 U R | 0.11 | 0.031 | 0.05 |
| RD-34B | SMRD-034B-GW082010 | Ag-108 | Suspended | -0.002 U R | 0.035 | 0.01 | 0.017 |
| RD-34B | SMRD-034B-GW082010 | Ag-108 | Total | 0.026 R | NA | 0.033 | NA |
| RD-34B | SMRD-034B-GW082010 | Ag-108m | Filtered | 0.3 U R | 1.1 | 0.33 | 0.53 |
| RD-34B | SMRD-034B-GW082010 | Ag-108m | Suspended | -0.02 U R | 0.38 | 0.11 | 0.18 |
| RD-34B | SMRD-034B-GW082010 | Ag-108m | Total | 0.28 R | NA | 0.35 | NA |
| RD-34B | SMRD-034B-GW082010 | Ba-133 | Filtered | -2.4 U R | 15 | 4.3 | 7.1 |
| RD-34B | SMRD-034B-GW082010 | Ba-133 | Suspended | 0.3 U R | 5.7 | 1.7 | 2.7 |
| RD-34B | SMRD-034B-GW082010 | Ba-133 | Total | -2 R | NA | 4.7 | NA |
| RD-34B | SMRD-034B-GW082010 | Ba-137m | Filtered | -0.01 U | 1.4 | 0.38 | 0.63 |
| RD-34B | SMRD-034B-GW082010 | Ba-137m | Suspended | -0.29 U | 0.76 | 0.5 | 0.36 |
| RD-34B | SMRD-034B-GW082010 | Ba-137m | Total | -0.31 | NA | 0.63 | NA |
| RD-34B | SMRD-034B-GW082010 | Bi-212 | Filtered | 1.3 U | 14 | 3.9 | 6.3 |
| RD-34B | SMRD-034B-GW082010 | Bi-212 | Suspended | 2.8 | 5.6 | 1.7 | 2.6 |
| RD-34B | SMRD-034B-GW082010 | Bi-212 | Total | 4.1 | NA | 4.2 | NA |
| RD-34B | SMRD-034B-GW082010 | Bi-214 | Filtered | 1.9 | 3.4 | 1 | 1.6 |
| RD-34B | SMRD-034B-GW082010 | Bi-214 | Suspended | 1.24 | 1.1 | 0.4 | 0.53 |
| RD-34B | SMRD-034B-GW082010 | Bi-214 | Total | 3.1 | NA | 1.1 | NA |
| RD-34B | SMRD-034B-GW082010 | Cd-113m | Filtered | 7600 | 15000 | 4600 | 7300 |
| RD-34B | SMRD-034B-GW082010 | Cd-113m | Suspended | 600 U | 6800 | 2000 | 3300 |
| RD-34B | SMRD-034B-GW082010 | Cd-113m | Total | 8200 | NA | 5000 | NA |
| RD-34B | SMRD-034B-GW082010 | Cf-249 | Filtered | 3.2 R | 6 | 1.8 | 2.8 |
| RD-34B | SMRD-034B-GW082010 | Cf-249 | Suspended | -0.59 U R | 2.9 | 0.87 | 1.4 |
| RD-34B | SMRD-034B-GW082010 | Cf-249 | Total | 2.6 R | NA | 2 | NA |
| RD-34B | SMRD-034B-GW082010 | Co-60 | Filtered | 0.41 U | 1.4 | 0.42 | 0.64 |
| RD-34B | SMRD-034B-GW082010 | Co-60 | Suspended | 0.25 U | 0.63 | 0.19 | 0.28 |
| RD-34B | SMRD-034B-GW082010 | Co-60 | Total | 0.66 | NA | 0.46 | NA |
| RD-34B | SMRD-034B-GW082010 | Cs-134 | Filtered | 0.08 U | 1.7 | 0.49 | 0.81 |
| RD-34B | SMRD-034B-GW082010 | Cs-134 | Suspended | -0.32 U | 0.79 | 0.24 | 0.38 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-34B | SMRD-034B-GW082010 | Cs-134 | Total | -0.24 | NA | 0.55 | NA |
| RD-34B | SMRD-034B-GW082010 | Cs-137 | Filtered | -0.01 U | 1.4 | 0.4 | 0.66 |
| RD-34B | SMRD-034B-GW082010 | Cs-137 | Suspended | -0.31 U | 0.8 | 0.53 | 0.38 |
| RD-34B | SMRD-034B-GW082010 | Cs-137 | Total | -0.32 | NA | 0.66 | NA |
| RD-34B | SMRD-034B-GW082010 | Eu-152 | Filtered | -2.3 U | 4.5 | 1.4 | 2.1 |
| RD-34B | SMRD-034B-GW082010 | Eu-152 | Suspended | -0.53 U | 1.7 | 0.51 | 0.82 |
| RD-34B | SMRD-034B-GW082010 | Eu-152 | Total | -2.8 | NA | 1.5 | NA |
| RD-34B | SMRD-034B-GW082010 | Eu-154 | Filtered | 0 U | 13 | 3.6 | 5.9 |
| RD-34B | SMRD-034B-GW082010 | Eu-154 | Suspended | -0.9 U | 5.5 | 1.6 | 2.6 |
| RD-34B | SMRD-034B-GW082010 | Eu-154 | Total | -0.9 | NA | 3.9 | NA |
| RD-34B | SMRD-034B-GW082010 | Eu-155 | Filtered | 0.88 U | 3.2 | 0.94 | 1.5 |
| RD-34B | SMRD-034B-GW082010 | Eu-155 | Suspended | 0.44 U | 1.2 | 0.36 | 0.58 |
| RD-34B | SMRD-034B-GW082010 | Eu-155 | Total | 1.3 | NA | 1 | NA |
| RD-34B | SMRD-034B-GW082010 | gross_alpha | Filtered | 4.73 | 0.46 | 0.43 | 0.25 |
| RD-34B | SMRD-034B-GW082010 | gross_alpha | Suspended | 1.12 | 1.1 | 0.38 | 0.59 |
| RD-34B | SMRD-034B-GW082010 | gross_alpha | Total | 5.85 | NA | 0.57 | NA |
| RD-34B | SMRD-034B-GW082010 | gross_beta | Filtered | 6.51 | 1.7 | 0.8 | 0.97 |
| RD-34B | SMRD-034B-GW082010 | gross_beta | Suspended | 0.28 U | 0.77 | 0.23 | 0.46 |
| RD-34B | SMRD-034B-GW082010 | gross_beta | Total | 6.79 | NA | 0.84 | NA |
| RD-34B | SMRD-034B-GW082010 | H-3 | Filtered | 191 | 140 | 44 | 67 |
| RD-34B | SMRD-034B-GW082010 | H-3 | Suspended | 18 | 18 | 6.1 | 7.5 |
| RD-34B | SMRD-034B-GW082010 | H-3 | Total | 209 | NA | 44 | NA |
| RD-34B | SMRD-034B-GW082010 | Ho-166m | Filtered | -0.4 U | 2.5 | 0.72 | 1.2 |
| RD-34B | SMRD-034B-GW082010 | Ho-166m | Suspended | 0.28 U | 0.92 | 0.27 | 0.43 |
| RD-34B | SMRD-034B-GW082010 | Ho-166m | Total | -0.12 | NA | 0.77 | NA |
| RD-34B | SMRD-034B-GW082010 | K-40 | Filtered | -20 U | 27 | 37 | 13 |
| RD-34B | SMRD-034B-GW082010 | K-40 | Suspended | -0.5 U | 8.7 | 2.1 | 4 |
| RD-34B | SMRD-034B-GW082010 | K-40 | Total | -20 | NA | 37 | NA |
| RD-34B | SMRD-034B-GW082010 | Na-22 | Filtered | -0.0003 U | 1.8 | 0.49 | 0.8 |
| RD-34B | SMRD-034B-GW082010 | Na-22 | Suspended | 0.19 U | 0.67 | 0.2 | 0.3 |
| RD-34B | SMRD-034B-GW082010 | Na-22 | Total | 0.19 | NA | 0.53 | NA |
| RD-34B | SMRD-034B-GW082010 | Nb-94 | Filtered | -0.01 U | 1.5 | 0.41 | 0.68 |
| RD-34B | SMRD-034B-GW082010 | Nb-94 | Suspended | -0.26 U | 0.69 | 0.21 | 0.33 |
| RD-34B | SMRD-034B-GW082010 | Nb-94 | Total | -0.28 | NA | 0.46 | NA |
| RD-34B | SMRD-034B-GW082010 | Np-236 | Filtered | -0.93 U | 2.9 | 0.88 | 1.4 |
| RD-34B | SMRD-034B-GW082010 | Np-236 | Suspended | 0 U | 1.2 | 0.35 | 0.58 |
| RD-34B | SMRD-034B-GW082010 | Np-236 | Total | -0.93 | NA | 0.95 | NA |
| RD-34B | SMRD-034B-GW082010 | Np-239 | Filtered | 1.2 U | 8 | 2.4 | 3.8 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-34B | SMRD-034B-GW082010 | Np-239 | Suspended | -0.8 U | 3.4 | 1 | 1.7 |
| RD-34B | SMRD-034B-GW082010 | Np-239 | Total | 0.3 | NA | 2.6 | NA |
| RD-34B | SMRD-034B-GW082010 | Pa-231 | Filtered | -6 U | 65 | 19 | 31 |
| RD-34B | SMRD-034B-GW082010 | Pa-231 | Suspended | -5.7 U | 26 | 7.6 | 12 |
| RD-34B | SMRD-034B-GW082010 | Pa-231 | Total | -11 | NA | 20 | NA |
| RD-34B | SMRD-034B-GW082010 | Pb-212 | Filtered | 1.9 | 3 | 1 | 1.4 |
| RD-34B | SMRD-034B-GW082010 | Pb-212 | Suspended | -0.06 U | 0.99 | 0.36 | 0.48 |
| RD-34B | SMRD-034B-GW082010 | Pb-212 | Total | 1.8 | NA | 1.1 | NA |
| RD-34B | SMRD-034B-GW082010 | Pb-214 | Filtered | 2.2 | 3.3 | 1.2 | 1.6 |
| RD-34B | SMRD-034B-GW082010 | Pb-214 | Suspended | 2.13 | 0.83 | 0.41 | 0.39 |
| RD-34B | SMRD-034B-GW082010 | Pb-214 | Total | 4.4 | NA | 1.3 | NA |
| RD-34B | SMRD-034B-GW082010 | Sb-125 | Filtered | -0.5 U | 16 | 4.6 | 7.6 |
| RD-34B | SMRD-034B-GW082010 | Sb-125 | Suspended | -0.7 U | 6 | 1.8 | 2.9 |
| RD-34B | SMRD-034B-GW082010 | Sb-125 | Total | -1.2 | NA | 4.9 | NA |
| RD-34B | SMRD-034B-GW082010 | Sn-126 | Filtered | -0.13 U | 1.7 | 0.48 | 0.79 |
| RD-34B | SMRD-034B-GW082010 | Sn-126 | Suspended | 0.28 U | 0.68 | 0.2 | 0.32 |
| RD-34B | SMRD-034B-GW082010 | Sn-126 | Total | 0.15 | NA | 0.53 | NA |
| RD-34B | SMRD-034B-GW082010 | Sr-90 | Suspended | 0.014 U | 0.076 | 0.023 | 0.044 |
| RD-34B | SMRD-034B-GW082010 | Sr-90 | Total | 0.027 | NA | 0.054 | NA |
| RD-34B | SMRD-034B-GW082010 | Te-125m | Filtered | -0.1 U | 3.6 | 1.1 | 1.7 |
| RD-34B | SMRD-034B-GW082010 | Te-125m | Suspended | -0.17 U | 1.4 | 0.41 | 0.67 |
| RD-34B | SMRD-034B-GW082010 | Te-125m | Total | -0.3 | NA | 1.1 | NA |
| RD-34B | SMRD-034B-GW082010 | Th-231 | Filtered | 0.108 | 0.031 | 0.026 | 0.009 |
| RD-34B | SMRD-034B-GW082010 | Th-231 | Suspended | 0.0056 U | 0.015 | 0.0056 | 0.008 |
| RD-34B | SMRD-034B-GW082010 | Th-231 | Total | 0.114 | NA | 0.027 | NA |
| RD-34B | SMRD-034B-GW082010 | Th-234 | Filtered | 1.7 U | 21 | 6 | 10 |
| RD-34B | SMRD-034B-GW082010 | Th-234 | Suspended | -1.4 U | 7.2 | 2.6 | 3.5 |
| RD-34B | SMRD-034B-GW082010 | Th-234 | Total | 0.3 | NA | 6.5 | NA |
| RD-34B | SMRD-034B-GW082010 | Tl-208 | Filtered | 0.72 U | 1.6 | 0.46 | 0.73 |
| RD-34B | SMRD-034B-GW082010 | Tl-208 | Suspended | -0.41 U | 0.9 | 0.48 | 0.43 |
| RD-34B | SMRD-034B-GW082010 | Tl-208 | Total | 0.31 | NA | 0.66 | NA |
| RD-34B | SMRD-034B-GW082010 | Tm-171 | Filtered | 70 U | 350 | 100 | 170 |
| RD-34B | SMRD-034B-GW082010 | Tm-171 | Suspended | -91 L U | 120 | 36 | 56 |
| RD-34B | SMRD-034B-GW082010 | Tm-171 | Total | -20 | NA | 110 | NA |
| RD-34B | SMRD-034B-GW082010 | U-233/234 | Filtered | 1.75 | 0.03 | 0.12 | 0.01 |
| RD-34B | SMRD-034B-GW082010 | U-233/234 | Suspended | 0.031 | 0.036 | 0.015 | 0.014 |
| RD-34B | SMRD-034B-GW082010 | U-233/234 | Total | 1.78 | NA | 0.12 | NA |
| RD-34B | SMRD-034B-GW082010 | U-235/236 | Filtered | 0.108 | 0.031 | 0.026 | 0.009 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-34B | SMRD-034B-GW082010 | U-235/236 | Suspended | 0.0056 U | 0.015 | 0.0056 | 0.008 |
| RD-34B | SMRD-034B-GW082010 | U-235/236 | Total | 0.114 | NA | 0.027 | NA |
| RD-34B | SMRD-034B-GW082010 | U-238 | Filtered | 1.51 | 0.03 | 0.11 | 0.01 |
| RD-34B | SMRD-034B-GW082010 | U-238 | Suspended | 0.012 | 0.027 | 0.01 | 0.009 |
| RD-34B | SMRD-034B-GW082010 | U-238 | Total | 1.52 | NA | 0.11 | NA |
| RD-34C | SMRD-34C-GW083010 | Ac-227 | Filtered | -1 U | 8.8 | 2.6 | 4.3 |
| RD-34C | SMRD-34C-GW083010 | Ac-227 | Suspended | -1.8 U | 4.3 | 1.3 | 2.1 |
| RD-34C | SMRD-34C-GW083010 | Ac-227 | Total | -2.8 | NA | 2.9 | NA |
| RD-34C | SMRD-34C-GW083010 | Ac-228 | Filtered | 3.8 | 4.6 | 1.5 | 2.1 |
| RD-34C | SMRD-34C-GW083010 | Ac-228 | Suspended | 4.23 | 1.6 | 0.73 | 0.71 |
| RD-34C | SMRD-34C-GW083010 | Ac-228 | Total | 8 | NA | 1.6 | NA |
| RD-34C | SMRD-34C-GW083010 | Ag-108 | Filtered | 0.029 U R | 0.081 | 0.024 | 0.038 |
| RD-34C | SMRD-34C-GW083010 | Ag-108 | Suspended | -0.002 U R | 0.049 | 0.014 | 0.023 |
| RD-34C | SMRD-34C-GW083010 | Ag-108 | Total | 0.027 R | NA | 0.028 | NA |
| RD-34C | SMRD-34C-GW083010 | Ag-108m | Filtered | 0.31 U R | 0.87 | 0.26 | 0.41 |
| RD-34C | SMRD-34C-GW083010 | Ag-108m | Suspended | -0.02 U R | 0.52 | 0.15 | 0.25 |
| RD-34C | SMRD-34C-GW083010 | Ag-108m | Total | 0.29 R | NA | 0.3 | NA |
| RD-34C | SMRD-34C-GW083010 | Ba-133 | Filtered | 0.2 U R | 11 | 3.1 | 5.1 |
| RD-34C | SMRD-34C-GW083010 | Ba-133 | Suspended | 1.3 U R | 5.9 | 1.8 | 2.9 |
| RD-34C | SMRD-34C-GW083010 | Ba-133 | Total | 1.4 R | NA | 3.6 | NA |
| RD-34C | SMRD-34C-GW083010 | Ba-137m | Filtered | 0.34 U | 1.4 | 0.4 | 0.63 |
| RD-34C | SMRD-34C-GW083010 | Ba-137m | Suspended | 0.12 U | 0.67 | 0.2 | 0.32 |
| RD-34C | SMRD-34C-GW083010 | Ba-137m | Total | 0.46 | NA | 0.44 | NA |
| RD-34C | SMRD-34C-GW083010 | Bi-212 | Filtered | 4.7 U | 11 | 3.5 | 5.3 |
| RD-34C | SMRD-34C-GW083010 | Bi-212 | Suspended | -0.5 U | 6.6 | 3 | 3.2 |
| RD-34C | SMRD-34C-GW083010 | Bi-212 | Total | 4.1 | NA | 4.6 | NA |
| RD-34C | SMRD-34C-GW083010 | Bi-214 | Filtered | 3.4 | 2.5 | 1 | 1.2 |
| RD-34C | SMRD-34C-GW083010 | Bi-214 | Suspended | 1.35 | 1.5 | 0.47 | 0.7 |
| RD-34C | SMRD-34C-GW083010 | Bi-214 | Total | 4.7 | NA | 1.1 | NA |
| RD-34C | SMRD-34C-GW083010 | Cd-113m | Filtered | 1800 U | 16000 | 4700 | 7600 |
| RD-34C | SMRD-34C-GW083010 | Cd-113m | Suspended | -500 U | 7200 | 2100 | 3500 |
| RD-34C | SMRD-34C-GW083010 | Cd-113m | Total | 1200 | NA | 5100 | NA |
| RD-34C | SMRD-34C-GW083010 | Cf-249 | Filtered | 0.2 U R | 6.4 | 1.9 | 3.1 |
| RD-34C | SMRD-34C-GW083010 | Cf-249 | Suspended | 0.4 U R | 3 | 0.89 | 1.4 |
| RD-34C | SMRD-34C-GW083010 | Cf-249 | Total | 0.6 R | NA | 2.1 | NA |
| RD-34C | SMRD-34C-GW083010 | Co-60 | Filtered | 0.002 U | 1.6 | 0.43 | 0.72 |
| RD-34C | SMRD-34C-GW083010 | Co-60 | Suspended | 0.02 U | 0.82 | 0.23 | 0.38 |
| RD-34C | SMRD-34C-GW083010 | Co-60 | Total | 0.02 | NA | 0.49 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-34C | SMRD-34C-GW083010 | Cs-134 | Filtered | -0.23 U | 1.6 | 0.47 | 0.77 |
| RD-34C | SMRD-34C-GW083010 | Cs-134 | Suspended | 0.36 U | 0.86 | 0.26 | 0.42 |
| RD-34C | SMRD-34C-GW083010 | Cs-134 | Total | 0.13 | NA | 0.54 | NA |
| RD-34C | SMRD-34C-GW083010 | Cs-137 | Filtered | 0.36 U | 1.4 | 0.42 | 0.67 |
| RD-34C | SMRD-34C-GW083010 | Cs-137 | Suspended | 0.13 U | 0.71 | 0.21 | 0.34 |
| RD-34C | SMRD-34C-GW083010 | Cs-137 | Total | 0.48 | NA | 0.47 | NA |
| RD-34C | SMRD-34C-GW083010 | Eu-152 | Filtered | 0.8 U | 3.7 | 1.1 | 1.8 |
| RD-34C | SMRD-34C-GW083010 | Eu-152 | Suspended | 0.52 U | 1.7 | 0.51 | 0.82 |
| RD-34C | SMRD-34C-GW083010 | Eu-152 | Total | 1.3 | NA | 1.2 | NA |
| RD-34C | SMRD-34C-GW083010 | Eu-154 | Filtered | 3.4 U | 11 | 3.2 | 5 |
| RD-34C | SMRD-34C-GW083010 | Eu-154 | Suspended | 0.2 U | 3.8 | 1.1 | 1.8 |
| RD-34C | SMRD-34C-GW083010 | Eu-154 | Total | 3.6 | NA | 3.4 | NA |
| RD-34C | SMRD-34C-GW083010 | Eu-155 | Filtered | 0.44 U | 3.3 | 0.96 | 1.6 |
| RD-34C | SMRD-34C-GW083010 | Eu-155 | Suspended | 0.32 U | 1.2 | 0.37 | 0.59 |
| RD-34C | SMRD-34C-GW083010 | Eu-155 | Total | 0.8 | NA | 1 | NA |
| RD-34C | SMRD-34C-GW083010 | gross_alpha | Filtered | 1.23 | 0.47 | 0.23 | 0.26 |
| RD-34C | SMRD-34C-GW083010 | gross_alpha | Suspended | 0.25 | 0.4 | 0.13 | 0.21 |
| RD-34C | SMRD-34C-GW083010 | gross_alpha | Total | 1.49 | NA | 0.26 | NA |
| RD-34C | SMRD-34C-GW083010 | gross_beta | Filtered | 4.81 | 2.1 | 0.82 | 1.2 |
| RD-34C | SMRD-34C-GW083010 | gross_beta | Suspended | -0.31 U | 0.72 | 0.19 | 0.42 |
| RD-34C | SMRD-34C-GW083010 | gross_beta | Total | 4.51 | NA | 0.85 | NA |
| RD-34C | SMRD-34C-GW083010 | H-3 | Filtered | 11 U | 130 | 40 | 65 |
| RD-34C | SMRD-34C-GW083010 | H-3 | Suspended | -13.3 U R | 40 | 8.8 | 18 |
| RD-34C | SMRD-34C-GW083010 | H-3 | Total | -2 R | NA | 41 | NA |
| RD-34C | SMRD-34C-GW083010 | H-3_Total | Filtered | 11.1 U | 26 | 7.7 | 12 |
| RD-34C | SMRD-34C-GW083010 | H-3_Total | Suspended | -13.3 L U | 34 | 6.6 | 15 |
| RD-34C | SMRD-34C-GW083010 | H-3_Total | Total | -2 R | NA | 10 | NA |
| RD-34C | SMRD-34C-GW083010 | Ho-166m | Filtered | -0.005 U | 1.8 | 0.49 | 0.81 |
| RD-34C | SMRD-34C-GW083010 | Ho-166m | Suspended | 0.31 U | 0.87 | 0.26 | 0.41 |
| RD-34C | SMRD-34C-GW083010 | Ho-166m | Total | 0.3 | NA | 0.55 | NA |
| RD-34C | SMRD-34C-GW083010 | K-40 | Filtered | -10 U | 22 | 13 | 10 |
| RD-34C | SMRD-34C-GW083010 | K-40 | Suspended | 8.9 | 9.1 | 2.8 | 4.3 |
| RD-34C | SMRD-34C-GW083010 | K-40 | Total | -0.7 | NA | 14 | NA |
| RD-34C | SMRD-34C-GW083010 | Na-22 | Filtered | 0.06 U | 1.5 | 0.42 | 0.68 |
| RD-34C | SMRD-34C-GW083010 | Na-22 | Suspended | 0.06 U | 0.67 | 0.19 | 0.31 |
| RD-34C | SMRD-34C-GW083010 | Na-22 | Total | 0.12 | NA | 0.46 | NA |
| RD-34C | SMRD-34C-GW083010 | Nb-94 | Filtered | -0.32 U | 1.3 | 0.39 | 0.61 |
| RD-34C | SMRD-34C-GW083010 | Nb-94 | Suspended | 0.1 U | 0.66 | 0.19 | 0.31 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-34C | SMRD-34C-GW083010 | Nb-94 | Total | -0.22 | NA | 0.43 | NA |
| RD-34C | SMRD-34C-GW083010 | Np-236 | Filtered | -1 U | 2.6 | 0.8 | 1.3 |
| RD-34C | SMRD-34C-GW083010 | Np-236 | Suspended | -0.35 U | 1.2 | 0.37 | 0.61 |
| RD-34C | SMRD-34C-GW083010 | Np-236 | Total | -1.35 | NA | 0.88 | NA |
| RD-34C | SMRD-34C-GW083010 | Np-239 | Filtered | 0 U | 7.4 | 2.2 | 3.6 |
| RD-34C | SMRD-34C-GW083010 | Np-239 | Suspended | 0.3 U | 3.9 | 1.2 | 1.9 |
| RD-34C | SMRD-34C-GW083010 | Np-239 | Total | 0.3 | NA | 2.5 | NA |
| RD-34C | SMRD-34C-GW083010 | Pa-231 | Filtered | 4 U | 54 | 16 | 26 |
| RD-34C | SMRD-34C-GW083010 | Pa-231 | Suspended | 3.9 U | 27 | 8.1 | 13 |
| RD-34C | SMRD-34C-GW083010 | Pa-231 | Total | 8 | NA | 18 | NA |
| RD-34C | SMRD-34C-GW083010 | Pb-212 | Filtered | 1.38 | 2.5 | 0.96 | 1.2 |
| RD-34C | SMRD-34C-GW083010 | Pb-212 | Suspended | 0.64 U | 1.3 | 0.5 | 0.65 |
| RD-34C | SMRD-34C-GW083010 | Pb-212 | Total | 2 | NA | 1.1 | NA |
| RD-34C | SMRD-34C-GW083010 | Pb-214 | Filtered | 3 | 2.8 | 1.1 | 1.3 |
| RD-34C | SMRD-34C-GW083010 | Pb-214 | Suspended | 2.53 | 1.5 | 0.64 | 0.73 |
| RD-34C | SMRD-34C-GW083010 | Pb-214 | Total | 5.5 | NA | 1.3 | NA |
| RD-34C | SMRD-34C-GW083010 | Sb-125 | Filtered | -1.2 U | 14 | 4.1 | 6.7 |
| RD-34C | SMRD-34C-GW083010 | Sb-125 | Suspended | 0.8 U | 5.8 | 1.7 | 2.8 |
| RD-34C | SMRD-34C-GW083010 | Sb-125 | Total | -0.4 | NA | 4.5 | NA |
| RD-34C | SMRD-34C-GW083010 | Sn-126 | Filtered | 0.19 U | 1.4 | 0.39 | 0.63 |
| RD-34C | SMRD-34C-GW083010 | Sn-126 | Suspended | 0.24 U | 0.69 | 0.21 | 0.33 |
| RD-34C | SMRD-34C-GW083010 | Sn-126 | Total | 0.43 | NA | 0.44 | NA |
| RD-34C | SMRD-34C-GW083010 | Sr-90 | Filtered | -0.008 U | 0.18 | 0.049 | 0.1 |
| RD-34C | SMRD-34C-GW083010 | Sr-90 | Suspended | 0.017 U | 0.14 | 0.041 | 0.085 |
| RD-34C | SMRD-34C-GW083010 | Sr-90 | Total | 0.008 | NA | 0.063 | NA |
| RD-34C | SMRD-34C-GW083010 | Te-125m | Filtered | -0.28 U | 3.2 | 0.95 | 1.6 |
| RD-34C | SMRD-34C-GW083010 | Te-125m | Suspended | 0.18 U | 1.3 | 0.4 | 0.65 |
| RD-34C | SMRD-34C-GW083010 | Te-125m | Total | -0.1 | NA | 1 | NA |
| RD-34C | SMRD-34C-GW083010 | Th-231 | Filtered | 0.008 | 0.0072 | 0.0046 | 0.0062 |
| RD-34C | SMRD-34C-GW083010 | Th-231 | Suspended | 0 U | 0.016 | 0.0022 | 0.0082 |
| RD-34C | SMRD-34C-GW083010 | Th-231 | Total | 0.008 | NA | 0.0051 | NA |
| RD-34C | SMRD-34C-GW083010 | Th-234 | Filtered | -0.2 U | 22 | 7 | 11 |
| RD-34C | SMRD-34C-GW083010 | Th-234 | Suspended | -0.5 U | 7.1 | 2.3 | 3.5 |
| RD-34C | SMRD-34C-GW083010 | Th-234 | Total | -0.7 | NA | 7.4 | NA |
| RD-34C | SMRD-34C-GW083010 | Tl-208 | Filtered | -0.23 U | 1.7 | 0.69 | 0.82 |
| RD-34C | SMRD-34C-GW083010 | Tl-208 | Suspended | 0.17 U | 0.91 | 0.25 | 0.44 |
| RD-34C | SMRD-34C-GW083010 | Tl-208 | Total | -0.06 | NA | 0.73 | NA |
| RD-34C | SMRD-34C-GW083010 | Tm-171 | Filtered | -20 U | 350 | 100 | 170 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-34C | SMRD-34C-GW083010 | Tm-171 | Suspended | 36 U | 130 | 38 | 62 |
| RD-34C | SMRD-34C-GW083010 | Tm-171 | Total | 10 | NA | 110 | NA |
| RD-34C | SMRD-34C-GW083010 | U-233/234 | Filtered | 0.293 | 0.02 | 0.029 | 0.007 |
| RD-34C | SMRD-34C-GW083010 | U-233/234 | Suspended | 0.004 U | 0.037 | 0.011 | 0.015 |
| RD-34C | SMRD-34C-GW083010 | U-233/234 | Total | 0.298 | NA | 0.031 | NA |
| RD-34C | SMRD-34C-GW083010 | U-235/236 | Filtered | 0.008 | 0.0072 | 0.0046 | 0.0062 |
| RD-34C | SMRD-34C-GW083010 | U-235/236 | Suspended | 0 U | 0.016 | 0.0022 | 0.0082 |
| RD-34C | SMRD-34C-GW083010 | U-235/236 | Total | 0.008 | NA | 0.0051 | NA |
| RD-34C | SMRD-34C-GW083010 | U-238 | Filtered | 0.043 | 0.02 | 0.011 | 0.007 |
| RD-34C | SMRD-34C-GW083010 | U-238 | Suspended | 0.017 K | 0.028 | 0.012 | 0.009 |
| RD-34C | SMRD-34C-GW083010 | U-238 | Total | 0.06 | NA | 0.016 | NA |
| RD-50 | SMRD-50-GW081810 | Ac-227 | Filtered | -2.2 U | 11 | 3.4 | 5.5 |
| RD-50 | SMRD-50-GW081810 | Ac-227 | Suspended | -0.9 U | 3.6 | 1.1 | 1.7 |
| RD-50 | SMRD-50-GW081810 | Ac-227 | Total | -3.1 | NA | 3.5 | NA |
| RD-50 | SMRD-50-GW081810 | Ac-228 | Filtered | 3.4 | 5.1 | 1.6 | 2.4 |
| RD-50 | SMRD-50-GW081810 | Ac-228 | Suspended | 3.15 | 2.1 | 0.7 | 0.97 |
| RD-50 | SMRD-50-GW081810 | Ac-228 | Total | 6.6 | NA | 1.8 | NA |
| RD-50 | SMRD-50-GW081810 | Ag-108 | Filtered | -0.017 U R | 0.11 | 0.032 | 0.052 |
| RD-50 | SMRD-50-GW081810 | Ag-108 | Suspended | 0.0002 U R | 0.047 | 0.014 | 0.023 |
| RD-50 | SMRD-50-GW081810 | Ag-108 | Total | -0.17 R | NA | 0.35 | NA |
| RD-50 | SMRD-50-GW081810 | Ag-108m | Filtered | -0.18 U R | 1.2 | 0.34 | 0.56 |
| RD-50 | SMRD-50-GW081810 | Ag-108m | Suspended | 0.002 U R | 0.51 | 0.15 | 0.24 |
| RD-50 | SMRD-50-GW081810 | Ag-108m | Total | -0.18 R | NA | 0.37 | NA |
| RD-50 | SMRD-50-GW081810 | Ba-133 | Filtered | -0.4 U R | 16 | 4.5 | 7.5 |
| RD-50 | SMRD-50-GW081810 | Ba-133 | Suspended | -0.1 U R | 6.1 | 1.8 | 3 |
| RD-50 | SMRD-50-GW081810 | Ba-133 | Total | -0.5 R | NA | 4.9 | NA |
| RD-50 | SMRD-50-GW081810 | Ba-137m | Filtered | 0.45 U | 1.2 | 0.36 | 0.55 |
| RD-50 | SMRD-50-GW081810 | Ba-137m | Suspended | -0.05 U | 0.71 | 0.21 | 0.34 |
| RD-50 | SMRD-50-GW081810 | Ba-137m | Total | 0.4 | NA | 0.41 | NA |
| RD-50 | SMRD-50-GW081810 | Bi-212 | Filtered | -0.06 U | 9 | 2.5 | 4.1 |
| RD-50 | SMRD-50-GW081810 | Bi-212 | Suspended | 2.1 U | 5.2 | 1.6 | 2.5 |
| RD-50 | SMRD-50-GW081810 | Bi-212 | Total | 2 | NA | 3 | NA |
| RD-50 | SMRD-50-GW081810 | Bi-214 | Filtered | -2.2 U | 3.6 | 2.4 | 1.7 |
| RD-50 | SMRD-50-GW081810 | Bi-214 | Suspended | 0.77 U | 1.7 | 0.57 | 0.81 |
| RD-50 | SMRD-50-GW081810 | Bi-214 | Total | -1.4 | NA | 2.5 | NA |
| RD-50 | SMRD-50-GW081810 | Cd-113m | Filtered | 1000 U | 17000 | 5100 | 8300 |
| RD-50 | SMRD-50-GW081810 | Cd-113m | Suspended | -3200 U | 7100 | 2200 | 3400 |
| RD-50 | SMRD-50-GW081810 | Cd-113m | Total | -2300 | NA | 5500 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-50 | SMRD-50-GW081810 | Cf-249 | Filtered | 2.8 U R | 7.4 | 2.2 | 3.6 |
| RD-50 | SMRD-50-GW081810 | Cf-249 | Suspended | -0.05 U R | 2.9 | 0.86 | 1.4 |
| RD-50 | SMRD-50-GW081810 | Cf-249 | Total | 2.7 R | NA | 2.4 | NA |
| RD-50 | SMRD-50-GW081810 | Co-60 | Filtered | 0.01 U | 1.6 | 0.44 | 0.73 |
| RD-50 | SMRD-50-GW081810 | Co-60 | Suspended | -0.004 U | 0.74 | 0.21 | 0.34 |
| RD-50 | SMRD-50-GW081810 | Co-60 | Total | 0.007 | NA | 0.49 | NA |
| RD-50 | SMRD-50-GW081810 | Cs-134 | Filtered | -0.06 U | 2.1 | 0.62 | 1 |
| RD-50 | SMRD-50-GW081810 | Cs-134 | Suspended | 0.01 U | 0.7 | 0.2 | 0.34 |
| RD-50 | SMRD-50-GW081810 | Cs-134 | Total | -0.04 | NA | 0.65 | NA |
| RD-50 | SMRD-50-GW081810 | Cs-137 | Filtered | 0.48 U | 1.3 | 0.38 | 0.58 |
| RD-50 | SMRD-50-GW081810 | Cs-137 | Suspended | -0.05 U | 0.75 | 0.22 | 0.36 |
| RD-50 | SMRD-50-GW081810 | Cs-137 | Total | 0.43 | NA | 0.43 | NA |
| RD-50 | SMRD-50-GW081810 | Eu-152 | Filtered | -0.2 U | 4.5 | 1.3 | 2.2 |
| RD-50 | SMRD-50-GW081810 | Eu-152 | Suspended | 0.3 U | 1.6 | 0.48 | 0.78 |
| RD-50 | SMRD-50-GW081810 | Eu-152 | Total | 0.08 | NA | 1.4 | NA |
| RD-50 | SMRD-50-GW081810 | Eu-154 | Filtered | 0.2 U | 13 | 3.8 | 6.2 |
| RD-50 | SMRD-50-GW081810 | Eu-154 | Suspended | -1.3 U | 5.4 | 1.6 | 2.5 |
| RD-50 | SMRD-50-GW081810 | Eu-154 | Total | -1.1 | NA | 4.1 | NA |
| RD-50 | SMRD-50-GW081810 | Eu-155 | Filtered | -0.7 U | 5.1 | 1.5 | 2.5 |
| RD-50 | SMRD-50-GW081810 | Eu-155 | Suspended | 0.03 U | 1.1 | 0.32 | 0.53 |
| RD-50 | SMRD-50-GW081810 | Eu-155 | Total | -0.6 | NA | 1.6 | NA |
| RD-50 | SMRD-50-GW081810 | gross_alpha | Filtered | 22.3 | 0.4 | 1.5 | 0.2 |
| RD-50 | SMRD-50-GW081810 | gross_alpha | Suspended | 0.52 | 0.5 | 0.19 | 0.26 |
| RD-50 | SMRD-50-GW081810 | gross_alpha | Total | 22.8 | NA | 1.5 | NA |
| RD-50 | SMRD-50-GW081810 | gross_beta | Filtered | 10 | 2.3 | 1.1 | 1.3 |
| RD-50 | SMRD-50-GW081810 | gross_beta | Suspended | 0.5 | 0.76 | 0.24 | 0.45 |
| RD-50 | SMRD-50-GW081810 | gross_beta | Total | 10.5 | NA | 1.1 | NA |
| RD-50 | SMRD-50-GW081810 | H-3 | Filtered | -2 U | 150 | 44 | 72 |
| RD-50 | SMRD-50-GW081810 | H-3 | Suspended | -1.6 U R | 27 | 7.9 | 13 |
| RD-50 | SMRD-50-GW081810 | H-3 | Total | -4 R | NA | 44 | NA |
| RD-50 | SMRD-50-GW081810 | Ho-166m | Filtered | 0.09 U | 2.3 | 0.66 | 1.1 |
| RD-50 | SMRD-50-GW081810 | Ho-166m | Suspended | 0.27 U | 1.1 | 0.33 | 0.52 |
| RD-50 | SMRD-50-GW081810 | Ho-166m | Total | 0.36 | NA | 0.73 | NA |
| RD-50 | SMRD-50-GW081810 | K-40 | Filtered | 4.2 U | 17 | 3.7 | 7.8 |
| RD-50 | SMRD-50-GW081810 | K-40 | Suspended | -0.5 U | 12 | 3 | 5.5 |
| RD-50 | SMRD-50-GW081810 | K-40 | Total | 3.7 | NA | 4.7 | NA |
| RD-50 | SMRD-50-GW081810 | Na-22 | Filtered | -0.03 U | 1.5 | 0.43 | 0.7 |
| RD-50 | SMRD-50-GW081810 | Na-22 | Suspended | 0.02 U | 0.6 | 0.17 | 0.28 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-50 | SMRD-50-GW081810 | Na-22 | Total | -0.003 | NA | 0.46 | NA |
| RD-50 | SMRD-50-GW081810 | Nb-94 | Filtered | 0.04 U | 1.3 | 0.37 | 0.6 |
| RD-50 | SMRD-50-GW081810 | Nb-94 | Suspended | -0.13 U | 0.66 | 0.19 | 0.31 |
| RD-50 | SMRD-50-GW081810 | Nb-94 | Total | -0.09 | NA | 0.41 | NA |
| RD-50 | SMRD-50-GW081810 | Np-236 | Filtered | -0.3 U | 3.5 | 1.1 | 1.7 |
| RD-50 | SMRD-50-GW081810 | Np-236 | Suspended | -0.35 U | 1.3 | 0.38 | 0.62 |
| RD-50 | SMRD-50-GW081810 | Np-236 | Total | -0.7 | NA | 1.1 | NA |
| RD-50 | SMRD-50-GW081810 | Np-239 | Filtered | 0 U | 11 | 3.1 | 5.1 |
| RD-50 | SMRD-50-GW081810 | Np-239 | Suspended | -0.5 U | 3.7 | 1.1 | 1.8 |
| RD-50 | SMRD-50-GW081810 | Np-239 | Total | -0.5 | NA | 3.3 | NA |
| RD-50 | SMRD-50-GW081810 | Pa-231 | Filtered | 21 U | 68 | 20 | 33 |
| RD-50 | SMRD-50-GW081810 | Pa-231 | Suspended | -0.2 U | 23 | 6.6 | 11 |
| RD-50 | SMRD-50-GW081810 | Pa-231 | Total | 21 | NA | 21 | NA |
| RD-50 | SMRD-50-GW081810 | Pb-212 | Filtered | -0.8 U | 3.2 | 1.4 | 1.5 |
| RD-50 | SMRD-50-GW081810 | Pb-212 | Suspended | 0.02 U | 1.1 | 0.32 | 0.52 |
| RD-50 | SMRD-50-GW081810 | Pb-212 | Total | -0.8 | NA | 1.5 | NA |
| RD-50 | SMRD-50-GW081810 | Pb-214 | Filtered | 1.48 U | 3.1 | 0.93 | 1.5 |
| RD-50 | SMRD-50-GW081810 | Pb-214 | Suspended | -0.66 U | 1.6 | 0.62 | 0.77 |
| RD-50 | SMRD-50-GW081810 | Pb-214 | Total | 0.8 | NA | 1.1 | NA |
| RD-50 | SMRD-50-GW081810 | Sb-125 | Filtered | 0.3 U | 15 | 4.6 | 7.5 |
| RD-50 | SMRD-50-GW081810 | Sb-125 | Suspended | 1.1 U | 5.8 | 1.7 | 2.8 |
| RD-50 | SMRD-50-GW081810 | Sb-125 | Total | 1.4 | NA | 4.9 | NA |
| RD-50 | SMRD-50-GW081810 | Sn-126 | Filtered | 0.25 U | 1.6 | 0.47 | 0.76 |
| RD-50 | SMRD-50-GW081810 | Sn-126 | Suspended | 0.09 U | 0.68 | 0.2 | 0.32 |
| RD-50 | SMRD-50-GW081810 | Sn-126 | Total | 0.35 | NA | 0.51 | NA |
| RD-50 | SMRD-50-GW081810 | Sr-90 | Filtered | 0.113 U | 0.22 | 0.066 | 0.13 |
| RD-50 | SMRD-50-GW081810 | Sr-90 | Suspended | 0.044 U | 0.19 | 0.057 | 0.12 |
| RD-50 | SMRD-50-GW081810 | Sr-90 | Total | 0.157 | NA | 0.088 | NA |
| RD-50 | SMRD-50-GW081810 | Te-125m | Filtered | 0.06 U | 3.6 | 1.1 | 1.7 |
| RD-50 | SMRD-50-GW081810 | Te-125m | Suspended | 0.26 U | 1.3 | 0.4 | 0.65 |
| RD-50 | SMRD-50-GW081810 | Te-125m | Total | 1.3 | NA | 4.6 | NA |
| RD-50 | SMRD-50-GW081810 | Th-231 | Filtered | 0.72 | 0.055 | 0.078 | 0.022 |
| RD-50 | SMRD-50-GW081810 | Th-231 | Suspended | 0.008 U | 0.036 | 0.01 | 0.01 |
| RD-50 | SMRD-50-GW081810 | Th-231 | Total | 0.727 | NA | 0.078 | NA |
| RD-50 | SMRD-50-GW081810 | Th-234 | Filtered | 12 U | 44 | 15 | 22 |
| RD-50 | SMRD-50-GW081810 | Th-234 | Suspended | -2.1 U | 8.5 | 3 | 4.2 |
| RD-50 | SMRD-50-GW081810 | Th-234 | Total | 10 | NA | 15 | NA |
| RD-50 | SMRD-50-GW081810 | Tl-208 | Filtered | -2.5 U | 2.1 | 3.9 | 1 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|-------|----------------|
| RD-50 | SMRD-50-GW081810 | Tl-208 | Suspended | 0.21 U | 0.77 | 0.27 | 0.37 |
| RD-50 | SMRD-50-GW081810 | Tl-208 | Total | -2.3 | NA | 3.9 | NA |
| RD-50 | SMRD-50-GW081810 | Tm-171 | Filtered | -440 L U | 610 | 190 | 290 |
| RD-50 | SMRD-50-GW081810 | Tm-171 | Suspended | 0.6 U | 110 | 32 | 52 |
| RD-50 | SMRD-50-GW081810 | Tm-171 | Total | -430 L | NA | 190 | NA |
| RD-50 | SMRD-50-GW081810 | U-233/234 | Filtered | 13.3 | 0.05 | 0.62 | 0.02 |
| RD-50 | SMRD-50-GW081810 | U-233/234 | Suspended | 0.02 | 0.029 | 0.014 | 0.008 |
| RD-50 | SMRD-50-GW081810 | U-233/234 | Total | 13.3 | NA | 0.62 | NA |
| RD-50 | SMRD-50-GW081810 | U-235/236 | Filtered | 0.72 | 0.055 | 0.078 | 0.022 |
| RD-50 | SMRD-50-GW081810 | U-235/236 | Suspended | 0.008 U | 0.036 | 0.01 | 0.01 |
| RD-50 | SMRD-50-GW081810 | U-235/236 | Total | 0.727 | NA | 0.078 | NA |
| RD-50 | SMRD-50-GW081810 | U-238 | Filtered | 10.6 | 0.04 | 0.51 | 0.01 |
| RD-50 | SMRD-50-GW081810 | U-238 | Suspended | 0.007 U | 0.033 | 0.011 | 0.01 |
| RD-50 | SMRD-50-GW081810 | U-238 | Total | 10.6 | NA | 0.51 | NA |
| RD-54A | SMRD-54A-GW090210 | Ac-227 | Filtered | -1.2 U | 7.2 | 2.1 | 3.4 |
| RD-54A | SMRD-54A-GW090210 | Ac-227 | Suspended | -1.2 U | 4 | 1.2 | 2 |
| RD-54A | SMRD-54A-GW090210 | Ac-227 | Total | -2.4 | NA | 2.4 | NA |
| RD-54A | SMRD-54A-GW090210 | Ac-228 | Filtered | 3.8 B | 4.5 | 1.5 | 2.1 |
| RD-54A | SMRD-54A-GW090210 | Ac-228 | Suspended | -0.6 U | 3.3 | 1.2 | 1.6 |
| RD-54A | SMRD-54A-GW090210 | Ac-228 | Total | 3.3 B | NA | 1.9 | NA |
| RD-54A | SMRD-54A-GW090210 | Ag-108 | Filtered | 0.03 U R | 0.1 | 0.03 | 0.048 |
| RD-54A | SMRD-54A-GW090210 | Ag-108 | Suspended | -0.0006 U R | 0.056 | 0.016 | 0.027 |
| RD-54A | SMRD-54A-GW090210 | Ag-108 | Total | 0.029 R | NA | 0.034 | NA |
| RD-54A | SMRD-54A-GW090210 | Ag-108m | Filtered | 0.32 U R | 1.1 | 0.33 | 0.52 |
| RD-54A | SMRD-54A-GW090210 | Ag-108m | Suspended | -0.007 U R | 0.6 | 0.18 | 0.29 |
| RD-54A | SMRD-54A-GW090210 | Ag-108m | Total | 0.31 R | NA | 0.37 | NA |
| RD-54A | SMRD-54A-GW090210 | Ba-133 | Filtered | 0.9 U R | 11 | 3.2 | 5.2 |
| RD-54A | SMRD-54A-GW090210 | Ba-133 | Suspended | -0.1 U R | 5.1 | 1.5 | 2.5 |
| RD-54A | SMRD-54A-GW090210 | Ba-133 | Total | 0.8 R | NA | 3.5 | NA |
| RD-54A | SMRD-54A-GW090210 | Ba-137m | Filtered | 0.27 U | 1.2 | 0.36 | 0.57 |
| RD-54A | SMRD-54A-GW090210 | Ba-137m | Suspended | 0.002 U | 0.68 | 0.2 | 0.32 |
| RD-54A | SMRD-54A-GW090210 | Ba-137m | Total | 0.27 | NA | 0.41 | NA |
| RD-54A | SMRD-54A-GW090210 | Bi-212 | Filtered | 0.0001 U | 12 | 3.3 | 5.5 |
| RD-54A | SMRD-54A-GW090210 | Bi-212 | Suspended | 1.2 U | 6.7 | 2 | 3.2 |
| RD-54A | SMRD-54A-GW090210 | Bi-212 | Total | 1.2 | NA | 3.9 | NA |
| RD-54A | SMRD-54A-GW090210 | Bi-214 | Filtered | -1.3 U | 3.1 | 2 | 1.5 |
| RD-54A | SMRD-54A-GW090210 | Bi-214 | Suspended | 0.72 U | 1.9 | 0.71 | 0.91 |
| RD-54A | SMRD-54A-GW090210 | Bi-214 | Total | -0.6 | NA | 2.1 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-54A | SMRD-54A-GW090210 | Cd-113m | Filtered | 1600 U | 15000 | 4400 | 7200 |
| RD-54A | SMRD-54A-GW090210 | Cd-113m | Suspended | 70 U | 7300 | 2100 | 3500 |
| RD-54A | SMRD-54A-GW090210 | Cd-113m | Total | 1600 | NA | 4900 | NA |
| RD-54A | SMRD-54A-GW090210 | Cf-249 | Filtered | -0.08 U R | 5.7 | 1.6 | 2.7 |
| RD-54A | SMRD-54A-GW090210 | Cf-249 | Suspended | 0.78 U B | 2.6 | 0.78 | 1.3 |
| RD-54A | SMRD-54A-GW090210 | Cf-249 | Total | 0.7 B R | NA | 1.8 | NA |
| RD-54A | SMRD-54A-GW090210 | Co-60 | Filtered | 0.18 U | 1.6 | 0.44 | 0.71 |
| RD-54A | SMRD-54A-GW090210 | Co-60 | Suspended | -0.04 U | 0.72 | 0.2 | 0.33 |
| RD-54A | SMRD-54A-GW090210 | Co-60 | Total | 0.14 | NA | 0.49 | NA |
| RD-54A | SMRD-54A-GW090210 | Cs-134 | Filtered | -0.07 U | 1.9 | 0.54 | 0.89 |
| RD-54A | SMRD-54A-GW090210 | Cs-134 | Suspended | 0.01 U | 0.87 | 0.25 | 0.42 |
| RD-54A | SMRD-54A-GW090210 | Cs-134 | Total | -0.06 | NA | 0.6 | NA |
| RD-54A | SMRD-54A-GW090210 | Cs-137 | Filtered | 0.29 U | 1.3 | 0.38 | 0.6 |
| RD-54A | SMRD-54A-GW090210 | Cs-137 | Suspended | 0.002 U | 0.72 | 0.21 | 0.34 |
| RD-54A | SMRD-54A-GW090210 | Cs-137 | Total | 0.29 | NA | 0.43 | NA |
| RD-54A | SMRD-54A-GW090210 | Eu-152 | Filtered | 1.01 U | 3 | 0.9 | 1.4 |
| RD-54A | SMRD-54A-GW090210 | Eu-152 | Suspended | -0.43 U | 2 | 0.58 | 0.95 |
| RD-54A | SMRD-54A-GW090210 | Eu-152 | Total | 0.6 | NA | 1.1 | NA |
| RD-54A | SMRD-54A-GW090210 | Eu-154 | Filtered | -0.007 U | 13 | 3.8 | 6.3 |
| RD-54A | SMRD-54A-GW090210 | Eu-154 | Suspended | -0.6 U | 6.8 | 2 | 3.2 |
| RD-54A | SMRD-54A-GW090210 | Eu-154 | Total | -0.6 | NA | 4.3 | NA |
| RD-54A | SMRD-54A-GW090210 | Eu-155 | Filtered | 1.04 U | 3.2 | 0.96 | 1.5 |
| RD-54A | SMRD-54A-GW090210 | Eu-155 | Suspended | 0.1 U | 1.3 | 0.38 | 0.63 |
| RD-54A | SMRD-54A-GW090210 | Eu-155 | Total | 1.1 | NA | 1 | NA |
| RD-54A | SMRD-54A-GW090210 | gross_alpha | Filtered | 5.19 | 0.41 | 0.45 | 0.21 |
| RD-54A | SMRD-54A-GW090210 | gross_alpha | Suspended | 0.33 U | 0.62 | 0.19 | 0.34 |
| RD-54A | SMRD-54A-GW090210 | gross_alpha | Total | 5.52 | NA | 0.49 | NA |
| RD-54A | SMRD-54A-GW090210 | gross_beta | Filtered | 7.04 | 1.3 | 0.69 | 0.75 |
| RD-54A | SMRD-54A-GW090210 | gross_beta | Suspended | 0.1 U | 0.82 | 0.24 | 0.49 |
| RD-54A | SMRD-54A-GW090210 | gross_beta | Total | 7.14 | NA | 0.73 | NA |
| RD-54A | SMRD-54A-GW090210 | H-3 | Filtered | 19 U | 130 | 39 | 64 |
| RD-54A | SMRD-54A-GW090210 | H-3 | Suspended | -3.4 U R | 23 | 5.9 | 10 |
| RD-54A | SMRD-54A-GW090210 | H-3 | Total | 15 R | NA | 40 | NA |
| RD-54A | SMRD-54A-GW090210 | Ho-166m | Filtered | -0.62 U | 2.4 | 0.7 | 1.1 |
| RD-54A | SMRD-54A-GW090210 | Ho-166m | Suspended | -0.008 U | 1.1 | 0.32 | 0.53 |
| RD-54A | SMRD-54A-GW090210 | Ho-166m | Total | -0.63 | NA | 0.77 | NA |
| RD-54A | SMRD-54A-GW090210 | K-40 | Filtered | 11.9 | 18 | 5.5 | 8 |
| RD-54A | SMRD-54A-GW090210 | K-40 | Suspended | -2.1 U | 12 | 3.2 | 5.7 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-54A | SMRD-54A-GW090210 | K-40 | Total | 9.8 | NA | 6.4 | NA |
| RD-54A | SMRD-54A-GW090210 | Na-22 | Filtered | 0.005 U | 1.7 | 0.48 | 0.79 |
| RD-54A | SMRD-54A-GW090210 | Na-22 | Suspended | 0.02 U | 0.83 | 0.24 | 0.39 |
| RD-54A | SMRD-54A-GW090210 | Na-22 | Total | 0.02 | NA | 0.53 | NA |
| RD-54A | SMRD-54A-GW090210 | Nb-94 | Filtered | 0.46 U | 1.2 | 0.36 | 0.56 |
| RD-54A | SMRD-54A-GW090210 | Nb-94 | Suspended | 0 U | 0.79 | 0.23 | 0.38 |
| RD-54A | SMRD-54A-GW090210 | Nb-94 | Total | 0.46 | NA | 0.43 | NA |
| RD-54A | SMRD-54A-GW090210 | Np-236 | Filtered | 0.002 U | 2.6 | 0.77 | 1.3 |
| RD-54A | SMRD-54A-GW090210 | Np-236 | Suspended | 0.23 U | 1.2 | 0.36 | 0.59 |
| RD-54A | SMRD-54A-GW090210 | Np-236 | Total | 0.23 | NA | 0.85 | NA |
| RD-54A | SMRD-54A-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-54A | SMRD-54A-GW090210 | Np-239 | Filtered | 1 U | 7.5 | 2.2 | 3.6 |
| RD-54A | SMRD-54A-GW090210 | Np-239 | Suspended | 0.8 U | 3.6 | 1.1 | 1.8 |
| RD-54A | SMRD-54A-GW090210 | Np-239 | Total | 1.8 | NA | 2.5 | NA |
| RD-54A | SMRD-54A-GW090210 | Pa-231 | Filtered | 23 U | 54 | 16 | 26 |
| RD-54A | SMRD-54A-GW090210 | Pa-231 | Suspended | 5.8 U | 27 | 7.9 | 13 |
| RD-54A | SMRD-54A-GW090210 | Pa-231 | Total | 29 | NA | 18 | NA |
| RD-54A | SMRD-54A-GW090210 | Pb-212 | Filtered | 1.31 | 2.6 | 0.94 | 1.2 |
| RD-54A | SMRD-54A-GW090210 | Pb-212 | Suspended | -0.1 U | 1.2 | 0.4 | 0.6 |
| RD-54A | SMRD-54A-GW090210 | Pb-212 | Total | 1.2 | NA | 1 | NA |
| RD-54A | SMRD-54A-GW090210 | Pb-214 | Filtered | -1.4 U | 3.1 | 3.5 | 1.5 |
| RD-54A | SMRD-54A-GW090210 | Pb-214 | Suspended | -0.3 U | 1.4 | 0.48 | 0.67 |
| RD-54A | SMRD-54A-GW090210 | Pb-214 | Total | -1.7 | NA | 3.5 | NA |
| RD-54A | SMRD-54A-GW090210 | Sb-125 | Filtered | -1.6 U | 14 | 4.1 | 6.8 |
| RD-54A | SMRD-54A-GW090210 | Sb-125 | Suspended | 0.8 U | 6.4 | 1.9 | 3.1 |
| RD-54A | SMRD-54A-GW090210 | Sb-125 | Total | -0.9 | NA | 4.6 | NA |
| RD-54A | SMRD-54A-GW090210 | Sn-126 | Filtered | -0.22 U | 1.5 | 0.43 | 0.7 |
| RD-54A | SMRD-54A-GW090210 | Sn-126 | Suspended | 0.14 U | 0.8 | 0.24 | 0.38 |
| RD-54A | SMRD-54A-GW090210 | Sn-126 | Total | -0.08 | NA | 0.49 | NA |
| RD-54A | SMRD-54A-GW090210 | Sr-90 | Filtered | -0.029 U | 0.12 | 0.035 | 0.071 |
| RD-54A | SMRD-54A-GW090210 | Sr-90 | Suspended | -0.004 U | 0.11 | 0.031 | 0.062 |
| RD-54A | SMRD-54A-GW090210 | Sr-90 | Total | -0.033 | NA | 0.047 | NA |
| RD-54A | SMRD-54A-GW090210 | Te-125m | Filtered | -0.38 U | 3.2 | 0.96 | 1.6 |
| RD-54A | SMRD-54A-GW090210 | Te-125m | Suspended | 0.18 U | 1.5 | 0.44 | 0.72 |
| RD-54A | SMRD-54A-GW090210 | Te-125m | Total | -0.2 | NA | 1.1 | NA |
| RD-54A | SMRD-54A-GW090210 | Th-231 | Filtered | 0.133 | 0.018 | 0.019 | 0.006 |
| RD-54A | SMRD-54A-GW090210 | Th-231 | Suspended | 0.0054 U | 0.0073 | 0.0038 | 0.0063 |
| RD-54A | SMRD-54A-GW090210 | Th-231 | Total | 0.139 | NA | 0.02 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-54A | SMRD-54A-GW090210 | Th-234 | Filtered | 12.3 | 21 | 6.7 | 10 |
| RD-54A | SMRD-54A-GW090210 | Th-234 | Suspended | 2.6 U | 9.1 | 3 | 4.4 |
| RD-54A | SMRD-54A-GW090210 | Th-234 | Total | 15 | NA | 7.3 | NA |
| RD-54A | SMRD-54A-GW090210 | Tl-208 | Filtered | -0.44 U | 1.8 | 0.89 | 0.85 |
| RD-54A | SMRD-54A-GW090210 | Tl-208 | Suspended | 0.89 | 0.89 | 0.36 | 0.43 |
| RD-54A | SMRD-54A-GW090210 | Tl-208 | Total | 0.45 | NA | 0.96 | NA |
| RD-54A | SMRD-54A-GW090210 | Tm-171 | Filtered | 110 U | 360 | 110 | 170 |
| RD-54A | SMRD-54A-GW090210 | Tm-171 | Suspended | 12 U | 130 | 40 | 65 |
| RD-54A | SMRD-54A-GW090210 | Tm-171 | Total | 120 | NA | 110 | NA |
| RD-54A | SMRD-54A-GW090210 | U-233/234 | Filtered | 3.74 | 0.01 | 0.18 | 0.005 |
| RD-54A | SMRD-54A-GW090210 | U-233/234 | Suspended | 0.0237 | 0.016 | 0.0093 | 0.005 |
| RD-54A | SMRD-54A-GW090210 | U-233/234 | Total | 3.77 | NA | 0.18 | NA |
| RD-54A | SMRD-54A-GW090210 | U-235/236 | Filtered | 0.133 | 0.018 | 0.019 | 0.006 |
| RD-54A | SMRD-54A-GW090210 | U-235/236 | Suspended | 0.0054 U | 0.0073 | 0.0038 | 0.0063 |
| RD-54A | SMRD-54A-GW090210 | U-235/236 | Total | 0.139 | NA | 0.02 | NA |
| RD-54A | SMRD-54A-GW090210 | U-238 | Filtered | 2.76 | 0.005 | 0.14 | 0.005 |
| RD-54A | SMRD-54A-GW090210 | U-238 | Suspended | 0.0243 | 0.016 | 0.009 | 0.005 |
| RD-54A | SMRD-54A-GW090210 | U-238 | Total | 2.79 | NA | 0.14 | NA |
| RD-54B | SMRD-054B-GW083110 | Ac-227 | Filtered | -3.6 U | 9.6 | 2.9 | 4.7 |
| RD-54B | SMRD-054B-GW083110 | Ac-227 | Suspended | -2 U | 4.2 | 1.3 | 2 |
| RD-54B | SMRD-054B-GW083110 | Ac-227 | Total | -5.6 | NA | 3.2 | NA |
| RD-54B | SMRD-054B-GW083110 | Ac-228 | Filtered | 2.7 | 4.7 | 1.4 | 2.1 |
| RD-54B | SMRD-054B-GW083110 | Ac-228 | Suspended | 0.55 U | 2.3 | 0.66 | 1 |
| RD-54B | SMRD-054B-GW083110 | Ac-228 | Total | 3.2 | NA | 1.6 | NA |
| RD-54B | SMRD-054B-GW083110 | Ag-108 | Filtered | -0.01 U R | 0.095 | 0.028 | 0.045 |
| RD-54B | SMRD-054B-GW083110 | Ag-108 | Suspended | 0.007 U R | 0.044 | 0.013 | 0.021 |
| RD-54B | SMRD-054B-GW083110 | Ag-108 | Total | -0.003 R | NA | 0.03 | NA |
| RD-54B | SMRD-054B-GW083110 | Ag-108m | Filtered | -0.1 U R | 1 | 0.3 | 0.48 |
| RD-54B | SMRD-054B-GW083110 | Ag-108m | Suspended | 0.07 U R | 0.47 | 0.14 | 0.22 |
| RD-54B | SMRD-054B-GW083110 | Ag-108m | Total | -0.03 R | NA | 0.33 | NA |
| RD-54B | SMRD-054B-GW083110 | Ba-133 | Filtered | 3.5 U R | 13 | 3.7 | 6 |
| RD-54B | SMRD-054B-GW083110 | Ba-133 | Suspended | 1.3 U R | 5.7 | 1.7 | 2.7 |
| RD-54B | SMRD-054B-GW083110 | Ba-133 | Total | 4.8 R | NA | 4.1 | NA |
| RD-54B | SMRD-054B-GW083110 | Ba-137m | Filtered | 0.46 U | 1.3 | 0.38 | 0.59 |
| RD-54B | SMRD-054B-GW083110 | Ba-137m | Suspended | 0.17 U | 0.6 | 0.19 | 0.28 |
| RD-54B | SMRD-054B-GW083110 | Ba-137m | Total | 0.63 | NA | 0.43 | NA |
| RD-54B | SMRD-054B-GW083110 | Bi-212 | Filtered | 2.8 U | 9.4 | 2.8 | 4.3 |
| RD-54B | SMRD-054B-GW083110 | Bi-212 | Suspended | 1.6 U | 5.8 | 1.7 | 2.7 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-54B | SMRD-054B-GW083110 | Bi-212 | Total | 4.3 | NA | 3.3 | NA |
| RD-54B | SMRD-054B-GW083110 | Bi-214 | Filtered | -0.7 U | 3.2 | 1.3 | 1.5 |
| RD-54B | SMRD-054B-GW083110 | Bi-214 | Suspended | -0.51 U | 1.6 | 0.83 | 0.78 |
| RD-54B | SMRD-054B-GW083110 | Bi-214 | Total | -1.2 | NA | 1.5 | NA |
| RD-54B | SMRD-054B-GW083110 | Cd-113m | Filtered | 2900 U | 14000 | 4100 | 6500 |
| RD-54B | SMRD-054B-GW083110 | Cd-113m | Suspended | -1000 U | 7100 | 2100 | 3400 |
| RD-54B | SMRD-054B-GW083110 | Cd-113m | Total | 1900 | NA | 4600 | NA |
| RD-54B | SMRD-054B-GW083110 | Cf-249 | Filtered | 0.2 U R | 5.4 | 1.6 | 2.6 |
| RD-54B | SMRD-054B-GW083110 | Cf-249 | Suspended | -0.24 U R | 3.1 | 0.92 | 1.5 |
| RD-54B | SMRD-054B-GW083110 | Cf-249 | Total | -0.04 R | NA | 1.8 | NA |
| RD-54B | SMRD-054B-GW083110 | Co-60 | Filtered | 0.24 U | 1.6 | 0.45 | 0.71 |
| RD-54B | SMRD-054B-GW083110 | Co-60 | Suspended | -0.08 U | 0.83 | 0.23 | 0.38 |
| RD-54B | SMRD-054B-GW083110 | Co-60 | Total | 0.17 | NA | 0.51 | NA |
| RD-54B | SMRD-054B-GW083110 | Cs-134 | Filtered | -0.28 U | 1.5 | 0.45 | 0.73 |
| RD-54B | SMRD-054B-GW083110 | Cs-134 | Suspended | -0.26 U | 0.82 | 0.25 | 0.39 |
| RD-54B | SMRD-054B-GW083110 | Cs-134 | Total | -0.53 SK | NA | 0.51 | NA |
| RD-54B | SMRD-054B-GW083110 | Cs-137 | Filtered | 0.49 U | 1.3 | 0.4 | 0.63 |
| RD-54B | SMRD-054B-GW083110 | Cs-137 | Suspended | 0.17 U | 0.63 | 0.2 | 0.3 |
| RD-54B | SMRD-054B-GW083110 | Cs-137 | Total | 0.66 | NA | 0.45 | NA |
| RD-54B | SMRD-054B-GW083110 | Eu-152 | Filtered | 0.6 U | 3.8 | 1.1 | 1.8 |
| RD-54B | SMRD-054B-GW083110 | Eu-152 | Suspended | 0.1 U | 2 | 0.58 | 0.95 |
| RD-54B | SMRD-054B-GW083110 | Eu-152 | Total | 0.7 | NA | 1.3 | NA |
| RD-54B | SMRD-054B-GW083110 | Eu-154 | Filtered | -0.8 U | 12 | 3.3 | 5.4 |
| RD-54B | SMRD-054B-GW083110 | Eu-154 | Suspended | 0.05 U | 5.7 | 1.6 | 2.7 |
| RD-54B | SMRD-054B-GW083110 | Eu-154 | Total | -0.8 | NA | 3.7 | NA |
| RD-54B | SMRD-054B-GW083110 | Eu-155 | Filtered | 0.2 U | 3.3 | 0.97 | 1.6 |
| RD-54B | SMRD-054B-GW083110 | Eu-155 | Suspended | 0.3 U | 1.2 | 0.37 | 0.6 |
| RD-54B | SMRD-054B-GW083110 | Eu-155 | Total | 0.5 SK | NA | 1 | NA |
| RD-54B | SMRD-054B-GW083110 | gross_alpha | Filtered | 0.59 | 0.43 | 0.17 | 0.23 |
| RD-54B | SMRD-054B-GW083110 | gross_alpha | Suspended | 0.64 | 0.41 | 0.18 | 0.21 |
| RD-54B | SMRD-054B-GW083110 | gross_alpha | Total | 1.23 | NA | 0.25 | NA |
| RD-54B | SMRD-054B-GW083110 | gross_beta | Filtered | 2.46 | 1.9 | 0.68 | 1.1 |
| RD-54B | SMRD-054B-GW083110 | gross_beta | Suspended | 0.33 U | 0.81 | 0.25 | 0.48 |
| RD-54B | SMRD-054B-GW083110 | gross_beta | Total | 2.79 | NA | 0.73 | NA |
| RD-54B | SMRD-054B-GW083110 | H-3 | Filtered | 11 U | 130 | 38 | 63 |
| RD-54B | SMRD-054B-GW083110 | H-3 | Suspended | -4.8 U R | 21 | 5.3 | 9.3 |
| RD-54B | SMRD-054B-GW083110 | H-3 | Total | 6 R | NA | 39 | NA |
| RD-54B | SMRD-054B-GW083110 | Ho-166m | Filtered | 0.5 U | 2.2 | 0.63 | 1 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-54B | SMRD-054B-GW083110 | Ho-166m | Suspended | -0.23 U | 1.2 | 0.35 | 0.57 |
| RD-54B | SMRD-054B-GW083110 | Ho-166m | Total | 0.27 SK | NA | 0.72 | NA |
| RD-54B | SMRD-054B-GW083110 | K-40 | Filtered | 0 U | 13 | 3.4 | 5.5 |
| RD-54B | SMRD-054B-GW083110 | K-40 | Suspended | -4.7 U | 11 | 6.5 | 5.2 |
| RD-54B | SMRD-054B-GW083110 | K-40 | Total | -4.7 | NA | 7.3 | NA |
| RD-54B | SMRD-054B-GW083110 | Na-22 | Filtered | 0 U | 1.9 | 0.53 | 0.88 |
| RD-54B | SMRD-054B-GW083110 | Na-22 | Suspended | 0.07 U | 0.84 | 0.24 | 0.38 |
| RD-54B | SMRD-054B-GW083110 | Na-22 | Total | 0.07 | NA | 0.58 | NA |
| RD-54B | SMRD-054B-GW083110 | Nb-94 | Filtered | 0.14 U | 1.1 | 0.3 | 0.49 |
| RD-54B | SMRD-054B-GW083110 | Nb-94 | Suspended | 0.03 U | 0.58 | 0.16 | 0.27 |
| RD-54B | SMRD-054B-GW083110 | Nb-94 | Total | 0.17 | NA | 0.34 | NA |
| RD-54B | SMRD-054B-GW083110 | Np-236 | Filtered | -0.94 U | 2.7 | 0.83 | 1.3 |
| RD-54B | SMRD-054B-GW083110 | Np-236 | Suspended | -0.17 U | 1.3 | 0.38 | 0.62 |
| RD-54B | SMRD-054B-GW083110 | Np-236 | Total | -1.1 SK | NA | 0.91 | NA |
| RD-54B | SMRD-054B-GW083110 | Np-239 | Filtered | 5.2 | 7 | 2.2 | 3.4 |
| RD-54B | SMRD-054B-GW083110 | Np-239 | Suspended | -0.8 U | 3.6 | 1.1 | 1.7 |
| RD-54B | SMRD-054B-GW083110 | Np-239 | Total | 4.4 | NA | 2.4 | NA |
| RD-54B | SMRD-054B-GW083110 | Pa-231 | Filtered | 0.07 U | 50 | 15 | 24 |
| RD-54B | SMRD-054B-GW083110 | Pa-231 | Suspended | 6.6 U | 25 | 7.4 | 12 |
| RD-54B | SMRD-054B-GW083110 | Pa-231 | Total | 7 | NA | 16 | NA |
| RD-54B | SMRD-054B-GW083110 | Pb-212 | Filtered | 0.59 U | 2.6 | 0.95 | 1.3 |
| RD-54B | SMRD-054B-GW083110 | Pb-212 | Suspended | 2.15 | 1.1 | 0.46 | 0.53 |
| RD-54B | SMRD-054B-GW083110 | Pb-212 | Total | 2.7 | NA | 1.1 | NA |
| RD-54B | SMRD-054B-GW083110 | Pb-214 | Filtered | -1.2 U | 3.1 | 2.6 | 1.5 |
| RD-54B | SMRD-054B-GW083110 | Pb-214 | Suspended | -1.2 U | 1.5 | 1.6 | 0.7 |
| RD-54B | SMRD-054B-GW083110 | Pb-214 | Total | -2.4 | NA | 3.1 | NA |
| RD-54B | SMRD-054B-GW083110 | Sb-125 | Filtered | -0.1 U | 14 | 4 | 6.5 |
| RD-54B | SMRD-054B-GW083110 | Sb-125 | Suspended | -0.4 U | 6.6 | 1.9 | 3.2 |
| RD-54B | SMRD-054B-GW083110 | Sb-125 | Total | -0.5 SK | NA | 4.4 | NA |
| RD-54B | SMRD-054B-GW083110 | Sn-126 | Filtered | -0.05 U | 1.3 | 0.35 | 0.58 |
| RD-54B | SMRD-054B-GW083110 | Sn-126 | Suspended | 0.03 U | 0.81 | 0.23 | 0.38 |
| RD-54B | SMRD-054B-GW083110 | Sn-126 | Total | -0.02 | NA | 0.42 | NA |
| RD-54B | SMRD-054B-GW083110 | Sr-90 | Filtered | 0.097 | 0.16 | 0.051 | 0.097 |
| RD-54B | SMRD-054B-GW083110 | Sr-90 | Suspended | 0.026 U | 0.11 | 0.033 | 0.063 |
| RD-54B | SMRD-054B-GW083110 | Sr-90 | Total | 0.123 | NA | 0.061 | NA |
| RD-54B | SMRD-054B-GW083110 | Te-125m | Filtered | -0.03 U | 3.1 | 0.92 | 1.5 |
| RD-54B | SMRD-054B-GW083110 | Te-125m | Suspended | -0.08 U | 1.5 | 0.45 | 0.74 |
| RD-54B | SMRD-054B-GW083110 | Te-125m | Total | -0.1 SK | NA | 1 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-54B | SMRD-054B-GW083110 | Th-231 | Filtered | 0.0054 U | 0.0073 | 0.0038 | 0.0063 |
| RD-54B | SMRD-054B-GW083110 | Th-231 | Suspended | 0.0014 U | 0.034 | 0.0064 | 0.011 |
| RD-54B | SMRD-054B-GW083110 | Th-231 | Total | 0.0068 | NA | 0.0074 | NA |
| RD-54B | SMRD-054B-GW083110 | Th-234 | Filtered | 15.6 | 25 | 9.5 | 12 |
| RD-54B | SMRD-054B-GW083110 | Th-234 | Suspended | -0.7 U | 7 | 2.1 | 3.4 |
| RD-54B | SMRD-054B-GW083110 | Th-234 | Total | 14.9 | NA | 9.7 | NA |
| RD-54B | SMRD-054B-GW083110 | Tl-208 | Filtered | 1.1 | 1.6 | 0.61 | 0.76 |
| RD-54B | SMRD-054B-GW083110 | Tl-208 | Suspended | 0.31 U | 0.88 | 0.25 | 0.42 |
| RD-54B | SMRD-054B-GW083110 | Tl-208 | Total | 1.41 | NA | 0.66 | NA |
| RD-54B | SMRD-054B-GW083110 | Tm-171 | Filtered | -50 U | 350 | 110 | 170 |
| RD-54B | SMRD-054B-GW083110 | Tm-171 | Suspended | -45 U | 130 | 38 | 62 |
| RD-54B | SMRD-054B-GW083110 | Tm-171 | Total | -90 | NA | 110 | NA |
| RD-54B | SMRD-054B-GW083110 | U-233/234 | Filtered | 0.054 | 0.016 | 0.013 | 0.005 |
| RD-54B | SMRD-054B-GW083110 | U-233/234 | Suspended | 0.023 | 0.04 | 0.015 | 0.017 |
| RD-54B | SMRD-054B-GW083110 | U-233/234 | Total | 0.078 | NA | 0.02 | NA |
| RD-54B | SMRD-054B-GW083110 | U-235/236 | Filtered | 0.0054 U | 0.0073 | 0.0038 | 0.0063 |
| RD-54B | SMRD-054B-GW083110 | U-235/236 | Suspended | 0.0014 U | 0.034 | 0.0064 | 0.011 |
| RD-54B | SMRD-054B-GW083110 | U-235/236 | Total | 0.0068 | NA | 0.0075 | NA |
| RD-54B | SMRD-054B-GW083110 | U-238 | Filtered | 0.037 | 0.02 | 0.011 | 0.007 |
| RD-54B | SMRD-054B-GW083110 | U-238 | Suspended | 0.033 | 0.031 | 0.015 | 0.011 |
| RD-54B | SMRD-054B-GW083110 | U-238 | Total | 0.07 | NA | 0.018 | NA |
| RD-54C | SMRD-054C-GW090110 | Ac-227 | Filtered | -3.6 U | 8.7 | 2.6 | 4.2 |
| RD-54C | SMRD-054C-GW090110 | Ac-227 | Suspended | 0.2 U | 6.4 | 1.9 | 3.1 |
| RD-54C | SMRD-054C-GW090110 | Ac-227 | Total | -3.4 | NA | 3.2 | NA |
| RD-54C | SMRD-054C-GW090110 | Ac-228 | Filtered | 5.5 | 3.6 | 1.1 | 1.7 |
| RD-54C | SMRD-054C-GW090110 | Ac-228 | Suspended | 1.26 B | 2.6 | 0.79 | 1.2 |
| RD-54C | SMRD-054C-GW090110 | Ac-228 | Total | 6.8 | NA | 1.3 | NA |
| RD-54C | SMRD-054C-GW090110 | Ag-108 | Filtered | 0.015 U R | 0.091 | 0.027 | 0.043 |
| RD-54C | SMRD-054C-GW090110 | Ag-108 | Suspended | 0.001 U R | 0.063 | 0.018 | 0.03 |
| RD-54C | SMRD-054C-GW090110 | Ag-108 | Total | 0.016 R | NA | 0.032 | NA |
| RD-54C | SMRD-054C-GW090110 | Ag-108m | Filtered | 0.16 U R | 0.97 | 0.29 | 0.47 |
| RD-54C | SMRD-054C-GW090110 | Ag-108m | Suspended | 0.01 U R | 0.67 | 0.2 | 0.33 |
| RD-54C | SMRD-054C-GW090110 | Ag-108m | Total | 0.17 R | NA | 0.35 | NA |
| RD-54C | SMRD-054C-GW090110 | Ba-133 | Filtered | -2 U R | 13 | 3.8 | 6.2 |
| RD-54C | SMRD-054C-GW090110 | Ba-133 | Suspended | 0.01 U R | 6.1 | 1.8 | 3 |
| RD-54C | SMRD-054C-GW090110 | Ba-133 | Total | -2 R | NA | 4.2 | NA |
| RD-54C | SMRD-054C-GW090110 | Ba-137m | Filtered | 0.003 U | 1.2 | 0.34 | 0.56 |
| RD-54C | SMRD-054C-GW090110 | Ba-137m | Suspended | -0.02 U | 0.84 | 0.25 | 0.41 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-54C | SMRD-054C-GW090110 | Ba-137m | Total | -0.02 | NA | 0.42 | NA |
| RD-54C | SMRD-054C-GW090110 | Bi-212 | Filtered | 8.5 | 8.7 | 3.4 | 4.1 |
| RD-54C | SMRD-054C-GW090110 | Bi-212 | Suspended | 2 U | 6.6 | 1.9 | 3.1 |
| RD-54C | SMRD-054C-GW090110 | Bi-212 | Total | 10.5 | NA | 3.8 | NA |
| RD-54C | SMRD-054C-GW090110 | Bi-214 | Filtered | 1.1 U | 3 | 1 | 1.4 |
| RD-54C | SMRD-054C-GW090110 | Bi-214 | Suspended | 0.87 U | 1.9 | 0.79 | 0.93 |
| RD-54C | SMRD-054C-GW090110 | Bi-214 | Total | 2 | NA | 1.3 | NA |
| RD-54C | SMRD-054C-GW090110 | Cd-113m | Filtered | -2700 U | 15000 | 4400 | 7200 |
| RD-54C | SMRD-054C-GW090110 | Cd-113m | Suspended | -1900 U | 7900 | 2400 | 3800 |
| RD-54C | SMRD-054C-GW090110 | Cd-113m | Total | -4600 | NA | 5000 | NA |
| RD-54C | SMRD-054C-GW090110 | Cf-249 | Filtered | -1.2 U R | 5.9 | 1.8 | 2.9 |
| RD-54C | SMRD-054C-GW090110 | Cf-249 | Suspended | 0.13 U R | 3.2 | 0.94 | 1.5 |
| RD-54C | SMRD-054C-GW090110 | Cf-249 | Total | -1.1 R | NA | 2 | NA |
| RD-54C | SMRD-054C-GW090110 | Co-60 | Filtered | 0.18 U | 1.2 | 0.34 | 0.54 |
| RD-54C | SMRD-054C-GW090110 | Co-60 | Suspended | 0 U | 0.9 | 0.26 | 0.42 |
| RD-54C | SMRD-054C-GW090110 | Co-60 | Total | 0.18 | NA | 0.42 | NA |
| RD-54C | SMRD-054C-GW090110 | Cs-134 | Filtered | 0.26 U | 1.5 | 0.44 | 0.72 |
| RD-54C | SMRD-054C-GW090110 | Cs-134 | Suspended | -0.32 U | 0.96 | 0.29 | 0.46 |
| RD-54C | SMRD-054C-GW090110 | Cs-134 | Total | -0.05 SK | NA | 0.53 | NA |
| RD-54C | SMRD-054C-GW090110 | Cs-137 | Filtered | 0.003 U | 1.2 | 0.36 | 0.59 |
| RD-54C | SMRD-054C-GW090110 | Cs-137 | Suspended | -0.03 U | 0.89 | 0.26 | 0.43 |
| RD-54C | SMRD-054C-GW090110 | Cs-137 | Total | -0.02 | NA | 0.45 | NA |
| RD-54C | SMRD-054C-GW090110 | Eu-152 | Filtered | 0.02 U | 2.5 | 0.72 | 1.2 |
| RD-54C | SMRD-054C-GW090110 | Eu-152 | Suspended | -0.06 U | 1.9 | 0.56 | 0.92 |
| RD-54C | SMRD-054C-GW090110 | Eu-152 | Total | -0.03 | NA | 0.91 | NA |
| RD-54C | SMRD-054C-GW090110 | Eu-154 | Filtered | -2.8 U | 10 | 3.1 | 4.9 |
| RD-54C | SMRD-054C-GW090110 | Eu-154 | Suspended | -0.4 U | 4.7 | 1.4 | 2.2 |
| RD-54C | SMRD-054C-GW090110 | Eu-154 | Total | -3.2 | NA | 3.4 | NA |
| RD-54C | SMRD-054C-GW090110 | Eu-155 | Filtered | -0.07 U | 3.5 | 1 | 1.7 |
| RD-54C | SMRD-054C-GW090110 | Eu-155 | Suspended | 0.35 U | 1.4 | 0.41 | 0.67 |
| RD-54C | SMRD-054C-GW090110 | Eu-155 | Total | 0.3 SK | NA | 1.1 | NA |
| RD-54C | SMRD-054C-GW090110 | gross_alpha | Filtered | 0.39 | 0.42 | 0.15 | 0.22 |
| RD-54C | SMRD-054C-GW090110 | gross_alpha | Suspended | 0.51 | 0.46 | 0.17 | 0.24 |
| RD-54C | SMRD-054C-GW090110 | gross_alpha | Total | 0.89 | NA | 0.23 | NA |
| RD-54C | SMRD-054C-GW090110 | gross_beta | Filtered | 3.31 | 1.3 | 0.55 | 0.78 |
| RD-54C | SMRD-054C-GW090110 | gross_beta | Suspended | 0.07 U | 0.75 | 0.21 | 0.44 |
| RD-54C | SMRD-054C-GW090110 | gross_beta | Total | 3.38 | NA | 0.59 | NA |
| RD-54C | SMRD-054C-GW090110 | H-3 | Filtered | -41 U | 140 | 42 | 70 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|-------|----------------|
| RD-54C | SMRD-054C-GW090110 | H-3 | Suspended | -16.9 R U | 24 | 5.3 | 11 |
| RD-54C | SMRD-054C-GW090110 | H-3 | Total | -57 R | NA | 43 | NA |
| RD-54C | SMRD-054C-GW090110 | Ho-166m | Filtered | 0.01 U | 2.1 | 0.62 | 1 |
| RD-54C | SMRD-054C-GW090110 | Ho-166m | Suspended | 0.008 U | 1.2 | 0.34 | 0.56 |
| RD-54C | SMRD-054C-GW090110 | Ho-166m | Total | 0.02 SK | NA | 0.71 | NA |
| RD-54C | SMRD-054C-GW090110 | K-40 | Filtered | 10.9 U | 24 | 7 | 12 |
| RD-54C | SMRD-054C-GW090110 | K-40 | Suspended | 9.9 | 14 | 3.9 | 6.8 |
| RD-54C | SMRD-054C-GW090110 | K-40 | Total | 20.9 | NA | 8.1 | NA |
| RD-54C | SMRD-054C-GW090110 | Na-22 | Filtered | 0.22 U | 1.4 | 0.4 | 0.64 |
| RD-54C | SMRD-054C-GW090110 | Na-22 | Suspended | 0.1 U | 0.66 | 0.19 | 0.3 |
| RD-54C | SMRD-054C-GW090110 | Na-22 | Total | 0.32 | NA | 0.44 | NA |
| RD-54C | SMRD-054C-GW090110 | Nb-94 | Filtered | 0.23 U | 1.1 | 0.33 | 0.53 |
| RD-54C | SMRD-054C-GW090110 | Nb-94 | Suspended | 0.04 U | 0.74 | 0.22 | 0.36 |
| RD-54C | SMRD-054C-GW090110 | Nb-94 | Total | 0.27 | NA | 0.4 | NA |
| RD-54C | SMRD-054C-GW090110 | Np-236 | Filtered | 0.08 U | 2.4 | 0.72 | 1.2 |
| RD-54C | SMRD-054C-GW090110 | Np-236 | Suspended | 0.72 SK | 1.3 | 0.38 | 0.61 |
| RD-54C | SMRD-054C-GW090110 | Np-236 | Total | 0.8 SK | NA | 0.82 | NA |
| RD-54C | SMRD-054C-GW090110 | Np-239 | Filtered | 1.1 U | 7.5 | 2.2 | 3.6 |
| RD-54C | SMRD-054C-GW090110 | Np-239 | Suspended | -1.1 U | 3.9 | 1.2 | 1.9 |
| RD-54C | SMRD-054C-GW090110 | Np-239 | Total | 0.07 | NA | 2.5 | NA |
| RD-54C | SMRD-054C-GW090110 | Pa-231 | Filtered | -8 U | 56 | 17 | 27 |
| RD-54C | SMRD-054C-GW090110 | Pa-231 | Suspended | -0.5 U | 29 | 8.4 | 14 |
| RD-54C | SMRD-054C-GW090110 | Pa-231 | Total | -8 | NA | 19 | NA |
| RD-54C | SMRD-054C-GW090110 | Pb-212 | Filtered | -0.6 U | 3.1 | 1.2 | 1.5 |
| RD-54C | SMRD-054C-GW090110 | Pb-212 | Suspended | 0.14 U | 1.5 | 0.44 | 0.73 |
| RD-54C | SMRD-054C-GW090110 | Pb-212 | Total | -0.4 | NA | 1.3 | NA |
| RD-54C | SMRD-054C-GW090110 | Pb-214 | Filtered | -0.6 U | 2.6 | 1.1 | 1.2 |
| RD-54C | SMRD-054C-GW090110 | Pb-214 | Suspended | 0.46 U | 1.6 | 0.61 | 0.77 |
| RD-54C | SMRD-054C-GW090110 | Pb-214 | Total | -0.1 | NA | 1.2 | NA |
| RD-54C | SMRD-054C-GW090110 | Sb-125 | Filtered | 2.8 U | 13 | 3.9 | 6.4 |
| RD-54C | SMRD-054C-GW090110 | Sb-125 | Suspended | -0.3 U | 7.1 | 2.1 | 3.4 |
| RD-54C | SMRD-054C-GW090110 | Sb-125 | Total | 2.5 SK | NA | 4.5 | NA |
| RD-54C | SMRD-054C-GW090110 | Sn-126 | Filtered | 0.32 U | 1.2 | 0.35 | 0.56 |
| RD-54C | SMRD-054C-GW090110 | Sn-126 | Suspended | 0.43 | 0.74 | 0.23 | 0.35 |
| RD-54C | SMRD-054C-GW090110 | Sn-126 | Total | 0.75 | NA | 0.42 | NA |
| RD-54C | SMRD-054C-GW090110 | Sr-90 | Filtered | 0.052 U | 0.11 | 0.034 | 0.064 |
| RD-54C | SMRD-054C-GW090110 | Sr-90 | Suspended | 0.036 U | 0.12 | 0.035 | 0.067 |
| RD-54C | SMRD-054C-GW090110 | Sr-90 | Total | 0.088 | NA | 0.049 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-54C | SMRD-054C-GW090110 | Te-125m | Filtered | 0.65 U | 3 | 0.91 | 1.5 |
| RD-54C | SMRD-054C-GW090110 | Te-125m | Suspended | -0.07 U | 1.6 | 0.48 | 0.79 |
| RD-54C | SMRD-054C-GW090110 | Te-125m | Total | 0.6 SK | NA | 1 | NA |
| RD-54C | SMRD-054C-GW090110 | Th-231 | Filtered | -0.0044 U | 0.029 | 0.0031 | 0.01 |
| RD-54C | SMRD-054C-GW090110 | Th-231 | Suspended | 0 U | 0.0089 | 0.0033 | 0.0076 |
| RD-54C | SMRD-054C-GW090110 | Th-231 | Total | -0.0044 | NA | 0.0045 | NA |
| RD-54C | SMRD-054C-GW090110 | Th-234 | Filtered | -1.4 U | 22 | 7.6 | 11 |
| RD-54C | SMRD-054C-GW090110 | Th-234 | Suspended | 3.7 U | 8.1 | 2.8 | 4 |
| RD-54C | SMRD-054C-GW090110 | Th-234 | Total | 2.3 | NA | 8.1 | NA |
| RD-54C | SMRD-054C-GW090110 | Tl-208 | Filtered | 0.64 U | 1.5 | 0.49 | 0.74 |
| RD-54C | SMRD-054C-GW090110 | Tl-208 | Suspended | -0.12 U | 1.1 | 0.32 | 0.52 |
| RD-54C | SMRD-054C-GW090110 | Tl-208 | Total | 0.53 | NA | 0.59 | NA |
| RD-54C | SMRD-054C-GW090110 | Tm-171 | Filtered | 40 U | 400 | 120 | 190 |
| RD-54C | SMRD-054C-GW090110 | Tm-171 | Suspended | -3 U | 170 | 50 | 82 |
| RD-54C | SMRD-054C-GW090110 | Tm-171 | Total | 40 | NA | 130 | NA |
| RD-54C | SMRD-054C-GW090110 | U-233/234 | Filtered | 0.021 K | 0.034 | 0.011 | 0.014 |
| RD-54C | SMRD-054C-GW090110 | U-233/234 | Suspended | 0.0369 | 0.0071 | 0.01 | 0.0061 |
| RD-54C | SMRD-054C-GW090110 | U-233/234 | Total | 0.058 | NA | 0.015 | NA |
| RD-54C | SMRD-054C-GW090110 | U-235/236 | Filtered | -0.0044 U | 0.029 | 0.0031 | 0.01 |
| RD-54C | SMRD-054C-GW090110 | U-235/236 | Suspended | 0 U | 0.0089 | 0.0033 | 0.0076 |
| RD-54C | SMRD-054C-GW090110 | U-235/236 | Total | -0.0044 | NA | 0.0045 | NA |
| RD-54C | SMRD-054C-GW090110 | U-238 | Filtered | 0.002 U | 0.057 | 0.015 | 0.028 |
| RD-54C | SMRD-054C-GW090110 | U-238 | Suspended | 0.0184 | 0.019 | 0.0079 | 0.0061 |
| RD-54C | SMRD-054C-GW090110 | U-238 | Total | 0.02 | NA | 0.017 | NA |
| RD-56A | SMRD-56A-GW082610 | Ac-227 | Filtered | -3 U | 9 | 2.7 | 4.3 |
| RD-56A | SMRD-56A-GW082610 | Ac-227 | Suspended | -0.1 U | 3.6 | 1.1 | 1.7 |
| RD-56A | SMRD-56A-GW082610 | Ac-227 | Total | -3.1 | NA | 2.9 | NA |
| RD-56A | SMRD-56A-GW082610 | Ac-228 | Filtered | 3.5 | 5.3 | 1.6 | 2.5 |
| RD-56A | SMRD-56A-GW082610 | Ac-228 | Suspended | -0.03 U B | 3 | 0.78 | 1.4 |
| RD-56A | SMRD-56A-GW082610 | Ac-228 | Total | 3.5 | NA | 1.8 | NA |
| RD-56A | SMRD-56A-GW082610 | Ag-108 | Filtered | 0 U R | 0.12 | 0.035 | 0.057 |
| RD-56A | SMRD-56A-GW082610 | Ag-108 | Suspended | 0.019 U R | 0.046 | 0.014 | 0.022 |
| RD-56A | SMRD-56A-GW082610 | Ag-108 | Total | 0.019 R | NA | 0.037 | NA |
| RD-56A | SMRD-56A-GW082610 | Ag-108m | Filtered | 0 U R | 1.3 | 0.37 | 0.61 |
| RD-56A | SMRD-56A-GW082610 | Ag-108m | Suspended | 0.2 U R | 0.49 | 0.15 | 0.24 |
| RD-56A | SMRD-56A-GW082610 | Ag-108m | Total | 0.2 R | NA | 0.4 | NA |
| RD-56A | SMRD-56A-GW082610 | Ba-133 | Filtered | -2.2 U R | 11 | 3.4 | 5.5 |
| RD-56A | SMRD-56A-GW082610 | Ba-133 | Suspended | 0.5 U R | 5.8 | 1.7 | 2.8 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-56A | SMRD-56A-GW082610 | Ba-133 | Total | -1.7 R | NA | 3.8 | NA |
| RD-56A | SMRD-56A-GW082610 | Ba-137m | Filtered | 0.43 U | 1.4 | 0.4 | 0.64 |
| RD-56A | SMRD-56A-GW082610 | Ba-137m | Suspended | -0.22 U | 0.69 | 0.21 | 0.33 |
| RD-56A | SMRD-56A-GW082610 | Ba-137m | Total | 0.21 | NA | 0.45 | NA |
| RD-56A | SMRD-56A-GW082610 | Bi-212 | Filtered | 4 U | 12 | 3.7 | 5.7 |
| RD-56A | SMRD-56A-GW082610 | Bi-212 | Suspended | 3.9 | 6.1 | 1.9 | 2.9 |
| RD-56A | SMRD-56A-GW082610 | Bi-212 | Total | 7.8 | NA | 4.1 | NA |
| RD-56A | SMRD-56A-GW082610 | Bi-214 | Filtered | -0.5 U | 3.3 | 1.2 | 1.6 |
| RD-56A | SMRD-56A-GW082610 | Bi-214 | Suspended | 0.03 U | 1.7 | 0.56 | 0.83 |
| RD-56A | SMRD-56A-GW082610 | Bi-214 | Total | -0.5 | NA | 1.4 | NA |
| RD-56A | SMRD-56A-GW082610 | Cd-113m | Filtered | 2300 U | 15000 | 4300 | 7000 |
| RD-56A | SMRD-56A-GW082610 | Cd-113m | Suspended | -600 U | 6900 | 2000 | 3300 |
| RD-56A | SMRD-56A-GW082610 | Cd-113m | Total | 1700 | NA | 4800 | NA |
| RD-56A | SMRD-56A-GW082610 | Cf-249 | Filtered | 0.1 U R | 6.1 | 1.8 | 2.9 |
| RD-56A | SMRD-56A-GW082610 | Cf-249 | Suspended | -0.87 U R | 3.1 | 0.92 | 1.5 |
| RD-56A | SMRD-56A-GW082610 | Cf-249 | Total | -0.7 R | NA | 2 | NA |
| RD-56A | SMRD-56A-GW082610 | Co-60 | Filtered | 0 U | 1.5 | 0.4 | 0.67 |
| RD-56A | SMRD-56A-GW082610 | Co-60 | Suspended | 0 U | 0.86 | 0.24 | 0.4 |
| RD-56A | SMRD-56A-GW082610 | Co-60 | Total | 0 | NA | 0.47 | NA |
| RD-56A | SMRD-56A-GW082610 | Cs-134 | Filtered | -0.17 U | 1.6 | 0.46 | 0.75 |
| RD-56A | SMRD-56A-GW082610 | Cs-134 | Suspended | 0.15 U | 0.81 | 0.24 | 0.39 |
| RD-56A | SMRD-56A-GW082610 | Cs-134 | Total | -0.02 SK | NA | 0.52 | NA |
| RD-56A | SMRD-56A-GW082610 | Cs-137 | Filtered | 0.45 U | 1.4 | 0.43 | 0.68 |
| RD-56A | SMRD-56A-GW082610 | Cs-137 | Suspended | -0.23 U | 0.73 | 0.22 | 0.35 |
| RD-56A | SMRD-56A-GW082610 | Cs-137 | Total | 0.22 | NA | 0.48 | NA |
| RD-56A | SMRD-56A-GW082610 | Eu-152 | Filtered | 0.7 U | 3.5 | 1 | 1.7 |
| RD-56A | SMRD-56A-GW082610 | Eu-152 | Suspended | -0.41 U | 1.8 | 0.54 | 0.88 |
| RD-56A | SMRD-56A-GW082610 | Eu-152 | Total | 0.3 | NA | 1.2 | NA |
| RD-56A | SMRD-56A-GW082610 | Eu-154 | Filtered | -1.6 U | 12 | 3.6 | 5.8 |
| RD-56A | SMRD-56A-GW082610 | Eu-154 | Suspended | 0.5 U | 6 | 1.7 | 2.8 |
| RD-56A | SMRD-56A-GW082610 | Eu-154 | Total | -1.1 | NA | 4 | NA |
| RD-56A | SMRD-56A-GW082610 | Eu-155 | Filtered | 0.57 U | 3.2 | 0.96 | 1.6 |
| RD-56A | SMRD-56A-GW082610 | Eu-155 | Suspended | 0.11 U | 1 | 0.31 | 0.5 |
| RD-56A | SMRD-56A-GW082610 | Eu-155 | Total | 0.7 SK | NA | 1 | NA |
| RD-56A | SMRD-56A-GW082610 | gross_alpha | Filtered | 7.07 | 0.44 | 0.55 | 0.23 |
| RD-56A | SMRD-56A-GW082610 | gross_alpha | Suspended | 4.56 | 0.55 | 0.48 | 0.28 |
| RD-56A | SMRD-56A-GW082610 | gross_alpha | Total | 11.6 | NA | 0.73 | NA |
| RD-56A | SMRD-56A-GW082610 | gross_beta | Filtered | 4.8 | 2.6 | 1 | 1.5 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-56A | SMRD-56A-GW082610 | gross_beta | Suspended | 0.76 | 0.72 | 0.24 | 0.42 |
| RD-56A | SMRD-56A-GW082610 | gross_beta | Total | 5.6 | NA | 1 | NA |
| RD-56A | SMRD-56A-GW082610 | H-3 | Filtered | -2 U | 140 | 40 | 66 |
| RD-56A | SMRD-56A-GW082610 | H-3 | Suspended | -8 U R | 24 | 6 | 11 |
| RD-56A | SMRD-56A-GW082610 | H-3 | Total | -10 R | NA | 41 | NA |
| RD-56A | SMRD-56A-GW082610 | Ho-166m | Filtered | 0.003 U | 2 | 0.58 | 0.95 |
| RD-56A | SMRD-56A-GW082610 | Ho-166m | Suspended | 0.14 U | 1.1 | 0.34 | 0.55 |
| RD-56A | SMRD-56A-GW082610 | Ho-166m | Total | 0.14 SK | NA | 0.67 | NA |
| RD-56A | SMRD-56A-GW082610 | K-40 | Filtered | 8.1 | 17 | 5.1 | 7.7 |
| RD-56A | SMRD-56A-GW082610 | K-40 | Suspended | 5.1 U | 12 | 3.4 | 5.8 |
| RD-56A | SMRD-56A-GW082610 | K-40 | Total | 13.2 | NA | 6.2 | NA |
| RD-56A | SMRD-56A-GW082610 | Na-22 | Filtered | -0.29 U | 2 | 0.58 | 0.94 |
| RD-56A | SMRD-56A-GW082610 | Na-22 | Suspended | -0.04 U | 0.77 | 0.22 | 0.36 |
| RD-56A | SMRD-56A-GW082610 | Na-22 | Total | -0.32 | NA | 0.62 | NA |
| RD-56A | SMRD-56A-GW082610 | Nb-94 | Filtered | -0.33 U | 1.4 | 0.41 | 0.66 |
| RD-56A | SMRD-56A-GW082610 | Nb-94 | Suspended | 0.18 U | 0.56 | 0.17 | 0.26 |
| RD-56A | SMRD-56A-GW082610 | Nb-94 | Total | -0.15 | NA | 0.44 | NA |
| RD-56A | SMRD-56A-GW082610 | Np-236 | Filtered | 0.05 U | 3 | 0.89 | 1.5 |
| RD-56A | SMRD-56A-GW082610 | Np-236 | Suspended | -0.4 U | 1.3 | 0.4 | 0.65 |
| RD-56A | SMRD-56A-GW082610 | Np-236 | Total | -0.35 SK | NA | 0.97 | NA |
| RD-56A | SMRD-56A-GW082610 | Np-239 | Filtered | 0.5 U | 7.8 | 2.3 | 3.7 |
| RD-56A | SMRD-56A-GW082610 | Np-239 | Suspended | -0.3 U | 3.6 | 1.1 | 1.8 |
| RD-56A | SMRD-56A-GW082610 | Np-239 | Total | 0.3 | NA | 2.5 | NA |
| RD-56A | SMRD-56A-GW082610 | Pa-231 | Filtered | -0.1 U | 53 | 15 | 25 |
| RD-56A | SMRD-56A-GW082610 | Pa-231 | Suspended | 8.1 U | 22 | 6.8 | 11 |
| RD-56A | SMRD-56A-GW082610 | Pa-231 | Total | 8 | NA | 17 | NA |
| RD-56A | SMRD-56A-GW082610 | Pb-212 | Filtered | -0.9 U | 2.8 | 1.4 | 1.3 |
| RD-56A | SMRD-56A-GW082610 | Pb-212 | Suspended | 0.48 U | 1.3 | 0.41 | 0.62 |
| RD-56A | SMRD-56A-GW082610 | Pb-212 | Total | -0.4 | NA | 1.5 | NA |
| RD-56A | SMRD-56A-GW082610 | Pb-214 | Filtered | 0.51 U | 2.5 | 0.68 | 1.2 |
| RD-56A | SMRD-56A-GW082610 | Pb-214 | Suspended | 0.38 U | 1.5 | 0.58 | 0.74 |
| RD-56A | SMRD-56A-GW082610 | Pb-214 | Total | 0.89 | NA | 0.9 | NA |
| RD-56A | SMRD-56A-GW082610 | Sb-125 | Filtered | 2.7 U | 13 | 3.8 | 6.2 |
| RD-56A | SMRD-56A-GW082610 | Sb-125 | Suspended | 0.6 U | 6.4 | 1.9 | 3.1 |
| RD-56A | SMRD-56A-GW082610 | Sb-125 | Total | 3.3 SK | NA | 4.3 | NA |
| RD-56A | SMRD-56A-GW082610 | Sn-126 | Filtered | 0.57 U | 1.5 | 0.45 | 0.71 |
| RD-56A | SMRD-56A-GW082610 | Sn-126 | Suspended | 0 U | 0.83 | 0.24 | 0.4 |
| RD-56A | SMRD-56A-GW082610 | Sn-126 | Total | 0.57 | NA | 0.51 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-56A | SMRD-56A-GW082610 | Sr-90 | Filtered | 0.03 U | 0.14 | 0.041 | 0.079 |
| RD-56A | SMRD-56A-GW082610 | Sr-90 | Suspended | 0.046 U | 0.096 | 0.029 | 0.054 |
| RD-56A | SMRD-56A-GW082610 | Sr-90 | Total | 0.076 | NA | 0.05 | NA |
| RD-56A | SMRD-56A-GW082610 | Te-125m | Filtered | 0.63 U | 3 | 0.88 | 1.4 |
| RD-56A | SMRD-56A-GW082610 | Te-125m | Suspended | 0.13 U | 1.5 | 0.44 | 0.72 |
| RD-56A | SMRD-56A-GW082610 | Te-125m | Total | 0.76 SK | NA | 0.99 | NA |
| RD-56A | SMRD-56A-GW082610 | Th-231 | Filtered | 0.031 | 0.03 | 0.013 | 0.01 |
| RD-56A | SMRD-56A-GW082610 | Th-231 | Suspended | 0.0052 U | 0.007 | 0.0037 | 0.006 |
| RD-56A | SMRD-56A-GW082610 | Th-231 | Total | 0.036 | NA | 0.014 | NA |
| RD-56A | SMRD-56A-GW082610 | Th-234 | Filtered | 19.9 | 23 | 8.1 | 11 |
| RD-56A | SMRD-56A-GW082610 | Th-234 | Suspended | -1.7 U | 8.7 | 3.1 | 4.3 |
| RD-56A | SMRD-56A-GW082610 | Th-234 | Total | 18.2 | NA | 8.7 | NA |
| RD-56A | SMRD-56A-GW082610 | Tl-208 | Filtered | 0.07 U | 1.7 | 0.46 | 0.83 |
| RD-56A | SMRD-56A-GW082610 | Tl-208 | Suspended | 0.64 | 0.82 | 0.3 | 0.39 |
| RD-56A | SMRD-56A-GW082610 | Tl-208 | Total | 0.71 | NA | 0.55 | NA |
| RD-56A | SMRD-56A-GW082610 | Tm-171 | Filtered | 29 U | 270 | 78 | 130 |
| RD-56A | SMRD-56A-GW082610 | Tm-171 | Suspended | 12 U | 88 | 26 | 43 |
| RD-56A | SMRD-56A-GW082610 | Tm-171 | Total | 42 | NA | 82 | NA |
| RD-56A | SMRD-56A-GW082610 | U-233/234 | Filtered | 0.987 K | 0.037 | 0.073 | 0.016 |
| RD-56A | SMRD-56A-GW082610 | U-233/234 | Suspended | 0.029 | 0.019 | 0.0089 | 0.0068 |
| RD-56A | SMRD-56A-GW082610 | U-233/234 | Total | 1.02 | NA | 0.074 | NA |
| RD-56A | SMRD-56A-GW082610 | U-235/236 | Filtered | 0.031 | 0.03 | 0.013 | 0.01 |
| RD-56A | SMRD-56A-GW082610 | U-235/236 | Suspended | 0.0052 U | 0.007 | 0.0037 | 0.006 |
| RD-56A | SMRD-56A-GW082610 | U-235/236 | Total | 0.036 | NA | 0.014 | NA |
| RD-56A | SMRD-56A-GW082610 | U-238 | Filtered | 0.687 | 0.027 | 0.058 | 0.01 |
| RD-56A | SMRD-56A-GW082610 | U-238 | Suspended | 0.0289 | 0.019 | 0.0089 | 0.0068 |
| RD-56A | SMRD-56A-GW082610 | U-238 | Total | 0.716 | NA | 0.058 | NA |
| RD-56B | SMRD-56B-GW083110 | Ac-227 | Filtered | -1.7 U | 8.1 | 2.4 | 3.9 |
| RD-56B | SMRD-56B-GW083110 | Ac-227 | Suspended | -2 U | 4.8 | 1.4 | 2.3 |
| RD-56B | SMRD-56B-GW083110 | Ac-227 | Total | -3.7 | NA | 2.8 | NA |
| RD-56B | SMRD-56B-GW083110 | Ac-228 | Filtered | 4.1 | 5 | 1.6 | 2.3 |
| RD-56B | SMRD-56B-GW083110 | Ac-228 | Suspended | 2.14 | 2.1 | 0.68 | 0.98 |
| RD-56B | SMRD-56B-GW083110 | Ac-228 | Total | 6.2 | NA | 1.7 | NA |
| RD-56B | SMRD-56B-GW083110 | Ag-108 | Filtered | 0.027 U R | 0.088 | 0.026 | 0.041 |
| RD-56B | SMRD-56B-GW083110 | Ag-108 | Suspended | -0.013 U R | 0.051 | 0.015 | 0.024 |
| RD-56B | SMRD-56B-GW083110 | Ag-108 | Total | 0.14 R | NA | 0.31 | NA |
| RD-56B | SMRD-56B-GW083110 | Ag-108m | Filtered | 0.29 U R | 0.95 | 0.28 | 0.45 |
| RD-56B | SMRD-56B-GW083110 | Ag-108m | Suspended | -0.14 U R | 0.55 | 0.16 | 0.26 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-56B | SMRD-56B-GW083110 | Ag-108m | Total | 0.15 R | NA | 0.33 | NA |
| RD-56B | SMRD-56B-GW083110 | Am-241 | Filtered | 0.019 U | 0.06 | 0.017 | 0.027 |
| RD-56B | SMRD-56B-GW083110 | Am-241 | Suspended | 0.024 | 0.051 | 0.016 | 0.022 |
| RD-56B | SMRD-56B-GW083110 | Am-241 | Total | 0.044 | NA | 0.024 | NA |
| RD-56B | SMRD-56B-GW083110 | Ba-133 | Filtered | 1.9 U R | 12 | 3.4 | 5.5 |
| RD-56B | SMRD-56B-GW083110 | Ba-133 | Suspended | -1.6 U R | 6.2 | 1.9 | 3 |
| RD-56B | SMRD-56B-GW083110 | Ba-133 | Total | 0.3 R | NA | 3.9 | NA |
| RD-56B | SMRD-56B-GW083110 | Ba-137m | Filtered | 0.21 U | 1.5 | 0.43 | 0.69 |
| RD-56B | SMRD-56B-GW083110 | Ba-137m | Suspended | 0.16 U | 0.62 | 0.18 | 0.29 |
| RD-56B | SMRD-56B-GW083110 | Ba-137m | Total | 0.38 | NA | 0.47 | NA |
| RD-56B | SMRD-56B-GW083110 | Bi-212 | Filtered | -1.3 U | 11 | 3.1 | 5 |
| RD-56B | SMRD-56B-GW083110 | Bi-212 | Suspended | 5.4 | 3.1 | 1.3 | 1.4 |
| RD-56B | SMRD-56B-GW083110 | Bi-212 | Total | 4.3 | NA | 3.4 | NA |
| RD-56B | SMRD-56B-GW083110 | Bi-214 | Filtered | 5.2 | 2.9 | 1.2 | 1.4 |
| RD-56B | SMRD-56B-GW083110 | Bi-214 | Suspended | 2.38 | 1.6 | 0.64 | 0.78 |
| RD-56B | SMRD-56B-GW083110 | Bi-214 | Total | 7.3 | NA | 1.4 | NA |
| RD-56B | SMRD-56B-GW083110 | C-14 | Filtered | 0.53 U | 2.3 | 0.7 | 1.2 |
| RD-56B | SMRD-56B-GW083110 | C-14 | Suspended | 1.07 U R | 2.3 | 0.71 | 1.1 |
| RD-56B | SMRD-56B-GW083110 | C-14 | Total | 1.6 R | NA | 1 | NA |
| RD-56B | SMRD-56B-GW083110 | Cd-113m | Filtered | 70 U | 17000 | 5000 | 8200 |
| RD-56B | SMRD-56B-GW083110 | Cd-113m | Suspended | 1600 U | 7500 | 2200 | 3600 |
| RD-56B | SMRD-56B-GW083110 | Cd-113m | Total | 1700 | NA | 5500 | NA |
| RD-56B | SMRD-56B-GW083110 | Cf-249 | Filtered | 0.2 U R | 6.1 | 1.8 | 2.9 |
| RD-56B | SMRD-56B-GW083110 | Cf-249 | Suspended | -0.41 U R | 3.2 | 0.93 | 1.5 |
| RD-56B | SMRD-56B-GW083110 | Cf-249 | Total | -0.2 R | NA | 2 | NA |
| RD-56B | SMRD-56B-GW083110 | Cm-243/244 | Filtered | 0.022 U | 0.074 | 0.021 | 0.035 |
| RD-56B | SMRD-56B-GW083110 | Cm-243/244 | Suspended | 0.028 | 0.061 | 0.019 | 0.028 |
| RD-56B | SMRD-56B-GW083110 | Cm-243/244 | Total | 0.05 | NA | 0.028 | NA |
| RD-56B | SMRD-56B-GW083110 | Cm-245/246 | Filtered | 0.0132 | 0.024 | 0.0078 | 0.0083 |
| RD-56B | SMRD-56B-GW083110 | Cm-245/246 | Suspended | 0.0195 | 0.0075 | 0.0074 | 0.0056 |
| RD-56B | SMRD-56B-GW083110 | Cm-245/246 | Total | 0.033 | NA | 0.011 | NA |
| RD-56B | SMRD-56B-GW083110 | Co-60 | Filtered | 0.14 U | 1.7 | 0.49 | 0.79 |
| RD-56B | SMRD-56B-GW083110 | Co-60 | Suspended | 0.15 U | 0.62 | 0.18 | 0.29 |
| RD-56B | SMRD-56B-GW083110 | Co-60 | Total | 0.3 | NA | 0.52 | NA |
| RD-56B | SMRD-56B-GW083110 | Cs-134 | Filtered | -0.32 U | 1.6 | 0.48 | 0.78 |
| RD-56B | SMRD-56B-GW083110 | Cs-134 | Suspended | -0.26 U | 0.76 | 0.23 | 0.37 |
| RD-56B | SMRD-56B-GW083110 | Cs-134 | Total | -0.6 | NA | 0.54 | NA |
| RD-56B | SMRD-56B-GW083110 | Cs-137 | Filtered | 0.22 U | 1.6 | 0.45 | 0.73 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-56B | SMRD-56B-GW083110 | Cs-137 | Suspended | 0.17 U | 0.65 | 0.19 | 0.31 |
| RD-56B | SMRD-56B-GW083110 | Cs-137 | Total | 0.4 | NA | 0.49 | NA |
| RD-56B | SMRD-56B-GW083110 | Eu-152 | Filtered | -1 U | 3.6 | 1.1 | 1.7 |
| RD-56B | SMRD-56B-GW083110 | Eu-152 | Suspended | -0.46 U | 1.9 | 0.57 | 0.92 |
| RD-56B | SMRD-56B-GW083110 | Eu-152 | Total | -1.4 | NA | 1.2 | NA |
| RD-56B | SMRD-56B-GW083110 | Eu-154 | Filtered | -2.3 U | 13 | 3.8 | 6.1 |
| RD-56B | SMRD-56B-GW083110 | Eu-154 | Suspended | -1.2 U | 6.2 | 1.8 | 2.9 |
| RD-56B | SMRD-56B-GW083110 | Eu-154 | Total | -3.6 | NA | 4.2 | NA |
| RD-56B | SMRD-56B-GW083110 | Eu-155 | Filtered | 0.75 U | 3 | 0.9 | 1.5 |
| RD-56B | SMRD-56B-GW083110 | Eu-155 | Suspended | -0.1 U | 1.2 | 0.37 | 0.6 |
| RD-56B | SMRD-56B-GW083110 | Eu-155 | Total | 0.65 | NA | 0.98 | NA |
| RD-56B | SMRD-56B-GW083110 | gross_alpha | Filtered | 2.9 | 0.42 | 0.36 | 0.22 |
| RD-56B | SMRD-56B-GW083110 | gross_alpha | Suspended | 0.2 U | 0.62 | 0.18 | 0.32 |
| RD-56B | SMRD-56B-GW083110 | gross_alpha | Total | 2.76 | NA | 0.38 | NA |
| RD-56B | SMRD-56B-GW083110 | gross_beta | Filtered | 2.98 | 2.6 | 0.86 | 1.5 |
| RD-56B | SMRD-56B-GW083110 | gross_beta | Suspended | 0.49 | 0.77 | 0.24 | 0.46 |
| RD-56B | SMRD-56B-GW083110 | gross_beta | Total | 3.47 | NA | 0.9 | NA |
| RD-56B | SMRD-56B-GW083110 | H-3 | Filtered | -49 U | 140 | 40 | 68 |
| RD-56B | SMRD-56B-GW083110 | H-3 | Suspended | 6.6 U R | 22 | 6.7 | 10 |
| RD-56B | SMRD-56B-GW083110 | H-3 | Total | -43 R | NA | 41 | NA |
| RD-56B | SMRD-56B-GW083110 | Ho-166m | Filtered | -0.16 U | 2.2 | 0.62 | 1 |
| RD-56B | SMRD-56B-GW083110 | Ho-166m | Suspended | -0.27 U | 1.2 | 0.35 | 0.56 |
| RD-56B | SMRD-56B-GW083110 | Ho-166m | Total | -0.43 | NA | 0.71 | NA |
| RD-56B | SMRD-56B-GW083110 | I-129 | Filtered | 0.06 U | 0.51 | 0.15 | 0.25 |
| RD-56B | SMRD-56B-GW083110 | I-129 | Suspended | -0.02 U | 0.49 | 0.15 | 0.24 |
| RD-56B | SMRD-56B-GW083110 | I-129 | Total | 0.04 | NA | 0.21 | NA |
| RD-56B | SMRD-56B-GW083110 | K-40 | Filtered | 7.4 U | 22 | 6.5 | 10 |
| RD-56B | SMRD-56B-GW083110 | K-40 | Suspended | 24.8 | 10 | 3.6 | 4.7 |
| RD-56B | SMRD-56B-GW083110 | K-40 | Total | 10.9 | NA | 7.4 | NA |
| RD-56B | SMRD-56B-GW083110 | Na-22 | Filtered | 0 U | 1.5 | 0.42 | 0.68 |
| RD-56B | SMRD-56B-GW083110 | Na-22 | Suspended | -0.24 U | 0.84 | 0.25 | 0.4 |
| RD-56B | SMRD-56B-GW083110 | Na-22 | Total | -0.24 | NA | 0.49 | NA |
| RD-56B | SMRD-56B-GW083110 | Nb-94 | Filtered | -0.16 U | 1.5 | 0.42 | 0.69 |
| RD-56B | SMRD-56B-GW083110 | Nb-94 | Suspended | 0.43 | 0.6 | 0.19 | 0.29 |
| RD-56B | SMRD-56B-GW083110 | Nb-94 | Total | 0.27 | NA | 0.46 | NA |
| RD-56B | SMRD-56B-GW083110 | Np-236 | Filtered | -0.07 U | 2.8 | 0.83 | 1.4 |
| RD-56B | SMRD-56B-GW083110 | Np-236 | Suspended | 0.42 U | 1.2 | 0.37 | 0.59 |
| RD-56B | SMRD-56B-GW083110 | Np-236 | Total | 0.34 | NA | 0.9 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|--------|--------|----------------|
| RD-56B | SMRD-56B-GW083110 | Np-237 | Suspended | 0.0036 U | 0.0097 | 0.0036 | 0.0059 |
| RD-56B | SMRD-56B-GW083110 | Np-237 | Total | 0.0009 | NA | 0.0077 | NA |
| RD-56B | SMRD-56B-GW083110 | Np-239 | Filtered | -0.2 U | 8.6 | 2.5 | 4.2 |
| RD-56B | SMRD-56B-GW083110 | Np-239 | Suspended | 0.2 U | 3.8 | 1.1 | 1.8 |
| RD-56B | SMRD-56B-GW083110 | Np-239 | Total | 0.006 | NA | 2.8 | NA |
| RD-56B | SMRD-56B-GW083110 | Pa-231 | Filtered | 0 U | 66 | 19 | 32 |
| RD-56B | SMRD-56B-GW083110 | Pa-231 | Suspended | -0.5 U | 27 | 7.9 | 13 |
| RD-56B | SMRD-56B-GW083110 | Pa-231 | Total | -0.5 | NA | 21 | NA |
| RD-56B | SMRD-56B-GW083110 | Pb-212 | Filtered | -1.6 U | 2.8 | 2 | 1.4 |
| RD-56B | SMRD-56B-GW083110 | Pb-212 | Suspended | 0.75 | 1.3 | 0.47 | 0.66 |
| RD-56B | SMRD-56B-GW083110 | Pb-212 | Total | -1.2 | NA | 2.1 | NA |
| RD-56B | SMRD-56B-GW083110 | Pb-214 | Filtered | 0.47 U | 2.7 | 0.81 | 1.3 |
| RD-56B | SMRD-56B-GW083110 | Pb-214 | Suspended | 3.88 | 1.1 | 0.44 | 0.54 |
| RD-56B | SMRD-56B-GW083110 | Pb-214 | Total | 4.35 | NA | 0.92 | NA |
| RD-56B | SMRD-56B-GW083110 | Pu-238 | Filtered | 0.005 U | 0.064 | 0.016 | 0.03 |
| RD-56B | SMRD-56B-GW083110 | Pu-238 | Suspended | 0.0054 U | 0.026 | 0.0065 | 0.0086 |
| RD-56B | SMRD-56B-GW083110 | Pu-238 | Total | 0.011 | NA | 0.017 | NA |
| RD-56B | SMRD-56B-GW083110 | Pu-239/240 | Filtered | -0.0118 L U | 0.045 | 0.0048 | 0.018 |
| RD-56B | SMRD-56B-GW083110 | Pu-239/240 | Suspended | 0 U | 0.012 | 0.0026 | 0.0061 |
| RD-56B | SMRD-56B-GW083110 | Pu-239/240 | Total | -0.0117 L | NA | 0.0055 | NA |
| RD-56B | SMRD-56B-GW083110 | Pu-242 | Filtered | 0.0013 U | 0.032 | 0.0059 | 0.011 |
| RD-56B | SMRD-56B-GW083110 | Pu-242 | Suspended | -0.0016 U | 0.022 | 0.0016 | 0.0061 |
| RD-56B | SMRD-56B-GW083110 | Pu-242 | Total | -0.0003 | NA | 0.0061 | NA |
| RD-56B | SMRD-56B-GW083110 | Ra-226 | Filtered | 1.1 | 0.18 | 0.13 | 0.09 |
| RD-56B | SMRD-56B-GW083110 | Ra-226 | Suspended | 0.039 U | 0.096 | 0.029 | 0.05 |
| RD-56B | SMRD-56B-GW083110 | Ra-226 | Total | 1.14 | NA | 0.13 | NA |
| RD-56B | SMRD-56B-GW083110 | Sb-125 | Filtered | 3.2 U | 13 | 3.8 | 6.1 |
| RD-56B | SMRD-56B-GW083110 | Sb-125 | Suspended | -1.7 U | 5.9 | 1.8 | 2.9 |
| RD-56B | SMRD-56B-GW083110 | Sb-125 | Total | 1.5 | NA | 4.2 | NA |
| RD-56B | SMRD-56B-GW083110 | Sn-126 | Filtered | 0.25 U | 1.5 | 0.43 | 0.69 |
| RD-56B | SMRD-56B-GW083110 | Sn-126 | Suspended | 0.3 U | 0.74 | 0.22 | 0.35 |
| RD-56B | SMRD-56B-GW083110 | Sn-126 | Total | 0.54 | NA | 0.48 | NA |
| RD-56B | SMRD-56B-GW083110 | Sr-90 | Filtered | 0.1 U | 0.32 | 0.094 | 0.19 |
| RD-56B | SMRD-56B-GW083110 | Sr-90 | Suspended | 0.046 U | 0.15 | 0.044 | 0.088 |
| RD-56B | SMRD-56B-GW083110 | Sr-90 | Total | 0.15 | NA | 0.1 | NA |
| RD-56B | SMRD-56B-GW083110 | Tc-99 | Filtered | -0.14 U | 1.7 | 0.49 | 0.81 |
| RD-56B | SMRD-56B-GW083110 | Tc-99 | Suspended | 0.34 U | 1.4 | 0.42 | 0.68 |
| RD-56B | SMRD-56B-GW083110 | Tc-99 | Total | 0.2 | NA | 0.64 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-56B | SMRD-56B-GW083110 | Te-125m | Filtered | 0.75 U | 2.9 | 0.87 | 1.4 |
| RD-56B | SMRD-56B-GW083110 | Te-125m | Suspended | -0.38 U | 1.4 | 0.41 | 0.66 |
| RD-56B | SMRD-56B-GW083110 | Te-125m | Total | 1.4 | NA | 4 | NA |
| RD-56B | SMRD-56B-GW083110 | Th-231 | Filtered | 0.05 | 0.033 | 0.019 | 0.009 |
| RD-56B | SMRD-56B-GW083110 | Th-231 | Suspended | -0.0021 U | 0.029 | 0.0066 | 0.0067 |
| RD-56B | SMRD-56B-GW083110 | Th-231 | Total | 0.048 | NA | 0.02 | NA |
| RD-56B | SMRD-56B-GW083110 | Th-234 | Filtered | -3 U | 25 | 9.1 | 12 |
| RD-56B | SMRD-56B-GW083110 | Th-234 | Suspended | -5.4 U | 9.3 | 4.8 | 4.6 |
| RD-56B | SMRD-56B-GW083110 | Th-234 | Total | 1.6 | NA | 9.6 | NA |
| RD-56B | SMRD-56B-GW083110 | Tl-208 | Filtered | -1.2 U | 1.9 | 4.2 | 0.9 |
| RD-56B | SMRD-56B-GW083110 | Tl-208 | Suspended | 0.39 | 0.77 | 0.25 | 0.37 |
| RD-56B | SMRD-56B-GW083110 | Tl-208 | Total | -1 | NA | 4.2 | NA |
| RD-56B | SMRD-56B-GW083110 | Tm-171 | Filtered | -20 U | 360 | 110 | 170 |
| RD-56B | SMRD-56B-GW083110 | Tm-171 | Suspended | -2 U | 100 | 30 | 49 |
| RD-56B | SMRD-56B-GW083110 | Tm-171 | Total | -20 | NA | 110 | NA |
| RD-56B | SMRD-56B-GW083110 | U-233/234 | Filtered | 0.622 | 0.049 | 0.064 | 0.021 |
| RD-56B | SMRD-56B-GW083110 | U-233/234 | Suspended | -0.0086 U | 0.028 | 0.0061 | 0.0076 |
| RD-56B | SMRD-56B-GW083110 | U-233/234 | Total | 0.613 | NA | 0.065 | NA |
| RD-56B | SMRD-56B-GW083110 | U-235/236 | Filtered | 0.05 | 0.033 | 0.019 | 0.009 |
| RD-56B | SMRD-56B-GW083110 | U-235/236 | Suspended | -0.0021 U | 0.029 | 0.0066 | 0.0067 |
| RD-56B | SMRD-56B-GW083110 | U-235/236 | Total | 0.048 | NA | 0.02 | NA |
| RD-56B | SMRD-56B-GW083110 | U-238 | Filtered | 0.46 | 0.036 | 0.054 | 0.013 |
| RD-56B | SMRD-56B-GW083110 | U-238 | Suspended | 0.0064 | 0.012 | 0.0091 | 0 |
| RD-56B | SMRD-56B-GW083110 | U-238 | Total | 0.466 | NA | 0.054 | NA |
| RD-57 | SMRD-57-GW081910 | Ac-227 | Filtered | 14.6 | 6.1 | 2.3 | 2.9 |
| RD-57 | SMRD-57-GW081910 | Ac-227 | Suspended | -1.7 U | 4.5 | 1.4 | 2.2 |
| RD-57 | SMRD-57-GW081910 | Ac-227 | Total | 12.9 | NA | 2.6 | NA |
| RD-57 | SMRD-57-GW081910 | Ac-228 | Filtered | 2.3 | 4.5 | 1.4 | 2 |
| RD-57 | SMRD-57-GW081910 | Ac-228 | Suspended | -1 U | 3.1 | 1.4 | 1.5 |
| RD-57 | SMRD-57-GW081910 | Ac-228 | Total | 1.4 | NA | 1.9 | NA |
| RD-57 | SMRD-57-GW081910 | Ag-108 | Filtered | 0 U R | 0.14 | 0.039 | 0.065 |
| RD-57 | SMRD-57-GW081910 | Ag-108 | Suspended | -0.013 U R | 0.05 | 0.015 | 0.024 |
| RD-57 | SMRD-57-GW081910 | Ag-108 | Total | -0.013 R | NA | 0.042 | NA |
| RD-57 | SMRD-57-GW081910 | Ag-108m | Filtered | 0 U R | 1.5 | 0.42 | 0.69 |
| RD-57 | SMRD-57-GW081910 | Ag-108m | Suspended | -0.14 U R | 0.54 | 0.16 | 0.26 |
| RD-57 | SMRD-57-GW081910 | Ag-108m | Total | -0.14 R | NA | 0.45 | NA |
| RD-57 | SMRD-57-GW081910 | Ba-133 | Filtered | 0.02 U R | 14 | 4 | 6.5 |
| RD-57 | SMRD-57-GW081910 | Ba-133 | Suspended | -1.5 U R | 6.2 | 1.8 | 3 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-57 | SMRD-57-GW081910 | Ba-133 | Total | -1.5 R | NA | 4.4 | NA |
| RD-57 | SMRD-57-GW081910 | Ba-137m | Filtered | 0.66 | 1.1 | 0.35 | 0.51 |
| RD-57 | SMRD-57-GW081910 | Ba-137m | Suspended | 0.08 U | 0.65 | 0.19 | 0.31 |
| RD-57 | SMRD-57-GW081910 | Ba-137m | Total | 0.75 | NA | 0.39 | NA |
| RD-57 | SMRD-57-GW081910 | Bi-212 | Filtered | 4.6 U | 13 | 3.8 | 5.8 |
| RD-57 | SMRD-57-GW081910 | Bi-212 | Suspended | 1.8 U | 5.4 | 1.6 | 2.5 |
| RD-57 | SMRD-57-GW081910 | Bi-212 | Total | 6.4 | NA | 4.1 | NA |
| RD-57 | SMRD-57-GW081910 | Bi-214 | Filtered | 4.4 | 4 | 1.7 | 1.9 |
| RD-57 | SMRD-57-GW081910 | Bi-214 | Suspended | 0.65 U | 1.5 | 0.46 | 0.71 |
| RD-57 | SMRD-57-GW081910 | Bi-214 | Total | 5.1 | NA | 1.8 | NA |
| RD-57 | SMRD-57-GW081910 | Cd-113m | Filtered | -4900 U | 15000 | 4600 | 7300 |
| RD-57 | SMRD-57-GW081910 | Cd-113m | Suspended | 1000 U | 7100 | 2100 | 3500 |
| RD-57 | SMRD-57-GW081910 | Cd-113m | Total | -3900 | NA | 5100 | NA |
| RD-57 | SMRD-57-GW081910 | Cf-249 | Filtered | -2.3 U R | 7.3 | 2.2 | 3.5 |
| RD-57 | SMRD-57-GW081910 | Cf-249 | Suspended | 0.47 U R | 2.8 | 0.84 | 1.4 |
| RD-57 | SMRD-57-GW081910 | Cf-249 | Total | -1.8 R | NA | 2.3 | NA |
| RD-57 | SMRD-57-GW081910 | Co-60 | Filtered | 0.29 U | 1.8 | 0.52 | 0.83 |
| RD-57 | SMRD-57-GW081910 | Co-60 | Suspended | 0.26 U | 0.72 | 0.21 | 0.33 |
| RD-57 | SMRD-57-GW081910 | Co-60 | Total | 0.56 | NA | 0.56 | NA |
| RD-57 | SMRD-57-GW081910 | Cs-134 | Filtered | -0.29 U | 1.7 | 0.5 | 0.8 |
| RD-57 | SMRD-57-GW081910 | Cs-134 | Suspended | 0.01 U | 0.8 | 0.23 | 0.39 |
| RD-57 | SMRD-57-GW081910 | Cs-134 | Total | -0.28 | NA | 0.55 | NA |
| RD-57 | SMRD-57-GW081910 | Cs-137 | Filtered | 0.7 | 1.2 | 0.37 | 0.54 |
| RD-57 | SMRD-57-GW081910 | Cs-137 | Suspended | 0.09 U | 0.69 | 0.2 | 0.33 |
| RD-57 | SMRD-57-GW081910 | Cs-137 | Total | 0.79 | NA | 0.42 | NA |
| RD-57 | SMRD-57-GW081910 | Eu-152 | Filtered | -1.1 U | 4.3 | 1.3 | 2 |
| RD-57 | SMRD-57-GW081910 | Eu-152 | Suspended | -0.35 U | 1.8 | 0.52 | 0.85 |
| RD-57 | SMRD-57-GW081910 | Eu-152 | Total | -1.5 | NA | 1.4 | NA |
| RD-57 | SMRD-57-GW081910 | Eu-154 | Filtered | -0.6 U | 13 | 3.7 | 6 |
| RD-57 | SMRD-57-GW081910 | Eu-154 | Suspended | -0.8 U | 5.7 | 1.7 | 2.7 |
| RD-57 | SMRD-57-GW081910 | Eu-154 | Total | -1.4 | NA | 4 | NA |
| RD-57 | SMRD-57-GW081910 | Eu-155 | Filtered | 0.3 U | 3.4 | 1 | 1.6 |
| RD-57 | SMRD-57-GW081910 | Eu-155 | Suspended | 0.05 U | 1.2 | 0.36 | 0.59 |
| RD-57 | SMRD-57-GW081910 | Eu-155 | Total | 0.4 | NA | 1.1 | NA |
| RD-57 | SMRD-57-GW081910 | gross_alpha | Filtered | 8.1 | 0.4 | 0.6 | 0.21 |
| RD-57 | SMRD-57-GW081910 | gross_alpha | Suspended | 0 U | 0.62 | 0.15 | 0.33 |
| RD-57 | SMRD-57-GW081910 | gross_alpha | Total | 8.1 | NA | 0.62 | NA |
| RD-57 | SMRD-57-GW081910 | gross_beta | Filtered | 8.18 | 1.5 | 0.8 | 0.82 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-57 | SMRD-57-GW081910 | gross_beta | Suspended | 0.66 | 0.82 | 0.26 | 0.49 |
| RD-57 | SMRD-57-GW081910 | gross_beta | Total | 8.84 | NA | 0.84 | NA |
| RD-57 | SMRD-57-GW081910 | H-3 | Filtered | -15 U | 140 | 41 | 67 |
| RD-57 | SMRD-57-GW081910 | H-3 | Suspended | 2.2 U | 13 | 3.7 | 5.7 |
| RD-57 | SMRD-57-GW081910 | H-3 | Total | -13 | NA | 41 | NA |
| RD-57 | SMRD-57-GW081910 | Ho-166m | Filtered | 0.03 U | 1.6 | 0.45 | 0.73 |
| RD-57 | SMRD-57-GW081910 | Ho-166m | Suspended | -0.009 U | 1.1 | 0.33 | 0.54 |
| RD-57 | SMRD-57-GW081910 | Ho-166m | Total | 0.02 | NA | 0.56 | NA |
| RD-57 | SMRD-57-GW081910 | K-40 | Filtered | -19 U | 25 | 31 | 12 |
| RD-57 | SMRD-57-GW081910 | K-40 | Suspended | -3.2 U | 12 | 3.5 | 6 |
| RD-57 | SMRD-57-GW081910 | K-40 | Total | -22 | NA | 31 | NA |
| RD-57 | SMRD-57-GW081910 | Na-22 | Filtered | -0.32 U | 1.9 | 0.55 | 0.88 |
| RD-57 | SMRD-57-GW081910 | Na-22 | Suspended | 0.01 U | 0.89 | 0.25 | 0.42 |
| RD-57 | SMRD-57-GW081910 | Na-22 | Total | -0.3 | NA | 0.61 | NA |
| RD-57 | SMRD-57-GW081910 | Nb-94 | Filtered | -0.11 U | 1.2 | 0.35 | 0.57 |
| RD-57 | SMRD-57-GW081910 | Nb-94 | Suspended | 0.13 U | 0.64 | 0.19 | 0.31 |
| RD-57 | SMRD-57-GW081910 | Nb-94 | Total | 0.02 | NA | 0.4 | NA |
| RD-57 | SMRD-57-GW081910 | Np-236 | Filtered | -0.68 U | 2.8 | 0.84 | 1.4 |
| RD-57 | SMRD-57-GW081910 | Np-236 | Suspended | -0.28 U | 1.2 | 0.37 | 0.6 |
| RD-57 | SMRD-57-GW081910 | Np-236 | Total | -0.96 | NA | 0.91 | NA |
| RD-57 | SMRD-57-GW081910 | Np-239 | Filtered | 0.2 U | 8.7 | 2.6 | 4.2 |
| RD-57 | SMRD-57-GW081910 | Np-239 | Suspended | -0.6 U | 3.8 | 1.1 | 1.8 |
| RD-57 | SMRD-57-GW081910 | Np-239 | Total | -0.4 | NA | 2.8 | NA |
| RD-57 | SMRD-57-GW081910 | Pa-231 | Filtered | 19 U | 57 | 17 | 27 |
| RD-57 | SMRD-57-GW081910 | Pa-231 | Suspended | -8.3 U | 28 | 8.3 | 13 |
| RD-57 | SMRD-57-GW081910 | Pa-231 | Total | 11 | NA | 19 | NA |
| RD-57 | SMRD-57-GW081910 | Pb-212 | Filtered | 1.83 | 2.7 | 0.88 | 1.3 |
| RD-57 | SMRD-57-GW081910 | Pb-212 | Suspended | 0.76 | 1.3 | 0.45 | 0.63 |
| RD-57 | SMRD-57-GW081910 | Pb-212 | Total | 2.59 | NA | 0.99 | NA |
| RD-57 | SMRD-57-GW081910 | Pb-214 | Filtered | 1.3 U | 3.1 | 1.1 | 1.5 |
| RD-57 | SMRD-57-GW081910 | Pb-214 | Suspended | 1.6 | 1.3 | 0.48 | 0.64 |
| RD-57 | SMRD-57-GW081910 | Pb-214 | Total | 2.9 | NA | 1.2 | NA |
| RD-57 | SMRD-57-GW081910 | Sb-125 | Filtered | -0.9 U | 15 | 4.3 | 7.1 |
| RD-57 | SMRD-57-GW081910 | Sb-125 | Suspended | 1.2 U | 6 | 1.8 | 2.9 |
| RD-57 | SMRD-57-GW081910 | Sb-125 | Total | 0.4 | NA | 4.7 | NA |
| RD-57 | SMRD-57-GW081910 | Sn-126 | Filtered | -0.2 U | 1.5 | 0.45 | 0.72 |
| RD-57 | SMRD-57-GW081910 | Sn-126 | Suspended | 0.11 U | 0.77 | 0.23 | 0.37 |
| RD-57 | SMRD-57-GW081910 | Sn-126 | Total | -0.09 | NA | 0.5 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-57 | SMRD-57-GW081910 | Sr-90 | Suspended | -0.024 U | 0.069 | 0.019 | 0.039 |
| RD-57 | SMRD-57-GW081910 | Sr-90 | Total | -0.012 | NA | 0.058 | NA |
| RD-57 | SMRD-57-GW081910 | Te-125m | Filtered | -0.2 U | 3.4 | 0.99 | 1.6 |
| RD-57 | SMRD-57-GW081910 | Te-125m | Suspended | 0.29 U | 1.4 | 0.42 | 0.68 |
| RD-57 | SMRD-57-GW081910 | Te-125m | Total | 0.09 | NA | 1.1 | NA |
| RD-57 | SMRD-57-GW081910 | Th-231 | Filtered | 0.203 | 0.042 | 0.037 | 0.015 |
| RD-57 | SMRD-57-GW081910 | Th-231 | Suspended | -0.0023 U | 0.032 | 0.0023 | 0.0089 |
| RD-57 | SMRD-57-GW081910 | Th-231 | Total | 0.2 | NA | 0.037 | NA |
| RD-57 | SMRD-57-GW081910 | Th-234 | Filtered | 0.8 U | 21 | 6.4 | 10 |
| RD-57 | SMRD-57-GW081910 | Th-234 | Suspended | 3.5 U | 8.6 | 2.9 | 4.2 |
| RD-57 | SMRD-57-GW081910 | Th-234 | Total | 4.3 | NA | 7 | NA |
| RD-57 | SMRD-57-GW081910 | Tl-208 | Filtered | 0.03 U | 1.8 | 0.47 | 0.86 |
| RD-57 | SMRD-57-GW081910 | Tl-208 | Suspended | 0.59 | 0.81 | 0.31 | 0.39 |
| RD-57 | SMRD-57-GW081910 | Tl-208 | Total | 0.62 | NA | 0.56 | NA |
| RD-57 | SMRD-57-GW081910 | Tm-171 | Filtered | 100 U | 350 | 110 | 170 |
| RD-57 | SMRD-57-GW081910 | Tm-171 | Suspended | 29 U | 120 | 37 | 60 |
| RD-57 | SMRD-57-GW081910 | Tm-171 | Total | 130 | NA | 110 | NA |
| RD-57 | SMRD-57-GW081910 | U-233/234 | Filtered | 5.03 | 0.03 | 0.26 | 0.01 |
| RD-57 | SMRD-57-GW081910 | U-233/234 | Suspended | 0.004 U | 0.034 | 0.011 | 0.012 |
| RD-57 | SMRD-57-GW081910 | U-233/234 | Total | 5.03 | NA | 0.26 | NA |
| RD-57 | SMRD-57-GW081910 | U-235/236 | Filtered | 0.203 | 0.042 | 0.037 | 0.015 |
| RD-57 | SMRD-57-GW081910 | U-235/236 | Suspended | -0.0023 U | 0.032 | 0.0023 | 0.0089 |
| RD-57 | SMRD-57-GW081910 | U-235/236 | Total | 0.2 | NA | 0.037 | NA |
| RD-57 | SMRD-57-GW081910 | U-238 | Filtered | 3.86 | 0.03 | 0.21 | 0.007 |
| RD-57 | SMRD-57-GW081910 | U-238 | Suspended | -0.0044 U | 0.025 | 0.0053 | 0.0071 |
| RD-57 | SMRD-57-GW081910 | U-238 | Total | 3.86 | NA | 0.21 | NA |
| RD-63 | SMRD-63-GW090210 | Ac-227 | Filtered | 0 U | 12 | 3.6 | 5.9 |
| RD-63 | SMRD-63-GW090210 | Ac-227 | Suspended | 0 U | 3.5 | 1 | 1.7 |
| RD-63 | SMRD-63-GW090210 | Ac-227 | Total | 0 | NA | 3.7 | NA |
| RD-63 | SMRD-63-GW090210 | Ac-228 | Filtered | 8.1 B | 3.2 | 1.5 | 1.4 |
| RD-63 | SMRD-63-GW090210 | Ac-228 | Suspended | 0.97 | 1.8 | 0.56 | 0.85 |
| RD-63 | SMRD-63-GW090210 | Ac-228 | Total | 9 B | NA | 1.6 | NA |
| RD-63 | SMRD-63-GW090210 | Ag-108 | Filtered | 0.023 U R | 0.1 | 0.03 | 0.048 |
| RD-63 | SMRD-63-GW090210 | Ag-108 | Suspended | 0.0035 U R | 0.03 | 0.0088 | 0.014 |
| RD-63 | SMRD-63-GW090210 | Ag-108 | Total | 0.026 R | NA | 0.032 | NA |
| RD-63 | SMRD-63-GW090210 | Ag-108m | Filtered | 0.24 U R | 1.1 | 0.33 | 0.52 |
| RD-63 | SMRD-63-GW090210 | Ag-108m | Suspended | 0.038 U R | 0.33 | 0.094 | 0.15 |
| RD-63 | SMRD-63-GW090210 | Ag-108m | Total | 0.28 R | NA | 0.34 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-63 | SMRD-63-GW090210 | Ba-133 | Filtered | 0.3 U R | 14 | 4 | 6.6 |
| RD-63 | SMRD-63-GW090210 | Ba-133 | Suspended | -0.11 U R | 3.3 | 0.97 | 1.6 |
| RD-63 | SMRD-63-GW090210 | Ba-133 | Total | 0.2 R | NA | 4.1 | NA |
| RD-63 | SMRD-63-GW090210 | Ba-137m | Filtered | 0.8 | 1.3 | 0.4 | 0.59 |
| RD-63 | SMRD-63-GW090210 | Ba-137m | Suspended | 0.37 | 0.42 | 0.14 | 0.19 |
| RD-63 | SMRD-63-GW090210 | Ba-137m | Total | 1.17 | NA | 0.42 | NA |
| RD-63 | SMRD-63-GW090210 | Bi-212 | Filtered | -0.03 U | 13 | 3.7 | 6.1 |
| RD-63 | SMRD-63-GW090210 | Bi-212 | Suspended | 1.1 U | 4.1 | 1.2 | 1.9 |
| RD-63 | SMRD-63-GW090210 | Bi-212 | Total | 1 | NA | 3.9 | NA |
| RD-63 | SMRD-63-GW090210 | Bi-214 | Filtered | 2.5 | 3.4 | 1.2 | 1.6 |
| RD-63 | SMRD-63-GW090210 | Bi-214 | Suspended | 0.34 U | 0.95 | 0.32 | 0.45 |
| RD-63 | SMRD-63-GW090210 | Bi-214 | Total | 2.8 | NA | 1.2 | NA |
| RD-63 | SMRD-63-GW090210 | Cd-113m | Filtered | 2100 U | 16000 | 4700 | 7700 |
| RD-63 | SMRD-63-GW090210 | Cd-113m | Suspended | 400 U | 4100 | 1200 | 2000 |
| RD-63 | SMRD-63-GW090210 | Cd-113m | Total | 2500 | NA | 4900 | NA |
| RD-63 | SMRD-63-GW090210 | Cf-249 | Filtered | 0 U R | 7 | 2 | 3.4 |
| RD-63 | SMRD-63-GW090210 | Cf-249 | Suspended | 0.45 U B | 1.7 | 0.5 | 0.79 |
| RD-63 | SMRD-63-GW090210 | Cf-249 | Total | 0.4 B R | NA | 2.1 | NA |
| RD-63 | SMRD-63-GW090210 | Co-60 | Filtered | 0.24 U | 1.7 | 0.47 | 0.74 |
| RD-63 | SMRD-63-GW090210 | Co-60 | Suspended | 0.01 U | 0.62 | 0.17 | 0.28 |
| RD-63 | SMRD-63-GW090210 | Co-60 | Total | 0.25 | NA | 0.5 | NA |
| RD-63 | SMRD-63-GW090210 | Cs-134 | Filtered | 0.23 U | 1.6 | 0.45 | 0.73 |
| RD-63 | SMRD-63-GW090210 | Cs-134 | Suspended | 0.11 U | 0.49 | 0.14 | 0.23 |
| RD-63 | SMRD-63-GW090210 | Cs-134 | Total | 0.34 | NA | 0.48 | NA |
| RD-63 | SMRD-63-GW090210 | Cs-137 | Filtered | 0.84 | 1.3 | 0.42 | 0.62 |
| RD-63 | SMRD-63-GW090210 | Cs-137 | Suspended | 0.39 | 0.44 | 0.14 | 0.21 |
| RD-63 | SMRD-63-GW090210 | Cs-137 | Total | 1.24 | NA | 0.44 | NA |
| RD-63 | SMRD-63-GW090210 | Eu-152 | Filtered | -0.5 U | 3.8 | 1.1 | 1.8 |
| RD-63 | SMRD-63-GW090210 | Eu-152 | Suspended | -0.37 U | 1.2 | 0.37 | 0.6 |
| RD-63 | SMRD-63-GW090210 | Eu-152 | Total | -0.8 | NA | 1.2 | NA |
| RD-63 | SMRD-63-GW090210 | Eu-154 | Filtered | 2 U | 13 | 3.6 | 5.8 |
| RD-63 | SMRD-63-GW090210 | Eu-154 | Suspended | -0.4 U | 3.8 | 1.1 | 1.8 |
| RD-63 | SMRD-63-GW090210 | Eu-154 | Total | 1.5 | NA | 3.8 | NA |
| RD-63 | SMRD-63-GW090210 | Eu-155 | Filtered | 0.1 U | 3.6 | 1.1 | 1.7 |
| RD-63 | SMRD-63-GW090210 | Eu-155 | Suspended | 0.09 U | 0.7 | 0.21 | 0.34 |
| RD-63 | SMRD-63-GW090210 | Eu-155 | Total | 0.2 | NA | 1.1 | NA |
| RD-63 | SMRD-63-GW090210 | gross_alpha | Filtered | 10.3 | 0.58 | 0.72 | 0.32 |
| RD-63 | SMRD-63-GW090210 | gross_alpha | Suspended | 0.69 | 0.56 | 0.22 | 0.29 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-63 | SMRD-63-GW090210 | gross_alpha | Total | 11.6 | NA | 0.82 | NA |
| RD-63 | SMRD-63-GW090210 | gross_beta | Filtered | 12.2 | 1.3 | 0.88 | 0.73 |
| RD-63 | SMRD-63-GW090210 | gross_beta | Suspended | 0.21 U | 0.74 | 0.22 | 0.44 |
| RD-63 | SMRD-63-GW090210 | gross_beta | Total | 12.4 | NA | 0.91 | NA |
| RD-63 | SMRD-63-GW090210 | H-3 | Filtered | 43 U | 130 | 41 | 66 |
| RD-63 | SMRD-63-GW090210 | H-3 | Suspended | -8.3 U R | 23 | 5.7 | 11 |
| RD-63 | SMRD-63-GW090210 | H-3 | Total | 35 R | NA | 41 | NA |
| RD-63 | SMRD-63-GW090210 | Ho-166m | Filtered | -0.6 U | 2.5 | 0.74 | 1.2 |
| RD-63 | SMRD-63-GW090210 | Ho-166m | Suspended | 0.09 U | 0.58 | 0.16 | 0.26 |
| RD-63 | SMRD-63-GW090210 | Ho-166m | Total | -0.5 | NA | 0.76 | NA |
| RD-63 | SMRD-63-GW090210 | K-40 | Filtered | 6.3 U | 24 | 7.6 | 11 |
| RD-63 | SMRD-63-GW090210 | K-40 | Suspended | 3.4 | 6.5 | 2 | 3 |
| RD-63 | SMRD-63-GW090210 | K-40 | Total | 9.7 | NA | 7.9 | NA |
| RD-63 | SMRD-63-GW090210 | Na-22 | Filtered | -0.34 U | 1.9 | 0.54 | 0.86 |
| RD-63 | SMRD-63-GW090210 | Na-22 | Suspended | -0.02 U | 0.69 | 0.19 | 0.31 |
| RD-63 | SMRD-63-GW090210 | Na-22 | Total | -0.36 | NA | 0.57 | NA |
| RD-63 | SMRD-63-GW090210 | Nb-94 | Filtered | 0.5 U | 1.2 | 0.35 | 0.53 |
| RD-63 | SMRD-63-GW090210 | Nb-94 | Suspended | 0.13 U | 0.48 | 0.14 | 0.23 |
| RD-63 | SMRD-63-GW090210 | Nb-94 | Total | 0.63 | NA | 0.38 | NA |
| RD-63 | SMRD-63-GW090210 | Np-236 | Filtered | -0.55 U | 2.5 | 0.74 | 1.2 |
| RD-63 | SMRD-63-GW090210 | Np-236 | Suspended | -0.1 U | 0.72 | 0.21 | 0.35 |
| RD-63 | SMRD-63-GW090210 | Np-236 | Total | -0.65 | NA | 0.77 | NA |
| RD-63 | SMRD-63-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-63 | SMRD-63-GW090210 | Np-239 | Filtered | -1.1 U | 8.5 | 2.5 | 4.1 |
| RD-63 | SMRD-63-GW090210 | Np-239 | Suspended | -0.59 U | 2.4 | 0.72 | 1.2 |
| RD-63 | SMRD-63-GW090210 | Np-239 | Total | -1.7 | NA | 2.6 | NA |
| RD-63 | SMRD-63-GW090210 | Pa-231 | Filtered | 18 U | 58 | 17 | 27 |
| RD-63 | SMRD-63-GW090210 | Pa-231 | Suspended | 0.9 U | 18 | 5.1 | 8.4 |
| RD-63 | SMRD-63-GW090210 | Pa-231 | Total | 19 | NA | 18 | NA |
| RD-63 | SMRD-63-GW090210 | Pb-212 | Filtered | 0.8 U | 2.9 | 1 | 1.4 |
| RD-63 | SMRD-63-GW090210 | Pb-212 | Suspended | 0.38 | 0.74 | 0.26 | 0.36 |
| RD-63 | SMRD-63-GW090210 | Pb-212 | Total | 1.2 | NA | 1.1 | NA |
| RD-63 | SMRD-63-GW090210 | Pb-214 | Filtered | 1.3 U | 3.3 | 1.2 | 1.6 |
| RD-63 | SMRD-63-GW090210 | Pb-214 | Suspended | 0.19 U | 0.74 | 0.22 | 0.35 |
| RD-63 | SMRD-63-GW090210 | Pb-214 | Total | 1.5 | NA | 1.2 | NA |
| RD-63 | SMRD-63-GW090210 | Sb-125 | Filtered | 2 U | 13 | 3.9 | 6.3 |
| RD-63 | SMRD-63-GW090210 | Sb-125 | Suspended | 0.6 U | 3.6 | 1.1 | 1.7 |
| RD-63 | SMRD-63-GW090210 | Sb-125 | Total | 2.6 | NA | 4 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-63 | SMRD-63-GW090210 | Sn-126 | Filtered | 0.64 | 1.4 | 0.42 | 0.64 |
| RD-63 | SMRD-63-GW090210 | Sn-126 | Suspended | 0.16 U | 0.57 | 0.17 | 0.27 |
| RD-63 | SMRD-63-GW090210 | Sn-126 | Total | 0.81 | NA | 0.45 | NA |
| RD-63 | SMRD-63-GW090210 | Sr-90 | Filtered | 0.071 U | 0.14 | 0.044 | 0.081 |
| RD-63 | SMRD-63-GW090210 | Sr-90 | Suspended | 0.02 U | 0.11 | 0.032 | 0.061 |
| RD-63 | SMRD-63-GW090210 | Sr-90 | Total | 0.09 | NA | 0.054 | NA |
| RD-63 | SMRD-63-GW090210 | Te-125m | Filtered | 0.46 U | 3 | 0.9 | 1.5 |
| RD-63 | SMRD-63-GW090210 | Te-125m | Suspended | 0.14 U | 0.84 | 0.25 | 0.4 |
| RD-63 | SMRD-63-GW090210 | Te-125m | Total | 0.6 | NA | 0.93 | NA |
| RD-63 | SMRD-63-GW090210 | Th-231 | Filtered | 0.18 | 0.007 | 0.023 | 0.006 |
| RD-63 | SMRD-63-GW090210 | Th-231 | Suspended | -0.0029 U | 0.021 | 0.0029 | 0.0068 |
| RD-63 | SMRD-63-GW090210 | Th-231 | Total | 0.177 | NA | 0.023 | NA |
| RD-63 | SMRD-63-GW090210 | Th-234 | Filtered | 12 | 21 | 6.8 | 10 |
| RD-63 | SMRD-63-GW090210 | Th-234 | Suspended | 4 | 5.2 | 1.9 | 2.5 |
| RD-63 | SMRD-63-GW090210 | Th-234 | Total | 16 | NA | 7 | NA |
| RD-63 | SMRD-63-GW090210 | Tl-208 | Filtered | -1 U | 2 | 13000 | 1 |
| RD-63 | SMRD-63-GW090210 | Tl-208 | Suspended | -0.13 U | 0.6 | 0.27 | 0.28 |
| RD-63 | SMRD-63-GW090210 | Tl-208 | Total | -2 | NA | 13000 | NA |
| RD-63 | SMRD-63-GW090210 | Tm-171 | Filtered | 71 U | 320 | 96 | 150 |
| RD-63 | SMRD-63-GW090210 | Tm-171 | Suspended | -17 U | 68 | 20 | 33 |
| RD-63 | SMRD-63-GW090210 | Tm-171 | Total | 54 | NA | 98 | NA |
| RD-63 | SMRD-63-GW090210 | U-233/234 | Filtered | 5.32 | 0.02 | 0.25 | 0.005 |
| RD-63 | SMRD-63-GW090210 | U-233/234 | Suspended | 0.001 U | 0.0063 | 0.0052 | 0.0054 |
| RD-63 | SMRD-63-GW090210 | U-233/234 | Total | 5.32 | NA | 0.25 | NA |
| RD-63 | SMRD-63-GW090210 | U-235/236 | Filtered | 0.18 | 0.007 | 0.023 | 0.006 |
| RD-63 | SMRD-63-GW090210 | U-235/236 | Suspended | -0.0029 U | 0.021 | 0.0029 | 0.0068 |
| RD-63 | SMRD-63-GW090210 | U-235/236 | Total | 0.177 | NA | 0.023 | NA |
| RD-63 | SMRD-63-GW090210 | U-238 | Filtered | 5.43 | 0.02 | 0.25 | 0.005 |
| RD-63 | SMRD-63-GW090210 | U-238 | Suspended | 0.0084 | 0.0063 | 0.0062 | 0.0054 |
| RD-63 | SMRD-63-GW090210 | U-238 | Total | 5.44 | NA | 0.25 | NA |
| RD-64 | SMRD-064-GW091010 | Ac-227 | Filtered | -4.6 U | 10 | 3.2 | 5.1 |
| RD-64 | SMRD-064-GW091010 | Ac-227 | Suspended | -1.4 U | 3.7 | 1.1 | 1.8 |
| RD-64 | SMRD-064-GW091010 | Ac-227 | Total | -6.1 | NA | 3.4 | NA |
| RD-64 | SMRD-064-GW091010 | Ac-228 | Filtered | 4.2 B | 5.4 | 1.7 | 2.5 |
| RD-64 | SMRD-064-GW091010 | Ac-228 | Suspended | 0.88 U | 2.1 | 0.62 | 0.95 |
| RD-64 | SMRD-064-GW091010 | Ac-228 | Total | 5.1 B | NA | 1.8 | NA |
| RD-64 | SMRD-064-GW091010 | Ag-108 | Filtered | -0.007 U R | 0.1 | 0.029 | 0.047 |
| RD-64 | SMRD-064-GW091010 | Ag-108 | Suspended | 0.007 U R | 0.04 | 0.012 | 0.019 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-64 | SMRD-064-GW091010 | Ag-108 | Total | 0.0003 R | NA | 0.031 | NA |
| RD-64 | SMRD-064-GW091010 | Ag-108m | Filtered | -0.07 U R | 1.1 | 0.31 | 0.51 |
| RD-64 | SMRD-064-GW091010 | Ag-108m | Suspended | 0.08 U R | 0.43 | 0.13 | 0.2 |
| RD-64 | SMRD-064-GW091010 | Ag-108m | Total | 0.003 R | NA | 0.33 | NA |
| RD-64 | SMRD-064-GW091010 | Ba-133 | Filtered | 0.6 U R | 13 | 3.7 | 6 |
| RD-64 | SMRD-064-GW091010 | Ba-133 | Suspended | 1.8 U R | 5.2 | 1.6 | 2.5 |
| RD-64 | SMRD-064-GW091010 | Ba-133 | Total | 2.4 R | NA | 4 | NA |
| RD-64 | SMRD-064-GW091010 | Ba-137m | Filtered | -0.37 U | 1.6 | 0.47 | 0.76 |
| RD-64 | SMRD-064-GW091010 | Ba-137m | Suspended | -0.11 U | 0.81 | 0.33 | 0.39 |
| RD-64 | SMRD-064-GW091010 | Ba-137m | Total | -0.48 | NA | 0.58 | NA |
| RD-64 | SMRD-064-GW091010 | Bi-212 | Filtered | 6.5 | 12 | 3.6 | 5.3 |
| RD-64 | SMRD-064-GW091010 | Bi-212 | Suspended | -0.06 U | 5.5 | 1.6 | 2.6 |
| RD-64 | SMRD-064-GW091010 | Bi-212 | Total | 6.4 | NA | 3.9 | NA |
| RD-64 | SMRD-064-GW091010 | Bi-214 | Filtered | 2.7 | 3.3 | 1.1 | 1.6 |
| RD-64 | SMRD-064-GW091010 | Bi-214 | Suspended | -0.7 U | 1.6 | 1 | 0.8 |
| RD-64 | SMRD-064-GW091010 | Bi-214 | Total | 2.1 | NA | 1.5 | NA |
| RD-64 | SMRD-064-GW091010 | Cd-113m | Filtered | -700 U | 17000 | 5100 | 8400 |
| RD-64 | SMRD-064-GW091010 | Cd-113m | Suspended | -500 U | 6900 | 2000 | 3300 |
| RD-64 | SMRD-064-GW091010 | Cd-113m | Total | -1200 | NA | 5500 | NA |
| RD-64 | SMRD-064-GW091010 | Cf-249 | Filtered | 1.3 U R | 7 | 2.1 | 3.3 |
| RD-64 | SMRD-064-GW091010 | Cf-249 | Suspended | 0.49 U B | 2.7 | 0.81 | 1.3 |
| RD-64 | SMRD-064-GW091010 | Cf-249 | Total | 1.8 B R | NA | 2.2 | NA |
| RD-64 | SMRD-064-GW091010 | Co-60 | Filtered | 0.26 U | 1.8 | 0.51 | 0.82 |
| RD-64 | SMRD-064-GW091010 | Co-60 | Suspended | -0.1 U | 0.74 | 0.21 | 0.34 |
| RD-64 | SMRD-064-GW091010 | Co-60 | Total | 0.15 | NA | 0.55 | NA |
| RD-64 | SMRD-064-GW091010 | Cs-134 | Filtered | -0.41 U | 1.8 | 0.52 | 0.83 |
| RD-64 | SMRD-064-GW091010 | Cs-134 | Suspended | 0.01 U | 0.67 | 0.19 | 0.32 |
| RD-64 | SMRD-064-GW091010 | Cs-134 | Total | -0.4 | NA | 0.55 | NA |
| RD-64 | SMRD-064-GW091010 | Cs-137 | Filtered | -0.39 U | 1.7 | 0.5 | 0.8 |
| RD-64 | SMRD-064-GW091010 | Cs-137 | Suspended | -0.11 U | 0.86 | 0.35 | 0.41 |
| RD-64 | SMRD-064-GW091010 | Cs-137 | Total | -0.5 | NA | 0.61 | NA |
| RD-64 | SMRD-064-GW091010 | Eu-152 | Filtered | -0.44 U | 3.2 | 0.94 | 1.5 |
| RD-64 | SMRD-064-GW091010 | Eu-152 | Suspended | -0.05 U | 1.6 | 0.47 | 0.77 |
| RD-64 | SMRD-064-GW091010 | Eu-152 | Total | -0.5 | NA | 1.1 | NA |
| RD-64 | SMRD-064-GW091010 | Eu-154 | Filtered | 3.7 U | 13 | 3.9 | 6.1 |
| RD-64 | SMRD-064-GW091010 | Eu-154 | Suspended | -1.2 U | 5.3 | 1.5 | 2.5 |
| RD-64 | SMRD-064-GW091010 | Eu-154 | Total | 2.5 | NA | 4.2 | NA |
| RD-64 | SMRD-064-GW091010 | Eu-155 | Filtered | 0.63 U | 2.9 | 0.85 | 1.4 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-64 | SMRD-064-GW091010 | Eu-155 | Suspended | 0.37 U | 1.1 | 0.34 | 0.54 |
| RD-64 | SMRD-064-GW091010 | Eu-155 | Total | 1 | NA | 0.92 | NA |
| RD-64 | SMRD-064-GW091010 | gross_alpha | Filtered | 5.38 | 0.55 | 0.48 | 0.3 |
| RD-64 | SMRD-064-GW091010 | gross_alpha | Suspended | 0.05 U | 0.49 | 0.13 | 0.26 |
| RD-64 | SMRD-064-GW091010 | gross_alpha | Total | 5.64 | NA | 0.53 | NA |
| RD-64 | SMRD-064-GW091010 | gross_beta | Filtered | 5.64 | 1.2 | 0.6 | 0.7 |
| RD-64 | SMRD-064-GW091010 | gross_beta | Suspended | -0.42 L U | 0.75 | 0.19 | 0.45 |
| RD-64 | SMRD-064-GW091010 | gross_beta | Total | 5.22 | NA | 0.63 | NA |
| RD-64 | SMRD-064-GW091010 | H-3 | Filtered | 78 | 130 | 41 | 65 |
| RD-64 | SMRD-064-GW091010 | H-3 | Suspended | -2.2 U R | 13 | 3.4 | 5.8 |
| RD-64 | SMRD-064-GW091010 | H-3 | Total | 76 R | NA | 41 | NA |
| RD-64 | SMRD-064-GW091010 | Ho-166m | Filtered | -0.56 U | 2.5 | 0.72 | 1.1 |
| RD-64 | SMRD-064-GW091010 | Ho-166m | Suspended | -0.2 U | 1 | 0.3 | 0.48 |
| RD-64 | SMRD-064-GW091010 | Ho-166m | Total | -0.77 | NA | 0.78 | NA |
| RD-64 | SMRD-064-GW091010 | K-40 | Filtered | -6.8 U | 25 | 8.9 | 11 |
| RD-64 | SMRD-064-GW091010 | K-40 | Suspended | -5.4 U | 11 | 7.5 | 4.9 |
| RD-64 | SMRD-064-GW091010 | K-40 | Total | -12 | NA | 12 | NA |
| RD-64 | SMRD-064-GW091010 | Na-22 | Filtered | 0.66 U | 1.7 | 0.52 | 0.78 |
| RD-64 | SMRD-064-GW091010 | Na-22 | Suspended | 0.21 U | 0.81 | 0.24 | 0.37 |
| RD-64 | SMRD-064-GW091010 | Na-22 | Total | 0.86 | NA | 0.57 | NA |
| RD-64 | SMRD-064-GW091010 | Nb-94 | Filtered | 0.69 | 1.2 | 0.37 | 0.56 |
| RD-64 | SMRD-064-GW091010 | Nb-94 | Suspended | 0.15 U | 0.56 | 0.17 | 0.26 |
| RD-64 | SMRD-064-GW091010 | Nb-94 | Total | 0.84 | NA | 0.41 | NA |
| RD-64 | SMRD-064-GW091010 | Np-236 | Filtered | -0.09 U | 2.7 | 0.8 | 1.3 |
| RD-64 | SMRD-064-GW091010 | Np-236 | Suspended | -0.2 U | 1.2 | 0.35 | 0.58 |
| RD-64 | SMRD-064-GW091010 | Np-236 | Total | -0.29 | NA | 0.87 | NA |
| RD-64 | SMRD-064-GW091010 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-64 | SMRD-064-GW091010 | Np-239 | Filtered | -4.9 U | 8.9 | 2.7 | 4.3 |
| RD-64 | SMRD-064-GW091010 | Np-239 | Suspended | -0.98 U | 3.3 | 0.99 | 1.6 |
| RD-64 | SMRD-064-GW091010 | Np-239 | Total | -5.9 L | NA | 2.9 | NA |
| RD-64 | SMRD-064-GW091010 | Pa-231 | Filtered | -5 U | 58 | 17 | 28 |
| RD-64 | SMRD-064-GW091010 | Pa-231 | Suspended | -0.3 U | 21 | 6.1 | 10 |
| RD-64 | SMRD-064-GW091010 | Pa-231 | Total | -6 | NA | 18 | NA |
| RD-64 | SMRD-064-GW091010 | Pb-212 | Filtered | 0.59 U | 2.9 | 0.96 | 1.4 |
| RD-64 | SMRD-064-GW091010 | Pb-212 | Suspended | 0.42 U | 1.1 | 0.44 | 0.55 |
| RD-64 | SMRD-064-GW091010 | Pb-212 | Total | 1 | NA | 1.1 | NA |
| RD-64 | SMRD-064-GW091010 | Pb-214 | Filtered | 1 U | 3.2 | 1 | 1.5 |
| RD-64 | SMRD-064-GW091010 | Pb-214 | Suspended | -1.1 U | 1.4 | 1.3 | 0.7 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-64 | SMRD-064-GW091010 | Pb-214 | Total | -0.08 | NA | 1.7 | NA |
| RD-64 | SMRD-064-GW091010 | Sb-125 | Filtered | -0.05 U | 11 | 3.3 | 5.5 |
| RD-64 | SMRD-064-GW091010 | Sb-125 | Suspended | 1 U | 6.1 | 1.8 | 3 |
| RD-64 | SMRD-064-GW091010 | Sb-125 | Total | 1 | NA | 3.8 | NA |
| RD-64 | SMRD-064-GW091010 | Sn-126 | Filtered | 0.07 U | 1.8 | 0.52 | 0.85 |
| RD-64 | SMRD-064-GW091010 | Sn-126 | Suspended | 0.28 U | 0.66 | 0.2 | 0.31 |
| RD-64 | SMRD-064-GW091010 | Sn-126 | Total | 0.35 | NA | 0.56 | NA |
| RD-64 | SMRD-064-GW091010 | Sr-90 | Filtered | -0.018 U | 0.1 | 0.029 | 0.057 |
| RD-64 | SMRD-064-GW091010 | Sr-90 | Suspended | -0.03 U | 0.1 | 0.029 | 0.059 |
| RD-64 | SMRD-064-GW091010 | Sr-90 | Total | -0.047 | NA | 0.041 | NA |
| RD-64 | SMRD-064-GW091010 | Te-125m | Filtered | -0.01 U | 2.6 | 0.77 | 1.3 |
| RD-64 | SMRD-064-GW091010 | Te-125m | Suspended | 0.24 U | 1.4 | 0.42 | 0.68 |
| RD-64 | SMRD-064-GW091010 | Te-125m | Total | 0.23 | NA | 0.87 | NA |
| RD-64 | SMRD-064-GW091010 | Th-231 | Filtered | 0.094 | 0.007 | 0.016 | 0.006 |
| RD-64 | SMRD-064-GW091010 | Th-231 | Suspended | 0 U | 0.035 | 0.0067 | 0.011 |
| RD-64 | SMRD-064-GW091010 | Th-231 | Total | 0.094 | NA | 0.017 | NA |
| RD-64 | SMRD-064-GW091010 | Th-234 | Filtered | -4 U | 22 | 8.2 | 11 |
| RD-64 | SMRD-064-GW091010 | Th-234 | Suspended | 6.4 | 7.4 | 2.7 | 3.6 |
| RD-64 | SMRD-064-GW091010 | Th-234 | Total | 2.4 | NA | 8.6 | NA |
| RD-64 | SMRD-064-GW091010 | Tl-208 | Filtered | -0.54 U | 1.8 | 0.99 | 0.86 |
| RD-64 | SMRD-064-GW091010 | Tl-208 | Suspended | -0.01 U | 0.75 | 0.21 | 0.36 |
| RD-64 | SMRD-064-GW091010 | Tl-208 | Total | -0.5 | NA | 1 | NA |
| RD-64 | SMRD-064-GW091010 | Tm-171 | Filtered | 130 U | 360 | 110 | 170 |
| RD-64 | SMRD-064-GW091010 | Tm-171 | Suspended | -144 R U | 130 | 40 | 62 |
| RD-64 | SMRD-064-GW091010 | Tm-171 | Total | -10 R | NA | 120 | NA |
| RD-64 | SMRD-064-GW091010 | U-233/234 | Filtered | 2.46 | 0.02 | 0.13 | 0.007 |
| RD-64 | SMRD-064-GW091010 | U-233/234 | Suspended | 0.057 | 0.05 | 0.021 | 0.02 |
| RD-64 | SMRD-064-GW091010 | U-233/234 | Total | 2.52 | NA | 0.13 | NA |
| RD-64 | SMRD-064-GW091010 | U-235/236 | Filtered | 0.094 | 0.007 | 0.016 | 0.006 |
| RD-64 | SMRD-064-GW091010 | U-235/236 | Suspended | 0 U | 0.035 | 0.0067 | 0.011 |
| RD-64 | SMRD-064-GW091010 | U-235/236 | Total | 0.094 | NA | 0.017 | NA |
| RD-64 | SMRD-064-GW091010 | U-238 | Filtered | 1.88 | 0.006 | 0.1 | 0.005 |
| RD-64 | SMRD-064-GW091010 | U-238 | Suspended | 0.061 | 0.035 | 0.019 | 0.012 |
| RD-64 | SMRD-064-GW091010 | U-238 | Total | 1.94 | NA | 0.1 | NA |
| RD-65 | SMRD-65-GW090210 | Ac-227 | Filtered | -3.5 U | 9.1 | 2.8 | 4.4 |
| RD-65 | SMRD-65-GW090210 | Ac-227 | Suspended | -1.4 U | 4.7 | 1.4 | 2.3 |
| RD-65 | SMRD-65-GW090210 | Ac-227 | Total | -4.9 | NA | 3.1 | NA |
| RD-65 | SMRD-65-GW090210 | Ac-228 | Filtered | 3.3 B | 4.1 | 1.3 | 1.9 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-65 | SMRD-65-GW090210 | Ac-228 | Suspended | 5.5 | 2 | 0.83 | 0.92 |
| RD-65 | SMRD-65-GW090210 | Ac-228 | Total | 8.8 B | NA | 1.5 | NA |
| RD-65 | SMRD-65-GW090210 | Ag-108 | Filtered | 0.001 U R | 0.098 | 0.029 | 0.047 |
| RD-65 | SMRD-65-GW090210 | Ag-108 | Suspended | -0.001 U R | 0.063 | 0.019 | 0.031 |
| RD-65 | SMRD-65-GW090210 | Ag-108 | Total | 0.0001 R | NA | 0.034 | NA |
| RD-65 | SMRD-65-GW090210 | Ag-108m | Filtered | 0.02 U R | 1.1 | 0.31 | 0.51 |
| RD-65 | SMRD-65-GW090210 | Ag-108m | Suspended | -0.01 U R | 0.68 | 0.2 | 0.33 |
| RD-65 | SMRD-65-GW090210 | Ag-108m | Total | 0.001 R | NA | 0.37 | NA |
| RD-65 | SMRD-65-GW090210 | Ba-133 | Filtered | -0.8 U R | 13 | 3.9 | 6.4 |
| RD-65 | SMRD-65-GW090210 | Ba-133 | Suspended | -1 U R | 6 | 1.8 | 2.9 |
| RD-65 | SMRD-65-GW090210 | Ba-133 | Total | -1.8 R | NA | 4.3 | NA |
| RD-65 | SMRD-65-GW090210 | Ba-137m | Filtered | 0.29 U | 1.2 | 0.35 | 0.56 |
| RD-65 | SMRD-65-GW090210 | Ba-137m | Suspended | -0.02 U | 0.66 | 0.19 | 0.31 |
| RD-65 | SMRD-65-GW090210 | Ba-137m | Total | 0.27 | NA | 0.4 | NA |
| RD-65 | SMRD-65-GW090210 | Bi-212 | Filtered | -9 U | 11 | 15 | 5 |
| RD-65 | SMRD-65-GW090210 | Bi-212 | Suspended | 0.4 U | 6.7 | 1.9 | 3.2 |
| RD-65 | SMRD-65-GW090210 | Bi-212 | Total | -8 | NA | 15 | NA |
| RD-65 | SMRD-65-GW090210 | Bi-214 | Filtered | 3.3 | 3.1 | 1.2 | 1.5 |
| RD-65 | SMRD-65-GW090210 | Bi-214 | Suspended | 0.35 U | 1.9 | 0.73 | 0.9 |
| RD-65 | SMRD-65-GW090210 | Bi-214 | Total | 3.7 | NA | 1.4 | NA |
| RD-65 | SMRD-65-GW090210 | Cd-113m | Filtered | 3000 U | 14000 | 4100 | 6600 |
| RD-65 | SMRD-65-GW090210 | Cd-113m | Suspended | 600 U | 8200 | 2400 | 4000 |
| RD-65 | SMRD-65-GW090210 | Cd-113m | Total | 3600 | NA | 4700 | NA |
| RD-65 | SMRD-65-GW090210 | Cf-249 | Filtered | 1.4 U R | 5.5 | 1.7 | 2.7 |
| RD-65 | SMRD-65-GW090210 | Cf-249 | Suspended | -1.03 U B | 3.1 | 0.95 | 1.5 |
| RD-65 | SMRD-65-GW090210 | Cf-249 | Total | 0.3 B R | NA | 1.9 | NA |
| RD-65 | SMRD-65-GW090210 | Co-60 | Filtered | 0.3 U | 1.3 | 0.37 | 0.59 |
| RD-65 | SMRD-65-GW090210 | Co-60 | Suspended | 0.05 U | 0.76 | 0.22 | 0.35 |
| RD-65 | SMRD-65-GW090210 | Co-60 | Total | 0.34 | NA | 0.43 | NA |
| RD-65 | SMRD-65-GW090210 | Cs-134 | Filtered | 0.27 U | 1.2 | 0.35 | 0.56 |
| RD-65 | SMRD-65-GW090210 | Cs-134 | Suspended | -0.13 U | 0.88 | 0.26 | 0.42 |
| RD-65 | SMRD-65-GW090210 | Cs-134 | Total | 0.13 | NA | 0.44 | NA |
| RD-65 | SMRD-65-GW090210 | Cs-137 | Filtered | 0.31 U | 1.2 | 0.37 | 0.59 |
| RD-65 | SMRD-65-GW090210 | Cs-137 | Suspended | -0.03 U | 0.7 | 0.2 | 0.33 |
| RD-65 | SMRD-65-GW090210 | Cs-137 | Total | 0.28 | NA | 0.42 | NA |
| RD-65 | SMRD-65-GW090210 | Eu-152 | Filtered | 0.11 U | 3.2 | 0.92 | 1.5 |
| RD-65 | SMRD-65-GW090210 | Eu-152 | Suspended | 0 U | 1.9 | 0.54 | 0.9 |
| RD-65 | SMRD-65-GW090210 | Eu-152 | Total | 0.1 | NA | 1.1 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|------|-------|----------------|
| RD-65 | SMRD-65-GW090210 | Eu-154 | Filtered | 0.8 U | 10 | 2.9 | 4.8 |
| RD-65 | SMRD-65-GW090210 | Eu-154 | Suspended | 2.7 | 5.5 | 1.7 | 2.6 |
| RD-65 | SMRD-65-GW090210 | Eu-154 | Total | 3.5 | NA | 3.4 | NA |
| RD-65 | SMRD-65-GW090210 | Eu-155 | Filtered | 0.5 U | 3.6 | 1.1 | 1.7 |
| RD-65 | SMRD-65-GW090210 | Eu-155 | Suspended | 0.23 U | 1.4 | 0.42 | 0.69 |
| RD-65 | SMRD-65-GW090210 | Eu-155 | Total | 0.8 | NA | 1.1 | NA |
| RD-65 | SMRD-65-GW090310 | gross_alpha | Filtered | 4.02 | 0.48 | 0.41 | 0.26 |
| RD-65 | SMRD-65-GW090310 | gross_alpha | Suspended | -0.158 L U | 0.4 | 0.061 | 0.2 |
| RD-65 | SMRD-65-GW090310 | gross_alpha | Total | 3.86 | NA | 0.42 | NA |
| RD-65 | SMRD-65-GW090310 | gross_beta | Filtered | 4 | 1.1 | 0.51 | 0.65 |
| RD-65 | SMRD-65-GW090310 | gross_beta | Suspended | 0.53 | 0.8 | 0.25 | 0.48 |
| RD-65 | SMRD-65-GW090310 | gross_beta | Total | 4.53 | NA | 0.57 | NA |
| RD-65 | SMRD-65-GW090210 | H-3 | Filtered | 15 U | 130 | 38 | 63 |
| RD-65 | SMRD-65-GW090210 | H-3 | Suspended | 8.2 R | 16 | 5.1 | 7.1 |
| RD-65 | SMRD-65-GW090210 | H-3 | Total | 23 R | NA | 39 | NA |
| RD-65 | SMRD-65-GW090210 | Ho-166m | Filtered | 0.27 U | 1.7 | 0.51 | 0.82 |
| RD-65 | SMRD-65-GW090210 | Ho-166m | Suspended | 0.04 U | 0.9 | 0.26 | 0.42 |
| RD-65 | SMRD-65-GW090210 | Ho-166m | Total | 0.3 | NA | 0.57 | NA |
| RD-65 | SMRD-65-GW090210 | K-40 | Filtered | 13.5 | 25 | 7.3 | 12 |
| RD-65 | SMRD-65-GW090210 | K-40 | Suspended | -0.8 U | 14 | 3.5 | 6.9 |
| RD-65 | SMRD-65-GW090210 | K-40 | Total | 12.7 | NA | 8.1 | NA |
| RD-65 | SMRD-65-GW090210 | Na-22 | Filtered | -0.14 U | 1.4 | 0.41 | 0.66 |
| RD-65 | SMRD-65-GW090210 | Na-22 | Suspended | -0.19 U | 0.85 | 0.25 | 0.39 |
| RD-65 | SMRD-65-GW090210 | Na-22 | Total | -0.33 | NA | 0.48 | NA |
| RD-65 | SMRD-65-GW090210 | Nb-94 | Filtered | 0.04 U | 1.3 | 0.39 | 0.64 |
| RD-65 | SMRD-65-GW090210 | Nb-94 | Suspended | 0.08 U | 0.75 | 0.22 | 0.36 |
| RD-65 | SMRD-65-GW090210 | Nb-94 | Total | 0.12 | NA | 0.45 | NA |
| RD-65 | SMRD-65-GW090210 | Np-236 | Filtered | 0.006 U | 2.9 | 0.87 | 1.4 |
| RD-65 | SMRD-65-GW090210 | Np-236 | Suspended | 0.31 U | 1.3 | 0.39 | 0.63 |
| RD-65 | SMRD-65-GW090210 | Np-236 | Total | 0.31 | NA | 0.95 | NA |
| RD-65 | SMRD-65-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-65 | SMRD-65-GW090210 | Np-239 | Filtered | -1.3 U | 8.1 | 2.4 | 3.9 |
| RD-65 | SMRD-65-GW090210 | Np-239 | Suspended | -0.6 U | 4.1 | 1.2 | 2 |
| RD-65 | SMRD-65-GW090210 | Np-239 | Total | -1.9 | NA | 2.7 | NA |
| RD-65 | SMRD-65-GW090210 | Pa-231 | Filtered | 0 U | 55 | 16 | 26 |
| RD-65 | SMRD-65-GW090210 | Pa-231 | Suspended | -0.2 U | 26 | 7.5 | 12 |
| RD-65 | SMRD-65-GW090210 | Pa-231 | Total | -0.2 | NA | 18 | NA |
| RD-65 | SMRD-65-GW090210 | Pb-212 | Filtered | 0.47 U | 2.9 | 0.9 | 1.4 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-65 | SMRD-65-GW090210 | Pb-212 | Suspended | -0.36 U | 1.6 | 0.56 | 0.77 |
| RD-65 | SMRD-65-GW090210 | Pb-212 | Total | 0.1 | NA | 1.1 | NA |
| RD-65 | SMRD-65-GW090210 | Pb-214 | Filtered | 1.54 | 2.7 | 0.96 | 1.3 |
| RD-65 | SMRD-65-GW090210 | Pb-214 | Suspended | 0.51 U | 1.4 | 0.46 | 0.67 |
| RD-65 | SMRD-65-GW090210 | Pb-214 | Total | 2.1 | NA | 1.1 | NA |
| RD-65 | SMRD-65-GW090210 | Sb-125 | Filtered | -5.3 U | 15 | 4.6 | 7.4 |
| RD-65 | SMRD-65-GW090210 | Sb-125 | Suspended | 0.2 U | 7.2 | 2.1 | 3.5 |
| RD-65 | SMRD-65-GW090210 | Sb-125 | Total | -5.1 | NA | 5 | NA |
| RD-65 | SMRD-65-GW090210 | Sn-126 | Filtered | 0.08 U | 1.3 | 0.37 | 0.6 |
| RD-65 | SMRD-65-GW090210 | Sn-126 | Suspended | 0.3 U | 0.7 | 0.21 | 0.33 |
| RD-65 | SMRD-65-GW090210 | Sn-126 | Total | 0.38 | NA | 0.42 | NA |
| RD-65 | SMRD-65-GW090310 | Sr-90 | Filtered | -0.014 U | 0.16 | 0.047 | 0.093 |
| RD-65 | SMRD-65-GW090310 | Sr-90 | Suspended | 0.026 U | 0.1 | 0.03 | 0.057 |
| RD-65 | SMRD-65-GW090310 | Sr-90 | Total | 0.012 | NA | 0.056 | NA |
| RD-65 | SMRD-65-GW090210 | Te-125m | Filtered | -1.2 U | 3.5 | 1.1 | 1.7 |
| RD-65 | SMRD-65-GW090210 | Te-125m | Suspended | 0.04 U | 1.7 | 0.49 | 0.81 |
| RD-65 | SMRD-65-GW090210 | Te-125m | Total | -1.2 | NA | 1.2 | NA |
| RD-65 | SMRD-65-GW090210 | Th-231 | Filtered | 0.046 | 0.02 | 0.012 | 0.006 |
| RD-65 | SMRD-65-GW090210 | Th-231 | Suspended | 0 U | 0.021 | 0.004 | 0.0067 |
| RD-65 | SMRD-65-GW090210 | Th-231 | Total | 0.046 | NA | 0.013 | NA |
| RD-65 | SMRD-65-GW090210 | Th-234 | Filtered | -6.5 U | 21 | 8.9 | 10 |
| RD-65 | SMRD-65-GW090210 | Th-234 | Suspended | 1.1 U | 8.6 | 3.1 | 4.2 |
| RD-65 | SMRD-65-GW090210 | Th-234 | Total | -5.5 | NA | 9.4 | NA |
| RD-65 | SMRD-65-GW090210 | Tl-208 | Filtered | 0.5 U | 1.7 | 0.62 | 0.81 |
| RD-65 | SMRD-65-GW090210 | Tl-208 | Suspended | 0.14 U | 0.98 | 0.33 | 0.47 |
| RD-65 | SMRD-65-GW090210 | Tl-208 | Total | 0.64 | NA | 0.7 | NA |
| RD-65 | SMRD-65-GW090210 | Tm-171 | Filtered | 30 U | 420 | 120 | 200 |
| RD-65 | SMRD-65-GW090210 | Tm-171 | Suspended | -42 U | 140 | 43 | 70 |
| RD-65 | SMRD-65-GW090210 | Tm-171 | Total | -20 | NA | 130 | NA |
| RD-65 | SMRD-65-GW090210 | U-233/234 | Filtered | 1.58 | 0.016 | 0.089 | 0.005 |
| RD-65 | SMRD-65-GW090210 | U-233/234 | Suspended | 0.014 | 0.03 | 0.011 | 0.012 |
| RD-65 | SMRD-65-GW090210 | U-233/234 | Total | 1.59 | NA | 0.089 | NA |
| RD-65 | SMRD-65-GW090210 | U-235/236 | Filtered | 0.046 | 0.02 | 0.012 | 0.006 |
| RD-65 | SMRD-65-GW090210 | U-235/236 | Suspended | 0 U | 0.021 | 0.004 | 0.0067 |
| RD-65 | SMRD-65-GW090210 | U-235/236 | Total | 0.046 | NA | 0.013 | NA |
| RD-65 | SMRD-65-GW090210 | U-238 | Filtered | 0.928 | 0.006 | 0.06 | 0.005 |
| RD-65 | SMRD-65-GW090210 | U-238 | Suspended | -0.0039 U | 0.021 | 0.0056 | 0.0075 |
| RD-65 | SMRD-65-GW090210 | U-238 | Total | 0.924 | NA | 0.06 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-70 | SMRD-70-GW082310 | Ac-227 | Filtered | -1.5 U | 9.2 | 2.7 | 4.4 |
| RD-70 | SMRD-70-GW082310 | Ac-227 | Suspended | -2.6 U | 4.2 | 1.3 | 2 |
| RD-70 | SMRD-70-GW082310 | Ac-227 | Total | -4.1 | NA | 3 | NA |
| RD-70 | SMRD-70-GW082310 | Ac-228 | Filtered | 1.3 U | 4.9 | 1.4 | 2.3 |
| RD-70 | SMRD-70-GW082310 | Ac-228 | Suspended | 2.34 | 2.2 | 0.72 | 1 |
| RD-70 | SMRD-70-GW082310 | Ac-228 | Total | 3.6 | NA | 1.6 | NA |
| RD-70 | SMRD-70-GW082310 | Ag-108 | Filtered | 0.014 U R | 0.09 | 0.026 | 0.042 |
| RD-70 | SMRD-70-GW082310 | Ag-108 | Suspended | 0.0009 U R | 0.045 | 0.013 | 0.021 |
| RD-70 | SMRD-70-GW082310 | Ag-108 | Total | 0.015 R | NA | 0.029 | NA |
| RD-70 | SMRD-70-GW082310 | Ag-108m | Filtered | 0.15 U R | 0.97 | 0.28 | 0.46 |
| RD-70 | SMRD-70-GW082310 | Ag-108m | Suspended | 0.01 U R | 0.48 | 0.14 | 0.23 |
| RD-70 | SMRD-70-GW082310 | Ag-108m | Total | 0.16 R | NA | 0.32 | NA |
| RD-70 | SMRD-70-GW082310 | Ba-133 | Filtered | 6 R | 12 | 3.7 | 5.9 |
| RD-70 | SMRD-70-GW082310 | Ba-133 | Suspended | -0.1 U R | 6.4 | 1.9 | 3.1 |
| RD-70 | SMRD-70-GW082310 | Ba-133 | Total | 5.9 R | NA | 4.2 | NA |
| RD-70 | SMRD-70-GW082310 | Ba-137m | Filtered | -0.23 U | 1.2 | 0.36 | 0.57 |
| RD-70 | SMRD-70-GW082310 | Ba-137m | Suspended | 0 U | 0.7 | 0.2 | 0.33 |
| RD-70 | SMRD-70-GW082310 | Ba-137m | Total | -0.23 | NA | 0.41 | NA |
| RD-70 | SMRD-70-GW082310 | Bi-212 | Filtered | -0.8 U | 11 | 3.2 | 5.3 |
| RD-70 | SMRD-70-GW082310 | Bi-212 | Suspended | -2 U | 7 | 43 | 3 |
| RD-70 | SMRD-70-GW082310 | Bi-212 | Total | -3 | NA | 43 | NA |
| RD-70 | SMRD-70-GW082310 | Bi-214 | Filtered | -0.3 U | 3.2 | 1 | 1.5 |
| RD-70 | SMRD-70-GW082310 | Bi-214 | Suspended | 1.22 | 1.6 | 0.6 | 0.76 |
| RD-70 | SMRD-70-GW082310 | Bi-214 | Total | 0.9 | NA | 1.2 | NA |
| RD-70 | SMRD-70-GW082310 | Cd-113m | Filtered | -200 U | 13000 | 3800 | 6200 |
| RD-70 | SMRD-70-GW082310 | Cd-113m | Suspended | -1400 U | 7500 | 2200 | 3600 |
| RD-70 | SMRD-70-GW082310 | Cd-113m | Total | -1500 | NA | 4400 | NA |
| RD-70 | SMRD-70-GW082310 | Cf-249 | Filtered | 1.4 U R | 6 | 1.8 | 2.9 |
| RD-70 | SMRD-70-GW082310 | Cf-249 | Suspended | 0.02 U R | 2.5 | 0.72 | 1.2 |
| RD-70 | SMRD-70-GW082310 | Cf-249 | Total | 1.5 R | NA | 1.9 | NA |
| RD-70 | SMRD-70-GW082310 | Co-60 | Filtered | 0.28 U | 1.4 | 0.41 | 0.65 |
| RD-70 | SMRD-70-GW082310 | Co-60 | Suspended | 0.33 U | 0.75 | 0.23 | 0.35 |
| RD-70 | SMRD-70-GW082310 | Co-60 | Total | 0.6 | NA | 0.47 | NA |
| RD-70 | SMRD-70-GW082310 | Cs-134 | Filtered | 0 U | 2.3 | 0.68 | 1.1 |
| RD-70 | SMRD-70-GW082310 | Cs-134 | Suspended | -0.007 U | 0.78 | 0.23 | 0.37 |
| RD-70 | SMRD-70-GW082310 | Cs-134 | Total | -0.007 | NA | 0.71 | NA |
| RD-70 | SMRD-70-GW082310 | Cs-137 | Filtered | -0.24 U | 1.3 | 0.38 | 0.6 |
| RD-70 | SMRD-70-GW082310 | Cs-137 | Suspended | 0 U | 0.74 | 0.21 | 0.35 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-70 | SMRD-70-GW082310 | Cs-137 | Total | -0.24 | NA | 0.43 | NA |
| RD-70 | SMRD-70-GW082310 | Eu-152 | Filtered | 0.12 U | 3.2 | 0.94 | 1.5 |
| RD-70 | SMRD-70-GW082310 | Eu-152 | Suspended | 0.004 U | 1.8 | 0.54 | 0.89 |
| RD-70 | SMRD-70-GW082310 | Eu-152 | Total | 0.1 | NA | 1.1 | NA |
| RD-70 | SMRD-70-GW082310 | Eu-154 | Filtered | 1.2 U | 11 | 3.2 | 5.3 |
| RD-70 | SMRD-70-GW082310 | Eu-154 | Suspended | 1.7 U | 5.8 | 1.7 | 2.7 |
| RD-70 | SMRD-70-GW082310 | Eu-154 | Total | 2.9 | NA | 3.7 | NA |
| RD-70 | SMRD-70-GW082310 | Eu-155 | Filtered | 0.34 U | 2.7 | 0.81 | 1.3 |
| RD-70 | SMRD-70-GW082310 | Eu-155 | Suspended | 0.41 U | 1.1 | 0.33 | 0.53 |
| RD-70 | SMRD-70-GW082310 | Eu-155 | Total | 0.75 | NA | 0.87 | NA |
| RD-70 | SMRD-70-GW082310 | gross_alpha | Filtered | 3.11 | 0.48 | 0.36 | 0.26 |
| RD-70 | SMRD-70-GW082310 | gross_alpha | Suspended | 0.24 U | 0.49 | 0.15 | 0.26 |
| RD-70 | SMRD-70-GW082310 | gross_alpha | Total | 3.34 | NA | 0.39 | NA |
| RD-70 | SMRD-70-GW082310 | gross_beta | Filtered | 3.6 | 3 | 1 | 1.7 |
| RD-70 | SMRD-70-GW082310 | gross_beta | Suspended | 0.57 | 0.78 | 0.25 | 0.46 |
| RD-70 | SMRD-70-GW082310 | gross_beta | Total | 4.2 | NA | 1.1 | NA |
| RD-70 | SMRD-70-GW082310 | H-3 | Filtered | -10 U | 140 | 40 | 67 |
| RD-70 | SMRD-70-GW082310 | H-3 | Suspended | 3.7 U | 13 | 3.7 | 5.5 |
| RD-70 | SMRD-70-GW082310 | H-3 | Total | -6 | NA | 41 | NA |
| RD-70 | SMRD-70-GW082310 | Ho-166m | Filtered | 0.86 U | 2 | 0.59 | 0.91 |
| RD-70 | SMRD-70-GW082310 | Ho-166m | Suspended | -0.37 U | 1.2 | 0.36 | 0.58 |
| RD-70 | SMRD-70-GW082310 | Ho-166m | Total | 0.49 | NA | 0.7 | NA |
| RD-70 | SMRD-70-GW082310 | K-40 | Filtered | 15.1 | 14 | 4.8 | 6.4 |
| RD-70 | SMRD-70-GW082310 | K-40 | Suspended | 2.2 U | 10 | 2.5 | 4.8 |
| RD-70 | SMRD-70-GW082310 | K-40 | Total | 17.2 | NA | 5.4 | NA |
| RD-70 | SMRD-70-GW082310 | Na-22 | Filtered | 0.11 U | 1.5 | 0.43 | 0.7 |
| RD-70 | SMRD-70-GW082310 | Na-22 | Suspended | 0.01 U | 0.75 | 0.21 | 0.34 |
| RD-70 | SMRD-70-GW082310 | Na-22 | Total | 0.12 | NA | 0.48 | NA |
| RD-70 | SMRD-70-GW082310 | Nb-94 | Filtered | -0.11 U | 1.2 | 0.35 | 0.56 |
| RD-70 | SMRD-70-GW082310 | Nb-94 | Suspended | 0.19 U | 0.68 | 0.2 | 0.32 |
| RD-70 | SMRD-70-GW082310 | Nb-94 | Total | 0.08 | NA | 0.4 | NA |
| RD-70 | SMRD-70-GW082310 | Np-236 | Filtered | -0.55 U | 2.5 | 0.76 | 1.2 |
| RD-70 | SMRD-70-GW082310 | Np-236 | Suspended | 0.09 U | 1.2 | 0.36 | 0.58 |
| RD-70 | SMRD-70-GW082310 | Np-236 | Total | -0.46 | NA | 0.84 | NA |
| RD-70 | SMRD-70-GW082310 | Np-239 | Filtered | -0.6 U | 8 | 2.3 | 3.8 |
| RD-70 | SMRD-70-GW082310 | Np-239 | Suspended | -0.03 U | 3.8 | 1.1 | 1.8 |
| RD-70 | SMRD-70-GW082310 | Np-239 | Total | -0.6 | NA | 2.6 | NA |
| RD-70 | SMRD-70-GW082310 | Pa-231 | Filtered | 14 U | 62 | 18 | 30 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-70 | SMRD-70-GW082310 | Pa-231 | Suspended | 0 U | 29 | 8.7 | 14 |
| RD-70 | SMRD-70-GW082310 | Pa-231 | Total | 14 | NA | 20 | NA |
| RD-70 | SMRD-70-GW082310 | Pb-212 | Filtered | 0.7 U | 2.6 | 0.97 | 1.3 |
| RD-70 | SMRD-70-GW082310 | Pb-212 | Suspended | 0.53 U | 1.2 | 0.4 | 0.58 |
| RD-70 | SMRD-70-GW082310 | Pb-212 | Total | 1.2 | NA | 1.1 | NA |
| RD-70 | SMRD-70-GW082310 | Pb-214 | Filtered | 0.01 U | 2.9 | 0.78 | 1.4 |
| RD-70 | SMRD-70-GW082310 | Pb-214 | Suspended | 0.52 U | 1.5 | 0.42 | 0.73 |
| RD-70 | SMRD-70-GW082310 | Pb-214 | Total | 0.53 | NA | 0.88 | NA |
| RD-70 | SMRD-70-GW082310 | Sb-125 | Filtered | -1.8 U | 13 | 3.8 | 6.3 |
| RD-70 | SMRD-70-GW082310 | Sb-125 | Suspended | 0 U | 6.1 | 1.8 | 2.9 |
| RD-70 | SMRD-70-GW082310 | Sb-125 | Total | -1.8 | NA | 4.2 | NA |
| RD-70 | SMRD-70-GW082310 | Sn-126 | Filtered | 0.47 U | 1.4 | 0.41 | 0.64 |
| RD-70 | SMRD-70-GW082310 | Sn-126 | Suspended | 0.34 | 0.67 | 0.21 | 0.32 |
| RD-70 | SMRD-70-GW082310 | Sn-126 | Total | 0.81 | NA | 0.46 | NA |
| RD-70 | SMRD-70-GW082310 | Sr-90 | Suspended | 0.027 U | 0.06 | 0.018 | 0.034 |
| RD-70 | SMRD-70-GW082310 | Sr-90 | Total | 0.108 | NA | 0.061 | NA |
| RD-70 | SMRD-70-GW082310 | Te-125m | Filtered | -0.43 U | 3 | 0.89 | 1.4 |
| RD-70 | SMRD-70-GW082310 | Te-125m | Suspended | 0 U | 1.4 | 0.41 | 0.68 |
| RD-70 | SMRD-70-GW082310 | Te-125m | Total | -0.43 | NA | 0.98 | NA |
| RD-70 | SMRD-70-GW082310 | Th-231 | Filtered | 0.024 | 0.034 | 0.014 | 0.009 |
| RD-70 | SMRD-70-GW082310 | Th-231 | Suspended | 0 U | 0.016 | 0.0022 | 0.0084 |
| RD-70 | SMRD-70-GW082310 | Th-231 | Total | 0.024 | NA | 0.014 | NA |
| RD-70 | SMRD-70-GW082310 | Th-234 | Filtered | 3.3 U | 23 | 7.7 | 11 |
| RD-70 | SMRD-70-GW082310 | Th-234 | Suspended | -0.7 U | 7 | 2.4 | 3.4 |
| RD-70 | SMRD-70-GW082310 | Th-234 | Total | 2.5 | NA | 8 | NA |
| RD-70 | SMRD-70-GW082310 | Tl-208 | Filtered | 0.95 | 1.6 | 0.59 | 0.73 |
| RD-70 | SMRD-70-GW082310 | Tl-208 | Suspended | 0.99 | 0.84 | 0.35 | 0.4 |
| RD-70 | SMRD-70-GW082310 | Tl-208 | Total | 1.94 | NA | 0.69 | NA |
| RD-70 | SMRD-70-GW082310 | Tm-171 | Filtered | 100 U | 350 | 100 | 170 |
| RD-70 | SMRD-70-GW082310 | Tm-171 | Suspended | 45 U | 120 | 37 | 59 |
| RD-70 | SMRD-70-GW082310 | Tm-171 | Total | 140 | NA | 110 | NA |
| RD-70 | SMRD-70-GW082310 | U-233/234 | Filtered | 1.4 | 0.04 | 0.11 | 0.02 |
| RD-70 | SMRD-70-GW082310 | U-233/234 | Suspended | -0.0064 U | 0.04 | 0.0093 | 0.017 |
| RD-70 | SMRD-70-GW082310 | U-233/234 | Total | 1.39 | NA | 0.11 | NA |
| RD-70 | SMRD-70-GW082310 | U-235/236 | Filtered | 0.024 | 0.034 | 0.014 | 0.009 |
| RD-70 | SMRD-70-GW082310 | U-235/236 | Suspended | 0 U | 0.016 | 0.0022 | 0.0084 |
| RD-70 | SMRD-70-GW082310 | U-235/236 | Total | 0.024 | NA | 0.014 | NA |
| RD-70 | SMRD-70-GW082310 | U-238 | Filtered | 0.92 | 0.032 | 0.08 | 0.011 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-70 | SMRD-70-GW082310 | U-238 | Suspended | 0.013 | 0.029 | 0.011 | 0.01 |
| RD-70 | SMRD-70-GW082310 | U-238 | Total | 0.933 | NA | 0.081 | NA |
| RD-85 | SMRD-85-GW081910 | Ac-227 | Filtered | -2.3 U | 9.1 | 2.7 | 4.4 |
| RD-85 | SMRD-85-GW081910 | Ac-227 | Suspended | -2.6 U | 4.7 | 1.4 | 2.3 |
| RD-85 | SMRD-85-GW081910 | Ac-227 | Total | -4.9 | NA | 3.1 | NA |
| RD-85 | SMRD-85-GW081910 | Ac-228 | Filtered | 5.1 | 4.8 | 1.6 | 2.2 |
| RD-85 | SMRD-85-GW081910 | Ac-228 | Suspended | 2.8 | 2.4 | 0.78 | 1.1 |
| RD-85 | SMRD-85-GW081910 | Ac-228 | Total | 7.9 | NA | 1.8 | NA |
| RD-85 | SMRD-85-GW081910 | Ag-108 | Filtered | 0.049 R | 0.074 | 0.023 | 0.034 |
| RD-85 | SMRD-85-GW081910 | Ag-108 | Suspended | 0.018 U R | 0.048 | 0.014 | 0.023 |
| RD-85 | SMRD-85-GW081910 | Ag-108 | Total | 0.067 R | NA | 0.027 | NA |
| RD-85 | SMRD-85-GW081910 | Ag-108m | Filtered | 0.53 R | 0.8 | 0.25 | 0.37 |
| RD-85 | SMRD-85-GW081910 | Ag-108m | Suspended | 0.19 U R | 0.52 | 0.16 | 0.25 |
| RD-85 | SMRD-85-GW081910 | Ag-108m | Total | 0.72 R | NA | 0.29 | NA |
| RD-85 | SMRD-85-GW081910 | Ba-133 | Filtered | 3 U R | 14 | 4.1 | 6.6 |
| RD-85 | SMRD-85-GW081910 | Ba-133 | Suspended | 0.3 U R | 6.3 | 1.9 | 3.1 |
| RD-85 | SMRD-85-GW081910 | Ba-133 | Total | 3.3 R | NA | 4.5 | NA |
| RD-85 | SMRD-85-GW081910 | Ba-137m | Filtered | 0.04 U | 1.5 | 0.44 | 0.72 |
| RD-85 | SMRD-85-GW081910 | Ba-137m | Suspended | 0.15 U | 0.5 | 0.15 | 0.23 |
| RD-85 | SMRD-85-GW081910 | Ba-137m | Total | 0.18 | NA | 0.46 | NA |
| RD-85 | SMRD-85-GW081910 | Bi-212 | Filtered | 0 U | 19 | 5.5 | 9.1 |
| RD-85 | SMRD-85-GW081910 | Bi-212 | Suspended | 3 | 5.9 | 1.8 | 2.8 |
| RD-85 | SMRD-85-GW081910 | Bi-212 | Total | 3 | NA | 5.8 | NA |
| RD-85 | SMRD-85-GW081910 | Bi-214 | Filtered | 2.3 | 3.4 | 1.2 | 1.6 |
| RD-85 | SMRD-85-GW081910 | Bi-214 | Suspended | 0.66 U | 1.6 | 0.53 | 0.76 |
| RD-85 | SMRD-85-GW081910 | Bi-214 | Total | 3 | NA | 1.3 | NA |
| RD-85 | SMRD-85-GW081910 | Cd-113m | Filtered | -3400 U | 16000 | 4900 | 7900 |
| RD-85 | SMRD-85-GW081910 | Cd-113m | Suspended | 1600 U | 7200 | 2100 | 3500 |
| RD-85 | SMRD-85-GW081910 | Cd-113m | Total | -1900 | NA | 5300 | NA |
| RD-85 | SMRD-85-GW081910 | Cf-249 | Filtered | 1.3 U R | 6.5 | 1.9 | 3.1 |
| RD-85 | SMRD-85-GW081910 | Cf-249 | Suspended | 0.33 U R | 3.2 | 0.95 | 1.6 |
| RD-85 | SMRD-85-GW081910 | Cf-249 | Total | 1.6 R | NA | 2.1 | NA |
| RD-85 | SMRD-85-GW081910 | Co-60 | Filtered | -0.19 U | 1.7 | 0.48 | 0.77 |
| RD-85 | SMRD-85-GW081910 | Co-60 | Suspended | 0 U | 1.3 | 0.37 | 0.6 |
| RD-85 | SMRD-85-GW081910 | Co-60 | Total | -0.19 | NA | 0.6 | NA |
| RD-85 | SMRD-85-GW081910 | Cs-134 | Filtered | -0.02 U | 1.5 | 0.44 | 0.72 |
| RD-85 | SMRD-85-GW081910 | Cs-134 | Suspended | 0.02 U | 1.2 | 0.37 | 0.6 |
| RD-85 | SMRD-85-GW081910 | Cs-134 | Total | 0.007 | NA | 0.57 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-85 | SMRD-085-GW081910 | Cs-137 | Filtered | 0.04 U | 1.6 | 0.46 | 0.76 |
| RD-85 | SMRD-085-GW081910 | Cs-137 | Suspended | 0.16 U | 0.52 | 0.16 | 0.24 |
| RD-85 | SMRD-085-GW081910 | Cs-137 | Total | 0.19 | NA | 0.49 | NA |
| RD-85 | SMRD-085-GW081910 | Eu-152 | Filtered | 0.04 U | 3.9 | 1.1 | 1.9 |
| RD-85 | SMRD-085-GW081910 | Eu-152 | Suspended | -0.03 U | 1.6 | 0.45 | 0.74 |
| RD-85 | SMRD-085-GW081910 | Eu-152 | Total | 0.01 | NA | 1.2 | NA |
| RD-85 | SMRD-085-GW081910 | Eu-154 | Filtered | -1.7 U | 13 | 3.8 | 6.2 |
| RD-85 | SMRD-085-GW081910 | Eu-154 | Suspended | 0.1 U | 6.2 | 1.8 | 2.9 |
| RD-85 | SMRD-085-GW081910 | Eu-154 | Total | -1.5 | NA | 4.2 | NA |
| RD-85 | SMRD-085-GW081910 | Eu-155 | Filtered | 0.97 U | 3.1 | 0.94 | 1.5 |
| RD-85 | SMRD-085-GW081910 | Eu-155 | Suspended | -0.27 U | 1.3 | 0.39 | 0.63 |
| RD-85 | SMRD-085-GW081910 | Eu-155 | Total | 0.7 | NA | 1 | NA |
| RD-85 | SMRD-085-GW081910 | gross_alpha | Filtered | 6.7 | 0.46 | 0.55 | 0.24 |
| RD-85 | SMRD-085-GW081910 | gross_alpha | Suspended | 4.45 | 0.66 | 0.48 | 0.36 |
| RD-85 | SMRD-085-GW081910 | gross_alpha | Total | 11.2 | NA | 0.73 | NA |
| RD-85 | SMRD-085-GW081910 | gross_beta | Filtered | 5.22 | 2.2 | 0.9 | 1.3 |
| RD-85 | SMRD-085-GW081910 | gross_beta | Suspended | 2.61 | 0.79 | 0.36 | 0.45 |
| RD-85 | SMRD-085-GW081910 | gross_beta | Total | 7.84 | NA | 0.97 | NA |
| RD-85 | SMRD-085-GW081910 | H-3 | Filtered | 54 U | 130 | 40 | 65 |
| RD-85 | SMRD-085-GW081910 | H-3 | Suspended | 3.8 U | 12 | 3.6 | 5.2 |
| RD-85 | SMRD-085-GW081910 | H-3 | Total | 58 | NA | 40 | NA |
| RD-85 | SMRD-085-GW081910 | Ho-166m | Filtered | 0.5 U | 2 | 0.59 | 0.93 |
| RD-85 | SMRD-085-GW081910 | Ho-166m | Suspended | 0.02 U | 1.1 | 0.32 | 0.53 |
| RD-85 | SMRD-085-GW081910 | Ho-166m | Total | 0.52 | NA | 0.67 | NA |
| RD-85 | SMRD-085-GW081910 | K-40 | Filtered | 3 U | 22 | 5.9 | 10 |
| RD-85 | SMRD-085-GW081910 | K-40 | Suspended | 10.8 | 8.9 | 2.7 | 4.2 |
| RD-85 | SMRD-085-GW081910 | K-40 | Total | 13.8 | NA | 6.4 | NA |
| RD-85 | SMRD-085-GW081910 | Na-22 | Filtered | -0.14 U | 1.9 | 0.53 | 0.87 |
| RD-85 | SMRD-085-GW081910 | Na-22 | Suspended | -0.08 U | 0.85 | 0.24 | 0.39 |
| RD-85 | SMRD-085-GW081910 | Na-22 | Total | -0.22 | NA | 0.59 | NA |
| RD-85 | SMRD-085-GW081910 | Nb-94 | Filtered | 0.19 U | 1.5 | 0.43 | 0.7 |
| RD-85 | SMRD-085-GW081910 | Nb-94 | Suspended | 0.08 U | 0.56 | 0.16 | 0.27 |
| RD-85 | SMRD-085-GW081910 | Nb-94 | Total | 0.27 | NA | 0.46 | NA |
| RD-85 | SMRD-085-GW081910 | Np-236 | Filtered | -0.13 U | 1.9 | 0.55 | 0.89 |
| RD-85 | SMRD-085-GW081910 | Np-236 | Suspended | 0.02 U | 1.1 | 0.32 | 0.53 |
| RD-85 | SMRD-085-GW081910 | Np-236 | Total | -0.11 | NA | 0.63 | NA |
| RD-85 | SMRD-085-GW081910 | Np-239 | Filtered | 0.9 U | 7.6 | 2.2 | 3.6 |
| RD-85 | SMRD-085-GW081910 | Np-239 | Suspended | -0.2 U | 3.5 | 1 | 1.7 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-85 | SMRD-085-GW081910 | Np-239 | Total | 0.7 | NA | 2.5 | NA |
| RD-85 | SMRD-085-GW081910 | Pa-231 | Filtered | -18 U | 66 | 20 | 32 |
| RD-85 | SMRD-085-GW081910 | Pa-231 | Suspended | 0.9 U | 28 | 8.2 | 14 |
| RD-85 | SMRD-085-GW081910 | Pa-231 | Total | -17 | NA | 21 | NA |
| RD-85 | SMRD-085-GW081910 | Pb-212 | Filtered | 0 U | 2.8 | 0.87 | 1.3 |
| RD-85 | SMRD-085-GW081910 | Pb-212 | Suspended | 1.83 | 1.3 | 0.49 | 0.63 |
| RD-85 | SMRD-085-GW081910 | Pb-212 | Total | 1.8 | NA | 1 | NA |
| RD-85 | SMRD-085-GW081910 | Pb-214 | Filtered | 1.8 | 3.2 | 1.1 | 1.5 |
| RD-85 | SMRD-085-GW081910 | Pb-214 | Suspended | 1.83 | 1.4 | 0.52 | 0.68 |
| RD-85 | SMRD-085-GW081910 | Pb-214 | Total | 3.6 | NA | 1.3 | NA |
| RD-85 | SMRD-085-GW081910 | Sb-125 | Filtered | 1.9 U | 9.9 | 2.9 | 4.7 |
| RD-85 | SMRD-085-GW081910 | Sb-125 | Suspended | 0.0007 U | 6.1 | 1.8 | 3 |
| RD-85 | SMRD-085-GW081910 | Sb-125 | Total | 1.9 | NA | 3.4 | NA |
| RD-85 | SMRD-085-GW081910 | Sn-126 | Filtered | 0.09 U | 1.7 | 0.5 | 0.81 |
| RD-85 | SMRD-085-GW081910 | Sn-126 | Suspended | 0.02 U | 0.8 | 0.23 | 0.38 |
| RD-85 | SMRD-085-GW081910 | Sn-126 | Total | 0.11 | NA | 0.55 | NA |
| RD-85 | SMRD-085-GW081910 | Sr-90 | Suspended | -0.024 U | 0.07 | 0.019 | 0.04 |
| RD-85 | SMRD-085-GW081910 | Sr-90 | Total | 0.022 | NA | 0.067 | NA |
| RD-85 | SMRD-085-GW081910 | Te-125m | Filtered | 0.44 U | 2.3 | 0.68 | 1.1 |
| RD-85 | SMRD-085-GW081910 | Te-125m | Suspended | 0.0002 U | 1.4 | 0.42 | 0.68 |
| RD-85 | SMRD-085-GW081910 | Te-125m | Total | 0.44 | NA | 0.79 | NA |
| RD-85 | SMRD-085-GW081910 | Th-231 | Filtered | 0.159 | 0.017 | 0.033 | 0.009 |
| RD-85 | SMRD-085-GW081910 | Th-231 | Suspended | 0.0015 U | 0.036 | 0.0068 | 0.012 |
| RD-85 | SMRD-085-GW081910 | Th-231 | Total | 0.161 | NA | 0.033 | NA |
| RD-85 | SMRD-085-GW081910 | Th-234 | Filtered | 14 | 21 | 6.5 | 10 |
| RD-85 | SMRD-085-GW081910 | Th-234 | Suspended | 0.7 U | 7.4 | 2.4 | 3.6 |
| RD-85 | SMRD-085-GW081910 | Th-234 | Total | 14.8 | NA | 6.9 | NA |
| RD-85 | SMRD-085-GW081910 | Tl-208 | Filtered | -0.009 U | 2 | 0.54 | 0.96 |
| RD-85 | SMRD-085-GW081910 | Tl-208 | Suspended | 0.66 | 0.81 | 0.3 | 0.39 |
| RD-85 | SMRD-085-GW081910 | Tl-208 | Total | 0.65 | NA | 0.62 | NA |
| RD-85 | SMRD-085-GW081910 | Tm-171 | Filtered | 146 U | 320 | 97 | 150 |
| RD-85 | SMRD-085-GW081910 | Tm-171 | Suspended | 0 U | 130 | 39 | 64 |
| RD-85 | SMRD-085-GW081910 | Tm-171 | Total | 150 | NA | 100 | NA |
| RD-85 | SMRD-085-GW081910 | U-233/234 | Filtered | 2.35 | 0.03 | 0.15 | 0.007 |
| RD-85 | SMRD-085-GW081910 | U-233/234 | Suspended | 0.037 | 0.041 | 0.017 | 0.017 |
| RD-85 | SMRD-085-GW081910 | U-233/234 | Total | 2.38 | NA | 0.15 | NA |
| RD-85 | SMRD-085-GW081910 | U-235/236 | Filtered | 0.159 | 0.017 | 0.033 | 0.009 |
| RD-85 | SMRD-085-GW081910 | U-235/236 | Suspended | 0.0015 U | 0.036 | 0.0068 | 0.012 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|-------|----------------|
| RD-85 | SMRD-085-GW081910 | U-235/236 | Total | 0.161 | NA | 0.033 | NA |
| RD-85 | SMRD-085-GW081910 | U-238 | Filtered | 1.93 | 0.03 | 0.13 | 0.007 |
| RD-85 | SMRD-085-GW081910 | U-238 | Suspended | 0.019 U | 0.067 | 0.02 | 0.033 |
| RD-85 | SMRD-085-GW081910 | U-238 | Total | 1.95 | NA | 0.13 | NA |
| RD-86 | SMRD-086-GW081910 | Ac-227 | Filtered | -3.6 U | 8.9 | 2.7 | 4.4 |
| RD-86 | SMRD-086-GW081910 | Ac-227 | Suspended | -1.2 U | 4.4 | 1.3 | 2.1 |
| RD-86 | SMRD-086-GW081910 | Ac-227 | Total | -4.8 | NA | 3 | NA |
| RD-86 | SMRD-086-GW081910 | Ac-228 | Filtered | 7.8 | 3.5 | 1.9 | 1.6 |
| RD-86 | SMRD-086-GW081910 | Ac-228 | Suspended | 2.9 | 2.4 | 0.8 | 1.2 |
| RD-86 | SMRD-086-GW081910 | Ac-228 | Total | 10.7 | NA | 2 | NA |
| RD-86 | SMRD-086-GW081910 | Ag-108 | Filtered | -0.0001 U R | 0.087 | 0.025 | 0.041 |
| RD-86 | SMRD-086-GW081910 | Ag-108 | Suspended | -0.002 U R | 0.054 | 0.016 | 0.026 |
| RD-86 | SMRD-086-GW081910 | Ag-108 | Total | -0.003 R | NA | 0.03 | NA |
| RD-86 | SMRD-086-GW081910 | Ag-108m | Filtered | -0.002 U R | 0.93 | 0.27 | 0.45 |
| RD-86 | SMRD-086-GW081910 | Ag-108m | Suspended | -0.03 U R | 0.58 | 0.17 | 0.28 |
| RD-86 | SMRD-086-GW081910 | Ag-108m | Total | -0.03 R | NA | 0.32 | NA |
| RD-86 | SMRD-086-GW081910 | Ba-133 | Filtered | -2.1 U R | 12 | 3.6 | 5.9 |
| RD-86 | SMRD-086-GW081910 | Ba-133 | Suspended | 0.5 U R | 6.2 | 1.8 | 3 |
| RD-86 | SMRD-086-GW081910 | Ba-133 | Total | -1.7 R | NA | 4 | NA |
| RD-86 | SMRD-086-GW081910 | Ba-137m | Filtered | -0.5 U | 1.2 | 0.37 | 0.59 |
| RD-86 | SMRD-086-GW081910 | Ba-137m | Suspended | 0.12 U | 0.57 | 0.17 | 0.27 |
| RD-86 | SMRD-086-GW081910 | Ba-137m | Total | -0.38 | NA | 0.41 | NA |
| RD-86 | SMRD-086-GW081910 | Bi-212 | Filtered | -2.2 U | 11 | 6.3 | 5.1 |
| RD-86 | SMRD-086-GW081910 | Bi-212 | Suspended | 0.2 U | 6.2 | 1.7 | 3 |
| RD-86 | SMRD-086-GW081910 | Bi-212 | Total | -2 | NA | 6.5 | NA |
| RD-86 | SMRD-086-GW081910 | Bi-214 | Filtered | 2.2 | 3.2 | 1.4 | 1.6 |
| RD-86 | SMRD-086-GW081910 | Bi-214 | Suspended | 1.24 | 1.6 | 0.55 | 0.75 |
| RD-86 | SMRD-086-GW081910 | Bi-214 | Total | 3.5 | NA | 1.5 | NA |
| RD-86 | SMRD-086-GW081910 | Cd-113m | Filtered | 600 U | 11000 | 3300 | 5400 |
| RD-86 | SMRD-086-GW081910 | Cd-113m | Suspended | 60 U | 6700 | 2000 | 3200 |
| RD-86 | SMRD-086-GW081910 | Cd-113m | Total | 700 | NA | 3800 | NA |
| RD-86 | SMRD-086-GW081910 | Cf-249 | Filtered | 1.7 U R | 5.4 | 1.6 | 2.6 |
| RD-86 | SMRD-086-GW081910 | Cf-249 | Suspended | -0.18 U R | 2.5 | 0.74 | 1.2 |
| RD-86 | SMRD-086-GW081910 | Cf-249 | Total | 1.5 R | NA | 1.8 | NA |
| RD-86 | SMRD-086-GW081910 | Co-60 | Filtered | 0 U | 1.7 | 0.5 | 0.82 |
| RD-86 | SMRD-086-GW081910 | Co-60 | Suspended | -0.02 U | 0.74 | 0.21 | 0.34 |
| RD-86 | SMRD-086-GW081910 | Co-60 | Total | -0.02 | NA | 0.54 | NA |
| RD-86 | SMRD-086-GW081910 | Cs-134 | Filtered | -0.31 U | 1.4 | 0.43 | 0.69 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-86 | SMRD-086-GW081910 | Cs-134 | Suspended | 0.09 U | 0.62 | 0.18 | 0.3 |
| RD-86 | SMRD-086-GW081910 | Cs-134 | Total | -0.22 | NA | 0.47 | NA |
| RD-86 | SMRD-086-GW081910 | Cs-137 | Filtered | -0.53 U | 1.3 | 0.39 | 0.62 |
| RD-86 | SMRD-086-GW081910 | Cs-137 | Suspended | 0.13 U | 0.61 | 0.18 | 0.29 |
| RD-86 | SMRD-086-GW081910 | Cs-137 | Total | -0.4 | NA | 0.43 | NA |
| RD-86 | SMRD-086-GW081910 | Eu-152 | Filtered | -0.9 U | 3.5 | 1.1 | 1.7 |
| RD-86 | SMRD-086-GW081910 | Eu-152 | Suspended | 0.26 U | 1.4 | 0.41 | 0.66 |
| RD-86 | SMRD-086-GW081910 | Eu-152 | Total | -0.6 | NA | 1.1 | NA |
| RD-86 | SMRD-086-GW081910 | Eu-154 | Filtered | 0.5 U | 9.7 | 2.8 | 4.6 |
| RD-86 | SMRD-086-GW081910 | Eu-154 | Suspended | -0.5 U | 6.2 | 1.8 | 2.9 |
| RD-86 | SMRD-086-GW081910 | Eu-154 | Total | -0.06 | NA | 3.3 | NA |
| RD-86 | SMRD-086-GW081910 | Eu-155 | Filtered | 0.2 U | 3.6 | 1.1 | 1.7 |
| RD-86 | SMRD-086-GW081910 | Eu-155 | Suspended | -0.05 U | 1.2 | 0.37 | 0.6 |
| RD-86 | SMRD-086-GW081910 | Eu-155 | Total | 0.2 | NA | 1.1 | NA |
| RD-86 | SMRD-086-GW081910 | gross_alpha | Filtered | 3.97 | 0.42 | 0.4 | 0.22 |
| RD-86 | SMRD-086-GW081910 | gross_alpha | Suspended | 0.14 U | 0.76 | 0.21 | 0.41 |
| RD-86 | SMRD-086-GW081910 | gross_alpha | Total | 4.11 | NA | 0.46 | NA |
| RD-86 | SMRD-086-GW081910 | gross_beta | Filtered | 206 | 2.4 | 8.5 | 1.4 |
| RD-86 | SMRD-086-GW081910 | gross_beta | Suspended | 0.64 | 0.74 | 0.24 | 0.44 |
| RD-86 | SMRD-086-GW081910 | gross_beta | Total | 206 | NA | 8.5 | NA |
| RD-86 | SMRD-086-GW081910 | H-3 | Filtered | -5 U | 140 | 40 | 66 |
| RD-86 | SMRD-086-GW081910 | H-3 | Suspended | 3.5 U | 13 | 3.8 | 5.6 |
| RD-86 | SMRD-086-GW081910 | H-3 | Total | -2 | NA | 40 | NA |
| RD-86 | SMRD-086-GW081910 | Ho-166m | Filtered | -0.18 U | 1.9 | 0.55 | 0.9 |
| RD-86 | SMRD-086-GW081910 | Ho-166m | Suspended | 0.23 U | 1 | 0.31 | 0.5 |
| RD-86 | SMRD-086-GW081910 | Ho-166m | Total | 0.05 | NA | 0.63 | NA |
| RD-86 | SMRD-086-GW081910 | K-40 | Filtered | -1.3 U | 25 | 7.5 | 12 |
| RD-86 | SMRD-086-GW081910 | K-40 | Suspended | 6.7 | 9.6 | 3.4 | 4.5 |
| RD-86 | SMRD-086-GW081910 | K-40 | Total | 5.4 | NA | 8.3 | NA |
| RD-86 | SMRD-086-GW081910 | Na-22 | Filtered | -0.27 U | 1.3 | 0.38 | 0.61 |
| RD-86 | SMRD-086-GW081910 | Na-22 | Suspended | 0.11 U | 0.79 | 0.23 | 0.37 |
| RD-86 | SMRD-086-GW081910 | Na-22 | Total | -0.15 | NA | 0.45 | NA |
| RD-86 | SMRD-086-GW081910 | Nb-94 | Filtered | 0 U | 1.2 | 0.36 | 0.59 |
| RD-86 | SMRD-086-GW081910 | Nb-94 | Suspended | 0 U | 0.75 | 0.22 | 0.36 |
| RD-86 | SMRD-086-GW081910 | Nb-94 | Total | 0 | NA | 0.42 | NA |
| RD-86 | SMRD-086-GW081910 | Np-236 | Filtered | 0.33 U | 2.2 | 0.66 | 1.1 |
| RD-86 | SMRD-086-GW081910 | Np-236 | Suspended | -0.15 U | 1.2 | 0.36 | 0.59 |
| RD-86 | SMRD-086-GW081910 | Np-236 | Total | 0.17 | NA | 0.75 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-86 | SMRD-086-GW081910 | Np-239 | Filtered | 1.7 U | 6.9 | 2.1 | 3.3 |
| RD-86 | SMRD-086-GW081910 | Np-239 | Suspended | -1.2 U | 3.7 | 1.1 | 1.8 |
| RD-86 | SMRD-086-GW081910 | Np-239 | Total | 0.4 | NA | 2.3 | NA |
| RD-86 | SMRD-086-GW081910 | Pa-231 | Filtered | 18 U | 54 | 16 | 26 |
| RD-86 | SMRD-086-GW081910 | Pa-231 | Suspended | 0 U | 26 | 7.7 | 13 |
| RD-86 | SMRD-086-GW081910 | Pa-231 | Total | 18 | NA | 18 | NA |
| RD-86 | SMRD-086-GW081910 | Pb-212 | Filtered | -0.8 U | 3.2 | 1 | 1.6 |
| RD-86 | SMRD-086-GW081910 | Pb-212 | Suspended | -0.02 U | 1.2 | 0.42 | 0.61 |
| RD-86 | SMRD-086-GW081910 | Pb-212 | Total | -0.8 | NA | 1.1 | NA |
| RD-86 | SMRD-086-GW081910 | Pb-214 | Filtered | 1.72 | 2.5 | 0.86 | 1.2 |
| RD-86 | SMRD-086-GW081910 | Pb-214 | Suspended | 1.14 | 1.4 | 0.56 | 0.7 |
| RD-86 | SMRD-086-GW081910 | Pb-214 | Total | 2.9 | NA | 1 | NA |
| RD-86 | SMRD-086-GW081910 | Sb-125 | Filtered | -1 U | 15 | 4.3 | 7.1 |
| RD-86 | SMRD-086-GW081910 | Sb-125 | Suspended | -1.6 U | 6.2 | 1.9 | 3 |
| RD-86 | SMRD-086-GW081910 | Sb-125 | Total | -2.6 | NA | 4.7 | NA |
| RD-86 | SMRD-086-GW081910 | Sn-126 | Filtered | 0.3 U | 1.2 | 0.36 | 0.57 |
| RD-86 | SMRD-086-GW081910 | Sn-126 | Suspended | 0.17 U | 0.7 | 0.21 | 0.33 |
| RD-86 | SMRD-086-GW081910 | Sn-126 | Total | 0.46 | NA | 0.41 | NA |
| RD-86 | SMRD-086-GW081910 | Sr-90 | Suspended | 0.025 U | 0.074 | 0.022 | 0.042 |
| RD-86 | SMRD-086-GW081910 | Sr-90 | Total | 0.092 | NA | 0.067 | NA |
| RD-86 | SMRD-086-GW081910 | Te-125m | Filtered | -0.23 U | 3.4 | 0.998 | 1.6 |
| RD-86 | SMRD-086-GW081910 | Te-125m | Suspended | -0.37 U | 1.4 | 0.43 | 0.7 |
| RD-86 | SMRD-086-GW081910 | Te-125m | Total | -0.6 | NA | 1.1 | NA |
| RD-86 | SMRD-086-GW081910 | Th-231 | Filtered | 0.102 | 0.016 | 0.025 | 0.009 |
| RD-86 | SMRD-086-GW081910 | Th-231 | Suspended | 0 U | 0.015 | 0.0021 | 0.008 |
| RD-86 | SMRD-086-GW081910 | Th-231 | Total | 0.102 | NA | 0.025 | NA |
| RD-86 | SMRD-086-GW081910 | Th-234 | Filtered | 8.5 U | 24 | 8.9 | 12 |
| RD-86 | SMRD-086-GW081910 | Th-234 | Suspended | 5.4 | 7.4 | 2.5 | 3.6 |
| RD-86 | SMRD-086-GW081910 | Th-234 | Total | 13.9 | NA | 9.3 | NA |
| RD-86 | SMRD-086-GW081910 | Tl-208 | Filtered | 0.19 U | 1.5 | 0.47 | 0.74 |
| RD-86 | SMRD-086-GW081910 | Tl-208 | Suspended | 0.31 U | 0.82 | 0.3 | 0.39 |
| RD-86 | SMRD-086-GW081910 | Tl-208 | Total | 0.49 | NA | 0.56 | NA |
| RD-86 | SMRD-086-GW081910 | Tm-171 | Filtered | 190 U | 430 | 130 | 210 |
| RD-86 | SMRD-086-GW081910 | Tm-171 | Suspended | 44 U | 120 | 37 | 60 |
| RD-86 | SMRD-086-GW081910 | Tm-171 | Total | 230 | NA | 130 | NA |
| RD-86 | SMRD-086-GW081910 | U-233/234 | Filtered | 1.98 | 0.04 | 0.13 | 0.01 |
| RD-86 | SMRD-086-GW081910 | U-233/234 | Suspended | 0.024 | 0.033 | 0.014 | 0.013 |
| RD-86 | SMRD-086-GW081910 | U-233/234 | Total | 2 | NA | 0.13 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-86 | SMRD-086-GW081910 | U-235/236 | Filtered | 0.102 | 0.016 | 0.025 | 0.009 |
| RD-86 | SMRD-086-GW081910 | U-235/236 | Suspended | 0 U | 0.015 | 0.0021 | 0.008 |
| RD-86 | SMRD-086-GW081910 | U-235/236 | Total | 0.102 | NA | 0.025 | NA |
| RD-86 | SMRD-086-GW081910 | U-238 | Filtered | 2 | 0.02 | 0.13 | 0.007 |
| RD-86 | SMRD-086-GW081910 | U-238 | Suspended | 0.024 | 0.03 | 0.013 | 0.011 |
| RD-86 | SMRD-086-GW081910 | U-238 | Total | 2.02 | NA | 0.13 | NA |
| RD-87 | SMRD-087-GW090210 | Ac-227 | Filtered | -3.3 U | 9 | 2.7 | 4.4 |
| RD-87 | SMRD-087-GW090210 | Ac-227 | Suspended | -2.5 U | 4.3 | 1.3 | 2.1 |
| RD-87 | SMRD-087-GW090210 | Ac-227 | Total | -5.8 | NA | 3 | NA |
| RD-87 | SMRD-087-GW090210 | Ac-228 | Filtered | 0.7 U B | 4.6 | 1.3 | 2.1 |
| RD-87 | SMRD-087-GW090210 | Ac-228 | Suspended | 1.66 | 2.2 | 0.7 | 1 |
| RD-87 | SMRD-087-GW090210 | Ac-228 | Total | 2.3 B | NA | 1.5 | NA |
| RD-87 | SMRD-087-GW090210 | Ag-108 | Filtered | 0.031 U R | 0.11 | 0.034 | 0.055 |
| RD-87 | SMRD-087-GW090210 | Ag-108 | Suspended | 0.015 U R | 0.051 | 0.015 | 0.024 |
| RD-87 | SMRD-087-GW090210 | Ag-108 | Total | 0.046 R | NA | 0.037 | NA |
| RD-87 | SMRD-087-GW090210 | Ag-108m | Filtered | 0.33 U R | 1.2 | 0.37 | 0.59 |
| RD-87 | SMRD-087-GW090210 | Ag-108m | Suspended | 0.16 U R | 0.55 | 0.16 | 0.26 |
| RD-87 | SMRD-087-GW090210 | Ag-108m | Total | 0.49 R | NA | 0.4 | NA |
| RD-87 | SMRD-087-GW090210 | Ba-133 | Filtered | -2.5 U R | 14 | 4.1 | 6.6 |
| RD-87 | SMRD-087-GW090210 | Ba-133 | Suspended | 0.1 U R | 4.6 | 1.3 | 2.2 |
| RD-87 | SMRD-087-GW090210 | Ba-133 | Total | -2.4 R | NA | 4.3 | NA |
| RD-87 | SMRD-087-GW090210 | Ba-137m | Filtered | -0.02 U | 1.3 | 0.37 | 0.61 |
| RD-87 | SMRD-087-GW090210 | Ba-137m | Suspended | 0.24 U | 0.63 | 0.19 | 0.3 |
| RD-87 | SMRD-087-GW090210 | Ba-137m | Total | 0.22 | NA | 0.42 | NA |
| RD-87 | SMRD-087-GW090210 | Bi-212 | Filtered | -2.6 U | 12 | 3.5 | 5.6 |
| RD-87 | SMRD-087-GW090210 | Bi-212 | Suspended | 3.2 | 6.2 | 1.9 | 2.9 |
| RD-87 | SMRD-087-GW090210 | Bi-212 | Total | 0.5 | NA | 4 | NA |
| RD-87 | SMRD-087-GW090210 | Bi-214 | Filtered | -0.8 U | 3.2 | 1.5 | 1.5 |
| RD-87 | SMRD-087-GW090210 | Bi-214 | Suspended | 1.17 | 1.8 | 0.81 | 0.88 |
| RD-87 | SMRD-087-GW090210 | Bi-214 | Total | 0.4 | NA | 1.7 | NA |
| RD-87 | SMRD-087-GW090210 | Cd-113m | Filtered | 3800 U | 14000 | 4200 | 6800 |
| RD-87 | SMRD-087-GW090210 | Cd-113m | Suspended | 2700 | 5300 | 1600 | 2500 |
| RD-87 | SMRD-087-GW090210 | Cd-113m | Total | 6600 | NA | 4500 | NA |
| RD-87 | SMRD-087-GW090210 | Cf-249 | Filtered | -1.4 U R | 6.7 | 2 | 3.2 |
| RD-87 | SMRD-087-GW090210 | Cf-249 | Suspended | -0.02 U B | 3 | 0.87 | 1.4 |
| RD-87 | SMRD-087-GW090210 | Cf-249 | Total | -1.5 B R | NA | 2.2 | NA |
| RD-87 | SMRD-087-GW090210 | Co-60 | Filtered | 0.3 U | 1.6 | 0.46 | 0.72 |
| RD-87 | SMRD-087-GW090210 | Co-60 | Suspended | -0.13 U | 0.83 | 0.24 | 0.38 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-87 | SMRD-087-GW090210 | Co-60 | Total | 0.17 | NA | 0.52 | NA |
| RD-87 | SMRD-087-GW090210 | Cs-134 | Filtered | 0.08 U | 1.5 | 0.44 | 0.72 |
| RD-87 | SMRD-087-GW090210 | Cs-134 | Suspended | -0.22 U | 0.84 | 0.25 | 0.41 |
| RD-87 | SMRD-087-GW090210 | Cs-134 | Total | -0.14 | NA | 0.5 | NA |
| RD-87 | SMRD-087-GW090210 | Cs-137 | Filtered | -0.03 U | 1.4 | 0.39 | 0.64 |
| RD-87 | SMRD-087-GW090210 | Cs-137 | Suspended | 0.26 U | 0.66 | 0.2 | 0.31 |
| RD-87 | SMRD-087-GW090210 | Cs-137 | Total | 0.23 | NA | 0.44 | NA |
| RD-87 | SMRD-087-GW090210 | Eu-152 | Filtered | -0.9 U | 4 | 1.2 | 1.9 |
| RD-87 | SMRD-087-GW090210 | Eu-152 | Suspended | 0.51 U | 1.8 | 0.53 | 0.85 |
| RD-87 | SMRD-087-GW090210 | Eu-152 | Total | -0.4 | NA | 1.3 | NA |
| RD-87 | SMRD-087-GW090210 | Eu-154 | Filtered | 2 U | 10 | 3 | 4.7 |
| RD-87 | SMRD-087-GW090210 | Eu-154 | Suspended | -1.6 U | 6.7 | 2 | 3.2 |
| RD-87 | SMRD-087-GW090210 | Eu-154 | Total | 0.5 | NA | 3.6 | NA |
| RD-87 | SMRD-087-GW090210 | Eu-155 | Filtered | 1.05 U | 3.2 | 0.96 | 1.5 |
| RD-87 | SMRD-087-GW090210 | Eu-155 | Suspended | 0.01 U | 1.2 | 0.35 | 0.57 |
| RD-87 | SMRD-087-GW090210 | Eu-155 | Total | 1.1 | NA | 1 | NA |
| RD-87 | SMRD-087-GW090210 | gross_alpha | Filtered | 17.9 | 0.4 | 1.1 | 0.2 |
| RD-87 | SMRD-087-GW090210 | gross_alpha | Suspended | 0.43 | 0.74 | 0.23 | 0.4 |
| RD-87 | SMRD-087-GW090210 | gross_alpha | Total | 18.3 | NA | 1.1 | NA |
| RD-87 | SMRD-087-GW090210 | gross_beta | Filtered | 11.7 | 2 | 1.1 | 1.1 |
| RD-87 | SMRD-087-GW090210 | gross_beta | Suspended | 3.09 | 0.73 | 0.35 | 0.43 |
| RD-87 | SMRD-087-GW090210 | gross_beta | Total | 14.8 | NA | 1.2 | NA |
| RD-87 | SMRD-087-GW090210 | H-3 | Filtered | 7630 | 130 | 350 | 60 |
| RD-87 | SMRD-087-GW090210 | H-3 | Total | 7630 R | NA | 350 | NA |
| RD-87 | SMRD-087-GW090210 | Ho-166m | Filtered | -0.25 U | 2.3 | 0.65 | 1.1 |
| RD-87 | SMRD-087-GW090210 | Ho-166m | Suspended | -0.01 U | 1 | 0.3 | 0.49 |
| RD-87 | SMRD-087-GW090210 | Ho-166m | Total | -0.26 | NA | 0.72 | NA |
| RD-87 | SMRD-087-GW090210 | K-40 | Filtered | 13.6 | 15 | 4.9 | 6.8 |
| RD-87 | SMRD-087-GW090210 | K-40 | Suspended | -5.3 U | 11 | 5.3 | 5.2 |
| RD-87 | SMRD-087-GW090210 | K-40 | Total | 8.3 | NA | 7.2 | NA |
| RD-87 | SMRD-087-GW090210 | Na-22 | Filtered | -0.28 U | 1.8 | 0.51 | 0.82 |
| RD-87 | SMRD-087-GW090210 | Na-22 | Suspended | 0.14 U | 0.84 | 0.24 | 0.39 |
| RD-87 | SMRD-087-GW090210 | Na-22 | Total | -0.14 | NA | 0.57 | NA |
| RD-87 | SMRD-087-GW090210 | Nb-94 | Filtered | -0.4 U | 1.3 | 0.38 | 0.6 |
| RD-87 | SMRD-087-GW090210 | Nb-94 | Suspended | -0.19 U | 0.65 | 0.19 | 0.31 |
| RD-87 | SMRD-087-GW090210 | Nb-94 | Total | -0.59 | NA | 0.42 | NA |
| RD-87 | SMRD-087-GW090210 | Np-236 | Filtered | -0.1 U | 2.7 | 0.8 | 1.3 |
| RD-87 | SMRD-087-GW090210 | Np-236 | Suspended | 0.12 U | 1.1 | 0.34 | 0.55 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-87 | SMRD-087-GW090210 | Np-236 | Total | 0.02 | NA | 0.87 | NA |
| RD-87 | SMRD-087-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-87 | SMRD-087-GW090210 | Np-239 | Filtered | -1.8 U | 8 | 2.4 | 3.9 |
| RD-87 | SMRD-087-GW090210 | Np-239 | Suspended | 0.23 U | 2.9 | 0.86 | 1.4 |
| RD-87 | SMRD-087-GW090210 | Np-239 | Total | -1.6 | NA | 2.5 | NA |
| RD-87 | SMRD-087-GW090210 | Pa-231 | Filtered | 23 | 47 | 14 | 22 |
| RD-87 | SMRD-087-GW090210 | Pa-231 | Suspended | 8 U | 27 | 8.2 | 13 |
| RD-87 | SMRD-087-GW090210 | Pa-231 | Total | 31 | NA | 16 | NA |
| RD-87 | SMRD-087-GW090210 | Pb-212 | Filtered | 0.8 U | 2.6 | 0.97 | 1.2 |
| RD-87 | SMRD-087-GW090210 | Pb-212 | Suspended | 0.83 | 1.3 | 0.47 | 0.62 |
| RD-87 | SMRD-087-GW090210 | Pb-212 | Total | 1.6 | NA | 1.1 | NA |
| RD-87 | SMRD-087-GW090210 | Pb-214 | Filtered | -0.15 U | 3 | 0.94 | 1.4 |
| RD-87 | SMRD-087-GW090210 | Pb-214 | Suspended | 0.26 U | 1.4 | 0.52 | 0.7 |
| RD-87 | SMRD-087-GW090210 | Pb-214 | Total | 0.1 | NA | 1.1 | NA |
| RD-87 | SMRD-087-GW090210 | Sb-125 | Filtered | 1.6 U | 13 | 3.8 | 6.3 |
| RD-87 | SMRD-087-GW090210 | Sb-125 | Suspended | -1.8 U | 6.3 | 1.9 | 3 |
| RD-87 | SMRD-087-GW090210 | Sb-125 | Total | -0.2 | NA | 4.3 | NA |
| RD-87 | SMRD-087-GW090210 | Sn-126 | Filtered | 0.55 U | 1.5 | 0.45 | 0.7 |
| RD-87 | SMRD-087-GW090210 | Sn-126 | Suspended | 0.18 U | 0.84 | 0.25 | 0.4 |
| RD-87 | SMRD-087-GW090210 | Sn-126 | Total | 0.73 | NA | 0.51 | NA |
| RD-87 | SMRD-087-GW090210 | Sr-90 | Filtered | 0.003 U | 0.17 | 0.05 | 0.098 |
| RD-87 | SMRD-087-GW090210 | Sr-90 | Suspended | -0.057 U | 0.11 | 0.029 | 0.061 |
| RD-87 | SMRD-087-GW090210 | Sr-90 | Total | -0.054 | NA | 0.058 | NA |
| RD-87 | SMRD-087-GW090210 | Te-125m | Filtered | 0.37 U | 3 | 0.89 | 1.4 |
| RD-87 | SMRD-087-GW090210 | Te-125m | Suspended | -0.41 U | 1.4 | 0.43 | 0.7 |
| RD-87 | SMRD-087-GW090210 | Te-125m | Total | -0.04 | NA | 0.99 | NA |
| RD-87 | SMRD-087-GW090210 | Th-231 | Filtered | 0.361 | 0.019 | 0.034 | 0.006 |
| RD-87 | SMRD-087-GW090210 | Th-231 | Suspended | 0.0103 | 0.007 | 0.0052 | 0.006 |
| RD-87 | SMRD-087-GW090210 | Th-231 | Total | 0.371 | NA | 0.035 | NA |
| RD-87 | SMRD-087-GW090210 | Th-234 | Filtered | 8.6 U | 23 | 7.6 | 11 |
| RD-87 | SMRD-087-GW090210 | Th-234 | Suspended | -2.3 U | 7.3 | 3.3 | 3.6 |
| RD-87 | SMRD-087-GW090210 | Th-234 | Total | 6.3 | NA | 8.3 | NA |
| RD-87 | SMRD-087-GW090210 | Tl-208 | Filtered | -1 U | 1.9 | 3.1 | 0.9 |
| RD-87 | SMRD-087-GW090210 | Tl-208 | Suspended | -0.06 U | 0.99 | 0.31 | 0.48 |
| RD-87 | SMRD-087-GW090210 | Tl-208 | Total | -1 | NA | 3.1 | NA |
| RD-87 | SMRD-087-GW090210 | Tm-171 | Filtered | 20 U | 360 | 110 | 170 |
| RD-87 | SMRD-087-GW090210 | Tm-171 | Suspended | 12 U | 130 | 39 | 63 |
| RD-87 | SMRD-087-GW090210 | Tm-171 | Total | 30 | NA | 110 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-87 | SMRD-087-GW090210 | U-233/234 | Filtered | 8.58 | 0.03 | 0.38 | 0.01 |
| RD-87 | SMRD-087-GW090210 | U-233/234 | Suspended | -0.0044 U | 0.015 | 0.0046 | 0.0048 |
| RD-87 | SMRD-087-GW090210 | U-233/234 | Total | 8.58 | NA | 0.38 | NA |
| RD-87 | SMRD-087-GW090210 | U-235/236 | Filtered | 0.361 | 0.019 | 0.034 | 0.006 |
| RD-87 | SMRD-087-GW090210 | U-235/236 | Suspended | 0.0103 | 0.007 | 0.0052 | 0.006 |
| RD-87 | SMRD-087-GW090210 | U-235/236 | Total | 0.371 | NA | 0.035 | NA |
| RD-87 | SMRD-087-GW090210 | U-238 | Filtered | 8.14 | 0.02 | 0.37 | 0.007 |
| RD-87 | SMRD-087-GW090210 | U-238 | Suspended | -0.0058 U | 0.019 | 0.0046 | 0.0068 |
| RD-87 | SMRD-087-GW090210 | U-238 | Total | 8.14 | NA | 0.37 | NA |
| RD-88 | SMRD-088-GW090210 | Ac-227 | Filtered | -7.3 L U | 10 | 3.2 | 5.1 |
| RD-88 | SMRD-088-GW090210 | Ac-227 | Suspended | -0.9 U | 3.8 | 1.1 | 1.8 |
| RD-88 | SMRD-088-GW090210 | Ac-227 | Total | -8.2 L | NA | 3.4 | NA |
| RD-88 | SMRD-088-GW090210 | Ac-228 | Filtered | 0.3 U B | 4.5 | 1.3 | 2.1 |
| RD-88 | SMRD-088-GW090210 | Ac-228 | Suspended | 2.54 | 2.5 | 0.8 | 1.2 |
| RD-88 | SMRD-088-GW090210 | Ac-228 | Total | 2.8 B | NA | 1.5 | NA |
| RD-88 | SMRD-088-GW090210 | Ag-108 | Filtered | 0 U R | 0.097 | 0.028 | 0.047 |
| RD-88 | SMRD-088-GW090210 | Ag-108 | Suspended | 0.016 U R | 0.053 | 0.016 | 0.026 |
| RD-88 | SMRD-088-GW090210 | Ag-108 | Total | 0.016 R | NA | 0.033 | NA |
| RD-88 | SMRD-088-GW090210 | Ag-108m | Filtered | 0 U R | 1 | 0.31 | 0.5 |
| RD-88 | SMRD-088-GW090210 | Ag-108m | Suspended | 0.17 U R | 0.57 | 0.17 | 0.27 |
| RD-88 | SMRD-088-GW090210 | Ag-108m | Total | 0.17 R | NA | 0.35 | NA |
| RD-88 | SMRD-088-GW090210 | Ba-133 | Filtered | 3.7 U R | 13 | 4 | 6.4 |
| RD-88 | SMRD-088-GW090210 | Ba-133 | Suspended | -1.6 U R | 6 | 1.8 | 2.9 |
| RD-88 | SMRD-088-GW090210 | Ba-133 | Total | 2.1 R | NA | 4.4 | NA |
| RD-88 | SMRD-088-GW090210 | Ba-137m | Filtered | 0.08 U | 1.2 | 0.36 | 0.59 |
| RD-88 | SMRD-088-GW090210 | Ba-137m | Suspended | 0.09 U | 0.74 | 0.22 | 0.35 |
| RD-88 | SMRD-088-GW090210 | Ba-137m | Total | 0.17 | NA | 0.42 | NA |
| RD-88 | SMRD-088-GW090210 | Bi-212 | Filtered | 1.1 U | 11 | 3 | 5.2 |
| RD-88 | SMRD-088-GW090210 | Bi-212 | Suspended | 4.1 | 5.7 | 1.8 | 2.7 |
| RD-88 | SMRD-088-GW090210 | Bi-212 | Total | 5.2 | NA | 3.5 | NA |
| RD-88 | SMRD-088-GW090210 | Bi-214 | Filtered | -0.07 U | 2.9 | 0.87 | 1.4 |
| RD-88 | SMRD-088-GW090210 | Bi-214 | Suspended | 0.86 | 1.7 | 0.57 | 0.82 |
| RD-88 | SMRD-088-GW090210 | Bi-214 | Total | 0.8 | NA | 1 | NA |
| RD-88 | SMRD-088-GW090210 | Cd-113m | Filtered | 3000 U | 15000 | 4600 | 7500 |
| RD-88 | SMRD-088-GW090210 | Cd-113m | Suspended | -1700 U | 8100 | 2400 | 3900 |
| RD-88 | SMRD-088-GW090210 | Cd-113m | Total | 1300 | NA | 5200 | NA |
| RD-88 | SMRD-088-GW090210 | Cf-249 | Filtered | -1.9 U R | 6.5 | 2 | 3.2 |
| RD-88 | SMRD-088-GW090210 | Cf-249 | Suspended | 0.07 U B | 3.4 | 0.99 | 1.6 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-88 | SMRD-088-GW090210 | Cf-249 | Total | -1.9 B R | NA | 2.2 | NA |
| RD-88 | SMRD-088-GW090210 | Co-60 | Filtered | 0.3 U | 1.3 | 0.37 | 0.59 |
| RD-88 | SMRD-088-GW090210 | Co-60 | Suspended | 0.02 U | 0.87 | 0.25 | 0.41 |
| RD-88 | SMRD-088-GW090210 | Co-60 | Total | 0.31 | NA | 0.44 | NA |
| RD-88 | SMRD-088-GW090210 | Cs-134 | Filtered | -0.18 U | 1.6 | 0.46 | 0.76 |
| RD-88 | SMRD-088-GW090210 | Cs-134 | Suspended | 0.97 SK | 0.78 | 0.25 | 0.37 |
| RD-88 | SMRD-088-GW090210 | Cs-134 | Total | 0.78 | NA | 0.53 | NA |
| RD-88 | SMRD-088-GW090210 | Cs-137 | Filtered | 0.08 U | 1.3 | 0.38 | 0.62 |
| RD-88 | SMRD-088-GW090210 | Cs-137 | Suspended | 0.1 U | 0.78 | 0.23 | 0.37 |
| RD-88 | SMRD-088-GW090210 | Cs-137 | Total | 0.18 | NA | 0.44 | NA |
| RD-88 | SMRD-088-GW090210 | Eu-152 | Filtered | 0.09 U | 3.1 | 0.9 | 1.5 |
| RD-88 | SMRD-088-GW090210 | Eu-152 | Suspended | 0.45 U | 1.9 | 0.55 | 0.89 |
| RD-88 | SMRD-088-GW090210 | Eu-152 | Total | 0.5 | NA | 1.1 | NA |
| RD-88 | SMRD-088-GW090210 | Eu-154 | Filtered | -1.1 U | 10 | 3 | 4.9 |
| RD-88 | SMRD-088-GW090210 | Eu-154 | Suspended | 1.9 U | 6.4 | 1.9 | 3 |
| RD-88 | SMRD-088-GW090210 | Eu-154 | Total | 0.8 | NA | 3.6 | NA |
| RD-88 | SMRD-088-GW090210 | Eu-155 | Filtered | -0.9 U | 3.4 | 1 | 1.7 |
| RD-88 | SMRD-088-GW090210 | Eu-155 | Suspended | 0.25 U | 1.3 | 0.38 | 0.62 |
| RD-88 | SMRD-088-GW090210 | Eu-155 | Total | -0.7 | NA | 1.1 | NA |
| RD-88 | SMRD-088-GW090210 | gross_alpha | Filtered | 18.9 | 0.6 | 1.1 | 0.3 |
| RD-88 | SMRD-088-GW090210 | gross_alpha | Suspended | 14.9 | 0.9 | 1.1 | 0.5 |
| RD-88 | SMRD-088-GW090210 | gross_alpha | Total | 33.8 | NA | 1.6 | NA |
| RD-88 | SMRD-088-GW090210 | gross_beta | Filtered | 14.1 | 2.7 | 1.4 | 1.5 |
| RD-88 | SMRD-088-GW090210 | gross_beta | Suspended | 1.22 | 0.7 | 0.27 | 0.4 |
| RD-88 | SMRD-088-GW090210 | gross_beta | Total | 15.4 | NA | 1.4 | NA |
| RD-88 | SMRD-088-GW090210 | H-3 | Filtered | 44800 | 200 | 2000 | 70 |
| RD-88 | SMRD-088-GW090210 | H-3 | Suspended | 10.3 R | 15 | 4.9 | 6.6 |
| RD-88 | SMRD-088-GW090210 | H-3 | Total | 44800 R | NA | 2000 | NA |
| RD-88 | SMRD-088-GW090210 | Ho-166m | Filtered | -0.57 U | 2.1 | 0.63 | 1 |
| RD-88 | SMRD-088-GW090210 | Ho-166m | Suspended | 0 U | 1.3 | 0.38 | 0.63 |
| RD-88 | SMRD-088-GW090210 | Ho-166m | Total | -0.57 | NA | 0.74 | NA |
| RD-88 | SMRD-088-GW090210 | K-40 | Filtered | 20.7 | 26 | 7.2 | 12 |
| RD-88 | SMRD-088-GW090210 | K-40 | Suspended | -4.6 U | 11 | 4.7 | 5.4 |
| RD-88 | SMRD-088-GW090210 | K-40 | Total | 16.1 | NA | 8.6 | NA |
| RD-88 | SMRD-088-GW090210 | Na-22 | Filtered | 0.05 U | 1.4 | 0.4 | 0.66 |
| RD-88 | SMRD-088-GW090210 | Na-22 | Suspended | 0.1 U | 0.8 | 0.23 | 0.37 |
| RD-88 | SMRD-088-GW090210 | Na-22 | Total | 0.14 | NA | 0.46 | NA |
| RD-88 | SMRD-088-GW090210 | Nb-94 | Filtered | 0.12 U | 1.2 | 0.35 | 0.57 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-88 | SMRD-088-GW090210 | Nb-94 | Suspended | 0.14 U | 0.69 | 0.2 | 0.33 |
| RD-88 | SMRD-088-GW090210 | Nb-94 | Total | 0.26 | NA | 0.41 | NA |
| RD-88 | SMRD-088-GW090210 | Np-236 | Filtered | -1.01 U | 3 | 0.91 | 1.5 |
| RD-88 | SMRD-088-GW090210 | Np-236 | Suspended | -0.33 U | 1.3 | 0.38 | 0.61 |
| RD-88 | SMRD-088-GW090210 | Np-236 | Total | -1.34 | NA | 0.99 | NA |
| RD-88 | SMRD-088-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-88 | SMRD-088-GW090210 | Np-239 | Filtered | 0.6 U | 8.2 | 2.4 | 4 |
| RD-88 | SMRD-088-GW090210 | Np-239 | Suspended | 1.4 U | 4 | 1.2 | 1.9 |
| RD-88 | SMRD-088-GW090210 | Np-239 | Total | 2 | NA | 2.7 | NA |
| RD-88 | SMRD-088-GW090210 | Pa-231 | Filtered | 3 U | 59 | 18 | 29 |
| RD-88 | SMRD-088-GW090210 | Pa-231 | Suspended | 3.8 U | 30 | 8.9 | 14 |
| RD-88 | SMRD-088-GW090210 | Pa-231 | Total | 7 | NA | 20 | NA |
| RD-88 | SMRD-088-GW090210 | Pb-212 | Filtered | -0.02 U | 3 | 0.92 | 1.5 |
| RD-88 | SMRD-088-GW090210 | Pb-212 | Suspended | 0.51 U | 1.3 | 0.46 | 0.65 |
| RD-88 | SMRD-088-GW090210 | Pb-212 | Total | 0.5 | NA | 1 | NA |
| RD-88 | SMRD-088-GW090210 | Pb-214 | Filtered | -0.2 U | 2.9 | 1.1 | 1.4 |
| RD-88 | SMRD-088-GW090210 | Pb-214 | Suspended | 0.28 U | 1.5 | 0.48 | 0.71 |
| RD-88 | SMRD-088-GW090210 | Pb-214 | Total | 0.1 | NA | 1.2 | NA |
| RD-88 | SMRD-088-GW090210 | Sb-125 | Filtered | 7.3 SK | 12 | 3.7 | 5.8 |
| RD-88 | SMRD-088-GW090210 | Sb-125 | Suspended | -0.06 U | 6.7 | 2 | 3.3 |
| RD-88 | SMRD-088-GW090210 | Sb-125 | Total | 7.3 | NA | 4.2 | NA |
| RD-88 | SMRD-088-GW090210 | Sn-126 | Filtered | -0.11 U | 1.4 | 0.41 | 0.68 |
| RD-88 | SMRD-088-GW090210 | Sn-126 | Suspended | 0.24 U | 0.76 | 0.23 | 0.36 |
| RD-88 | SMRD-088-GW090210 | Sn-126 | Total | 0.13 | NA | 0.47 | NA |
| RD-88 | SMRD-088-GW090210 | Sr-90 | Filtered | 0.018 U | 0.14 | 0.04 | 0.078 |
| RD-88 | SMRD-088-GW090210 | Sr-90 | Suspended | -0.019 U | 0.096 | 0.027 | 0.054 |
| RD-88 | SMRD-088-GW090210 | Sr-90 | Total | -0.001 | NA | 0.048 | NA |
| RD-88 | SMRD-088-GW090210 | Te-125m | Filtered | 1.7 SK | 2.8 | 0.85 | 1.3 |
| RD-88 | SMRD-088-GW090210 | Te-125m | Suspended | -0.01 U | 1.6 | 0.46 | 0.76 |
| RD-88 | SMRD-088-GW090210 | Te-125m | Total | 1.68 | NA | 0.96 | NA |
| RD-88 | SMRD-088-GW090210 | Th-231 | Filtered | 0.611 | 0.008 | 0.049 | 0.007 |
| RD-88 | SMRD-088-GW090210 | Th-231 | Suspended | 0.0136 | 0.0074 | 0.0061 | 0.0063 |
| RD-88 | SMRD-088-GW090210 | Th-231 | Total | 0.625 | NA | 0.049 | NA |
| RD-88 | SMRD-088-GW090210 | Th-234 | Filtered | 17.5 | 24 | 8.6 | 12 |
| RD-88 | SMRD-088-GW090210 | Th-234 | Suspended | 1.1 U | 8.6 | 3 | 4.2 |
| RD-88 | SMRD-088-GW090210 | Th-234 | Total | 18.5 | NA | 9.1 | NA |
| RD-88 | SMRD-088-GW090210 | Tl-208 | Filtered | 0.85 U | 1.9 | 0.78 | 0.93 |
| RD-88 | SMRD-088-GW090210 | Tl-208 | Suspended | 0.72 | 0.85 | 0.32 | 0.4 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-88 | SMRD-088-GW090210 | Tl-208 | Total | 1.57 | NA | 0.84 | NA |
| RD-88 | SMRD-088-GW090210 | Tm-171 | Filtered | 9 U | 480 | 140 | 240 |
| RD-88 | SMRD-088-GW090210 | Tm-171 | Suspended | -52 U | 140 | 44 | 70 |
| RD-88 | SMRD-088-GW090210 | Tm-171 | Total | -40 | NA | 150 | NA |
| RD-88 | SMRD-088-GW090210 | U-233/234 | Filtered | 13.6 | 0.02 | 0.6 | 0.005 |
| RD-88 | SMRD-088-GW090210 | U-233/234 | Suspended | 0.44 | 0.02 | 0.037 | 0.007 |
| RD-88 | SMRD-088-GW090210 | U-233/234 | Total | 14.1 | NA | 0.6 | NA |
| RD-88 | SMRD-088-GW090210 | U-235/236 | Filtered | 0.611 | 0.008 | 0.049 | 0.007 |
| RD-88 | SMRD-088-GW090210 | U-235/236 | Suspended | 0.0136 | 0.0074 | 0.0061 | 0.0063 |
| RD-88 | SMRD-088-GW090210 | U-235/236 | Total | 0.625 | NA | 0.049 | NA |
| RD-88 | SMRD-088-GW090210 | U-238 | Filtered | 11.6 | 0.02 | 0.51 | 0.005 |
| RD-88 | SMRD-088-GW090210 | U-238 | Suspended | 0.399 | 0.006 | 0.034 | 0.005 |
| RD-88 | SMRD-088-GW090210 | U-238 | Total | 12 | NA | 0.52 | NA |
| RD-90 | SMRD-090-GW090210 | Ac-227 | Filtered | -7.8 L U | 11 | 3.4 | 5.4 |
| RD-90 | SMRD-090-GW090210 | Ac-227 | Suspended | -2.9 L U | 4.7 | 1.4 | 2.3 |
| RD-90 | SMRD-090-GW090210 | Ac-227 | Total | -10.7 L | NA | 3.7 | NA |
| RD-90 | SMRD-090-GW090210 | Ac-228 | Filtered | 13 B | 3.8 | 2.2 | 1.7 |
| RD-90 | SMRD-090-GW090210 | Ac-228 | Suspended | 0.14 U | 3.3 | 0.87 | 1.6 |
| RD-90 | SMRD-090-GW090210 | Ac-228 | Total | 13.1 B | NA | 2.4 | NA |
| RD-90 | SMRD-090-GW090210 | Ag-108 | Filtered | 0 U R | 0.14 | 0.039 | 0.065 |
| RD-90 | SMRD-090-GW090210 | Ag-108 | Suspended | -0.023 U R | 0.055 | 0.017 | 0.026 |
| RD-90 | SMRD-090-GW090210 | Ag-108 | Total | -0.023 R | NA | 0.043 | NA |
| RD-90 | SMRD-090-GW090210 | Ag-108m | Filtered | 0 U R | 1.5 | 0.42 | 0.7 |
| RD-90 | SMRD-090-GW090210 | Ag-108m | Suspended | -0.24 U R | 0.59 | 0.18 | 0.28 |
| RD-90 | SMRD-090-GW090210 | Ag-108m | Total | -0.24 R | NA | 0.46 | NA |
| RD-90 | SMRD-090-GW090210 | Ba-133 | Filtered | 3 U R | 14 | 4 | 6.5 |
| RD-90 | SMRD-090-GW090210 | Ba-133 | Suspended | -1 U R | 6.3 | 1.9 | 3.1 |
| RD-90 | SMRD-090-GW090210 | Ba-133 | Total | 2 R | NA | 4.4 | NA |
| RD-90 | SMRD-090-GW090210 | Ba-137m | Filtered | 0.48 U | 1.4 | 0.42 | 0.66 |
| RD-90 | SMRD-090-GW090210 | Ba-137m | Suspended | 0.12 U | 0.65 | 0.19 | 0.31 |
| RD-90 | SMRD-090-GW090210 | Ba-137m | Total | 0.6 | NA | 0.46 | NA |
| RD-90 | SMRD-090-GW090210 | Bi-212 | Filtered | 0.8 U | 14 | 4 | 6.6 |
| RD-90 | SMRD-090-GW090210 | Bi-212 | Suspended | 0.05 U | 7 | 2 | 3.3 |
| RD-90 | SMRD-090-GW090210 | Bi-212 | Total | 0.8 | NA | 4.5 | NA |
| RD-90 | SMRD-090-GW090210 | Bi-214 | Filtered | 2.7 | 3.8 | 1.5 | 1.8 |
| RD-90 | SMRD-090-GW090210 | Bi-214 | Suspended | -0.72 U | 1.9 | 0.94 | 0.91 |
| RD-90 | SMRD-090-GW090210 | Bi-214 | Total | 2 | NA | 1.7 | NA |
| RD-90 | SMRD-090-GW090210 | Cd-113m | Filtered | 2600 U | 17000 | 4900 | 8000 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-90 | SMRD-090-GW090210 | Cd-113m | Suspended | 1000 U | 7300 | 2200 | 3500 |
| RD-90 | SMRD-090-GW090210 | Cd-113m | Total | 3600 | NA | 5400 | NA |
| RD-90 | SMRD-090-GW090210 | Cf-249 | Filtered | 2.2 U R | 6 | 1.8 | 2.8 |
| RD-90 | SMRD-090-GW090210 | Cf-249 | Suspended | 0.14 U B | 3 | 0.9 | 1.5 |
| RD-90 | SMRD-090-GW090210 | Cf-249 | Total | 2.4 B R | NA | 2 | NA |
| RD-90 | SMRD-090-GW090210 | Co-60 | Filtered | -0.004 U | 1.4 | 0.37 | 0.62 |
| RD-90 | SMRD-090-GW090210 | Co-60 | Suspended | 0.35 U | 0.78 | 0.24 | 0.37 |
| RD-90 | SMRD-090-GW090210 | Co-60 | Total | 0.35 | NA | 0.44 | NA |
| RD-90 | SMRD-090-GW090210 | Cs-134 | Filtered | 0.01 U | 1.5 | 0.44 | 0.72 |
| RD-90 | SMRD-090-GW090210 | Cs-134 | Suspended | 0.07 U | 0.87 | 0.26 | 0.42 |
| RD-90 | SMRD-090-GW090210 | Cs-134 | Total | 0.08 | NA | 0.51 | NA |
| RD-90 | SMRD-090-GW090210 | Cs-137 | Filtered | 0.5 U | 1.5 | 0.44 | 0.69 |
| RD-90 | SMRD-090-GW090210 | Cs-137 | Suspended | 0.13 U | 0.69 | 0.2 | 0.33 |
| RD-90 | SMRD-090-GW090210 | Cs-137 | Total | 0.63 | NA | 0.49 | NA |
| RD-90 | SMRD-090-GW090210 | Eu-152 | Filtered | 1 U | 4 | 1.2 | 1.9 |
| RD-90 | SMRD-090-GW090210 | Eu-152 | Suspended | -0.03 U | 1.5 | 0.43 | 0.71 |
| RD-90 | SMRD-090-GW090210 | Eu-152 | Total | 1 | NA | 1.3 | NA |
| RD-90 | SMRD-090-GW090210 | Eu-154 | Filtered | 1.1 U | 13 | 3.6 | 5.8 |
| RD-90 | SMRD-090-GW090210 | Eu-154 | Suspended | 0.8 U | 6.3 | 1.8 | 3 |
| RD-90 | SMRD-090-GW090210 | Eu-154 | Total | 1.9 | NA | 4 | NA |
| RD-90 | SMRD-090-GW090210 | Eu-155 | Filtered | 0.7 U | 3.4 | 1 | 1.6 |
| RD-90 | SMRD-090-GW090210 | Eu-155 | Suspended | 0.36 U | 1.2 | 0.36 | 0.58 |
| RD-90 | SMRD-090-GW090210 | Eu-155 | Total | 1.1 | NA | 1.1 | NA |
| RD-90 | SMRD-090-GW090210 | gross_alpha | Filtered | 12.4 | 0.46 | 0.84 | 0.24 |
| RD-90 | SMRD-090-GW090210 | gross_alpha | Suspended | 11.1 | 1.2 | 1.1 | 0.6 |
| RD-90 | SMRD-090-GW090210 | gross_alpha | Total | 23.5 | NA | 1.4 | NA |
| RD-90 | SMRD-090-GW090210 | gross_beta | Filtered | 16.5 | 1.3 | 1.1 | 0.8 |
| RD-90 | SMRD-090-GW090210 | gross_beta | Suspended | 11.9 | 1 | 0.77 | 0.54 |
| RD-90 | SMRD-090-GW090210 | gross_beta | Total | 28.4 | NA | 1.3 | NA |
| RD-90 | SMRD-090-GW090210 | H-3 | Filtered | 41000 | 100 | 1800 | 70 |
| RD-90 | SMRD-090-GW090210 | H-3 | Suspended | 12.2 R | 20 | 6.3 | 9 |
| RD-90 | SMRD-090-GW090210 | H-3 | Total | 41000 R | NA | 1800 | NA |
| RD-90 | SMRD-090-GW090210 | Ho-166m | Filtered | 0 U | 3.5 | 1 | 1.7 |
| RD-90 | SMRD-090-GW090210 | Ho-166m | Suspended | 0.18 U | 0.86 | 0.25 | 0.41 |
| RD-90 | SMRD-090-GW090210 | Ho-166m | Total | 0.2 | NA | 1 | NA |
| RD-90 | SMRD-090-GW090210 | K-40 | Filtered | -6.8 U | 23 | 9.2 | 11 |
| RD-90 | SMRD-090-GW090210 | K-40 | Suspended | 4.7 U | 12 | 3.1 | 5.7 |
| RD-90 | SMRD-090-GW090210 | K-40 | Total | -2.1 | NA | 9.7 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-90 | SMRD-090-GW090210 | Na-22 | Filtered | 0.4 U | 1.9 | 0.53 | 0.84 |
| RD-90 | SMRD-090-GW090210 | Na-22 | Suspended | 0.14 U | 0.82 | 0.24 | 0.38 |
| RD-90 | SMRD-090-GW090210 | Na-22 | Total | 0.54 | NA | 0.58 | NA |
| RD-90 | SMRD-090-GW090210 | Nb-94 | Filtered | 0 U | 1.7 | 0.48 | 0.79 |
| RD-90 | SMRD-090-GW090210 | Nb-94 | Suspended | 0.08 U | 0.68 | 0.2 | 0.33 |
| RD-90 | SMRD-090-GW090210 | Nb-94 | Total | 0.08 | NA | 0.52 | NA |
| RD-90 | SMRD-090-GW090210 | Np-236 | Filtered | -0.24 U | 2.9 | 0.84 | 1.4 |
| RD-90 | SMRD-090-GW090210 | Np-236 | Suspended | 0.31 U | 1.2 | 0.36 | 0.58 |
| RD-90 | SMRD-090-GW090210 | Np-236 | Total | 0.07 | NA | 0.92 | NA |
| RD-90 | SMRD-090-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-90 | SMRD-090-GW090210 | Np-239 | Filtered | 1.2 U | 8.4 | 2.5 | 4 |
| RD-90 | SMRD-090-GW090210 | Np-239 | Suspended | 1 U | 3.7 | 1.1 | 1.8 |
| RD-90 | SMRD-090-GW090210 | Np-239 | Total | 2.2 | NA | 2.7 | NA |
| RD-90 | SMRD-090-GW090210 | Pa-231 | Filtered | 29 | 51 | 16 | 24 |
| RD-90 | SMRD-090-GW090210 | Pa-231 | Suspended | 2.6 U | 26 | 7.8 | 13 |
| RD-90 | SMRD-090-GW090210 | Pa-231 | Total | 32 | NA | 17 | NA |
| RD-90 | SMRD-090-GW090210 | Pb-212 | Filtered | 1.31 U | 2.9 | 0.95 | 1.4 |
| RD-90 | SMRD-090-GW090210 | Pb-212 | Suspended | 0.67 | 1.4 | 0.49 | 0.67 |
| RD-90 | SMRD-090-GW090210 | Pb-212 | Total | 2 | NA | 1.1 | NA |
| RD-90 | SMRD-090-GW090210 | Pb-214 | Filtered | 2.3 | 3.1 | 1 | 1.5 |
| RD-90 | SMRD-090-GW090210 | Pb-214 | Suspended | -0.54 U | 1.4 | 0.61 | 0.69 |
| RD-90 | SMRD-090-GW090210 | Pb-214 | Total | 1.8 | NA | 1.2 | NA |
| RD-90 | SMRD-090-GW090210 | Sb-125 | Filtered | -1.5 U | 14 | 4.2 | 6.9 |
| RD-90 | SMRD-090-GW090210 | Sb-125 | Suspended | 1.6 U | 6.3 | 1.9 | 3.1 |
| RD-90 | SMRD-090-GW090210 | Sb-125 | Total | 0.08 | NA | 4.6 | NA |
| RD-90 | SMRD-090-GW090210 | Sn-126 | Filtered | 0.88 | 1.4 | 0.45 | 0.66 |
| RD-90 | SMRD-090-GW090210 | Sn-126 | Suspended | 0 U | 0.9 | 0.26 | 0.44 |
| RD-90 | SMRD-090-GW090210 | Sn-126 | Total | 0.88 | NA | 0.52 | NA |
| RD-90 | SMRD-090-GW090210 | Sr-90 | Filtered | -0.023 U | 0.13 | 0.036 | 0.073 |
| RD-90 | SMRD-090-GW090210 | Sr-90 | Suspended | 0.006 U | 0.093 | 0.027 | 0.052 |
| RD-90 | SMRD-090-GW090210 | Sr-90 | Total | -0.017 | NA | 0.045 | NA |
| RD-90 | SMRD-090-GW090210 | Te-125m | Filtered | -0.34 U | 3.3 | 0.98 | 1.6 |
| RD-90 | SMRD-090-GW090210 | Te-125m | Suspended | 0.36 U | 1.5 | 0.44 | 0.71 |
| RD-90 | SMRD-090-GW090210 | Te-125m | Total | 0.02 | NA | 1.1 | NA |
| RD-90 | SMRD-090-GW090210 | Th-231 | Filtered | 0.214 | 0.007 | 0.025 | 0.006 |
| RD-90 | SMRD-090-GW090210 | Th-231 | Suspended | 0.0053 U | 0.0072 | 0.0038 | 0.0062 |
| RD-90 | SMRD-090-GW090210 | Th-231 | Total | 0.22 | NA | 0.025 | NA |
| RD-90 | SMRD-090-GW090210 | Th-234 | Filtered | 9.2 U | 24 | 7.9 | 12 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-90 | SMRD-090-GW090210 | Th-234 | Suspended | 3.5 U | 8.7 | 2.7 | 4.2 |
| RD-90 | SMRD-090-GW090210 | Th-234 | Total | 12.6 | NA | 8.4 | NA |
| RD-90 | SMRD-090-GW090210 | Tl-208 | Filtered | -0.05 U | 2 | 0.54 | 0.93 |
| RD-90 | SMRD-090-GW090210 | Tl-208 | Suspended | 0.42 | 0.8 | 0.25 | 0.38 |
| RD-90 | SMRD-090-GW090210 | Tl-208 | Total | 0.38 | NA | 0.6 | NA |
| RD-90 | SMRD-090-GW090210 | Tm-171 | Filtered | 20 U | 380 | 110 | 190 |
| RD-90 | SMRD-090-GW090210 | Tm-171 | Suspended | 0.1 U | 130 | 38 | 63 |
| RD-90 | SMRD-090-GW090210 | Tm-171 | Total | 20 | NA | 120 | NA |
| RD-90 | SMRD-090-GW090210 | U-233/234 | Filtered | 5.17 | 0.02 | 0.24 | 0.005 |
| RD-90 | SMRD-090-GW090210 | U-233/234 | Suspended | 0.14 | 0.02 | 0.019 | 0.007 |
| RD-90 | SMRD-090-GW090210 | U-233/234 | Total | 5.31 | NA | 0.24 | NA |
| RD-90 | SMRD-090-GW090210 | U-235/236 | Filtered | 0.214 | 0.007 | 0.025 | 0.006 |
| RD-90 | SMRD-090-GW090210 | U-235/236 | Suspended | 0.0053 U | 0.0072 | 0.0038 | 0.0062 |
| RD-90 | SMRD-090-GW090210 | U-235/236 | Total | 0.22 | NA | 0.025 | NA |
| RD-90 | SMRD-090-GW090210 | U-238 | Filtered | 4.6 | 0.02 | 0.22 | 0.007 |
| RD-90 | SMRD-090-GW090210 | U-238 | Suspended | 0.132 | 0.006 | 0.018 | 0.005 |
| RD-90 | SMRD-090-GW090210 | U-238 | Total | 4.73 | NA | 0.22 | NA |
| RD-91 | SMRD-091-GW082510 | Ac-227 | Filtered | -9.6 L U | 11 | 3.3 | 5.2 |
| RD-91 | SMRD-091-GW082510 | Ac-227 | Suspended | -4 L U | 4.8 | 1.5 | 2.3 |
| RD-91 | SMRD-091-GW082510 | Ac-227 | Total | -13.6 R | NA | 3.6 | NA |
| RD-91 | SMRD-091-GW082510 | Ac-228 | Filtered | 4.6 | 3.9 | 1.3 | 1.9 |
| RD-91 | SMRD-091-GW082510 | Ac-228 | Suspended | -0.5 U | 2.6 | 1.1 | 1.2 |
| RD-91 | SMRD-091-GW082510 | Ac-228 | Total | 4.1 | NA | 1.7 | NA |
| RD-91 | SMRD-091-GW082510 | Ag-108 | Filtered | 0.003 U R | 0.084 | 0.024 | 0.04 |
| RD-91 | SMRD-091-GW082510 | Ag-108 | Suspended | -0.005 U R | 0.049 | 0.014 | 0.024 |
| RD-91 | SMRD-091-GW082510 | Ag-108 | Total | -0.002 R | NA | 0.028 | NA |
| RD-91 | SMRD-091-GW082510 | Ag-108m | Filtered | 0.03 U R | 0.9 | 0.26 | 0.43 |
| RD-91 | SMRD-091-GW082510 | Ag-108m | Suspended | -0.05 U R | 0.53 | 0.16 | 0.25 |
| RD-91 | SMRD-091-GW082510 | Ag-108m | Total | -0.02 R | NA | 0.31 | NA |
| RD-91 | SMRD-091-GW082510 | Ba-133 | Filtered | -2.1 U R | 13 | 3.9 | 6.3 |
| RD-91 | SMRD-091-GW082510 | Ba-133 | Suspended | -0.5 U R | 6 | 1.8 | 2.9 |
| RD-91 | SMRD-091-GW082510 | Ba-133 | Total | -2.6 R | NA | 4.3 | NA |
| RD-91 | SMRD-091-GW082510 | Ba-137m | Filtered | -0.02 U | 1.1 | 0.31 | 0.52 |
| RD-91 | SMRD-091-GW082510 | Ba-137m | Suspended | 0.25 U | 0.59 | 0.18 | 0.28 |
| RD-91 | SMRD-091-GW082510 | Ba-137m | Total | 0.23 | NA | 0.36 | NA |
| RD-91 | SMRD-091-GW082510 | Bi-212 | Filtered | -0.2 U | 11 | 3.2 | 5.3 |
| RD-91 | SMRD-091-GW082510 | Bi-212 | Suspended | 5.1 | 5.3 | 1.7 | 2.5 |
| RD-91 | SMRD-091-GW082510 | Bi-212 | Total | 5 | NA | 3.6 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-91 | SMRD-091-GW082510 | Bi-214 | Filtered | 3.64 | 2.9 | 0.98 | 1.4 |
| RD-91 | SMRD-091-GW082510 | Bi-214 | Suspended | -0.01 U | 1.5 | 0.46 | 0.73 |
| RD-91 | SMRD-091-GW082510 | Bi-214 | Total | 3.6 | NA | 1.1 | NA |
| RD-91 | SMRD-091-GW082510 | Cd-113m | Filtered | 600 U | 14000 | 4000 | 6600 |
| RD-91 | SMRD-091-GW082510 | Cd-113m | Suspended | -1400 U | 7700 | 2300 | 3700 |
| RD-91 | SMRD-091-GW082510 | Cd-113m | Total | -800 | NA | 4600 | NA |
| RD-91 | SMRD-091-GW082510 | Cf-249 | Filtered | -1.3 U R | 6.1 | 1.8 | 2.9 |
| RD-91 | SMRD-091-GW082510 | Cf-249 | Suspended | 0.62 U R | 3 | 0.89 | 1.4 |
| RD-91 | SMRD-091-GW082510 | Cf-249 | Total | -0.7 R | NA | 2 | NA |
| RD-91 | SMRD-091-GW082510 | Co-60 | Filtered | -0.24 U | 1.4 | 0.4 | 0.64 |
| RD-91 | SMRD-091-GW082510 | Co-60 | Suspended | 0.34 | 0.7 | 0.21 | 0.33 |
| RD-91 | SMRD-091-GW082510 | Co-60 | Total | 0.1 | NA | 0.45 | NA |
| RD-91 | SMRD-091-GW082510 | Cs-134 | Filtered | -0.02 U | 1.4 | 0.42 | 0.7 |
| RD-91 | SMRD-091-GW082510 | Cs-134 | Suspended | 0.23 U | 0.78 | 0.23 | 0.38 |
| RD-91 | SMRD-091-GW082510 | Cs-134 | Total | 0.21 | NA | 0.48 | NA |
| RD-91 | SMRD-091-GW082510 | Cs-137 | Filtered | -0.02 U | 1.1 | 0.33 | 0.55 |
| RD-91 | SMRD-091-GW082510 | Cs-137 | Suspended | 0.26 U | 0.63 | 0.19 | 0.3 |
| RD-91 | SMRD-091-GW082510 | Cs-137 | Total | 0.24 | NA | 0.38 | NA |
| RD-91 | SMRD-091-GW082510 | Eu-152 | Filtered | 0.11 U | 3.4 | 0.99 | 1.6 |
| RD-91 | SMRD-091-GW082510 | Eu-152 | Suspended | 0.38 U | 1.7 | 0.51 | 0.83 |
| RD-91 | SMRD-091-GW082510 | Eu-152 | Total | 0.5 | NA | 1.1 | NA |
| RD-91 | SMRD-091-GW082510 | Eu-154 | Filtered | -0.2 U | 11 | 3.2 | 5.3 |
| RD-91 | SMRD-091-GW082510 | Eu-154 | Suspended | 1.4 U | 5.6 | 1.7 | 2.6 |
| RD-91 | SMRD-091-GW082510 | Eu-154 | Total | 1.2 | NA | 3.6 | NA |
| RD-91 | SMRD-091-GW082510 | Eu-155 | Filtered | 0.3 U | 3.5 | 1 | 1.7 |
| RD-91 | SMRD-091-GW082510 | Eu-155 | Suspended | 0.25 U | 1.2 | 0.36 | 0.59 |
| RD-91 | SMRD-091-GW082510 | Eu-155 | Total | 0.6 | NA | 1.1 | NA |
| RD-91 | SMRD-091-GW082510 | gross_alpha | Filtered | 11 | 0.4 | 0.74 | 0.2 |
| RD-91 | SMRD-091-GW082510 | gross_alpha | Suspended | 5.4 | 0.64 | 0.57 | 0.33 |
| RD-91 | SMRD-091-GW082510 | gross_alpha | Total | 16.4 | NA | 0.94 | NA |
| RD-91 | SMRD-091-GW082510 | gross_beta | Filtered | 10.8 | 3 | 1.4 | 1.7 |
| RD-91 | SMRD-091-GW082510 | gross_beta | Suspended | 9.4 | 0.88 | 0.65 | 0.49 |
| RD-91 | SMRD-091-GW082510 | gross_beta | Total | 20.2 | NA | 1.5 | NA |
| RD-91 | SMRD-091-GW082510 | H-3 | Filtered | 75 | 130 | 39 | 63 |
| RD-91 | SMRD-091-GW082510 | H-3 | Suspended | 1.7 U | 15 | 4.2 | 6.7 |
| RD-91 | SMRD-091-GW082510 | H-3 | Total | 77 | NA | 40 | NA |
| RD-91 | SMRD-091-GW082510 | Ho-166m | Filtered | 0.15 U | 1.9 | 0.56 | 0.91 |
| RD-91 | SMRD-091-GW082510 | Ho-166m | Suspended | -0.14 U | 1.1 | 0.33 | 0.54 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-91 | SMRD-091-GW082510 | Ho-166m | Total | 0.01 | NA | 0.65 | NA |
| RD-91 | SMRD-091-GW082510 | K-40 | Filtered | 7.1 U | 23 | 5.9 | 11 |
| RD-91 | SMRD-091-GW082510 | K-40 | Suspended | -3.9 U | 13 | 3.7 | 6.1 |
| RD-91 | SMRD-091-GW082510 | K-40 | Total | 3.2 | NA | 7 | NA |
| RD-91 | SMRD-091-GW082510 | Na-22 | Filtered | 0.01 U | 1.4 | 0.41 | 0.67 |
| RD-91 | SMRD-091-GW082510 | Na-22 | Suspended | 0.08 U | 0.83 | 0.24 | 0.39 |
| RD-91 | SMRD-091-GW082510 | Na-22 | Total | 0.09 | NA | 0.47 | NA |
| RD-91 | SMRD-091-GW082510 | Nb-94 | Filtered | -0.2 U | 1.1 | 0.33 | 0.54 |
| RD-91 | SMRD-091-GW082510 | Nb-94 | Suspended | 0 U | 0.72 | 0.21 | 0.35 |
| RD-91 | SMRD-091-GW082510 | Nb-94 | Total | -0.2 | NA | 0.39 | NA |
| RD-91 | SMRD-091-GW082510 | Np-236 | Filtered | 0.08 U | 2.8 | 0.84 | 1.4 |
| RD-91 | SMRD-091-GW082510 | Np-236 | Suspended | 0 U | 1.2 | 0.35 | 0.58 |
| RD-91 | SMRD-091-GW082510 | Np-236 | Total | 0.08 | NA | 0.91 | NA |
| RD-91 | SMRD-091-GW082510 | Np-239 | Filtered | -0.3 U | 7.6 | 2.2 | 3.7 |
| RD-91 | SMRD-091-GW082510 | Np-239 | Suspended | 0.08 U | 3.6 | 1.1 | 1.8 |
| RD-91 | SMRD-091-GW082510 | Np-239 | Total | -0.2 | NA | 2.5 | NA |
| RD-91 | SMRD-091-GW082510 | Pa-231 | Filtered | 4 U | 44 | 13 | 21 |
| RD-91 | SMRD-091-GW082510 | Pa-231 | Suspended | 6 U | 27 | 7.9 | 13 |
| RD-91 | SMRD-091-GW082510 | Pa-231 | Total | 10 | NA | 15 | NA |
| RD-91 | SMRD-091-GW082510 | Pb-212 | Filtered | 1.14 U | 2.9 | 0.98 | 1.4 |
| RD-91 | SMRD-091-GW082510 | Pb-212 | Suspended | 0.91 | 1.2 | 0.4 | 0.6 |
| RD-91 | SMRD-091-GW082510 | Pb-212 | Total | 2.1 | NA | 1.1 | NA |
| RD-91 | SMRD-091-GW082510 | Pb-214 | Filtered | 0.74 U | 2.7 | 0.97 | 1.3 |
| RD-91 | SMRD-091-GW082510 | Pb-214 | Suspended | 0.35 U | 1.3 | 0.38 | 0.61 |
| RD-91 | SMRD-091-GW082510 | Pb-214 | Total | 1.1 | NA | 1 | NA |
| RD-91 | SMRD-091-GW082510 | Sb-125 | Filtered | 6.1 U | 13 | 4.1 | 6.6 |
| RD-91 | SMRD-091-GW082510 | Sb-125 | Suspended | -1.5 U | 6.4 | 1.9 | 3.1 |
| RD-91 | SMRD-091-GW082510 | Sb-125 | Total | 4.6 | NA | 4.5 | NA |
| RD-91 | SMRD-091-GW082510 | Sn-126 | Filtered | 0.08 U | 1.2 | 0.35 | 0.57 |
| RD-91 | SMRD-091-GW082510 | Sn-126 | Suspended | 0.05 U | 0.82 | 0.24 | 0.39 |
| RD-91 | SMRD-091-GW082510 | Sn-126 | Total | 0.13 | NA | 0.42 | NA |
| RD-91 | SMRD-091-GW082510 | Sr-90 | Filtered | 0.041 U | 0.26 | 0.076 | 0.16 |
| RD-91 | SMRD-091-GW082510 | Sr-90 | Suspended | 0.141 | 0.14 | 0.048 | 0.085 |
| RD-91 | SMRD-091-GW082510 | Sr-90 | Total | 0.182 | NA | 0.09 | NA |
| RD-91 | SMRD-091-GW082510 | Te-125m | Filtered | 1.4 U | 3.1 | 0.94 | 1.5 |
| RD-91 | SMRD-091-GW082510 | Te-125m | Suspended | -0.34 U | 1.5 | 0.45 | 0.73 |
| RD-91 | SMRD-091-GW082510 | Te-125m | Total | 1.1 | NA | 1 | NA |
| RD-91 | SMRD-091-GW082510 | Th-231 | Filtered | 0.251 | 0.036 | 0.044 | 0.01 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-91 | SMRD-091-GW082510 | Th-231 | Suspended | 0.0106 | 0.033 | 0.0095 | 0.0093 |
| RD-91 | SMRD-091-GW082510 | Th-231 | Total | 0.261 | NA | 0.045 | NA |
| RD-91 | SMRD-091-GW082510 | Th-234 | Filtered | 3.7 U | 23 | 7.9 | 11 |
| RD-91 | SMRD-091-GW082510 | Th-234 | Suspended | 4 U | 8.8 | 3 | 4.3 |
| RD-91 | SMRD-091-GW082510 | Th-234 | Total | 7.7 | NA | 8.4 | NA |
| RD-91 | SMRD-091-GW082510 | Tl-208 | Filtered | 0.35 U | 1.7 | 0.66 | 0.84 |
| RD-91 | SMRD-091-GW082510 | Tl-208 | Suspended | 0.3 U | 0.75 | 0.23 | 0.36 |
| RD-91 | SMRD-091-GW082510 | Tl-208 | Total | 0.65 | NA | 0.7 | NA |
| RD-91 | SMRD-091-GW082510 | Tm-171 | Filtered | 90 U | 430 | 130 | 210 |
| RD-91 | SMRD-091-GW082510 | Tm-171 | Suspended | -23 U | 130 | 39 | 64 |
| RD-91 | SMRD-091-GW082510 | Tm-171 | Total | 70 | NA | 130 | NA |
| RD-91 | SMRD-091-GW082510 | U-233/234 | Filtered | 6.35 | 0.04 | 0.33 | 0.02 |
| RD-91 | SMRD-091-GW082510 | U-233/234 | Suspended | 0.12 | 0.044 | 0.028 | 0.018 |
| RD-91 | SMRD-091-GW082510 | U-233/234 | Total | 6.47 | NA | 0.33 | NA |
| RD-91 | SMRD-091-GW082510 | U-235/236 | Filtered | 0.251 | 0.036 | 0.044 | 0.01 |
| RD-91 | SMRD-091-GW082510 | U-235/236 | Suspended | 0.0106 | 0.033 | 0.0095 | 0.0093 |
| RD-91 | SMRD-091-GW082510 | U-235/236 | Total | 0.261 | NA | 0.045 | NA |
| RD-91 | SMRD-091-GW082510 | U-238 | Filtered | 5.32 | 0.03 | 0.28 | 0.01 |
| RD-91 | SMRD-091-GW082510 | U-238 | Suspended | 0.096 | 0.035 | 0.025 | 0.013 |
| RD-91 | SMRD-091-GW082510 | U-238 | Total | 5.41 | NA | 0.28 | NA |
| RD-92 | SMRD-092-GW082410 | Ac-227 | Filtered | -2.5 U | 9 | 2.7 | 4.3 |
| RD-92 | SMRD-092-GW082410 | Ac-227 | Suspended | -0.9 U | 3.8 | 1.1 | 1.9 |
| RD-92 | SMRD-092-GW082410 | Ac-227 | Total | -3.4 | NA | 2.9 | NA |
| RD-92 | SMRD-092-GW082410 | Ac-228 | Filtered | 3.3 | 4.1 | 1.3 | 1.9 |
| RD-92 | SMRD-092-GW082410 | Ac-228 | Suspended | -0.9 U | 2.9 | 1.1 | 1.4 |
| RD-92 | SMRD-092-GW082410 | Ac-228 | Total | 2.4 | NA | 1.7 | NA |
| RD-92 | SMRD-092-GW082410 | Ag-108 | Filtered | 0.01 U R | 0.097 | 0.028 | 0.046 |
| RD-92 | SMRD-092-GW082410 | Ag-108 | Suspended | -0.012 U R | 0.052 | 0.015 | 0.025 |
| RD-92 | SMRD-092-GW082410 | Ag-108 | Total | -0.003 R | NA | 0.032 | NA |
| RD-92 | SMRD-092-GW082410 | Ag-108m | Filtered | 0.1 U R | 1 | 0.3 | 0.49 |
| RD-92 | SMRD-092-GW082410 | Ag-108m | Suspended | -0.13 U R | 0.56 | 0.17 | 0.27 |
| RD-92 | SMRD-092-GW082410 | Ag-108m | Total | -0.03 R | NA | 0.34 | NA |
| RD-92 | SMRD-092-GW082410 | Ba-133 | Filtered | -0.007 U R | 12 | 3.6 | 5.9 |
| RD-92 | SMRD-092-GW082410 | Ba-133 | Suspended | 0 U R | 6.4 | 1.9 | 3.1 |
| RD-92 | SMRD-092-GW082410 | Ba-133 | Total | -0.007 R | NA | 4 | NA |
| RD-92 | SMRD-092-GW082410 | Ba-137m | Filtered | -0.04 U | 1.1 | 0.32 | 0.52 |
| RD-92 | SMRD-092-GW082410 | Ba-137m | Suspended | -0.19 U | 0.67 | 0.2 | 0.32 |
| RD-92 | SMRD-092-GW082410 | Ba-137m | Total | -0.23 | NA | 0.37 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-92 | SMRD-092-GW082410 | Bi-212 | Filtered | 0.1 U | 12 | 3.4 | 5.6 |
| RD-92 | SMRD-092-GW082410 | Bi-212 | Suspended | 3.2 | 5.6 | 1.7 | 2.7 |
| RD-92 | SMRD-092-GW082410 | Bi-212 | Total | 3.3 | NA | 3.8 | NA |
| RD-92 | SMRD-092-GW082410 | Bi-214 | Filtered | 0.02 U | 2.9 | 0.79 | 1.4 |
| RD-92 | SMRD-092-GW082410 | Bi-214 | Suspended | -0.48 U | 1.7 | 0.76 | 0.85 |
| RD-92 | SMRD-092-GW082410 | Bi-214 | Total | -0.5 | NA | 1.1 | NA |
| RD-92 | SMRD-092-GW082410 | Cd-113m | Filtered | -3400 U | 14000 | 4100 | 6600 |
| RD-92 | SMRD-092-GW082410 | Cd-113m | Suspended | -1100 U | 7300 | 2200 | 3600 |
| RD-92 | SMRD-092-GW082410 | Cd-113m | Total | -4400 | NA | 4600 | NA |
| RD-92 | SMRD-092-GW082410 | Cf-249 | Filtered | -0.05 U R | 6.3 | 1.8 | 3 |
| RD-92 | SMRD-092-GW082410 | Cf-249 | Suspended | -0.08 U R | 2.8 | 0.82 | 1.3 |
| RD-92 | SMRD-092-GW082410 | Cf-249 | Total | -0.1 R | NA | 2 | NA |
| RD-92 | SMRD-092-GW082410 | Co-60 | Filtered | -0.21 U | 1.6 | 0.47 | 0.75 |
| RD-92 | SMRD-092-GW082410 | Co-60 | Suspended | 0.25 U | 0.73 | 0.22 | 0.34 |
| RD-92 | SMRD-092-GW082410 | Co-60 | Total | 0.04 | NA | 0.51 | NA |
| RD-92 | SMRD-092-GW082410 | Cs-134 | Filtered | -0.36 U | 1.5 | 0.46 | 0.73 |
| RD-92 | SMRD-092-GW082410 | Cs-134 | Suspended | -0.23 U | 0.83 | 0.25 | 0.4 |
| RD-92 | SMRD-092-GW082410 | Cs-134 | Total | -0.59 | NA | 0.52 | NA |
| RD-92 | SMRD-092-GW082410 | Cs-137 | Filtered | -0.05 U | 1.2 | 0.33 | 0.55 |
| RD-92 | SMRD-092-GW082410 | Cs-137 | Suspended | -0.2 U | 0.7 | 0.21 | 0.34 |
| RD-92 | SMRD-092-GW082410 | Cs-137 | Total | -0.24 | NA | 0.39 | NA |
| RD-92 | SMRD-092-GW082410 | Eu-152 | Filtered | -0.3 U | 3.8 | 1.1 | 1.8 |
| RD-92 | SMRD-092-GW082410 | Eu-152 | Suspended | 0.32 U | 1.7 | 0.5 | 0.82 |
| RD-92 | SMRD-092-GW082410 | Eu-152 | Total | 0.01 | NA | 1.2 | NA |
| RD-92 | SMRD-092-GW082410 | Eu-154 | Filtered | 1.2 U | 11 | 3.1 | 5.1 |
| RD-92 | SMRD-092-GW082410 | Eu-154 | Suspended | 0.03 U | 4.9 | 1.4 | 2.3 |
| RD-92 | SMRD-092-GW082410 | Eu-154 | Total | 1.2 | NA | 3.4 | NA |
| RD-92 | SMRD-092-GW082410 | Eu-155 | Filtered | -0.04 U | 2.3 | 0.67 | 1.1 |
| RD-92 | SMRD-092-GW082410 | Eu-155 | Suspended | -0.17 U | 1.2 | 0.35 | 0.57 |
| RD-92 | SMRD-092-GW082410 | Eu-155 | Total | -0.21 | NA | 0.75 | NA |
| RD-92 | SMRD-092-GW082410 | gross_alpha | Filtered | 1.68 | 0.45 | 0.27 | 0.23 |
| RD-92 | SMRD-092-GW082410 | gross_alpha | Suspended | 0.12 U | 0.55 | 0.15 | 0.29 |
| RD-92 | SMRD-092-GW082410 | gross_alpha | Total | 1.8 | NA | 0.31 | NA |
| RD-92 | SMRD-092-GW082410 | gross_beta | Filtered | 2.05 | 1.3 | 0.47 | 0.78 |
| RD-92 | SMRD-092-GW082410 | gross_beta | Suspended | 0.12 U | 0.73 | 0.21 | 0.43 |
| RD-92 | SMRD-092-GW082410 | gross_beta | Total | 2.16 | NA | 0.52 | NA |
| RD-92 | SMRD-092-GW082410 | H-3 | Filtered | 46 U | 130 | 38 | 62 |
| RD-92 | SMRD-092-GW082410 | H-3 | Suspended | 7.3 | 14 | 4.4 | 6.1 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-92 | SMRD-092-GW082410 | H-3 | Total | 53 | NA | 38 | NA |
| RD-92 | SMRD-092-GW082410 | Ho-166m | Filtered | 0 U | 2 | 0.56 | 0.92 |
| RD-92 | SMRD-092-GW082410 | Ho-166m | Suspended | 0.15 U | 1.1 | 0.33 | 0.54 |
| RD-92 | SMRD-092-GW082410 | Ho-166m | Total | 0.15 | NA | 0.65 | NA |
| RD-92 | SMRD-092-GW082410 | K-40 | Filtered | -17 U | 22 | 55 | 10 |
| RD-92 | SMRD-092-GW082410 | K-40 | Suspended | 4.9 U | 12 | 3 | 5.6 |
| RD-92 | SMRD-092-GW082410 | K-40 | Total | -12 | NA | 55 | NA |
| RD-92 | SMRD-092-GW082410 | Na-22 | Filtered | 0.41 U | 1.5 | 0.44 | 0.68 |
| RD-92 | SMRD-092-GW082410 | Na-22 | Suspended | -0.15 U | 0.84 | 0.25 | 0.4 |
| RD-92 | SMRD-092-GW082410 | Na-22 | Total | 0.26 | NA | 0.5 | NA |
| RD-92 | SMRD-092-GW082410 | Nb-94 | Filtered | -0.19 U | 1.2 | 0.36 | 0.58 |
| RD-92 | SMRD-092-GW082410 | Nb-94 | Suspended | -0.09 U | 0.68 | 0.2 | 0.33 |
| RD-92 | SMRD-092-GW082410 | Nb-94 | Total | -0.28 | NA | 0.41 | NA |
| RD-92 | SMRD-092-GW082410 | Np-236 | Filtered | 0.69 U | 2.5 | 0.75 | 1.2 |
| RD-92 | SMRD-092-GW082410 | Np-236 | Suspended | 0.14 U | 1.1 | 0.32 | 0.52 |
| RD-92 | SMRD-092-GW082410 | Np-236 | Total | 0.83 | NA | 0.81 | NA |
| RD-92 | SMRD-092-GW082410 | Np-239 | Filtered | 0.2 U | 7.6 | 2.2 | 3.7 |
| RD-92 | SMRD-092-GW082410 | Np-239 | Suspended | -0.3 U | 3.7 | 1.1 | 1.8 |
| RD-92 | SMRD-092-GW082410 | Np-239 | Total | -0.2 | NA | 2.5 | NA |
| RD-92 | SMRD-092-GW082410 | Pa-231 | Filtered | 15 U | 54 | 16 | 26 |
| RD-92 | SMRD-092-GW082410 | Pa-231 | Suspended | 3.2 U | 25 | 7.5 | 12 |
| RD-92 | SMRD-092-GW082410 | Pa-231 | Total | 19 | NA | 18 | NA |
| RD-92 | SMRD-092-GW082410 | Pb-212 | Filtered | 0.67 U | 2.2 | 0.76 | 1.1 |
| RD-92 | SMRD-092-GW082410 | Pb-212 | Suspended | 0.35 U | 1.2 | 0.37 | 0.58 |
| RD-92 | SMRD-092-GW082410 | Pb-212 | Total | 1.02 | NA | 0.85 | NA |
| RD-92 | SMRD-092-GW082410 | Pb-214 | Filtered | -0.5 U | 3 | 1.3 | 1.4 |
| RD-92 | SMRD-092-GW082410 | Pb-214 | Suspended | 0.04 U | 1.5 | 0.51 | 0.72 |
| RD-92 | SMRD-092-GW082410 | Pb-214 | Total | -0.5 | NA | 1.4 | NA |
| RD-92 | SMRD-092-GW082410 | Sb-125 | Filtered | 3.2 U | 11 | 3.4 | 5.5 |
| RD-92 | SMRD-092-GW082410 | Sb-125 | Suspended | -1.1 U | 6.1 | 1.8 | 2.9 |
| RD-92 | SMRD-092-GW082410 | Sb-125 | Total | 2.1 | NA | 3.9 | NA |
| RD-92 | SMRD-092-GW082410 | Sn-126 | Filtered | 0.51 U | 1.3 | 0.4 | 0.62 |
| RD-92 | SMRD-092-GW082410 | Sn-126 | Suspended | -0.09 U | 0.81 | 0.24 | 0.39 |
| RD-92 | SMRD-092-GW082410 | Sn-126 | Total | 0.42 | NA | 0.46 | NA |
| RD-92 | SMRD-092-GW082410 | Sr-90 | Filtered | 0.04 U | 0.25 | 0.073 | 0.15 |
| RD-92 | SMRD-092-GW082410 | Sr-90 | Suspended | 0.091 U | 0.16 | 0.05 | 0.096 |
| RD-92 | SMRD-092-GW082410 | Sr-90 | Total | 0.131 | NA | 0.088 | NA |
| RD-92 | SMRD-092-GW082410 | Te-125m | Filtered | 0.74 U | 2.6 | 0.79 | 1.3 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-92 | SMRD-092-GW082410 | Te-125m | Suspended | -0.25 U | 1.4 | 0.42 | 0.68 |
| RD-92 | SMRD-092-GW082410 | Te-125m | Total | 0.49 | NA | 0.89 | NA |
| RD-92 | SMRD-092-GW082410 | Th-231 | Filtered | 0.009 U | 0.043 | 0.011 | 0.014 |
| RD-92 | SMRD-092-GW082410 | Th-231 | Suspended | 0.0038 U | 0.031 | 0.0065 | 0.0087 |
| RD-92 | SMRD-092-GW082410 | Th-231 | Total | 0.013 | NA | 0.013 | NA |
| RD-92 | SMRD-092-GW082410 | Th-234 | Filtered | -5.2 U | 23 | 8.8 | 11 |
| RD-92 | SMRD-092-GW082410 | Th-234 | Suspended | -0.4 U | 8.3 | 2.6 | 4.1 |
| RD-92 | SMRD-092-GW082410 | Th-234 | Total | -5.6 | NA | 9.2 | NA |
| RD-92 | SMRD-092-GW082410 | Tl-208 | Filtered | -0.15 U | 1.7 | 0.58 | 0.8 |
| RD-92 | SMRD-092-GW082410 | Tl-208 | Suspended | 0.41 | 0.84 | 0.31 | 0.4 |
| RD-92 | SMRD-092-GW082410 | Tl-208 | Total | 0.25 | NA | 0.66 | NA |
| RD-92 | SMRD-092-GW082410 | Tm-171 | Filtered | 70 U | 350 | 100 | 170 |
| RD-92 | SMRD-092-GW082410 | Tm-171 | Suspended | 6 U | 120 | 36 | 59 |
| RD-92 | SMRD-092-GW082410 | Tm-171 | Total | 70 | NA | 110 | NA |
| RD-92 | SMRD-092-GW082410 | U-233/234 | Filtered | 1.01 | 0.039 | 0.088 | 0.014 |
| RD-92 | SMRD-092-GW082410 | U-233/234 | Suspended | 0.015 U | 0.039 | 0.014 | 0.016 |
| RD-92 | SMRD-092-GW082410 | U-233/234 | Total | 1.03 | NA | 0.089 | NA |
| RD-92 | SMRD-092-GW082410 | U-235/236 | Filtered | 0.009 U | 0.043 | 0.011 | 0.014 |
| RD-92 | SMRD-092-GW082410 | U-235/236 | Suspended | 0.0038 U | 0.031 | 0.0065 | 0.0087 |
| RD-92 | SMRD-092-GW082410 | U-235/236 | Total | 0.013 | NA | 0.013 | NA |
| RD-92 | SMRD-092-GW082410 | U-238 | Filtered | 0.742 | 0.015 | 0.072 | 0.008 |
| RD-92 | SMRD-092-GW082410 | U-238 | Suspended | 0.0103 | 0.025 | 0.01 | 0.007 |
| RD-92 | SMRD-092-GW082410 | U-238 | Total | 0.752 | NA | 0.073 | NA |
| RD-93 | SMRD-093-GW090210 | Ac-227 | Filtered | 0.6 U | 9 | 2.7 | 4.4 |
| RD-93 | SMRD-093-GW090210 | Ac-227 | Suspended | -1.8 U | 4.5 | 1.4 | 2.2 |
| RD-93 | SMRD-093-GW090210 | Ac-227 | Total | -1.2 | NA | 3 | NA |
| RD-93 | SMRD-093-GW090210 | Ac-228 | Filtered | 2.2 B | 4.9 | 1.5 | 2.2 |
| RD-93 | SMRD-093-GW090210 | Ac-228 | Suspended | 2.18 | 2.3 | 0.74 | 1.1 |
| RD-93 | SMRD-093-GW090210 | Ac-228 | Total | 4.4 B | NA | 1.6 | NA |
| RD-93 | SMRD-093-GW090210 | Ag-108 | Filtered | 0.045 U R | 0.1 | 0.032 | 0.049 |
| RD-93 | SMRD-093-GW090210 | Ag-108 | Suspended | 0.021 U R | 0.047 | 0.014 | 0.022 |
| RD-93 | SMRD-093-GW090210 | Ag-108 | Total | 0.066 R | NA | 0.035 | NA |
| RD-93 | SMRD-093-GW090210 | Ag-108m | Filtered | 0.48 U R | 1.1 | 0.34 | 0.53 |
| RD-93 | SMRD-093-GW090210 | Ag-108m | Suspended | 0.23 U R | 0.51 | 0.15 | 0.24 |
| RD-93 | SMRD-093-GW090210 | Ag-108m | Total | 0.71 R | NA | 0.37 | NA |
| RD-93 | SMRD-093-GW090210 | Ba-133 | Filtered | -2.6 U R | 13 | 4 | 6.4 |
| RD-93 | SMRD-093-GW090210 | Ba-133 | Suspended | 0.7 U R | 6.3 | 1.9 | 3 |
| RD-93 | SMRD-093-GW090210 | Ba-133 | Total | -2 R | NA | 4.4 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-93 | SMRD-093-GW090210 | Ba-137m | Filtered | 0.27 U | 1.2 | 0.36 | 0.57 |
| RD-93 | SMRD-093-GW090210 | Ba-137m | Suspended | -0.25 U | 0.77 | 0.52 | 0.36 |
| RD-93 | SMRD-093-GW090210 | Ba-137m | Total | 0.01 | NA | 0.63 | NA |
| RD-93 | SMRD-093-GW090210 | Bi-212 | Filtered | 4.9 U | 12 | 3.5 | 5.4 |
| RD-93 | SMRD-093-GW090210 | Bi-212 | Suspended | -0.06 U | 4.9 | 1.4 | 2.3 |
| RD-93 | SMRD-093-GW090210 | Bi-212 | Total | 4.8 | NA | 3.8 | NA |
| RD-93 | SMRD-093-GW090210 | Bi-214 | Filtered | 1.7 | 3 | 1.2 | 1.4 |
| RD-93 | SMRD-093-GW090210 | Bi-214 | Suspended | 0.13 U | 1.7 | 0.45 | 0.8 |
| RD-93 | SMRD-093-GW090210 | Bi-214 | Total | 1.9 | NA | 1.2 | NA |
| RD-93 | SMRD-093-GW090210 | Cd-113m | Filtered | -2100 U | 17000 | 5200 | 8400 |
| RD-93 | SMRD-093-GW090210 | Cd-113m | Suspended | 1000 U | 6400 | 1900 | 3000 |
| RD-93 | SMRD-093-GW090210 | Cd-113m | Total | -1100 | NA | 5500 | NA |
| RD-93 | SMRD-093-GW090210 | Cf-249 | Filtered | 3.2 R | 5.9 | 1.8 | 2.8 |
| RD-93 | SMRD-093-GW090210 | Cf-249 | Suspended | 1.79 B R | 2.6 | 0.8 | 1.2 |
| RD-93 | SMRD-093-GW090210 | Cf-249 | Total | 5 B R | NA | 2 | NA |
| RD-93 | SMRD-093-GW090210 | Co-60 | Filtered | 0.46 U | 1.7 | 0.5 | 0.77 |
| RD-93 | SMRD-093-GW090210 | Co-60 | Suspended | -0.02 U | 0.65 | 0.18 | 0.29 |
| RD-93 | SMRD-093-GW090210 | Co-60 | Total | 0.44 | NA | 0.53 | NA |
| RD-93 | SMRD-093-GW090210 | Cs-134 | Filtered | -0.03 U | 1.8 | 0.52 | 0.86 |
| RD-93 | SMRD-093-GW090210 | Cs-134 | Suspended | -0.46 U | 0.99 | 0.3 | 0.48 |
| RD-93 | SMRD-093-GW090210 | Cs-134 | Total | -0.49 | NA | 0.6 | NA |
| RD-93 | SMRD-093-GW090210 | Cs-137 | Filtered | 0.28 U | 1.3 | 0.38 | 0.61 |
| RD-93 | SMRD-093-GW090210 | Cs-137 | Suspended | -0.27 U | 0.81 | 0.55 | 0.38 |
| RD-93 | SMRD-093-GW090210 | Cs-137 | Total | 0.02 | NA | 0.67 | NA |
| RD-93 | SMRD-093-GW090210 | Eu-152 | Filtered | 0.08 U | 2.9 | 0.84 | 1.4 |
| RD-93 | SMRD-093-GW090210 | Eu-152 | Suspended | 0.39 U | 1.8 | 0.52 | 0.84 |
| RD-93 | SMRD-093-GW090210 | Eu-152 | Total | 0.47 | NA | 0.99 | NA |
| RD-93 | SMRD-093-GW090210 | Eu-154 | Filtered | 1 U | 9.4 | 2.6 | 4.2 |
| RD-93 | SMRD-093-GW090210 | Eu-154 | Suspended | 1.5 U | 6 | 1.8 | 2.8 |
| RD-93 | SMRD-093-GW090210 | Eu-154 | Total | 2.4 | NA | 3.2 | NA |
| RD-93 | SMRD-093-GW090210 | Eu-155 | Filtered | 0.6 U | 3.3 | 0.98 | 1.6 |
| RD-93 | SMRD-093-GW090210 | Eu-155 | Suspended | 0.32 U | 1.3 | 0.39 | 0.64 |
| RD-93 | SMRD-093-GW090210 | Eu-155 | Total | 0.9 | NA | 1.1 | NA |
| RD-93 | SMRD-093-GW090210 | gross_alpha | Filtered | 19.5 | 0.4 | 1.1 | 0.2 |
| RD-93 | SMRD-093-GW090210 | gross_alpha | Suspended | 6.8 | 1.8 | 1 | 0.9 |
| RD-93 | SMRD-093-GW090210 | gross_alpha | Total | 26.3 | NA | 1.5 | NA |
| RD-93 | SMRD-093-GW090210 | gross_beta | Filtered | 13.9 | 1.6 | 1 | 0.9 |
| RD-93 | SMRD-093-GW090210 | gross_beta | Suspended | 29.8 | 1 | 1.4 | 0.6 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-93 | SMRD-093-GW090210 | gross_beta | Total | 43.7 | NA | 1.8 | NA |
| RD-93 | SMRD-093-GW090210 | H-3 | Filtered | 8200 | 150 | 370 | 70 |
| RD-93 | SMRD-093-GW090210 | H-3 | Suspended | 8.4 R | 14 | 4.4 | 6 |
| RD-93 | SMRD-093-GW090210 | H-3 | Total | 8210 R | NA | 370 | NA |
| RD-93 | SMRD-093-GW090210 | Ho-166m | Filtered | 0.005 U | 2.3 | 0.66 | 1.1 |
| RD-93 | SMRD-093-GW090210 | Ho-166m | Suspended | 0.15 U | 1.1 | 0.31 | 0.5 |
| RD-93 | SMRD-093-GW090210 | Ho-166m | Total | 0.16 | NA | 0.73 | NA |
| RD-93 | SMRD-093-GW090210 | K-40 | Filtered | 8.7 | 16 | 5 | 7.5 |
| RD-93 | SMRD-093-GW090210 | K-40 | Suspended | 14.7 | 9.4 | 3.4 | 4.4 |
| RD-93 | SMRD-093-GW090210 | K-40 | Total | 23.4 | NA | 6.1 | NA |
| RD-93 | SMRD-093-GW090210 | Na-22 | Filtered | -0.35 U | 1.9 | 0.55 | 0.87 |
| RD-93 | SMRD-093-GW090210 | Na-22 | Suspended | -0.02 U | 0.87 | 0.24 | 0.4 |
| RD-93 | SMRD-093-GW090210 | Na-22 | Total | -0.36 | NA | 0.6 | NA |
| RD-93 | SMRD-093-GW090210 | Nb-94 | Filtered | -0.09 U | 1.3 | 0.38 | 0.63 |
| RD-93 | SMRD-093-GW090210 | Nb-94 | Suspended | 0.18 U | 0.6 | 0.18 | 0.28 |
| RD-93 | SMRD-093-GW090210 | Nb-94 | Total | 0.09 | NA | 0.42 | NA |
| RD-93 | SMRD-093-GW090210 | Np-236 | Filtered | 1.23 SK | 2.4 | 0.73 | 1.2 |
| RD-93 | SMRD-093-GW090210 | Np-236 | Suspended | -0.05 U | 1.3 | 0.37 | 0.61 |
| RD-93 | SMRD-093-GW090210 | Np-236 | Total | 1.18 | NA | 0.82 | NA |
| RD-93 | SMRD-093-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-93 | SMRD-093-GW090210 | Np-239 | Filtered | 0.7 U | 6.8 | 2 | 3.2 |
| RD-93 | SMRD-093-GW090210 | Np-239 | Suspended | 0 U | 4.1 | 1.2 | 2 |
| RD-93 | SMRD-093-GW090210 | Np-239 | Total | 0.7 | NA | 2.3 | NA |
| RD-93 | SMRD-093-GW090210 | Pa-231 | Filtered | 6 U | 54 | 16 | 26 |
| RD-93 | SMRD-093-GW090210 | Pa-231 | Suspended | 0.04 U | 26 | 7.6 | 13 |
| RD-93 | SMRD-093-GW090210 | Pa-231 | Total | 6 | NA | 18 | NA |
| RD-93 | SMRD-093-GW090210 | Pb-212 | Filtered | -0.9 U | 2.9 | 1.4 | 1.4 |
| RD-93 | SMRD-093-GW090210 | Pb-212 | Suspended | 1.18 | 1.2 | 0.46 | 0.57 |
| RD-93 | SMRD-093-GW090210 | Pb-212 | Total | 0.3 | NA | 1.5 | NA |
| RD-93 | SMRD-093-GW090210 | Pb-214 | Filtered | -1 U | 3.1 | 2.2 | 1.5 |
| RD-93 | SMRD-093-GW090210 | Pb-214 | Suspended | -0.1 U | 1.4 | 0.39 | 0.67 |
| RD-93 | SMRD-093-GW090210 | Pb-214 | Total | -1.2 | NA | 2.3 | NA |
| RD-93 | SMRD-093-GW090210 | Sb-125 | Filtered | -0.02 U | 13 | 3.8 | 6.2 |
| RD-93 | SMRD-093-GW090210 | Sb-125 | Suspended | 0.1 U | 6.7 | 2 | 3.3 |
| RD-93 | SMRD-093-GW090210 | Sb-125 | Total | 0.1 | NA | 4.3 | NA |
| RD-93 | SMRD-093-GW090210 | Sn-126 | Filtered | 0.26 U | 1.6 | 0.47 | 0.75 |
| RD-93 | SMRD-093-GW090210 | Sn-126 | Suspended | 0.29 U | 0.73 | 0.22 | 0.34 |
| RD-93 | SMRD-093-GW090210 | Sn-126 | Total | 0.55 | NA | 0.52 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-93 | SMRD-093-GW090210 | Sr-90 | Filtered | 0.001 U | 0.14 | 0.041 | 0.08 |
| RD-93 | SMRD-093-GW090210 | Sr-90 | Suspended | 0.047 U | 0.1 | 0.032 | 0.059 |
| RD-93 | SMRD-093-GW090210 | Sr-90 | Total | 0.048 | NA | 0.052 | NA |
| RD-93 | SMRD-093-GW090210 | Te-125m | Filtered | -0.004 U | 3 | 0.87 | 1.4 |
| RD-93 | SMRD-093-GW090210 | Te-125m | Suspended | 0.03 U | 1.5 | 0.46 | 0.75 |
| RD-93 | SMRD-093-GW090210 | Te-125m | Total | 0.03 | NA | 0.99 | NA |
| RD-93 | SMRD-093-GW090210 | Th-231 | Filtered | 0.376 | 0.007 | 0.036 | 0.006 |
| RD-93 | SMRD-093-GW090210 | Th-231 | Suspended | 0.047 | 0.013 | 0.015 | 0.011 |
| RD-93 | SMRD-093-GW090210 | Th-231 | Total | 0.423 | NA | 0.039 | NA |
| RD-93 | SMRD-093-GW090210 | Th-234 | Filtered | 11.2 U | 26 | 9.5 | 12 |
| RD-93 | SMRD-093-GW090210 | Th-234 | Suspended | 0.6 U | 8 | 2.8 | 3.9 |
| RD-93 | SMRD-093-GW090210 | Th-234 | Total | 11.8 | NA | 9.9 | NA |
| RD-93 | SMRD-093-GW090210 | Tl-208 | Filtered | 0.18 U | 1.8 | 0.49 | 0.88 |
| RD-93 | SMRD-093-GW090210 | Tl-208 | Suspended | 0.25 U | 0.91 | 0.26 | 0.43 |
| RD-93 | SMRD-093-GW090210 | Tl-208 | Total | 0.43 | NA | 0.55 | NA |
| RD-93 | SMRD-093-GW090210 | Tm-171 | Filtered | -50 U | 370 | 110 | 180 |
| RD-93 | SMRD-093-GW090210 | Tm-171 | Suspended | -147 R U | 140 | 43 | 67 |
| RD-93 | SMRD-093-GW090210 | Tm-171 | Total | -190 R | NA | 120 | NA |
| RD-93 | SMRD-093-GW090210 | U-233/234 | Filtered | 9.16 | 0.02 | 0.41 | 0.007 |
| RD-93 | SMRD-093-GW090210 | U-233/234 | Suspended | 0.572 | 0.035 | 0.053 | 0.012 |
| RD-93 | SMRD-093-GW090210 | U-233/234 | Total | 9.73 | NA | 0.41 | NA |
| RD-93 | SMRD-093-GW090210 | U-235/236 | Filtered | 0.376 | 0.007 | 0.036 | 0.006 |
| RD-93 | SMRD-093-GW090210 | U-235/236 | Suspended | 0.047 | 0.013 | 0.015 | 0.011 |
| RD-93 | SMRD-093-GW090210 | U-235/236 | Total | 0.423 | NA | 0.039 | NA |
| RD-93 | SMRD-093-GW090210 | U-238 | Filtered | 8.17 | 0.006 | 0.37 | 0.005 |
| RD-93 | SMRD-093-GW090210 | U-238 | Suspended | 0.563 | 0.035 | 0.053 | 0.012 |
| RD-93 | SMRD-093-GW090210 | U-238 | Total | 8.73 | NA | 0.37 | NA |
| RD-94 | SMRD-94-GW083110 | Ac-227 | Filtered | -7.8 L U | 10 | 3.2 | 5.1 |
| RD-94 | SMRD-94-GW083110 | Ac-227 | Suspended | -6.9 R U | 5.5 | 1.7 | 2.7 |
| RD-94 | SMRD-94-GW083110 | Ac-227 | Total | -14.6 R | NA | 3.6 | NA |
| RD-94 | SMRD-94-GW083110 | Ac-228 | Filtered | 3.9 | 3.7 | 1.2 | 1.7 |
| RD-94 | SMRD-94-GW083110 | Ac-228 | Suspended | -0.08 U | 3.2 | 0.88 | 1.5 |
| RD-94 | SMRD-94-GW083110 | Ac-228 | Total | 3.8 | NA | 1.5 | NA |
| RD-94 | SMRD-94-GW083110 | Ag-108 | Filtered | -0.001 U R | 0.065 | 0.019 | 0.031 |
| RD-94 | SMRD-94-GW083110 | Ag-108 | Suspended | 0.024 R | 0.047 | 0.014 | 0.023 |
| RD-94 | SMRD-94-GW083110 | Ag-108 | Total | 0.023 R | NA | 0.024 | NA |
| RD-94 | SMRD-94-GW083110 | Ag-108m | Filtered | -0.01 U R | 0.7 | 0.2 | 0.33 |
| RD-94 | SMRD-94-GW083110 | Ag-108m | Suspended | 0.25 R | 0.51 | 0.15 | 0.24 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-94 | SMRD-94-GW083110 | Ag-108m | Total | 0.24 R | NA | 0.25 | NA |
| RD-94 | SMRD-94-GW083110 | Ba-133 | Filtered | -4.1 U R | 13 | 4 | 6.5 |
| RD-94 | SMRD-94-GW083110 | Ba-133 | Suspended | 0.7 U R | 6.1 | 1.8 | 3 |
| RD-94 | SMRD-94-GW083110 | Ba-133 | Total | -3.5 R | NA | 4.4 | NA |
| RD-94 | SMRD-94-GW083110 | Ba-137m | Filtered | 0.0005 U | 1.2 | 0.34 | 0.57 |
| RD-94 | SMRD-94-GW083110 | Ba-137m | Suspended | -0.03 U | 0.55 | 0.16 | 0.26 |
| RD-94 | SMRD-94-GW083110 | Ba-137m | Total | -0.03 | NA | 0.38 | NA |
| RD-94 | SMRD-94-GW083110 | Bi-212 | Filtered | -0.6 U | 12 | 3.9 | 5.6 |
| RD-94 | SMRD-94-GW083110 | Bi-212 | Suspended | -2.5 U | 6.3 | 1.9 | 3 |
| RD-94 | SMRD-94-GW083110 | Bi-212 | Total | -3 | NA | 4.4 | NA |
| RD-94 | SMRD-94-GW083110 | Bi-214 | Filtered | 1 U | 3 | 1.1 | 1.4 |
| RD-94 | SMRD-94-GW083110 | Bi-214 | Suspended | 1.09 | 1.7 | 0.62 | 0.84 |
| RD-94 | SMRD-94-GW083110 | Bi-214 | Total | 2.1 | NA | 1.2 | NA |
| RD-94 | SMRD-94-GW083110 | Cd-113m | Filtered | -1300 U | 15000 | 4500 | 7400 |
| RD-94 | SMRD-94-GW083110 | Cd-113m | Suspended | -200 U | 7100 | 2100 | 3400 |
| RD-94 | SMRD-94-GW083110 | Cd-113m | Total | -1500 | NA | 5000 | NA |
| RD-94 | SMRD-94-GW083110 | Cf-249 | Filtered | -0.4 U R | 5.5 | 1.6 | 2.7 |
| RD-94 | SMRD-94-GW083110 | Cf-249 | Suspended | 0.92 U R | 2.7 | 0.81 | 1.3 |
| RD-94 | SMRD-94-GW083110 | Cf-249 | Total | 0.5 R | NA | 1.8 | NA |
| RD-94 | SMRD-94-GW083110 | Co-60 | Filtered | 0.16 U | 1 | 0.29 | 0.46 |
| RD-94 | SMRD-94-GW083110 | Co-60 | Suspended | 0.1 U | 0.75 | 0.22 | 0.35 |
| RD-94 | SMRD-94-GW083110 | Co-60 | Total | 0.25 | NA | 0.36 | NA |
| RD-94 | SMRD-94-GW083110 | Cs-134 | Filtered | -0.03 U | 1.4 | 0.42 | 0.69 |
| RD-94 | SMRD-94-GW083110 | Cs-134 | Suspended | -0.05 U | 0.84 | 0.25 | 0.41 |
| RD-94 | SMRD-94-GW083110 | Cs-134 | Total | -0.08 SK | NA | 0.49 | NA |
| RD-94 | SMRD-94-GW083110 | Cs-137 | Filtered | 0.0006 U | 1.3 | 0.36 | 0.6 |
| RD-94 | SMRD-94-GW083110 | Cs-137 | Suspended | -0.03 U | 0.59 | 0.17 | 0.28 |
| RD-94 | SMRD-94-GW083110 | Cs-137 | Total | -0.03 | NA | 0.4 | NA |
| RD-94 | SMRD-94-GW083110 | Eu-152 | Filtered | 0.34 U | 3.3 | 0.97 | 1.6 |
| RD-94 | SMRD-94-GW083110 | Eu-152 | Suspended | -0.07 U | 2 | 0.59 | 0.97 |
| RD-94 | SMRD-94-GW083110 | Eu-152 | Total | 0.3 | NA | 1.1 | NA |
| RD-94 | SMRD-94-GW083110 | Eu-154 | Filtered | -0.9 U | 11 | 3.1 | 5.1 |
| RD-94 | SMRD-94-GW083110 | Eu-154 | Suspended | 2.8 | 4.8 | 1.5 | 2.2 |
| RD-94 | SMRD-94-GW083110 | Eu-154 | Total | 1.8 | NA | 3.4 | NA |
| RD-94 | SMRD-94-GW083110 | Eu-155 | Filtered | -0.2 U | 3.4 | 1 | 1.7 |
| RD-94 | SMRD-94-GW083110 | Eu-155 | Suspended | -0.08 U | 1.2 | 0.35 | 0.58 |
| RD-94 | SMRD-94-GW083110 | Eu-155 | Total | -0.2 SK | NA | 1.1 | NA |
| RD-94 | SMRD-94-GW083110 | gross_alpha | Filtered | 15.2 | 0.36 | 0.91 | 0.18 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-94 | SMRD-94-GW083110 | gross_alpha | Suspended | 15.7 | 1 | 1.2 | 0.5 |
| RD-94 | SMRD-94-GW083110 | gross_alpha | Total | 30.9 | NA | 1.5 | NA |
| RD-94 | SMRD-94-GW083110 | gross_beta | Filtered | 12.5 | 2.9 | 1.4 | 1.7 |
| RD-94 | SMRD-94-GW083110 | gross_beta | Suspended | 9.36 | 0.97 | 0.67 | 0.53 |
| RD-94 | SMRD-94-GW083110 | gross_beta | Total | 21.9 | NA | 1.6 | NA |
| RD-94 | SMRD-94-GW083110 | H-3 | Filtered | 9550 B | 130 | 430 | 60 |
| RD-94 | SMRD-94-GW083110 | H-3 | Suspended | -4.9 U RB | 19 | 4.8 | 8.4 |
| RD-94 | SMRD-94-GW083110 | H-3 | Total | 9540 RB | NA | 430 | NA |
| RD-94 | SMRD-94-GW083110 | Ho-166m | Filtered | 0.32 U | 1.9 | 0.56 | 0.9 |
| RD-94 | SMRD-94-GW083110 | Ho-166m | Suspended | -0.2 U | 1.1 | 0.34 | 0.55 |
| RD-94 | SMRD-94-GW083110 | Ho-166m | Total | 0.12 SK | NA | 0.65 | NA |
| RD-94 | SMRD-94-GW083110 | K-40 | Filtered | 15.4 | 24 | 7 | 12 |
| RD-94 | SMRD-94-GW083110 | K-40 | Suspended | 11 | 12 | 3.9 | 5.8 |
| RD-94 | SMRD-94-GW083110 | K-40 | Total | 26.4 | NA | 8 | NA |
| RD-94 | SMRD-94-GW083110 | Na-22 | Filtered | 0.18 U | 1.1 | 0.32 | 0.51 |
| RD-94 | SMRD-94-GW083110 | Na-22 | Suspended | -0.05 U | 0.7 | 0.2 | 0.32 |
| RD-94 | SMRD-94-GW083110 | Na-22 | Total | 0.13 | NA | 0.37 | NA |
| RD-94 | SMRD-94-GW083110 | Nb-94 | Filtered | 0.42 | 0.88 | 0.27 | 0.42 |
| RD-94 | SMRD-94-GW083110 | Nb-94 | Suspended | 0.18 U | 0.66 | 0.2 | 0.32 |
| RD-94 | SMRD-94-GW083110 | Nb-94 | Total | 0.6 | NA | 0.33 | NA |
| RD-94 | SMRD-94-GW083110 | Np-236 | Filtered | -0.51 U | 2.9 | 0.87 | 1.4 |
| RD-94 | SMRD-94-GW083110 | Np-236 | Suspended | 0.16 U | 0.86 | 0.25 | 0.41 |
| RD-94 | SMRD-94-GW083110 | Np-236 | Total | -0.34 SK | NA | 0.91 | NA |
| RD-94 | SMRD-94-GW083110 | Np-239 | Filtered | -1.3 U | 7.9 | 2.4 | 3.9 |
| RD-94 | SMRD-94-GW083110 | Np-239 | Suspended | -0.01 U | 3.8 | 1.1 | 1.8 |
| RD-94 | SMRD-94-GW083110 | Np-239 | Total | -1.3 | NA | 2.6 | NA |
| RD-94 | SMRD-94-GW083110 | Pa-231 | Filtered | 14 U | 47 | 14 | 23 |
| RD-94 | SMRD-94-GW083110 | Pa-231 | Suspended | -0.9 U | 31 | 9.1 | 15 |
| RD-94 | SMRD-94-GW083110 | Pa-231 | Total | 13 | NA | 17 | NA |
| RD-94 | SMRD-94-GW083110 | Pb-212 | Filtered | -0.04 U | 3 | 1 | 1.4 |
| RD-94 | SMRD-94-GW083110 | Pb-212 | Suspended | 2.41 | 1.3 | 0.46 | 0.63 |
| RD-94 | SMRD-94-GW083110 | Pb-212 | Total | 2.4 | NA | 1.1 | NA |
| RD-94 | SMRD-94-GW083110 | Pb-214 | Filtered | 1.37 | 2.5 | 0.85 | 1.2 |
| RD-94 | SMRD-94-GW083110 | Pb-214 | Suspended | 0.34 U | 1.5 | 0.54 | 0.74 |
| RD-94 | SMRD-94-GW083110 | Pb-214 | Total | 1.7 | NA | 1 | NA |
| RD-94 | SMRD-94-GW083110 | Sb-125 | Filtered | -2.5 U | 15 | 4.4 | 7.2 |
| RD-94 | SMRD-94-GW083110 | Sb-125 | Suspended | 1.3 U | 6.4 | 1.9 | 3.1 |
| RD-94 | SMRD-94-GW083110 | Sb-125 | Total | -1.2 SK | NA | 4.8 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-94 | SMRD-94-GW083110 | Sn-126 | Filtered | -0.02 U | 1.3 | 0.37 | 0.6 |
| RD-94 | SMRD-94-GW083110 | Sn-126 | Suspended | 0.06 U | 0.82 | 0.24 | 0.39 |
| RD-94 | SMRD-94-GW083110 | Sn-126 | Total | 0.04 | NA | 0.44 | NA |
| RD-94 | SMRD-94-GW083110 | Sr-90 | Filtered | 0.04 U | 0.18 | 0.053 | 0.11 |
| RD-94 | SMRD-94-GW083110 | Sr-90 | Suspended | 0.002 U | 0.11 | 0.031 | 0.061 |
| RD-94 | SMRD-94-GW083110 | Sr-90 | Total | 0.042 | NA | 0.062 | NA |
| RD-94 | SMRD-94-GW083110 | Te-125m | Filtered | -0.6 U | 3.4 | 1 | 1.7 |
| RD-94 | SMRD-94-GW083110 | Te-125m | Suspended | 0.31 U | 1.5 | 0.44 | 0.71 |
| RD-94 | SMRD-94-GW083110 | Te-125m | Total | -0.3 SK | NA | 1.1 | NA |
| RD-94 | SMRD-94-GW083110 | Th-231 | Filtered | 0.612 | 0.007 | 0.048 | 0.006 |
| RD-94 | SMRD-94-GW083110 | Th-231 | Suspended | 0.043 | 0.029 | 0.016 | 0.008 |
| RD-94 | SMRD-94-GW083110 | Th-231 | Total | 0.655 | NA | 0.051 | NA |
| RD-94 | SMRD-94-GW083110 | Th-234 | Filtered | 16.1 | 22 | 7.4 | 11 |
| RD-94 | SMRD-94-GW083110 | Th-234 | Suspended | 6.1 | 8.5 | 2.7 | 4.2 |
| RD-94 | SMRD-94-GW083110 | Th-234 | Total | 22.2 | NA | 7.9 | NA |
| RD-94 | SMRD-94-GW083110 | Tl-208 | Filtered | 0.88 | 1.6 | 0.54 | 0.75 |
| RD-94 | SMRD-94-GW083110 | Tl-208 | Suspended | 1.09 | 0.85 | 0.33 | 0.41 |
| RD-94 | SMRD-94-GW083110 | Tl-208 | Total | 1.97 | NA | 0.63 | NA |
| RD-94 | SMRD-94-GW083110 | Tm-171 | Filtered | 190 U | 410 | 130 | 200 |
| RD-94 | SMRD-94-GW083110 | Tm-171 | Suspended | 39 U | 130 | 38 | 61 |
| RD-94 | SMRD-94-GW083110 | Tm-171 | Total | 230 | NA | 130 | NA |
| RD-94 | SMRD-94-GW083110 | U-233/234 | Filtered | 11.3 | 0.02 | 0.5 | 0.005 |
| RD-94 | SMRD-94-GW083110 | U-233/234 | Suspended | 0.801 | 0.023 | 0.069 | 0.006 |
| RD-94 | SMRD-94-GW083110 | U-233/234 | Total | 12.1 | NA | 0.5 | NA |
| RD-94 | SMRD-94-GW083110 | U-235/236 | Filtered | 0.612 | 0.007 | 0.048 | 0.006 |
| RD-94 | SMRD-94-GW083110 | U-235/236 | Suspended | 0.043 | 0.029 | 0.016 | 0.008 |
| RD-94 | SMRD-94-GW083110 | U-235/236 | Total | 0.656 | NA | 0.051 | NA |
| RD-94 | SMRD-94-GW083110 | U-238 | Filtered | 11.4 | 0.02 | 0.5 | 0.005 |
| RD-94 | SMRD-94-GW083110 | U-238 | Suspended | 0.881 | 0.012 | 0.073 | 0.006 |
| RD-94 | SMRD-94-GW083110 | U-238 | Total | 12.3 | NA | 0.51 | NA |
| RD-95 | SMRD-095-GW090210 | Ac-227 | Filtered | -0.2 U | 12 | 3.5 | 5.8 |
| RD-95 | SMRD-095-GW090210 | Ac-227 | Suspended | -0.06 U | 6 | 1.8 | 2.9 |
| RD-95 | SMRD-095-GW090210 | Ac-227 | Total | -0.2 | NA | 4 | NA |
| RD-95 | SMRD-095-GW090210 | Ac-228 | Filtered | 7.9 B | 3.4 | 1.3 | 1.5 |
| RD-95 | SMRD-095-GW090210 | Ac-228 | Suspended | 0.2 U | 2.9 | 0.73 | 1.4 |
| RD-95 | SMRD-095-GW090210 | Ac-228 | Total | 8.1 B | NA | 1.5 | NA |
| RD-95 | SMRD-095-GW090210 | Ag-108 | Filtered | -0.029 U R | 0.11 | 0.034 | 0.054 |
| RD-95 | SMRD-095-GW090210 | Ag-108 | Suspended | 0.009 U R | 0.049 | 0.015 | 0.024 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-95 | SMRD-095-GW090210 | Ag-108 | Total | -0.019 R | NA | 0.037 | NA |
| RD-95 | SMRD-095-GW090210 | Ag-108m | Filtered | -0.31 U R | 1.2 | 0.36 | 0.58 |
| RD-95 | SMRD-095-GW090210 | Ag-108m | Suspended | 0.1 U R | 0.53 | 0.16 | 0.25 |
| RD-95 | SMRD-095-GW090210 | Ag-108m | Total | -0.21 R | NA | 0.4 | NA |
| RD-95 | SMRD-095-GW090210 | Ba-133 | Filtered | 0.3 U R | 13 | 3.8 | 6.2 |
| RD-95 | SMRD-095-GW090210 | Ba-133 | Suspended | 1.4 U R | 6.3 | 1.9 | 3.1 |
| RD-95 | SMRD-095-GW090210 | Ba-133 | Total | 1.6 R | NA | 4.2 | NA |
| RD-95 | SMRD-095-GW090210 | Ba-137m | Filtered | 0.65 U | 1.5 | 0.45 | 0.69 |
| RD-95 | SMRD-095-GW090210 | Ba-137m | Suspended | 0.14 U | 0.72 | 0.21 | 0.34 |
| RD-95 | SMRD-095-GW090210 | Ba-137m | Total | 0.8 | NA | 0.49 | NA |
| RD-95 | SMRD-095-GW090210 | Bi-212 | Filtered | -1.3 U | 13 | 3.7 | 5.9 |
| RD-95 | SMRD-095-GW090210 | Bi-212 | Suspended | 1.6 U | 6.4 | 1.9 | 3.1 |
| RD-95 | SMRD-095-GW090210 | Bi-212 | Total | 0.3 | NA | 4.1 | NA |
| RD-95 | SMRD-095-GW090210 | Bi-214 | Filtered | 1.8 | 3.5 | 1.3 | 1.7 |
| RD-95 | SMRD-095-GW090210 | Bi-214 | Suspended | -0.59 U | 1.9 | 0.95 | 0.92 |
| RD-95 | SMRD-095-GW090210 | Bi-214 | Total | 1.2 | NA | 1.6 | NA |
| RD-95 | SMRD-095-GW090210 | Cd-113m | Filtered | 6500 U | 16000 | 4900 | 7800 |
| RD-95 | SMRD-095-GW090210 | Cd-113m | Suspended | -500 U | 5500 | 1600 | 2600 |
| RD-95 | SMRD-095-GW090210 | Cd-113m | Total | 6000 | NA | 5200 | NA |
| RD-95 | SMRD-095-GW090210 | Cf-249 | Filtered | 1.8 U R | 6.5 | 1.9 | 3.1 |
| RD-95 | SMRD-095-GW090210 | Cf-249 | Suspended | 0.47 U B | 2.9 | 0.86 | 1.4 |
| RD-95 | SMRD-095-GW090210 | Cf-249 | Total | 2.3 B R | NA | 2.1 | NA |
| RD-95 | SMRD-095-GW090210 | Co-60 | Filtered | 0.27 U | 1.8 | 0.51 | 0.81 |
| RD-95 | SMRD-095-GW090210 | Co-60 | Suspended | 0.34 | 0.7 | 0.21 | 0.32 |
| RD-95 | SMRD-095-GW090210 | Co-60 | Total | 0.61 | NA | 0.55 | NA |
| RD-95 | SMRD-095-GW090210 | Cs-134 | Filtered | -0.42 U | 1.6 | 0.46 | 0.73 |
| RD-95 | SMRD-095-GW090210 | Cs-134 | Suspended | -0.05 U | 0.78 | 0.23 | 0.37 |
| RD-95 | SMRD-095-GW090210 | Cs-134 | Total | -0.46 | NA | 0.52 | NA |
| RD-95 | SMRD-095-GW090210 | Cs-137 | Filtered | 0.69 U | 1.6 | 0.47 | 0.73 |
| RD-95 | SMRD-095-GW090210 | Cs-137 | Suspended | 0.15 U | 0.76 | 0.22 | 0.36 |
| RD-95 | SMRD-095-GW090210 | Cs-137 | Total | 0.84 | NA | 0.52 | NA |
| RD-95 | SMRD-095-GW090210 | Eu-152 | Filtered | -0.1 U | 4.8 | 1.4 | 2.3 |
| RD-95 | SMRD-095-GW090210 | Eu-152 | Suspended | -0.04 U | 1.4 | 0.42 | 0.69 |
| RD-95 | SMRD-095-GW090210 | Eu-152 | Total | -0.1 | NA | 1.5 | NA |
| RD-95 | SMRD-095-GW090210 | Eu-154 | Filtered | 0 U | 17 | 4.9 | 8.1 |
| RD-95 | SMRD-095-GW090210 | Eu-154 | Suspended | -0.5 U | 5.7 | 1.7 | 2.7 |
| RD-95 | SMRD-095-GW090210 | Eu-154 | Total | -0.5 | NA | 5.2 | NA |
| RD-95 | SMRD-095-GW090210 | Eu-155 | Filtered | 0.86 U | 2.8 | 0.85 | 1.4 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-95 | SMRD-095-GW090210 | Eu-155 | Suspended | 0.17 U | 1.2 | 0.37 | 0.6 |
| RD-95 | SMRD-095-GW090210 | Eu-155 | Total | 1.03 | NA | 0.93 | NA |
| RD-95 | SMRD-095-GW090210 | gross_alpha | Filtered | 15.7 | 0.7 | 1.1 | 0.4 |
| RD-95 | SMRD-095-GW090210 | gross_alpha | Suspended | 4.71 | 0.93 | 0.61 | 0.49 |
| RD-95 | SMRD-095-GW090210 | gross_alpha | Total | 20.4 | NA | 1.3 | NA |
| RD-95 | SMRD-095-GW090210 | gross_beta | Filtered | 11.5 | 2.2 | 1.2 | 1.3 |
| RD-95 | SMRD-095-GW090210 | gross_beta | Suspended | 2.36 | 0.77 | 0.34 | 0.44 |
| RD-95 | SMRD-095-GW090210 | gross_beta | Total | 13.9 | NA | 1.2 | NA |
| RD-95 | SMRD-095-GW090210 | H-3 | Filtered | 59700 | 200 | 2700 | 70 |
| RD-95 | SMRD-095-GW090210 | H-3 | Suspended | -7.6 U R | 24 | 5.9 | 11 |
| RD-95 | SMRD-095-GW090210 | H-3 | Total | 59700 R | NA | 2700 | NA |
| RD-95 | SMRD-095-GW090210 | Ho-166m | Filtered | -0.04 U | 1.8 | 0.5 | 0.82 |
| RD-95 | SMRD-095-GW090210 | Ho-166m | Suspended | -0.14 U | 1.1 | 0.33 | 0.53 |
| RD-95 | SMRD-095-GW090210 | Ho-166m | Total | -0.18 | NA | 0.6 | NA |
| RD-95 | SMRD-095-GW090210 | K-40 | Filtered | -19 U | 25 | 32 | 12 |
| RD-95 | SMRD-095-GW090210 | K-40 | Suspended | 8.1 | 12 | 3.3 | 5.6 |
| RD-95 | SMRD-095-GW090210 | K-40 | Total | -11 | NA | 32 | NA |
| RD-95 | SMRD-095-GW090210 | Na-22 | Filtered | -0.1 U | 1.9 | 0.54 | 0.88 |
| RD-95 | SMRD-095-GW090210 | Na-22 | Suspended | 0.01 U | 0.85 | 0.24 | 0.4 |
| RD-95 | SMRD-095-GW090210 | Na-22 | Total | -0.09 | NA | 0.59 | NA |
| RD-95 | SMRD-095-GW090210 | Nb-94 | Filtered | -0.03 U | 1.4 | 0.39 | 0.64 |
| RD-95 | SMRD-095-GW090210 | Nb-94 | Suspended | 0.22 U | 0.62 | 0.18 | 0.29 |
| RD-95 | SMRD-095-GW090210 | Nb-94 | Total | 0.19 | NA | 0.43 | NA |
| RD-95 | SMRD-095-GW090210 | Np-236 | Filtered | -0.28 U | 2.6 | 0.78 | 1.3 |
| RD-95 | SMRD-095-GW090210 | Np-236 | Suspended | -0.33 U | 1.3 | 0.38 | 0.63 |
| RD-95 | SMRD-095-GW090210 | Np-236 | Total | -0.62 | NA | 0.87 | NA |
| RD-95 | SMRD-095-GW090210 | Np-236a | Total | 0 R | NA | 0 | NA |
| RD-95 | SMRD-095-GW090210 | Np-239 | Filtered | -2 U | 9 | 2.7 | 4.4 |
| RD-95 | SMRD-095-GW090210 | Np-239 | Suspended | -0.1 U | 3.6 | 1.1 | 1.7 |
| RD-95 | SMRD-095-GW090210 | Np-239 | Total | -2.1 | NA | 2.9 | NA |
| RD-95 | SMRD-095-GW090210 | Pa-231 | Filtered | -1 U | 62 | 18 | 30 |
| RD-95 | SMRD-095-GW090210 | Pa-231 | Suspended | -1.8 U | 27 | 8.1 | 13 |
| RD-95 | SMRD-095-GW090210 | Pa-231 | Total | -3 | NA | 20 | NA |
| RD-95 | SMRD-095-GW090210 | Pb-212 | Filtered | 1.24 U | 2.8 | 0.94 | 1.4 |
| RD-95 | SMRD-095-GW090210 | Pb-212 | Suspended | 0.3 U | 1.3 | 0.4 | 0.61 |
| RD-95 | SMRD-095-GW090210 | Pb-212 | Total | 1.5 | NA | 1 | NA |
| RD-95 | SMRD-095-GW090210 | Pb-214 | Filtered | 2 | 3.4 | 1.2 | 1.6 |
| RD-95 | SMRD-095-GW090210 | Pb-214 | Suspended | -0.29 U | 1.6 | 0.51 | 0.78 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-95 | SMRD-095-GW090210 | Pb-214 | Total | 1.7 | NA | 1.3 | NA |
| RD-95 | SMRD-095-GW090210 | Sb-125 | Filtered | -0.4 U | 14 | 4.1 | 6.7 |
| RD-95 | SMRD-095-GW090210 | Sb-125 | Suspended | -1 U | 6.3 | 1.9 | 3.1 |
| RD-95 | SMRD-095-GW090210 | Sb-125 | Total | -1.4 | NA | 4.5 | NA |
| RD-95 | SMRD-095-GW090210 | Sn-126 | Filtered | 0.52 U | 1.5 | 0.44 | 0.69 |
| RD-95 | SMRD-095-GW090210 | Sn-126 | Suspended | 0.3 U | 0.76 | 0.23 | 0.36 |
| RD-95 | SMRD-095-GW090210 | Sn-126 | Total | 0.83 | NA | 0.5 | NA |
| RD-95 | SMRD-095-GW090210 | Sr-90 | Filtered | 0.003 U | 0.14 | 0.04 | 0.078 |
| RD-95 | SMRD-095-GW090210 | Sr-90 | Suspended | 0.06 | 0.095 | 0.03 | 0.054 |
| RD-95 | SMRD-095-GW090210 | Sr-90 | Total | 0.064 | NA | 0.05 | NA |
| RD-95 | SMRD-095-GW090210 | Te-125m | Filtered | -0.09 U | 3.2 | 0.94 | 1.5 |
| RD-95 | SMRD-095-GW090210 | Te-125m | Suspended | -0.23 U | 1.5 | 0.43 | 0.71 |
| RD-95 | SMRD-095-GW090210 | Te-125m | Total | -0.3 | NA | 1 | NA |
| RD-95 | SMRD-095-GW090210 | Th-231 | Filtered | 0.431 | 0.008 | 0.04 | 0.007 |
| RD-95 | SMRD-095-GW090210 | Th-231 | Suspended | 0.0308 | 0.0076 | 0.0094 | 0.0065 |
| RD-95 | SMRD-095-GW090210 | Th-231 | Total | 0.461 | NA | 0.041 | NA |
| RD-95 | SMRD-095-GW090210 | Th-234 | Filtered | 11 | 22 | 6.7 | 11 |
| RD-95 | SMRD-095-GW090210 | Th-234 | Suspended | 8.5 | 8.5 | 2.8 | 4.1 |
| RD-95 | SMRD-095-GW090210 | Th-234 | Total | 19.5 | NA | 7.2 | NA |
| RD-95 | SMRD-095-GW090210 | Tl-208 | Filtered | 1.12 | 1.6 | 0.52 | 0.76 |
| RD-95 | SMRD-095-GW090210 | Tl-208 | Suspended | -0.04 U | 0.96 | 0.28 | 0.46 |
| RD-95 | SMRD-095-GW090210 | Tl-208 | Total | 1.08 | NA | 0.59 | NA |
| RD-95 | SMRD-095-GW090210 | Tm-171 | Filtered | 120 U | 360 | 110 | 180 |
| RD-95 | SMRD-095-GW090210 | Tm-171 | Suspended | -49 U | 120 | 37 | 59 |
| RD-95 | SMRD-095-GW090210 | Tm-171 | Total | 70 | NA | 120 | NA |
| RD-95 | SMRD-095-GW090210 | U-233/234 | Filtered | 9.45 | 0.02 | 0.42 | 0.008 |
| RD-95 | SMRD-095-GW090210 | U-233/234 | Suspended | 0.439 | 0.017 | 0.037 | 0.005 |
| RD-95 | SMRD-095-GW090210 | U-233/234 | Total | 9.89 | NA | 0.43 | NA |
| RD-95 | SMRD-095-GW090210 | U-235/236 | Filtered | 0.431 | 0.008 | 0.04 | 0.007 |
| RD-95 | SMRD-095-GW090210 | U-235/236 | Suspended | 0.0308 | 0.0076 | 0.0094 | 0.0065 |
| RD-95 | SMRD-095-GW090210 | U-235/236 | Total | 0.461 | NA | 0.041 | NA |
| RD-95 | SMRD-095-GW090210 | U-238 | Filtered | 8.43 | 0.02 | 0.38 | 0.008 |
| RD-95 | SMRD-095-GW090210 | U-238 | Suspended | 0.425 | 0.029 | 0.037 | 0.012 |
| RD-95 | SMRD-095-GW090210 | U-238 | Total | 8.85 | NA | 0.38 | NA |
| RD-96 | SMRD-96-GW081910 | Ac-227 | Filtered | 0.05 U | 9.7 | 2.9 | 4.7 |
| RD-96 | SMRD-96-GW081910 | Ac-227 | Suspended | -0.2 U | 6.4 | 1.9 | 3.1 |
| RD-96 | SMRD-96-GW081910 | Ac-227 | Total | -0.1 | NA | 3.4 | NA |
| RD-96 | SMRD-96-GW081910 | Ac-228 | Filtered | 3.4 | 5.1 | 1.6 | 2.4 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|-------|----------------|
| RD-96 | SMRD-96-GW081910 | Ac-228 | Suspended | 2.16 | 2.6 | 0.82 | 1.2 |
| RD-96 | SMRD-96-GW081910 | Ac-228 | Total | 5.5 | NA | 1.8 | NA |
| RD-96 | SMRD-96-GW081910 | Ag-108 | Filtered | -0.019 U R | 0.12 | 0.035 | 0.057 |
| RD-96 | SMRD-96-GW081910 | Ag-108 | Suspended | -0.0001 U R | 0.052 | 0.015 | 0.025 |
| RD-96 | SMRD-96-GW081910 | Ag-108 | Total | -0.019 R | NA | 0.038 | NA |
| RD-96 | SMRD-96-GW081910 | Ag-108m | Filtered | -0.2 U R | 1.3 | 0.38 | 0.61 |
| RD-96 | SMRD-96-GW081910 | Ag-108m | Suspended | -0.002 U R | 0.56 | 0.16 | 0.27 |
| RD-96 | SMRD-96-GW081910 | Ag-108m | Total | -0.2 R | NA | 0.41 | NA |
| RD-96 | SMRD-96-GW081910 | Ba-133 | Filtered | -1.1 U R | 14 | 4 | 6.6 |
| RD-96 | SMRD-96-GW081910 | Ba-133 | Suspended | 0.3 U R | 5.5 | 1.6 | 2.7 |
| RD-96 | SMRD-96-GW081910 | Ba-133 | Total | -0.7 R | NA | 4.3 | NA |
| RD-96 | SMRD-96-GW081910 | Ba-137m | Filtered | 0 U | 1.5 | 0.42 | 0.7 |
| RD-96 | SMRD-96-GW081910 | Ba-137m | Suspended | 0.13 U | 0.7 | 0.21 | 0.33 |
| RD-96 | SMRD-96-GW081910 | Ba-137m | Total | 0.13 | NA | 0.47 | NA |
| RD-96 | SMRD-96-GW081910 | Bi-212 | Filtered | 2.2 U | 12 | 3.4 | 5.5 |
| RD-96 | SMRD-96-GW081910 | Bi-212 | Suspended | 3.9 | 5.6 | 1.7 | 2.7 |
| RD-96 | SMRD-96-GW081910 | Bi-212 | Total | 6.1 | NA | 3.9 | NA |
| RD-96 | SMRD-96-GW081910 | Bi-214 | Filtered | -0.8 U | 3.8 | 1.3 | 1.8 |
| RD-96 | SMRD-96-GW081910 | Bi-214 | Suspended | 1.4 | 1.9 | 0.8 | 0.91 |
| RD-96 | SMRD-96-GW081910 | Bi-214 | Total | 0.6 | NA | 1.6 | NA |
| RD-96 | SMRD-96-GW081910 | Cd-113m | Filtered | -300 U | 16000 | 4500 | 7400 |
| RD-96 | SMRD-96-GW081910 | Cd-113m | Suspended | 2400 U | 7100 | 2100 | 3400 |
| RD-96 | SMRD-96-GW081910 | Cd-113m | Total | 2100 | NA | 5000 | NA |
| RD-96 | SMRD-96-GW081910 | Cf-249 | Filtered | -0.8 U R | 6.8 | 2 | 3.2 |
| RD-96 | SMRD-96-GW081910 | Cf-249 | Suspended | 0.62 U R | 2.8 | 0.83 | 1.3 |
| RD-96 | SMRD-96-GW081910 | Cf-249 | Total | -0.1 R | NA | 2.1 | NA |
| RD-96 | SMRD-96-GW081910 | Co-60 | Filtered | -0.001 U | 1.8 | 0.51 | 0.83 |
| RD-96 | SMRD-96-GW081910 | Co-60 | Suspended | 0.13 U | 0.74 | 0.21 | 0.34 |
| RD-96 | SMRD-96-GW081910 | Co-60 | Total | 0.13 | NA | 0.55 | NA |
| RD-96 | SMRD-96-GW081910 | Cs-134 | Filtered | 0.32 U | 1.4 | 0.42 | 0.66 |
| RD-96 | SMRD-96-GW081910 | Cs-134 | Suspended | -0.14 U | 0.95 | 0.28 | 0.46 |
| RD-96 | SMRD-96-GW081910 | Cs-134 | Total | 0.18 | NA | 0.5 | NA |
| RD-96 | SMRD-96-GW081910 | Cs-137 | Filtered | 0 U | 1.6 | 0.45 | 0.74 |
| RD-96 | SMRD-96-GW081910 | Cs-137 | Suspended | 0.13 U | 0.74 | 0.22 | 0.35 |
| RD-96 | SMRD-96-GW081910 | Cs-137 | Total | 0.13 | NA | 0.5 | NA |
| RD-96 | SMRD-96-GW081910 | Eu-152 | Filtered | 0.08 U | 3.7 | 1.1 | 1.8 |
| RD-96 | SMRD-96-GW081910 | Eu-152 | Suspended | 0.11 U | 1.8 | 0.52 | 0.86 |
| RD-96 | SMRD-96-GW081910 | Eu-152 | Total | 0.2 | NA | 1.2 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-96 | SMRD-96-GW081910 | Eu-154 | Filtered | -0.3 U | 8.9 | 2.4 | 3.9 |
| RD-96 | SMRD-96-GW081910 | Eu-154 | Suspended | -0.04 U | 5 | 1.4 | 2.3 |
| RD-96 | SMRD-96-GW081910 | Eu-154 | Total | -0.3 | NA | 2.8 | NA |
| RD-96 | SMRD-96-GW081910 | Eu-155 | Filtered | 0.334 U | 3.4 | 0.997 | 1.6 |
| RD-96 | SMRD-96-GW081910 | Eu-155 | Suspended | 0.31 U | 1.2 | 0.37 | 0.6 |
| RD-96 | SMRD-96-GW081910 | Eu-155 | Total | 0.6 | NA | 1.1 | NA |
| RD-96 | SMRD-96-GW081910 | gross_alpha | Filtered | 11.7 | 0.53 | 0.83 | 0.27 |
| RD-96 | SMRD-96-GW081910 | gross_alpha | Suspended | 8.63 | 0.59 | 0.7 | 0.31 |
| RD-96 | SMRD-96-GW081910 | gross_alpha | Total | 20.3 | NA | 1.1 | NA |
| RD-96 | SMRD-96-GW081910 | gross_beta | Filtered | 13.4 | 2.1 | 1.2 | 1.2 |
| RD-96 | SMRD-96-GW081910 | gross_beta | Suspended | 7.28 | 0.79 | 0.54 | 0.45 |
| RD-96 | SMRD-96-GW081910 | gross_beta | Total | 20.7 | NA | 1.3 | NA |
| RD-96 | SMRD-96-GW081910 | H-3 | Filtered | 43 U | 130 | 40 | 66 |
| RD-96 | SMRD-96-GW081910 | H-3 | Suspended | 2.3 U | 12 | 3.5 | 5.3 |
| RD-96 | SMRD-96-GW081910 | H-3 | Total | 45 | NA | 41 | NA |
| RD-96 | SMRD-96-GW081910 | Ho-166m | Filtered | -0.23 U | 2.5 | 0.72 | 1.2 |
| RD-96 | SMRD-96-GW081910 | Ho-166m | Suspended | 0.23 U | 1.1 | 0.32 | 0.51 |
| RD-96 | SMRD-96-GW081910 | Ho-166m | Total | 0.006 | NA | 0.79 | NA |
| RD-96 | SMRD-96-GW081910 | K-40 | Filtered | -5.2 U | 23 | 7.8 | 10 |
| RD-96 | SMRD-96-GW081910 | K-40 | Suspended | 6.4 | 9.7 | 3 | 4.6 |
| RD-96 | SMRD-96-GW081910 | K-40 | Total | 1.2 | NA | 8.4 | NA |
| RD-96 | SMRD-96-GW081910 | Na-22 | Filtered | -0.01 U | 1.6 | 0.44 | 0.72 |
| RD-96 | SMRD-96-GW081910 | Na-22 | Suspended | 0.28 U | 0.83 | 0.25 | 0.39 |
| RD-96 | SMRD-96-GW081910 | Na-22 | Total | 0.27 | NA | 0.5 | NA |
| RD-96 | SMRD-96-GW081910 | Nb-94 | Filtered | 0.45 U | 1.2 | 0.35 | 0.54 |
| RD-96 | SMRD-96-GW081910 | Nb-94 | Suspended | 0.15 U | 0.7 | 0.21 | 0.33 |
| RD-96 | SMRD-96-GW081910 | Nb-94 | Total | 0.61 | NA | 0.41 | NA |
| RD-96 | SMRD-96-GW081910 | Np-236 | Filtered | 0.72 U | 2.8 | 0.84 | 1.4 |
| RD-96 | SMRD-96-GW081910 | Np-236 | Suspended | 0.02 U | 1.2 | 0.35 | 0.57 |
| RD-96 | SMRD-96-GW081910 | Np-236 | Total | 0.75 | NA | 0.91 | NA |
| RD-96 | SMRD-96-GW081910 | Np-239 | Filtered | 1.3 U | 8.8 | 2.6 | 4.2 |
| RD-96 | SMRD-96-GW081910 | Np-239 | Suspended | -0.8 U | 4 | 1.2 | 1.9 |
| RD-96 | SMRD-96-GW081910 | Np-239 | Total | 0.5 | NA | 2.9 | NA |
| RD-96 | SMRD-96-GW081910 | Pa-231 | Filtered | 3 U | 52 | 15 | 25 |
| RD-96 | SMRD-96-GW081910 | Pa-231 | Suspended | 0.4 U | 29 | 8.5 | 14 |
| RD-96 | SMRD-96-GW081910 | Pa-231 | Total | 3 | NA | 17 | NA |
| RD-96 | SMRD-96-GW081910 | Pb-212 | Filtered | 0.47 U | 2.9 | 0.92 | 1.4 |
| RD-96 | SMRD-96-GW081910 | Pb-212 | Suspended | 1.63 | 1.2 | 0.39 | 0.57 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-96 | SMRD-96-GW081910 | Pb-212 | Total | 2.1 | NA | 0.99 | NA |
| RD-96 | SMRD-96-GW081910 | Pb-214 | Filtered | 2.9 | 3 | 1 | 1.4 |
| RD-96 | SMRD-96-GW081910 | Pb-214 | Suspended | 2.16 | 1.5 | 0.5 | 0.75 |
| RD-96 | SMRD-96-GW081910 | Pb-214 | Total | 5 | NA | 1.1 | NA |
| RD-96 | SMRD-96-GW081910 | Sb-125 | Filtered | 2.4 U | 14 | 4.2 | 6.8 |
| RD-96 | SMRD-96-GW081910 | Sb-125 | Suspended | 0.7 U | 6.1 | 1.8 | 2.9 |
| RD-96 | SMRD-96-GW081910 | Sb-125 | Total | 3 | NA | 4.5 | NA |
| RD-96 | SMRD-96-GW081910 | Sn-126 | Filtered | 0.93 | 1.4 | 0.44 | 0.65 |
| RD-96 | SMRD-96-GW081910 | Sn-126 | Suspended | 0.26 U | 0.78 | 0.23 | 0.37 |
| RD-96 | SMRD-96-GW081910 | Sn-126 | Total | 1.19 | NA | 0.5 | NA |
| RD-96 | SMRD-96-GW081910 | Sr-90 | Suspended | 0.082 | 0.069 | 0.023 | 0.039 |
| RD-96 | SMRD-96-GW081910 | Sr-90 | Total | 0.27 | NA | 0.076 | NA |
| RD-96 | SMRD-96-GW081910 | Te-125m | Filtered | 0.54 U | 3.3 | 0.96 | 1.6 |
| RD-96 | SMRD-96-GW081910 | Te-125m | Suspended | 0.15 U | 1.4 | 0.42 | 0.68 |
| RD-96 | SMRD-96-GW081910 | Te-125m | Total | 0.7 | NA | 1 | NA |
| RD-96 | SMRD-96-GW081910 | Th-231 | Filtered | 0.225 | 0.016 | 0.038 | 0.009 |
| RD-96 | SMRD-96-GW081910 | Th-231 | Suspended | 0.0056 U | 0.015 | 0.0056 | 0.008 |
| RD-96 | SMRD-96-GW081910 | Th-231 | Total | 0.231 | NA | 0.039 | NA |
| RD-96 | SMRD-96-GW081910 | Th-234 | Filtered | 16.2 | 22 | 7.1 | 10 |
| RD-96 | SMRD-96-GW081910 | Th-234 | Suspended | 2.3 U | 7.2 | 2.3 | 3.5 |
| RD-96 | SMRD-96-GW081910 | Th-234 | Total | 18.5 | NA | 7.5 | NA |
| RD-96 | SMRD-96-GW081910 | Tl-208 | Filtered | -0.7 U | 1.8 | 1.3 | 0.9 |
| RD-96 | SMRD-96-GW081910 | Tl-208 | Suspended | 0.78 | 0.85 | 0.35 | 0.41 |
| RD-96 | SMRD-96-GW081910 | Tl-208 | Total | 0.1 | NA | 1.3 | NA |
| RD-96 | SMRD-96-GW081910 | Tm-171 | Filtered | 9 U | 330 | 98 | 160 |
| RD-96 | SMRD-96-GW081910 | Tm-171 | Suspended | -2 U | 120 | 36 | 60 |
| RD-96 | SMRD-96-GW081910 | Tm-171 | Total | 7 | NA | 100 | NA |
| RD-96 | SMRD-96-GW081910 | U-233/234 | Filtered | 3.89 | 0.06 | 0.21 | 0.03 |
| RD-96 | SMRD-96-GW081910 | U-233/234 | Suspended | 0.396 | 0.012 | 0.046 | 0.006 |
| RD-96 | SMRD-96-GW081910 | U-233/234 | Total | 4.28 | NA | 0.22 | NA |
| RD-96 | SMRD-96-GW081910 | U-235/236 | Filtered | 0.225 | 0.016 | 0.038 | 0.009 |
| RD-96 | SMRD-96-GW081910 | U-235/236 | Suspended | 0.0056 U | 0.015 | 0.0056 | 0.008 |
| RD-96 | SMRD-96-GW081910 | U-235/236 | Total | 0.231 | NA | 0.039 | NA |
| RD-96 | SMRD-96-GW081910 | U-238 | Filtered | 3.83 | 0.03 | 0.21 | 0.01 |
| RD-96 | SMRD-96-GW081910 | U-238 | Suspended | 0.249 | 0.012 | 0.036 | 0.006 |
| RD-96 | SMRD-96-GW081910 | U-238 | Total | 4.08 | NA | 0.21 | NA |
| RD-98 | SMRD-098-GW090210 | Ac-227 | Filtered | -9.1 L U | 11 | 3.5 | 5.6 |
| RD-98 | SMRD-098-GW090210 | Ac-227 | Suspended | -1.4 U | 2.8 | 0.85 | 1.3 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-98 | SMRD-098-GW090210 | Ac-227 | Total | -7 | NA | 3.5 | NA |
| RD-98 | SMRD-098-GW090210 | Ac-228 | Filtered | 3.2 | 4.1 | 1.3 | 1.9 |
| RD-98 | SMRD-098-GW090210 | Ac-228 | Suspended | 1.58 | 1.8 | 0.58 | 0.84 |
| RD-98 | SMRD-098-GW090210 | Ac-228 | Total | 4.8 | NA | 1.4 | NA |
| RD-98 | SMRD-098-GW090210 | Ag-108 | Filtered | 0.005 U R | 0.093 | 0.027 | 0.045 |
| RD-98 | SMRD-098-GW090210 | Ag-108 | Suspended | 0.0003 U R | 0.032 | 0.0091 | 0.015 |
| RD-98 | SMRD-098-GW090210 | Ag-108 | Total | 0.02 R | NA | 0.32 | NA |
| RD-98 | SMRD-098-GW090210 | Ag-108m | Filtered | 0.05 U R | 1 | 0.29 | 0.48 |
| RD-98 | SMRD-098-GW090210 | Ag-108m | Suspended | 0.003 U R | 0.34 | 0.098 | 0.16 |
| RD-98 | SMRD-098-GW090210 | Ag-108m | Total | 0.03 R | NA | 0.33 | NA |
| RD-98 | SMRD-098-GW090210 | Am-241 | Filtered | 0.023 | 0.033 | 0.013 | 0.011 |
| RD-98 | SMRD-098-GW090210 | Am-241 | Suspended | 0.019 | 0.033 | 0.011 | 0.012 |
| RD-98 | SMRD-098-GW090210 | Am-241 | Total | 0.042 | NA | 0.017 | NA |
| RD-98 | SMRD-098-GW090210 | Ba-133 | Filtered | 2.9 U R | 13 | 3.9 | 6.3 |
| RD-98 | SMRD-098-GW090210 | Ba-133 | Suspended | -1 U R | 4.1 | 1.2 | 2 |
| RD-98 | SMRD-098-GW090210 | Ba-133 | Total | 2 R | NA | 4 | NA |
| RD-98 | SMRD-098-GW090210 | Ba-137m | Filtered | -0.25 U | 1.2 | 0.37 | 0.59 |
| RD-98 | SMRD-098-GW090210 | Ba-137m | Suspended | -0.02 U | 0.48 | 0.14 | 0.22 |
| RD-98 | SMRD-098-GW090210 | Ba-137m | Total | -0.28 | NA | 0.42 | NA |
| RD-98 | SMRD-098-GW090210 | Bi-212 | Filtered | 5.7 | 9.3 | 2.9 | 4.4 |
| RD-98 | SMRD-098-GW090210 | Bi-212 | Suspended | 0.05 U | 4 | 1.1 | 1.9 |
| RD-98 | SMRD-098-GW090210 | Bi-212 | Total | 5.6 | NA | 3.1 | NA |
| RD-98 | SMRD-098-GW090210 | Bi-214 | Filtered | 6.1 | 3 | 1.2 | 1.4 |
| RD-98 | SMRD-098-GW090210 | Bi-214 | Suspended | 0.26 U | 1.2 | 0.42 | 0.57 |
| RD-98 | SMRD-098-GW090210 | Bi-214 | Total | 5 | NA | 1.5 | NA |
| RD-98 | SMRD-098-GW090210 | C-14 | Filtered | 1.11 | 2.2 | 0.69 | 1.1 |
| RD-98 | SMRD-098-GW090210 | C-14 | Suspended | -0.24 U R | 2.1 | 0.64 | 1.1 |
| RD-98 | SMRD-098-GW090210 | C-14 | Total | 0.87 R | NA | 0.94 | NA |
| RD-98 | SMRD-098-GW090210 | Cd-113m | Filtered | 900 U | 15000 | 4500 | 7500 |
| RD-98 | SMRD-098-GW090210 | Cd-113m | Suspended | 1100 U | 4600 | 1400 | 2200 |
| RD-98 | SMRD-098-GW090210 | Cd-113m | Total | 2000 | NA | 4700 | NA |
| RD-98 | SMRD-098-GW090210 | Cf-249 | Filtered | -1.9 U R | 6.6 | 2 | 3.2 |
| RD-98 | SMRD-098-GW090210 | Cf-249 | Suspended | -0.03 U R | 2 | 0.57 | 0.94 |
| RD-98 | SMRD-098-GW090210 | Cf-249 | Total | -2 R | NA | 2.1 | NA |
| RD-98 | SMRD-098-GW090210 | Cm-243/244 | Filtered | 0.0013 U | 0.032 | 0.006 | 0.011 |
| RD-98 | SMRD-098-GW090210 | Cm-243/244 | Suspended | -0.035 U | 0.1 | 0.024 | 0.054 |
| RD-98 | SMRD-098-GW090210 | Cm-243/244 | Total | -0.034 | NA | 0.025 | NA |
| RD-98 | SMRD-098-GW090210 | Cm-245/246 | Filtered | 0.0172 | 0.0077 | 0.007 | 0.0058 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-98 | SMRD-098-GW090210 | Cm-245/246 | Suspended | 0.0228 | 0.027 | 0.0099 | 0.011 |
| RD-98 | SMRD-098-GW090210 | Cm-245/246 | Total | 0.04 | NA | 0.012 | NA |
| RD-98 | SMRD-098-GW090210 | Co-60 | Filtered | 0 U | 0.9 | 0.25 | 0.41 |
| RD-98 | SMRD-098-GW090210 | Co-60 | Suspended | -0.01 U | 0.64 | 0.18 | 0.29 |
| RD-98 | SMRD-098-GW090210 | Co-60 | Total | -0.06 | NA | 0.43 | NA |
| RD-98 | SMRD-098-GW090210 | Cs-134 | Filtered | -0.18 U | 1.2 | 0.36 | 0.58 |
| RD-98 | SMRD-098-GW090210 | Cs-134 | Suspended | -0.23 U | 0.59 | 0.18 | 0.28 |
| RD-98 | SMRD-098-GW090210 | Cs-134 | Total | -0.21 | NA | 0.43 | NA |
| RD-98 | SMRD-098-GW090210 | Cs-137 | Filtered | -0.26 U | 1.3 | 0.39 | 0.63 |
| RD-98 | SMRD-098-GW090210 | Cs-137 | Suspended | -0.02 U | 0.51 | 0.14 | 0.24 |
| RD-98 | SMRD-098-GW090210 | Cs-137 | Total | -0.3 | NA | 0.44 | NA |
| RD-98 | SMRD-098-GW090210 | Eu-152 | Filtered | -0.4 U | 3.9 | 1.2 | 1.9 |
| RD-98 | SMRD-098-GW090210 | Eu-152 | Suspended | 0.27 U | 1.1 | 0.33 | 0.52 |
| RD-98 | SMRD-098-GW090210 | Eu-152 | Total | -0.07 | NA | 1.2 | NA |
| RD-98 | SMRD-098-GW090210 | Eu-154 | Filtered | 0.3 U | 10 | 3 | 4.9 |
| RD-98 | SMRD-098-GW090210 | Eu-154 | Suspended | -0.2 U | 4 | 1.1 | 1.8 |
| RD-98 | SMRD-098-GW090210 | Eu-154 | Total | 0.2 | NA | 3 | NA |
| RD-98 | SMRD-098-GW090210 | Eu-155 | Filtered | 0.34 U | 3 | 0.89 | 1.5 |
| RD-98 | SMRD-098-GW090210 | Eu-155 | Suspended | 0.07 U | 0.72 | 0.21 | 0.35 |
| RD-98 | SMRD-098-GW090210 | Eu-155 | Total | 0.39 | NA | 0.91 | NA |
| RD-98 | SMRD-098-GW090210 | gross_alpha | Filtered | 4.28 | 0.44 | 0.45 | 0.23 |
| RD-98 | SMRD-098-GW090210 | gross_alpha | Suspended | 7.65 | 0.64 | 0.71 | 0.35 |
| RD-98 | SMRD-098-GW090210 | gross_alpha | Total | 12.7 | NA | 0.88 | NA |
| RD-98 | SMRD-098-GW090210 | gross_beta | Filtered | 14.7 | 2.8 | 1.4 | 1.6 |
| RD-98 | SMRD-098-GW090210 | gross_beta | Suspended | 2.76 | 0.81 | 0.36 | 0.48 |
| RD-98 | SMRD-098-GW090210 | gross_beta | Total | 17.5 | NA | 1.4 | NA |
| RD-98 | SMRD-098-GW090210 | H-3 | Filtered | -90 L U | 140 | 40 | 70 |
| RD-98 | SMRD-098-GW090210 | H-3 | Suspended | 13.2 R | 19 | 6 | 9 |
| RD-98 | SMRD-098-GW090210 | H-3 | Total | -76 R | NA | 41 | NA |
| RD-98 | SMRD-098-GW090210 | Ho-166m | Filtered | -0.19 U | 2.1 | 0.63 | 1 |
| RD-98 | SMRD-098-GW090210 | Ho-166m | Suspended | -0.009 U | 0.74 | 0.21 | 0.34 |
| RD-98 | SMRD-098-GW090210 | Ho-166m | Total | -0.22 | NA | 0.67 | NA |
| RD-98 | SMRD-098-GW090210 | I-129 | Filtered | 0.29 | 0.44 | 0.14 | 0.22 |
| RD-98 | SMRD-098-GW090210 | I-129 | Suspended | 0.03 U | 0.46 | 0.14 | 0.23 |
| RD-98 | SMRD-098-GW090210 | I-129 | Total | 0.33 | NA | 0.19 | NA |
| RD-98 | SMRD-098-GW090210 | K-40 | Filtered | 47.2 | 18 | 7.2 | 8.4 |
| RD-98 | SMRD-098-GW090210 | K-40 | Suspended | -2.3 U | 8.8 | 2.8 | 4.1 |
| RD-98 | SMRD-098-GW090210 | K-40 | Total | 8.5 | NA | 7.6 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-98 | SMRD-098-GW090210 | Na-22 | Filtered | -0.13 U | 1.4 | 0.39 | 0.64 |
| RD-98 | SMRD-098-GW090210 | Na-22 | Suspended | 0.05 U | 0.6 | 0.17 | 0.27 |
| RD-98 | SMRD-098-GW090210 | Na-22 | Total | -0.05 | NA | 0.42 | NA |
| RD-98 | SMRD-098-GW090210 | Nb-94 | Filtered | -0.03 U | 0.93 | 0.27 | 0.44 |
| RD-98 | SMRD-098-GW090210 | Nb-94 | Suspended | -0.09 U | 0.45 | 0.13 | 0.21 |
| RD-98 | SMRD-098-GW090210 | Nb-94 | Total | 0.09 | NA | 0.34 | NA |
| RD-98 | SMRD-098-GW090210 | Np-236 | Filtered | 0.25 U | 2.9 | 0.87 | 1.4 |
| RD-98 | SMRD-098-GW090210 | Np-236 | Suspended | -0.007 U | 0.62 | 0.18 | 0.3 |
| RD-98 | SMRD-098-GW090210 | Np-236 | Total | 0.33 | NA | 0.86 | NA |
| RD-98 | SMRD-098-GW090210 | Np-237 | Suspended | 0 U | 0.0098 | 0.0018 | 0.006 |
| RD-98 | SMRD-098-GW090210 | Np-237 | Total | 0.0041 | NA | 0.0072 | NA |
| RD-98 | SMRD-098-GW090210 | Np-239 | Filtered | -0.2 U | 8.2 | 2.4 | 4 |
| RD-98 | SMRD-098-GW090210 | Np-239 | Suspended | -0.59 U | 1.9 | 0.58 | 0.92 |
| RD-98 | SMRD-098-GW090210 | Np-239 | Total | -0.7 | NA | 2.5 | NA |
| RD-98 | SMRD-098-GW090210 | Pa-231 | Filtered | -0.4 U | 58 | 17 | 28 |
| RD-98 | SMRD-098-GW090210 | Pa-231 | Suspended | 0.9 U | 20 | 5.7 | 9.4 |
| RD-98 | SMRD-098-GW090210 | Pa-231 | Total | 1 | NA | 18 | NA |
| RD-98 | SMRD-098-GW090210 | Pb-212 | Filtered | 5.4 | 3.1 | 1.5 | 1.5 |
| RD-98 | SMRD-098-GW090210 | Pb-212 | Suspended | 0.24 U | 0.7 | 0.23 | 0.34 |
| RD-98 | SMRD-098-GW090210 | Pb-212 | Total | 4.7 | NA | 1.6 | NA |
| RD-98 | SMRD-098-GW090210 | Pb-214 | Filtered | 3.59 | 2.7 | 0.86 | 1.3 |
| RD-98 | SMRD-098-GW090210 | Pb-214 | Suspended | 0.79 | 0.81 | 0.26 | 0.38 |
| RD-98 | SMRD-098-GW090210 | Pb-214 | Total | 4.38 | NA | 0.88 | NA |
| RD-98 | SMRD-098-GW090210 | Pu-238 | Filtered | 0.001 U | 0.054 | 0.012 | 0.024 |
| RD-98 | SMRD-098-GW090210 | Pu-238 | Suspended | 0.013 U | 0.04 | 0.011 | 0.016 |
| RD-98 | SMRD-098-GW090210 | Pu-238 | Total | 0.014 | NA | 0.017 | NA |
| RD-98 | SMRD-098-GW090210 | Pu-239/240 | Filtered | 0.0099 U | 0.036 | 0.0098 | 0.013 |
| RD-98 | SMRD-098-GW090210 | Pu-239/240 | Suspended | -0.004 U | 0.037 | 0.006 | 0.015 |
| RD-98 | SMRD-098-GW090210 | Pu-239/240 | Total | 0.006 | NA | 0.011 | NA |
| RD-98 | SMRD-098-GW090210 | Pu-242 | Filtered | 0.0139 | 0.027 | 0.0094 | 0.0075 |
| RD-98 | SMRD-098-GW090210 | Pu-242 | Suspended | 0.0058 U | 0.028 | 0.007 | 0.0093 |
| RD-98 | SMRD-098-GW090210 | Pu-242 | Total | 0.02 | NA | 0.012 | NA |
| RD-98 | SMRD-098-GW090210 | Ra-226 | Filtered | 0.337 | 0.13 | 0.071 | 0.065 |
| RD-98 | SMRD-098-GW090210 | Ra-226 | Suspended | 0.22 | 0.091 | 0.045 | 0.047 |
| RD-98 | SMRD-098-GW090210 | Ra-226 | Total | 0.556 | NA | 0.084 | NA |
| RD-98 | SMRD-098-GW090210 | Sb-125 | Filtered | 0.07 U | 14 | 4.2 | 6.9 |
| RD-98 | SMRD-098-GW090210 | Sb-125 | Suspended | -0.03 U | 3.3 | 0.97 | 1.6 |
| RD-98 | SMRD-098-GW090210 | Sb-125 | Total | -0.1 | NA | 4.3 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-98 | SMRD-098-GW090210 | Sn-126 | Filtered | -0.002 U | 1.3 | 0.38 | 0.62 |
| RD-98 | SMRD-098-GW090210 | Sn-126 | Suspended | 0.22 U | 0.57 | 0.17 | 0.27 |
| RD-98 | SMRD-098-GW090210 | Sn-126 | Total | 0.27 | NA | 0.4 | NA |
| RD-98 | SMRD-098-GW090210 | Sr-90 | Filtered | 7 | 0.23 | 0.36 | 0.14 |
| RD-98 | SMRD-098-GW090210 | Sr-90 | Suspended | 0.167 | 0.15 | 0.05 | 0.087 |
| RD-98 | SMRD-098-GW090210 | Sr-90 | Total | 7.17 | NA | 0.36 | NA |
| RD-98 | SMRD-098-GW090210 | Tc-99 | Filtered | -0.01 U | 1.7 | 0.5 | 0.82 |
| RD-98 | SMRD-098-GW090210 | Tc-99 | Suspended | 0.004 U | 1.3 | 0.38 | 0.63 |
| RD-98 | SMRD-098-GW090210 | Tc-99 | Total | -0.009 | NA | 0.63 | NA |
| RD-98 | SMRD-098-GW090210 | Te-125m | Filtered | 0.02 U | 3.3 | 0.97 | 1.6 |
| RD-98 | SMRD-098-GW090210 | Te-125m | Suspended | -0.008 U | 0.77 | 0.22 | 0.37 |
| RD-98 | SMRD-098-GW090210 | Te-125m | Total | -0.1 | NA | 4.1 | NA |
| RD-98 | SMRD-098-GW090210 | Th-231 | Filtered | 0.098 | 0.019 | 0.027 | 0.01 |
| RD-98 | SMRD-098-GW090210 | Th-231 | Suspended | 0.0066 | 0.018 | 0.0094 | 0 |
| RD-98 | SMRD-098-GW090210 | Th-231 | Total | 0.105 | NA | 0.028 | NA |
| RD-98 | SMRD-098-GW090210 | Th-234 | Filtered | -3 U | 26 | 11 | 13 |
| RD-98 | SMRD-098-GW090210 | Th-234 | Suspended | -3 U | 5.5 | 2.3 | 2.7 |
| RD-98 | SMRD-098-GW090210 | Th-234 | Total | 19.5 | NA | 9.9 | NA |
| RD-98 | SMRD-098-GW090210 | Tl-208 | Filtered | 0.04 U | 1.4 | 0.35 | 0.68 |
| RD-98 | SMRD-098-GW090210 | Tl-208 | Suspended | -0.5 U | 0.7 | 7.5 | 0.3 |
| RD-98 | SMRD-098-GW090210 | Tl-208 | Total | -0.8 | NA | 7.5 | NA |
| RD-98 | SMRD-098-GW090210 | Tm-171 | Filtered | 0.04 U | 410 | 120 | 200 |
| RD-98 | SMRD-098-GW090210 | Tm-171 | Suspended | 12 U | 66 | 20 | 32 |
| RD-98 | SMRD-098-GW090210 | Tm-171 | Total | -2 | NA | 120 | NA |
| RD-98 | SMRD-098-GW090210 | U-233/234 | Filtered | 2.18 | 0.03 | 0.14 | 0.008 |
| RD-98 | SMRD-098-GW090210 | U-233/234 | Suspended | 0.141 | 0.032 | 0.031 | 0.009 |
| RD-98 | SMRD-098-GW090210 | U-233/234 | Total | 2.32 | NA | 0.15 | NA |
| RD-98 | SMRD-098-GW090210 | U-235/236 | Filtered | 0.098 | 0.019 | 0.027 | 0.01 |
| RD-98 | SMRD-098-GW090210 | U-235/236 | Suspended | 0.0066 | 0.018 | 0.0094 | 0 |
| RD-98 | SMRD-098-GW090210 | U-235/236 | Total | 0.105 | NA | 0.028 | NA |
| RD-98 | SMRD-098-GW090210 | U-238 | Filtered | 1.52 | 0.04 | 0.11 | 0.01 |
| RD-98 | SMRD-098-GW090210 | U-238 | Suspended | 0.108 | 0.027 | 0.026 | 0.006 |
| RD-98 | SMRD-098-GW090210 | U-238 | Total | 1.62 | NA | 0.12 | NA |
| RS-18 | SMRS-18-GW082310 | Ac-227 | Filtered | 0 U | 11 | 3.3 | 5.4 |
| RS-18 | SMRS-18-GW082310 | Ac-227 | Suspended | 0.8 U | 4.1 | 1.2 | 2 |
| RS-18 | SMRS-18-GW082310 | Ac-227 | Total | 0.8 | NA | 3.5 | NA |
| RS-18 | SMRS-18-GW082310 | Ac-228 | Filtered | 2.3 | 4.1 | 1.3 | 2 |
| RS-18 | SMRS-18-GW082310 | Ac-228 | Suspended | -1.3 U | 3.3 | 1.8 | 1.6 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|-------|----------------|
| RS-18 | SMRS-18-GW082310 | Ac-228 | Total | 1 | NA | 2.2 | NA |
| RS-18 | SMRS-18-GW082310 | Ag-108 | Filtered | -0.006 U R | 0.098 | 0.029 | 0.047 |
| RS-18 | SMRS-18-GW082310 | Ag-108 | Suspended | -0.0001 U R | 0.05 | 0.014 | 0.024 |
| RS-18 | SMRS-18-GW082310 | Ag-108 | Total | -0.006 R | NA | 0.032 | NA |
| RS-18 | SMRS-18-GW082310 | Ag-108m | Filtered | -0.07 U R | 1.1 | 0.31 | 0.51 |
| RS-18 | SMRS-18-GW082310 | Ag-108m | Suspended | -0.0009 U R | 0.53 | 0.16 | 0.26 |
| RS-18 | SMRS-18-GW082310 | Ag-108m | Total | -0.07 R | NA | 0.35 | NA |
| RS-18 | SMRS-18-GW082310 | Ba-133 | Filtered | 2.6 U R | 12 | 3.6 | 5.9 |
| RS-18 | SMRS-18-GW082310 | Ba-133 | Suspended | 1.1 U R | 6 | 1.8 | 2.9 |
| RS-18 | SMRS-18-GW082310 | Ba-133 | Total | 3.7 R | NA | 4.1 | NA |
| RS-18 | SMRS-18-GW082310 | Ba-137m | Filtered | -0.28 U | 1.2 | 0.35 | 0.57 |
| RS-18 | SMRS-18-GW082310 | Ba-137m | Suspended | 0.18 U | 0.64 | 0.19 | 0.3 |
| RS-18 | SMRS-18-GW082310 | Ba-137m | Total | -0.1 | NA | 0.4 | NA |
| RS-18 | SMRS-18-GW082310 | Bi-212 | Filtered | -0.7 U | 11 | 3.8 | 5.3 |
| RS-18 | SMRS-18-GW082310 | Bi-212 | Suspended | 3.2 | 6.4 | 1.9 | 3 |
| RS-18 | SMRS-18-GW082310 | Bi-212 | Total | 2.6 | NA | 4.2 | NA |
| RS-18 | SMRS-18-GW082310 | Bi-214 | Filtered | 1.3 U | 3 | 1.1 | 1.4 |
| RS-18 | SMRS-18-GW082310 | Bi-214 | Suspended | 1.48 | 1.7 | 0.66 | 0.83 |
| RS-18 | SMRS-18-GW082310 | Bi-214 | Total | 2.8 | NA | 1.3 | NA |
| RS-18 | SMRS-18-GW082310 | Cd-113m | Filtered | 200 U | 13000 | 3900 | 6400 |
| RS-18 | SMRS-18-GW082310 | Cd-113m | Suspended | -1100 U | 7500 | 2200 | 3700 |
| RS-18 | SMRS-18-GW082310 | Cd-113m | Total | -900 | NA | 4500 | NA |
| RS-18 | SMRS-18-GW082310 | Cf-249 | Filtered | -0.2 U R | 5.6 | 1.6 | 2.7 |
| RS-18 | SMRS-18-GW082310 | Cf-249 | Suspended | -0.38 U R | 3.1 | 0.91 | 1.5 |
| RS-18 | SMRS-18-GW082310 | Cf-249 | Total | -0.6 R | NA | 1.9 | NA |
| RS-18 | SMRS-18-GW082310 | Co-60 | Filtered | 0.1 U | 1.2 | 0.34 | 0.55 |
| RS-18 | SMRS-18-GW082310 | Co-60 | Suspended | 0.11 U | 0.74 | 0.21 | 0.35 |
| RS-18 | SMRS-18-GW082310 | Co-60 | Total | 0.21 | NA | 0.4 | NA |
| RS-18 | SMRS-18-GW082310 | Cs-134 | Filtered | -0.54 U | 1.4 | 0.43 | 0.69 |
| RS-18 | SMRS-18-GW082310 | Cs-134 | Suspended | 0.39 U | 0.88 | 0.11 | 0.43 |
| RS-18 | SMRS-18-GW082310 | Cs-134 | Total | -0.15 | NA | 0.45 | NA |
| RS-18 | SMRS-18-GW082310 | Cs-137 | Filtered | -0.3 U | 1.3 | 0.37 | 0.6 |
| RS-18 | SMRS-18-GW082310 | Cs-137 | Suspended | 0.19 U | 0.68 | 0.2 | 0.32 |
| RS-18 | SMRS-18-GW082310 | Cs-137 | Total | -0.11 | NA | 0.42 | NA |
| RS-18 | SMRS-18-GW082310 | Eu-152 | Filtered | 0.6 U | 3.4 | 1 | 1.7 |
| RS-18 | SMRS-18-GW082310 | Eu-152 | Suspended | -0.07 U | 1.7 | 0.51 | 0.84 |
| RS-18 | SMRS-18-GW082310 | Eu-152 | Total | 0.5 | NA | 1.1 | NA |
| RS-18 | SMRS-18-GW082310 | Eu-154 | Filtered | -1.4 U | 9.7 | 2.8 | 4.6 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RS-18 | SMRS-18-GW082310 | Eu-154 | Suspended | -1.4 U | 6.8 | 2 | 3.2 |
| RS-18 | SMRS-18-GW082310 | Eu-154 | Total | -2.8 | NA | 3.5 | NA |
| RS-18 | SMRS-18-GW082310 | Eu-155 | Filtered | -0.6 U | 3.4 | 1 | 1.6 |
| RS-18 | SMRS-18-GW082310 | Eu-155 | Suspended | -0.08 U | 1.3 | 0.38 | 0.62 |
| RS-18 | SMRS-18-GW082310 | Eu-155 | Total | -0.7 | NA | 1.1 | NA |
| RS-18 | SMRS-18-GW082310 | gross_alpha | Filtered | 12.3 | 0.46 | 0.79 | 0.25 |
| RS-18 | SMRS-18-GW082310 | gross_alpha | Suspended | 6.07 | 0.9 | 0.71 | 0.47 |
| RS-18 | SMRS-18-GW082310 | gross_alpha | Total | 18.4 | NA | 1.1 | NA |
| RS-18 | SMRS-18-GW082310 | gross_beta | Filtered | 6.5 | 2.4 | 1 | 1.4 |
| RS-18 | SMRS-18-GW082310 | gross_beta | Suspended | 4.81 | 0.85 | 0.46 | 0.49 |
| RS-18 | SMRS-18-GW082310 | gross_beta | Total | 11.3 | NA | 1.1 | NA |
| RS-18 | SMRS-18-GW082310 | H-3 | Filtered | -47 U | 140 | 41 | 67 |
| RS-18 | SMRS-18-GW082310 | H-3 | Suspended | 4 U | 13 | 3.7 | 5.4 |
| RS-18 | SMRS-18-GW082310 | H-3 | Total | -43 | NA | 41 | NA |
| RS-18 | SMRS-18-GW082310 | Ho-166m | Filtered | -0.54 U | 2 | 0.59 | 0.95 |
| RS-18 | SMRS-18-GW082310 | Ho-166m | Suspended | -0.44 U | 1.2 | 0.35 | 0.56 |
| RS-18 | SMRS-18-GW082310 | Ho-166m | Total | -0.99 | NA | 0.69 | NA |
| RS-18 | SMRS-18-GW082310 | K-40 | Filtered | 9.8 U | 23 | 5.9 | 11 |
| RS-18 | SMRS-18-GW082310 | K-40 | Suspended | 9.2 | 12 | 3.7 | 5.7 |
| RS-18 | SMRS-18-GW082310 | K-40 | Total | 19.1 | NA | 7 | NA |
| RS-18 | SMRS-18-GW082310 | Na-22 | Filtered | 0.12 U | 1.3 | 0.37 | 0.6 |
| RS-18 | SMRS-18-GW082310 | Na-22 | Suspended | -0.06 U | 0.73 | 0.21 | 0.34 |
| RS-18 | SMRS-18-GW082310 | Na-22 | Total | 0.07 | NA | 0.43 | NA |
| RS-18 | SMRS-18-GW082310 | Nb-94 | Filtered | 0.19 U | 1.1 | 0.31 | 0.5 |
| RS-18 | SMRS-18-GW082310 | Nb-94 | Suspended | -0.04 U | 0.74 | 0.22 | 0.35 |
| RS-18 | SMRS-18-GW082310 | Nb-94 | Total | 0.14 | NA | 0.38 | NA |
| RS-18 | SMRS-18-GW082310 | Np-236 | Filtered | -0.44 U | 2.8 | 0.85 | 1.4 |
| RS-18 | SMRS-18-GW082310 | Np-236 | Suspended | 0.15 U | 1.2 | 0.36 | 0.6 |
| RS-18 | SMRS-18-GW082310 | Np-236 | Total | -0.29 | NA | 0.92 | NA |
| RS-18 | SMRS-18-GW082310 | Np-239 | Filtered | 1 U | 7.9 | 2.4 | 3.9 |
| RS-18 | SMRS-18-GW082310 | Np-239 | Suspended | 0.5 U | 3.5 | 1 | 1.7 |
| RS-18 | SMRS-18-GW082310 | Np-239 | Total | 1.5 | NA | 2.6 | NA |
| RS-18 | SMRS-18-GW082310 | Pa-231 | Filtered | 5 U | 47 | 14 | 23 |
| RS-18 | SMRS-18-GW082310 | Pa-231 | Suspended | -1.2 U | 26 | 7.8 | 13 |
| RS-18 | SMRS-18-GW082310 | Pa-231 | Total | 3 | NA | 16 | NA |
| RS-18 | SMRS-18-GW082310 | Pb-212 | Filtered | 0.38 U | 2.9 | 0.94 | 1.4 |
| RS-18 | SMRS-18-GW082310 | Pb-212 | Suspended | 0.12 U | 1.2 | 0.35 | 0.57 |
| RS-18 | SMRS-18-GW082310 | Pb-212 | Total | 0.495 | NA | 0.999 | NA |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RS-18 | SMRS-18-GW082310 | Pb-214 | Filtered | -0.8 U | 2.8 | 1.1 | 1.4 |
| RS-18 | SMRS-18-GW082310 | Pb-214 | Suspended | 1.49 | 1.4 | 0.52 | 0.68 |
| RS-18 | SMRS-18-GW082310 | Pb-214 | Total | 0.7 | NA | 1.2 | NA |
| RS-18 | SMRS-18-GW082310 | Sb-125 | Filtered | -3.3 U | 15 | 4.4 | 7.1 |
| RS-18 | SMRS-18-GW082310 | Sb-125 | Suspended | -0.05 U | 6 | 1.8 | 2.9 |
| RS-18 | SMRS-18-GW082310 | Sb-125 | Total | -3.4 | NA | 4.7 | NA |
| RS-18 | SMRS-18-GW082310 | Sn-126 | Filtered | 0.36 U | 1.3 | 0.39 | 0.62 |
| RS-18 | SMRS-18-GW082310 | Sn-126 | Suspended | 0.33 | 0.57 | 0.18 | 0.27 |
| RS-18 | SMRS-18-GW082310 | Sn-126 | Total | 0.69 | NA | 0.43 | NA |
| RS-18 | SMRS-18-GW082310 | Sr-90 | Filtered | 0.06 | 0.053 | 0.017 | 0.029 |
| RS-18 | SMRS-18-GW082310 | Sr-90 | Suspended | 0.009 U | 0.053 | 0.015 | 0.03 |
| RS-18 | SMRS-18-GW082310 | Sr-90 | Total | 0.07 | NA | 0.023 | NA |
| RS-18 | SMRS-18-GW082310 | Te-125m | Filtered | -0.8 U | 3.4 | 1 | 1.6 |
| RS-18 | SMRS-18-GW082310 | Te-125m | Suspended | -0.01 U | 1.4 | 0.41 | 0.68 |
| RS-18 | SMRS-18-GW082310 | Te-125m | Total | -0.8 | NA | 1.1 | NA |
| RS-18 | SMRS-18-GW082310 | Th-231 | Filtered | 0.289 | 0.019 | 0.046 | 0.01 |
| RS-18 | SMRS-18-GW082310 | Th-231 | Suspended | 0.0062 U | 0.017 | 0.0063 | 0.0089 |
| RS-18 | SMRS-18-GW082310 | Th-231 | Total | 0.295 | NA | 0.047 | NA |
| RS-18 | SMRS-18-GW082310 | Th-234 | Filtered | 12.1 | 21 | 7 | 10 |
| RS-18 | SMRS-18-GW082310 | Th-234 | Suspended | -0.2 U | 8.4 | 2.6 | 4.1 |
| RS-18 | SMRS-18-GW082310 | Th-234 | Total | 11.9 | NA | 7.4 | NA |
| RS-18 | SMRS-18-GW082310 | Tl-208 | Filtered | -0.22 U | 1.6 | 0.59 | 0.75 |
| RS-18 | SMRS-18-GW082310 | Tl-208 | Suspended | 0.14 U | 0.85 | 0.31 | 0.41 |
| RS-18 | SMRS-18-GW082310 | Tl-208 | Total | -0.08 | NA | 0.66 | NA |
| RS-18 | SMRS-18-GW082310 | Tm-171 | Filtered | 50 U | 420 | 130 | 210 |
| RS-18 | SMRS-18-GW082310 | Tm-171 | Suspended | -31 U | 130 | 39 | 64 |
| RS-18 | SMRS-18-GW082310 | Tm-171 | Total | 20 | NA | 130 | NA |
| RS-18 | SMRS-18-GW082310 | U-233/234 | Filtered | 6.77 | 0.04 | 0.34 | 0.01 |
| RS-18 | SMRS-18-GW082310 | U-233/234 | Suspended | 0.154 | 0.025 | 0.03 | 0.007 |
| RS-18 | SMRS-18-GW082310 | U-233/234 | Total | 6.93 | NA | 0.35 | NA |
| RS-18 | SMRS-18-GW082310 | U-235/236 | Filtered | 0.289 | 0.019 | 0.046 | 0.01 |
| RS-18 | SMRS-18-GW082310 | U-235/236 | Suspended | 0.0062 U | 0.017 | 0.0063 | 0.0089 |
| RS-18 | SMRS-18-GW082310 | U-235/236 | Total | 0.295 | NA | 0.047 | NA |
| RS-18 | SMRS-18-GW082310 | U-238 | Filtered | 6.65 | 0.03 | 0.34 | 0.01 |
| RS-18 | SMRS-18-GW082310 | U-238 | Suspended | 0.123 | 0.014 | 0.026 | 0.007 |
| RS-18 | SMRS-18-GW082310 | U-238 | Total | 6.77 | NA | 0.34 | NA |
| WS-07 | SMWS-07-GW082710 | Ac-227 | Filtered | -4.2 U | 9.2 | 2.8 | 4.5 |
| WS-07 | SMWS-07-GW082710 | Ac-227 | Suspended | 1.56 | 2.6 | 0.8 | 1.2 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| WS-07 | SMWS-07-GW082710 | Ac-227 | Total | -2.7 | NA | 2.9 | NA |
| WS-07 | SMWS-07-GW082710 | Ac-228 | Filtered | 3.4 | 4.7 | 1.5 | 2.2 |
| WS-07 | SMWS-07-GW082710 | Ac-228 | Suspended | 1.46 | 2.4 | 0.73 | 1.1 |
| WS-07 | SMWS-07-GW082710 | Ac-228 | Total | 4.9 | NA | 1.7 | NA |
| WS-07 | SMWS-07-GW082710 | Ag-108 | Filtered | 0.003 U R | 0.11 | 0.031 | 0.052 |
| WS-07 | SMWS-07-GW082710 | Ag-108 | Suspended | 0.012 U R | 0.049 | 0.014 | 0.023 |
| WS-07 | SMWS-07-GW082710 | Ag-108 | Total | 0.015 R | NA | 0.035 | NA |
| WS-07 | SMWS-07-GW082710 | Ag-108m | Filtered | 0.03 U R | 1.2 | 0.34 | 0.55 |
| WS-07 | SMWS-07-GW082710 | Ag-108m | Suspended | 0.13 U R | 0.53 | 0.16 | 0.25 |
| WS-07 | SMWS-07-GW082710 | Ag-108m | Total | 0.16 R | NA | 0.37 | NA |
| WS-07 | SMWS-07-GW082710 | Ba-133 | Filtered | 0.3 U R | 15 | 4.4 | 7.3 |
| WS-07 | SMWS-07-GW082710 | Ba-133 | Suspended | -1.6 U R | 6.1 | 1.8 | 2.9 |
| WS-07 | SMWS-07-GW082710 | Ba-133 | Total | -1.3 R | NA | 4.8 | NA |
| WS-07 | SMWS-07-GW082710 | Ba-137m | Filtered | 1.43 | 1.3 | 0.43 | 0.62 |
| WS-07 | SMWS-07-GW082710 | Ba-137m | Suspended | -0.12 U | 0.74 | 0.27 | 0.35 |
| WS-07 | SMWS-07-GW082710 | Ba-137m | Total | 1.31 | NA | 0.51 | NA |
| WS-07 | SMWS-07-GW082710 | Bi-212 | Filtered | -1.1 U | 12 | 3.4 | 5.6 |
| WS-07 | SMWS-07-GW082710 | Bi-212 | Suspended | 1.8 U | 5.4 | 1.6 | 2.5 |
| WS-07 | SMWS-07-GW082710 | Bi-212 | Total | 0.7 | NA | 3.8 | NA |
| WS-07 | SMWS-07-GW082710 | Bi-214 | Filtered | 4.6 | 2.8 | 1.3 | 1.3 |
| WS-07 | SMWS-07-GW082710 | Bi-214 | Suspended | 1.87 | 1.3 | 0.5 | 0.59 |
| WS-07 | SMWS-07-GW082710 | Bi-214 | Total | 6.5 | NA | 1.4 | NA |
| WS-07 | SMWS-07-GW082710 | Cd-113m | Filtered | -1900 U | 16000 | 4800 | 7800 |
| WS-07 | SMWS-07-GW082710 | Cd-113m | Suspended | 1400 U | 6700 | 2000 | 3200 |
| WS-07 | SMWS-07-GW082710 | Cd-113m | Total | -500 | NA | 5200 | NA |
| WS-07 | SMWS-07-GW082710 | Cf-249 | Filtered | -1 U R | 6.5 | 1.9 | 3.1 |
| WS-07 | SMWS-07-GW082710 | Cf-249 | Suspended | -1.38 U R | 3 | 0.92 | 1.5 |
| WS-07 | SMWS-07-GW082710 | Cf-249 | Total | -2.4 R | NA | 2.1 | NA |
| WS-07 | SMWS-07-GW082710 | Co-60 | Filtered | 0.05 U | 1.8 | 0.51 | 0.83 |
| WS-07 | SMWS-07-GW082710 | Co-60 | Suspended | 0.29 U | 0.75 | 0.23 | 0.34 |
| WS-07 | SMWS-07-GW082710 | Co-60 | Total | 0.34 | NA | 0.56 | NA |
| WS-07 | SMWS-07-GW082710 | Cs-134 | Filtered | -0.06 U | 2.4 | 0.69 | 1.1 |
| WS-07 | SMWS-07-GW082710 | Cs-134 | Suspended | -0.13 U | 0.77 | 0.23 | 0.37 |
| WS-07 | SMWS-07-GW082710 | Cs-134 | Total | -0.2 | NA | 0.73 | NA |
| WS-07 | SMWS-07-GW082710 | Cs-137 | Filtered | 1.51 | 1.4 | 0.46 | 0.66 |
| WS-07 | SMWS-07-GW082710 | Cs-137 | Suspended | -0.13 U | 0.78 | 0.28 | 0.37 |
| WS-07 | SMWS-07-GW082710 | Cs-137 | Total | 1.38 | NA | 0.54 | NA |
| WS-07 | SMWS-07-GW082710 | Eu-152 | Filtered | 2.07 | 3.2 | 0.99 | 1.5 |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| WS-07 | SMWS-07-GW082710 | Eu-152 | Suspended | 0.31 U | 1.8 | 0.52 | 0.84 |
| WS-07 | SMWS-07-GW082710 | Eu-152 | Total | 2.4 | NA | 1.1 | NA |
| WS-07 | SMWS-07-GW082710 | Eu-154 | Filtered | 2.5 U | 12 | 3.5 | 5.6 |
| WS-07 | SMWS-07-GW082710 | Eu-154 | Suspended | 0.7 U | 5.1 | 1.5 | 2.4 |
| WS-07 | SMWS-07-GW082710 | Eu-154 | Total | 3.2 | NA | 3.8 | NA |
| WS-07 | SMWS-07-GW082710 | Eu-155 | Filtered | 1.14 U | 3.1 | 0.94 | 1.5 |
| WS-07 | SMWS-07-GW082710 | Eu-155 | Suspended | 0.17 U | 1.2 | 0.34 | 0.56 |
| WS-07 | SMWS-07-GW082710 | Eu-155 | Total | 1.3 | NA | 1 | NA |
| WS-07 | SMWS-07-GW082710 | gross_alpha | Filtered | 3.46 | 0.51 | 0.37 | 0.28 |
| WS-07 | SMWS-07-GW082710 | gross_alpha | Suspended | 0.26 U | 0.5 | 0.15 | 0.27 |
| WS-07 | SMWS-07-GW082710 | gross_alpha | Total | 3.72 | NA | 0.41 | NA |
| WS-07 | SMWS-07-GW082710 | gross_beta | Filtered | 5.6 | 1.4 | 0.66 | 0.8 |
| WS-07 | SMWS-07-GW082710 | gross_beta | Suspended | 4.44 | 0.76 | 0.42 | 0.45 |
| WS-07 | SMWS-07-GW082710 | gross_beta | Total | 10 | NA | 0.78 | NA |
| WS-07 | SMWS-07-GW082710 | H-3 | Filtered | 22 U | 140 | 43 | 70 |
| WS-07 | SMWS-07-GW082710 | H-3 | Suspended | 4.2 U R | 22 | 6.2 | 9.8 |
| WS-07 | SMWS-07-GW082710 | H-3 | Total | 26 R | NA | 43 | NA |
| WS-07 | SMWS-07-GW082710 | H-3_Total | Filtered | 21.6 | 28 | 8.8 | 13 |
| WS-07 | SMWS-07-GW082710 | H-3_Total | Suspended | 4.2 U R | 19 | 5.3 | 8.3 |
| WS-07 | SMWS-07-GW082710 | H-3_Total | Total | 26 R | NA | 10 | NA |
| WS-07 | SMWS-07-GW082710 | Ho-166m | Filtered | -0.52 U | 2.3 | 0.67 | 1.1 |
| WS-07 | SMWS-07-GW082710 | Ho-166m | Suspended | 0.21 U | 1 | 0.29 | 0.47 |
| WS-07 | SMWS-07-GW082710 | Ho-166m | Total | -0.3 | NA | 0.73 | NA |
| WS-07 | SMWS-07-GW082710 | K-40 | Filtered | 15.9 | 18 | 5.8 | 8.3 |
| WS-07 | SMWS-07-GW082710 | K-40 | Suspended | -6 U | 11 | 7 | 5 |
| WS-07 | SMWS-07-GW082710 | K-40 | Total | 9.9 | NA | 9 | NA |
| WS-07 | SMWS-07-GW082710 | Na-22 | Filtered | -0.23 U | 1.6 | 0.45 | 0.72 |
| WS-07 | SMWS-07-GW082710 | Na-22 | Suspended | 0.23 U | 0.88 | 0.26 | 0.41 |
| WS-07 | SMWS-07-GW082710 | Na-22 | Total | 0.003 | NA | 0.52 | NA |
| WS-07 | SMWS-07-GW082710 | Nb-94 | Filtered | 0.13 U | 1.1 | 0.31 | 0.5 |
| WS-07 | SMWS-07-GW082710 | Nb-94 | Suspended | 0.23 | 0.49 | 0.15 | 0.23 |
| WS-07 | SMWS-07-GW082710 | Nb-94 | Total | 0.36 | NA | 0.34 | NA |
| WS-07 | SMWS-07-GW082710 | Np-236 | Filtered | 0.05 U | 2.8 | 0.84 | 1.4 |
| WS-07 | SMWS-07-GW082710 | Np-236 | Suspended | 0.11 U | 1.2 | 0.36 | 0.59 |
| WS-07 | SMWS-07-GW082710 | Np-236 | Total | 0.16 | NA | 0.91 | NA |
| WS-07 | SMWS-07-GW082710 | Np-239 | Filtered | 2.6 U | 6.6 | 2 | 3.2 |
| WS-07 | SMWS-07-GW082710 | Np-239 | Suspended | -0.002 U | 3.6 | 1 | 1.7 |
| WS-07 | SMWS-07-GW082710 | Np-239 | Total | 2.6 | NA | 2.3 | NA |

Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| WS-07 | SMWS-07-GW082710 | Pa-231 | Filtered | 1 U | 59 | 17 | 28 |
| WS-07 | SMWS-07-GW082710 | Pa-231 | Suspended | -2.9 U | 26 | 7.7 | 13 |
| WS-07 | SMWS-07-GW082710 | Pa-231 | Total | -2 | NA | 19 | NA |
| WS-07 | SMWS-07-GW082710 | Pb-212 | Filtered | 1.42 | 2.4 | 0.91 | 1.2 |
| WS-07 | SMWS-07-GW082710 | Pb-212 | Suspended | 1.03 | 0.97 | 0.33 | 0.47 |
| WS-07 | SMWS-07-GW082710 | Pb-212 | Total | 2.45 | NA | 0.97 | NA |
| WS-07 | SMWS-07-GW082710 | Pb-214 | Filtered | 0.74 U | 3.2 | 0.9 | 1.5 |
| WS-07 | SMWS-07-GW082710 | Pb-214 | Suspended | 1.37 | 1.2 | 0.38 | 0.56 |
| WS-07 | SMWS-07-GW082710 | Pb-214 | Total | 2.12 | NA | 0.98 | NA |
| WS-07 | SMWS-07-GW082710 | Sb-125 | Filtered | 2.4 U | 13 | 3.8 | 6.1 |
| WS-07 | SMWS-07-GW082710 | Sb-125 | Suspended | 2 U | 5.7 | 1.7 | 2.8 |
| WS-07 | SMWS-07-GW082710 | Sb-125 | Total | 4.4 | NA | 4.1 | NA |
| WS-07 | SMWS-07-GW082710 | Sn-126 | Filtered | 0.46 U | 1.5 | 0.43 | 0.68 |
| WS-07 | SMWS-07-GW082710 | Sn-126 | Suspended | -0.001 U | 0.74 | 0.21 | 0.35 |
| WS-07 | SMWS-07-GW082710 | Sn-126 | Total | 0.46 | NA | 0.48 | NA |
| WS-07 | SMWS-07-GW082710 | Sr-90 | Filtered | 0.092 U | 0.19 | 0.057 | 0.11 |
| WS-07 | SMWS-07-GW082710 | Sr-90 | Suspended | 0.107 | 0.14 | 0.046 | 0.085 |
| WS-07 | SMWS-07-GW082710 | Sr-90 | Total | 0.199 | NA | 0.073 | NA |
| WS-07 | SMWS-07-GW082710 | Te-125m | Filtered | 0.55 U | 2.9 | 0.87 | 1.4 |
| WS-07 | SMWS-07-GW082710 | Te-125m | Suspended | 0.46 U | 1.3 | 0.4 | 0.64 |
| WS-07 | SMWS-07-GW082710 | Te-125m | Total | 1.01 | NA | 0.96 | NA |
| WS-07 | SMWS-07-GW082710 | Th-231 | Filtered | 0.085 | 0.007 | 0.015 | 0.006 |
| WS-07 | SMWS-07-GW082710 | Th-231 | Suspended | 0 U | 0.018 | 0.0025 | 0.0097 |
| WS-07 | SMWS-07-GW082710 | Th-231 | Total | 0.085 | NA | 0.015 | NA |
| WS-07 | SMWS-07-GW082710 | Th-234 | Filtered | 0.7 U | 23 | 7.1 | 11 |
| WS-07 | SMWS-07-GW082710 | Th-234 | Suspended | -1 U | 8.2 | 2.3 | 4 |
| WS-07 | SMWS-07-GW082710 | Th-234 | Total | -0.3 | NA | 7.5 | NA |
| WS-07 | SMWS-07-GW082710 | Tl-208 | Filtered | -0.04 U | 1.6 | 0.46 | 0.77 |
| WS-07 | SMWS-07-GW082710 | Tl-208 | Suspended | -0.7 U | 1 | 1.2 | 0.5 |
| WS-07 | SMWS-07-GW082710 | Tl-208 | Total | -0.8 | NA | 1.3 | NA |
| WS-07 | SMWS-07-GW082710 | Tm-171 | Filtered | 0 U | 380 | 110 | 190 |
| WS-07 | SMWS-07-GW082710 | Tm-171 | Suspended | -163 R U | 130 | 42 | 65 |
| WS-07 | SMWS-07-GW082710 | Tm-171 | Total | -160 | NA | 120 | NA |
| WS-07 | SMWS-07-GW082710 | U-233/234 | Filtered | 1.36 | 0.015 | 0.077 | 0.005 |
| WS-07 | SMWS-07-GW082710 | U-233/234 | Suspended | 0.018 | 0.033 | 0.014 | 0.011 |
| WS-07 | SMWS-07-GW082710 | U-233/234 | Total | 1.37 | NA | 0.079 | NA |
| WS-07 | SMWS-07-GW082710 | U-235/236 | Filtered | 0.085 | 0.007 | 0.015 | 0.006 |
| WS-07 | SMWS-07-GW082710 | U-235/236 | Suspended | 0 U | 0.018 | 0.0025 | 0.0097 |

**Table D.1
Radionuclide Analytical Results
Phase I, Groundwater Sampling**

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| WS-07 | SMWS-07-GW082710 | U-235/236 | Total | 0.085 | NA | 0.015 | NA |
| WS-07 | SMWS-07-GW082710 | U-238 | Filtered | 1.06 | 0.015 | 0.064 | 0.005 |
| WS-07 | SMWS-07-GW082710 | U-238 | Suspended | 0.0033 U | 0.015 | 0.0077 | 0.0077 |
| WS-07 | SMWS-07-GW082710 | U-238 | Total | 1.07 | NA | 0.065 | NA |

Notes:

The MDC and Critical Value were not calculated for the "total" fraction of the sample as per the Quality Assurance Project Plan.

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter

MDC - minimum detectable concentration

NA - not applicable

NORM - naturally occurring radioactive material

TPU - total propagated uncertainty

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

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

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

R - The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

U - Not considered detected. The associated number is the reported concentration.

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| ES-31 | SMES-31-GW032511 | Ac-227 | Filtered | -5.7 U | 9.4 | 2.9 | 4.6 |
| ES-31 | SMES-31-GW032511 | Ac-227 | Suspended | 0.002 U | 2.8 | 0.82 | 1.3 |
| ES-31 | SMES-31-GW032511 | Ac-227 | Total | -5.7 | NA | 3 | NA |
| ES-31 | SMES-31-GW032511 | Ac-228 | Filtered | 3.01 | 2.9 | 0.96 | 1.4 |
| ES-31 | SMES-31-GW032511 | Ac-228 | Suspended | 0.93 | 1.7 | 0.53 | 0.81 |
| ES-31 | SMES-31-GW032511 | Ac-228 | Total | 3.9 | NA | 1.1 | NA |
| ES-31 | SMES-31-GW032511 | Ag-108 | Filtered | 0.0007 U R | 0.075 | 0.022 | 0.036 |
| ES-31 | SMES-31-GW032511 | Ag-108 | Suspended | 0.003 U R | 0.039 | 0.012 | 0.019 |
| ES-31 | SMES-31-GW032511 | Ag-108 | Total | 0.004 R | NA | 0.024 | NA |
| ES-31 | SMES-31-GW032511 | Ag-108m | Filtered | 0.008 U R | 0.8 | 0.23 | 0.38 |
| ES-31 | SMES-31-GW032511 | Ag-108m | Suspended | 0.03 U R | 0.42 | 0.12 | 0.2 |
| ES-31 | SMES-31-GW032511 | Ag-108m | Total | 0.04 R | NA | 0.26 | NA |
| ES-31 | SMES-31-GW032511 | Ba-133 | Filtered | 3.6 U R | 11 | 3.2 | 5.1 |
| ES-31 | SMES-31-GW032511 | Ba-133 | Suspended | 1.3 U R | 4.4 | 1.3 | 2.1 |
| ES-31 | SMES-31-GW032511 | Ba-133 | Total | 4.9 R | NA | 3.5 | NA |
| ES-31 | SMES-31-GW032511 | Ba-137m | Filtered | 0.06 U | 0.99 | 0.28 | 0.47 |
| ES-31 | SMES-31-GW032511 | Ba-137m | Suspended | -0.05 U | 0.55 | 0.16 | 0.26 |
| ES-31 | SMES-31-GW032511 | Ba-137m | Total | 0.006 | NA | 0.33 | NA |
| ES-31 | SMES-31-GW032511 | Bi-212 | Filtered | 1.1 U | 8.7 | 2.4 | 4.1 |
| ES-31 | SMES-31-GW032511 | Bi-212 | Suspended | 1.9 | 3.6 | 1.1 | 1.7 |
| ES-31 | SMES-31-GW032511 | Bi-212 | Total | 3 | NA | 2.6 | NA |
| ES-31 | SMES-31-GW032511 | Bi-214 | Filtered | 1.16 U | 2.5 | 0.76 | 1.2 |
| ES-31 | SMES-31-GW032511 | Bi-214 | Suspended | 1.49 | 1.4 | 0.63 | 0.66 |
| ES-31 | SMES-31-GW032511 | Bi-214 | Total | 2.65 | NA | 0.99 | NA |
| ES-31 | SMES-31-GW032511 | Cd-113m | Filtered | -0.6 U | 14000 | 4100 | 6800 |
| ES-31 | SMES-31-GW032511 | Cd-113m | Suspended | 1200 U | 4700 | 1400 | 2300 |
| ES-31 | SMES-31-GW032511 | Cd-113m | Total | 1200 | NA | 4300 | NA |
| ES-31 | SMES-31-GW032511 | Cf-249 | Filtered | -1.2 U R | 5.5 | 1.6 | 2.6 |
| ES-31 | SMES-31-GW032511 | Cf-249 | Suspended | -0.36 U R | 2.5 | 0.74 | 1.2 |
| ES-31 | SMES-31-GW032511 | Cf-249 | Total | -1.6 R | NA | 1.8 | NA |
| ES-31 | SMES-31-GW032511 | Co-60 | Filtered | 0.06 U | 1.2 | 0.34 | 0.55 |
| ES-31 | SMES-31-GW032511 | Co-60 | Suspended | -0.06 U | 0.65 | 0.19 | 0.3 |
| ES-31 | SMES-31-GW032511 | Co-60 | Total | 0.004 | NA | 0.38 | NA |
| ES-31 | SMES-31-GW032511 | Cs-134 | Filtered | -0.27 U | 1.3 | 0.39 | 0.63 |
| ES-31 | SMES-31-GW032511 | Cs-134 | Suspended | -0.17 U | 0.66 | 0.2 | 0.32 |
| ES-31 | SMES-31-GW032511 | Cs-134 | Total | -0.44 SK | NA | 0.44 | NA |
| ES-31 | SMES-31-GW032511 | Cs-137 | Filtered | 0.06 U | 1 | 0.3 | 0.49 |
| ES-31 | SMES-31-GW032511 | Cs-137 | Suspended | -0.05 U | 0.58 | 0.17 | 0.28 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| ES-31 | SMES-31-GW032511 | Cs-137 | Total | 0.007 | NA | 0.35 | NA |
| ES-31 | SMES-31-GW032511 | Eu-152 | Filtered | 0.64 U | 3.1 | 0.91 | 1.5 |
| ES-31 | SMES-31-GW032511 | Eu-152 | Suspended | -0.15 U | 1.4 | 0.42 | 0.68 |
| ES-31 | SMES-31-GW032511 | Eu-152 | Total | 0.5 | NA | 1 | NA |
| ES-31 | SMES-31-GW032511 | Eu-154 | Filtered | -2.2 U | 9.6 | 2.8 | 4.5 |
| ES-31 | SMES-31-GW032511 | Eu-154 | Suspended | 0.5 U J | 4.3 | 1.2 | 2 |
| ES-31 | SMES-31-GW032511 | Eu-154 | Total | -1.7 | NA | 3.1 | NA |
| ES-31 | SMES-31-GW032511 | Eu-155 | Filtered | 1.36 U | 2.8 | 0.87 | 1.4 |
| ES-31 | SMES-31-GW032511 | Eu-155 | Suspended | -0.009 U | 0.78 | 0.23 | 0.37 |
| ES-31 | SMES-31-GW032511 | Eu-155 | Total | 1.35 SK | NA | 0.89 | NA |
| ES-31 | SMES-31-GW032511 | gross_alpha | Filtered | 5.1 | 0.42 | 0.46 | 0.22 |
| ES-31 | SMES-31-GW032511 | gross_alpha | Suspended | 0.83 | 0.97 | 0.33 | 0.51 |
| ES-31 | SMES-31-GW032511 | gross_alpha | Total | 5.93 | NA | 0.57 | NA |
| ES-31 | SMES-31-GW032511 | gross_beta | Filtered | 2.07 | 1.2 | 0.44 | 0.7 |
| ES-31 | SMES-31-GW032511 | gross_beta | Suspended | 0.16 U | 1 | 0.31 | 0.61 |
| ES-31 | SMES-31-GW032511 | gross_beta | Total | 2.23 | NA | 0.53 | NA |
| ES-31 | SMES-31-GW032511 | H-3 | Total | 69 | 120 | 36 | 57 |
| ES-31 | SMES-31-GW032511 | Ho-166m | Filtered | 0.2 U | 2 | 0.58 | 0.95 |
| ES-31 | SMES-31-GW032511 | Ho-166m | Suspended | -0.22 U | 0.97 | 0.29 | 0.46 |
| ES-31 | SMES-31-GW032511 | Ho-166m | Total | -0.02 SK | NA | 0.65 | NA |
| ES-31 | SMES-31-GW032511 | K-40 | Filtered | -3.5 U | 17 | 5.5 | 8.2 |
| ES-31 | SMES-31-GW032511 | K-40 | Suspended | 2.8 U | 7.6 | 2 | 3.6 |
| ES-31 | SMES-31-GW032511 | K-40 | Total | -0.7 | NA | 5.9 | NA |
| ES-31 | SMES-31-GW032511 | Na-22 | Filtered | 0.12 U | 1.1 | 0.31 | 0.5 |
| ES-31 | SMES-31-GW032511 | Na-22 | Suspended | -0.06 U | 0.62 | 0.18 | 0.29 |
| ES-31 | SMES-31-GW032511 | Na-22 | Total | 0.06 | NA | 0.36 | NA |
| ES-31 | SMES-31-GW032511 | Nb-94 | Filtered | -0.22 U | 1.1 | 0.32 | 0.52 |
| ES-31 | SMES-31-GW032511 | Nb-94 | Suspended | 0.17 U | 0.57 | 0.17 | 0.27 |
| ES-31 | SMES-31-GW032511 | Nb-94 | Total | -0.05 | NA | 0.36 | NA |
| ES-31 | SMES-31-GW032511 | Np-236 | Filtered | 0.32 U | 2.6 | 0.78 | 1.3 |
| ES-31 | SMES-31-GW032511 | Np-236 | Suspended | 0.1 U | 0.95 | 0.28 | 0.46 |
| ES-31 | SMES-31-GW032511 | Np-236 | Total | 0.42 SK | NA | 0.83 | NA |
| ES-31 | SMES-31-GW032511 | Np-239 | Filtered | 0.8 U | 5.5 | 1.6 | 2.6 |
| ES-31 | SMES-31-GW032511 | Np-239 | Suspended | -0.29 U | 3 | 0.89 | 1.5 |
| ES-31 | SMES-31-GW032511 | Np-239 | Total | 0.6 | NA | 1.8 | NA |
| ES-31 | SMES-31-GW032511 | Pa-231 | Filtered | -13 U | 51 | 15 | 25 |
| ES-31 | SMES-31-GW032511 | Pa-231 | Suspended | 4.4 U | 20 | 6 | 9.7 |
| ES-31 | SMES-31-GW032511 | Pa-231 | Total | -8 | NA | 16 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| ES-31 | SMES-31-GW032511 | Pb-212 | Filtered | 0.53 U | 2.5 | 0.82 | 1.2 |
| ES-31 | SMES-31-GW032511 | Pb-212 | Suspended | -0.1 U | 0.85 | 0.34 | 0.41 |
| ES-31 | SMES-31-GW032511 | Pb-212 | Total | 0.43 | NA | 0.89 | NA |
| ES-31 | SMES-31-GW032511 | Pb-214 | Filtered | 0.21 U | 2.8 | 0.77 | 1.4 |
| ES-31 | SMES-31-GW032511 | Pb-214 | Suspended | 0.42 U | 1.1 | 0.31 | 0.53 |
| ES-31 | SMES-31-GW032511 | Pb-214 | Total | 0.63 | NA | 0.83 | NA |
| ES-31 | SMES-31-GW032511 | Sb-125 | Filtered | 1.5 U | 11 | 3.2 | 5.2 |
| ES-31 | SMES-31-GW032511 | Sb-125 | Suspended | -0.1 U | 4.7 | 1.4 | 2.3 |
| ES-31 | SMES-31-GW032511 | Sb-125 | Total | 1.4 SK | NA | 3.5 | NA |
| ES-31 | SMES-31-GW032511 | Sn-126 | Filtered | 0.3 U | 1.1 | 0.32 | 0.52 |
| ES-31 | SMES-31-GW032511 | Sn-126 | Suspended | 0.24 U | 0.7 | 0.21 | 0.34 |
| ES-31 | SMES-31-GW032511 | Sn-126 | Total | 0.54 | NA | 0.39 | NA |
| ES-31 | SMES-31-GW032511 | Sr-90 | Filtered | 0.035 U | 0.14 | 0.042 | 0.079 |
| ES-31 | SMES-31-GW032511 | Sr-90 | Suspended | 0.033 U | 0.098 | 0.029 | 0.055 |
| ES-31 | SMES-31-GW032511 | Sr-90 | Total | 0.068 | NA | 0.051 | NA |
| ES-31 | SMES-31-GW032511 | Te-125m | Filtered | 0.34 U | 2.5 | 0.74 | 1.2 |
| ES-31 | SMES-31-GW032511 | Te-125m | Suspended | -0.03 U | 1.1 | 0.32 | 0.52 |
| ES-31 | SMES-31-GW032511 | Te-125m | Total | 0.31 SK | NA | 0.8 | NA |
| ES-31 | SMES-31-GW032511 | Th-231 | Filtered | 0.126 | 0.007 | 0.019 | 0.005 |
| ES-31 | SMES-31-GW032511 | Th-231 | Suspended | 0.003 U | 0.017 | 0.0041 | 0.0052 |
| ES-31 | SMES-31-GW032511 | Th-231 | Total | 0.129 | NA | 0.019 | NA |
| ES-31 | SMES-31-GW032511 | Th-234 | Filtered | 15 | 21 | 7.1 | 10 |
| ES-31 | SMES-31-GW032511 | Th-234 | Suspended | -0.05 U | 4.2 | 1.2 | 2 |
| ES-31 | SMES-31-GW032511 | Th-234 | Total | 14.9 | NA | 7.2 | NA |
| ES-31 | SMES-31-GW032511 | Tl-208 | Filtered | 0.14 U | 1.4 | 0.47 | 0.66 |
| ES-31 | SMES-31-GW032511 | Tl-208 | Suspended | -0.04 U | 0.59 | 0.19 | 0.28 |
| ES-31 | SMES-31-GW032511 | Tl-208 | Total | 0.09 | NA | 0.51 | NA |
| ES-31 | SMES-31-GW032511 | Tm-171 | Filtered | 7 U | 260 | 78 | 130 |
| ES-31 | SMES-31-GW032511 | Tm-171 | Suspended | 37 U | 81 | 25 | 39 |
| ES-31 | SMES-31-GW032511 | Tm-171 | Total | 44 | NA | 82 | NA |
| ES-31 | SMES-31-GW032511 | U-233/234 | Filtered | 3.13 | 0.01 | 0.15 | 0.004 |
| ES-31 | SMES-31-GW032511 | U-233/234 | Suspended | 0.019 | 0.013 | 0.008 | 0.0042 |
| ES-31 | SMES-31-GW032511 | U-233/234 | Total | 3.15 | NA | 0.15 | NA |
| ES-31 | SMES-31-GW032511 | U-235/236 | Filtered | 0.126 | 0.007 | 0.019 | 0.005 |
| ES-31 | SMES-31-GW032511 | U-235/236 | Suspended | 0.003 U | 0.017 | 0.0041 | 0.0052 |
| ES-31 | SMES-31-GW032511 | U-235/236 | Total | 0.129 | NA | 0.019 | NA |
| ES-31 | SMES-31-GW032511 | U-238 | Filtered | 2.86 | 0.02 | 0.14 | 0.007 |
| ES-31 | SMES-31-GW032511 | U-238 | Suspended | 0.007 | 0.0055 | 0.0054 | 0.0042 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| ES-31 | SMES-31-GW032511 | U-238 | Total | 2.87 | NA | 0.14 | NA |
| OS-10 | SOOS-10-GW041811 | Ac-227 | Filtered | 0.2 U | 12 | 3.4 | 5.7 |
| OS-10 | SOOS-10-GW041811 | Ac-227 | Suspended | 0.3 U | 10 | 3.1 | 5.1 |
| OS-10 | SOOS-10-GW041811 | Ac-227 | Total | 0.5 | NA | 4.6 | NA |
| OS-10 | SOOS-10-GW041811 | Ac-228 | Filtered | 3.6 | 3.6 | 1.2 | 1.7 |
| OS-10 | SOOS-10-GW041811 | Ac-228 | Suspended | 10.4 | 2.6 | 1.1 | 1.2 |
| OS-10 | SOOS-10-GW041811 | Ac-228 | Total | 14 | NA | 1.6 | NA |
| OS-10 | SOOS-10-GW041811 | Ag-108 | Filtered | 0 U R | 0.1 | 0.03 | 0.049 |
| OS-10 | SOOS-10-GW041811 | Ag-108 | Suspended | 0.006 U R | 0.045 | 0.013 | 0.022 |
| OS-10 | SOOS-10-GW041811 | Ag-108 | Total | 0.006 R | NA | 0.033 | NA |
| OS-10 | SOOS-10-GW041811 | Ag-108m | Filtered | 0 U R | 1.1 | 0.32 | 0.53 |
| OS-10 | SOOS-10-GW041811 | Ag-108m | Suspended | 0.06 U R | 0.49 | 0.14 | 0.23 |
| OS-10 | SOOS-10-GW041811 | Ag-108m | Total | 0.06 R | NA | 0.35 | NA |
| OS-10 | SOOS-10-GW041811 | Ba-133 | Filtered | 2 U R | 11 | 3.3 | 5.4 |
| OS-10 | SOOS-10-GW041811 | Ba-133 | Suspended | -1.2 U R | 7 | 2.1 | 3.4 |
| OS-10 | SOOS-10-GW041811 | Ba-133 | Total | 0.8 R | NA | 3.9 | NA |
| OS-10 | SOOS-10-GW041811 | Ba-137m | Filtered | -0.31 U | 1.1 | 0.32 | 0.51 |
| OS-10 | SOOS-10-GW041811 | Ba-137m | Suspended | 1.43 | 0.73 | 0.25 | 0.35 |
| OS-10 | SOOS-10-GW041811 | Ba-137m | Total | 1.12 | NA | 0.41 | NA |
| OS-10 | SOOS-10-GW041811 | Bi-212 | Filtered | 5.3 | 8.9 | 2.7 | 4.2 |
| OS-10 | SOOS-10-GW041811 | Bi-212 | Suspended | 14.4 | 5.1 | 2.8 | 2.4 |
| OS-10 | SOOS-10-GW041811 | Bi-212 | Total | 19.7 | NA | 3.9 | NA |
| OS-10 | SOOS-10-GW041811 | Bi-214 | Filtered | 0.35 U | 2.9 | 0.79 | 1.4 |
| OS-10 | SOOS-10-GW041811 | Bi-214 | Suspended | 4.11 | 1.9 | 0.83 | 0.92 |
| OS-10 | SOOS-10-GW041811 | Bi-214 | Total | 4.5 | NA | 1.1 | NA |
| OS-10 | SOOS-10-GW041811 | Cd-113m | Filtered | 2000 U | 14000 | 4100 | 6600 |
| OS-10 | SOOS-10-GW041811 | Cd-113m | Suspended | -10 U | 8200 | 2400 | 4000 |
| OS-10 | SOOS-10-GW041811 | Cd-113m | Total | 1900 | NA | 4700 | NA |
| OS-10 | SOOS-10-GW041811 | Cf-249 | Filtered | 1.6 U R | 5.1 | 1.5 | 2.5 |
| OS-10 | SOOS-10-GW041811 | Cf-249 | Suspended | -1.1 U R | 3.4 | 1 | 1.6 |
| OS-10 | SOOS-10-GW041811 | Cf-249 | Total | 0.5 R | NA | 1.8 | NA |
| OS-10 | SOOS-10-GW041811 | Co-60 | Filtered | 0.01 U | 1.3 | 0.36 | 0.6 |
| OS-10 | SOOS-10-GW041811 | Co-60 | Suspended | -0.005 U | 0.8 | 0.23 | 0.37 |
| OS-10 | SOOS-10-GW041811 | Co-60 | Total | 0.009 | NA | 0.43 | NA |
| OS-10 | SOOS-10-GW041811 | Cs-134 | Filtered | 0.05 U | 1.2 | 0.34 | 0.56 |
| OS-10 | SOOS-10-GW041811 | Cs-134 | Suspended | 1 SK | 0.52 | 0.21 | 0.24 |
| OS-10 | SOOS-10-GW041811 | Cs-134 | Total | 1.05 | NA | 0.4 | NA |
| OS-10 | SOOS-10-GW041811 | Cs-137 | Filtered | -0.33 U | 1.1 | 0.34 | 0.54 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| OS-10 | SOOS-10-GW041811 | Cs-137 | Suspended | 1.51 | 0.78 | 0.27 | 0.37 |
| OS-10 | SOOS-10-GW041811 | Cs-137 | Total | 1.18 | NA | 0.43 | NA |
| OS-10 | SOOS-10-GW041811 | Eu-152 | Filtered | -1.1 U | 3.6 | 1.1 | 1.7 |
| OS-10 | SOOS-10-GW041811 | Eu-152 | Suspended | -0.37 U | 2.2 | 0.64 | 1 |
| OS-10 | SOOS-10-GW041811 | Eu-152 | Total | -1.4 | NA | 1.2 | NA |
| OS-10 | SOOS-10-GW041811 | Eu-154 | Filtered | 0.04 U | 7.5 | 2.1 | 3.4 |
| OS-10 | SOOS-10-GW041811 | Eu-154 | Suspended | -1.8 U | 7.4 | 2.2 | 3.6 |
| OS-10 | SOOS-10-GW041811 | Eu-154 | Total | -1.7 | NA | 3 | NA |
| OS-10 | SOOS-10-GW041811 | Eu-155 | Filtered | 1 U | 3.4 | 1 | 1.7 |
| OS-10 | SOOS-10-GW041811 | Eu-155 | Suspended | 0.56 U | 1.3 | 0.39 | 0.63 |
| OS-10 | SOOS-10-GW041811 | Eu-155 | Total | 1.6 | NA | 1.1 | NA |
| OS-10 | SOOS-10-GW041811 | gross_alpha | Filtered | 1.45 | 0.59 | 0.3 | 0.3 |
| OS-10 | SOOS-10-GW041811 | gross_alpha | Suspended | 135 | 10 | 12 | 5 |
| OS-10 | SOOS-10-GW041811 | gross_alpha | Total | 136 | NA | 12 | NA |
| OS-10 | SOOS-10-GW041811 | gross_beta | Filtered | 6.15 | 1.3 | 0.65 | 0.77 |
| OS-10 | SOOS-10-GW041811 | gross_beta | Suspended | 139 | 8.8 | 7.8 | 5 |
| OS-10 | SOOS-10-GW041811 | gross_beta | Total | 145 | NA | 7.9 | NA |
| OS-10 | SOOS-10-GW041811 | H-3 | Total | 63 U | 150 | 44 | 72 |
| OS-10 | SOOS-10-GW041811 | Ho-166m | Filtered | -0.16 U | 1.7 | 0.5 | 0.82 |
| OS-10 | SOOS-10-GW041811 | Ho-166m | Suspended | -0.01 U | 1 | 0.3 | 0.49 |
| OS-10 | SOOS-10-GW041811 | Ho-166m | Total | -0.18 | NA | 0.58 | NA |
| OS-10 | SOOS-10-GW041811 | K-40 | Filtered | -10.9 U | 20 | 9 | 9.4 |
| OS-10 | SOOS-10-GW041811 | K-40 | Suspended | 93.1 | 9.6 | 5.8 | 4.5 |
| OS-10 | SOOS-10-GW041811 | K-40 | Total | 82 | NA | 11 | NA |
| OS-10 | SOOS-10-GW041811 | Na-22 | Filtered | 0.22 U | 1.1 | 0.33 | 0.52 |
| OS-10 | SOOS-10-GW041811 | Na-22 | Suspended | 0.01 U | 0.83 | 0.24 | 0.39 |
| OS-10 | SOOS-10-GW041811 | Na-22 | Total | 0.23 | NA | 0.4 | NA |
| OS-10 | SOOS-10-GW041811 | Nb-94 | Filtered | -0.37 U | 1.2 | 0.35 | 0.55 |
| OS-10 | SOOS-10-GW041811 | Nb-94 | Suspended | 0.4 | 0.77 | 0.23 | 0.37 |
| OS-10 | SOOS-10-GW041811 | Nb-94 | Total | 0.03 | NA | 0.42 | NA |
| OS-10 | SOOS-10-GW041811 | Np-236 | Filtered | 0.19 U | 2.8 | 0.83 | 1.4 |
| OS-10 | SOOS-10-GW041811 | Np-236 | Suspended | 0.38 U | 1.2 | 0.36 | 0.59 |
| OS-10 | SOOS-10-GW041811 | Np-236 | Total | 0.56 | NA | 0.9 | NA |
| OS-10 | SOOS-10-GW041811 | Np-239 | Filtered | 1.9 U | 8.1 | 2.4 | 3.9 |
| OS-10 | SOOS-10-GW041811 | Np-239 | Suspended | 0.1 U | 4.6 | 1.4 | 2.2 |
| OS-10 | SOOS-10-GW041811 | Np-239 | Total | 2 | NA | 2.8 | NA |
| OS-10 | SOOS-10-GW041811 | Pa-231 | Filtered | 13 U | 51 | 15 | 25 |
| OS-10 | SOOS-10-GW041811 | Pa-231 | Suspended | 6.9 U | 29 | 8.7 | 14 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| OS-10 | SOOS-10-GW041811 | Pa-231 | Total | 20 | NA | 18 | NA |
| OS-10 | SOOS-10-GW041811 | Pb-212 | Filtered | 0.92 U | 2.2 | 0.66 | 1.1 |
| OS-10 | SOOS-10-GW041811 | Pb-212 | Suspended | 8.32 | 1.3 | 0.67 | 0.65 |
| OS-10 | SOOS-10-GW041811 | Pb-212 | Total | 9.24 | NA | 0.95 | NA |
| OS-10 | SOOS-10-GW041811 | Pb-214 | Filtered | 0.84 U | 2.4 | 0.86 | 1.2 |
| OS-10 | SOOS-10-GW041811 | Pb-214 | Suspended | 4.88 | 1.6 | 0.66 | 0.78 |
| OS-10 | SOOS-10-GW041811 | Pb-214 | Total | 5.7 | NA | 1.1 | NA |
| OS-10 | SOOS-10-GW041811 | Sb-125 | Filtered | -0.9 U | 13 | 3.8 | 6.2 |
| OS-10 | SOOS-10-GW041811 | Sb-125 | Suspended | -0.09 U | 6 | 1.8 | 2.9 |
| OS-10 | SOOS-10-GW041811 | Sb-125 | Total | -1 | NA | 4.2 | NA |
| OS-10 | SOOS-10-GW041811 | Sn-126 | Filtered | 0.22 U | 1.2 | 0.37 | 0.59 |
| OS-10 | SOOS-10-GW041811 | Sn-126 | Suspended | 0.44 | 0.91 | 0.28 | 0.44 |
| OS-10 | SOOS-10-GW041811 | Sn-126 | Total | 0.66 | NA | 0.46 | NA |
| OS-10 | SOOS-10-GW041811 | Sr-90 | Filtered | 0.079 | 0.13 | 0.039 | 0.072 |
| OS-10 | SOOS-10-GW041811 | Sr-90 | Suspended | 0.047 U | 0.12 | 0.037 | 0.066 |
| OS-10 | SOOS-10-GW041811 | Sr-90 | Total | 0.126 | NA | 0.054 | NA |
| OS-10 | SOOS-10-GW041811 | Te-125m | Filtered | -0.2 U | 2.9 | 0.87 | 1.4 |
| OS-10 | SOOS-10-GW041811 | Te-125m | Suspended | -0.02 U | 1.4 | 0.41 | 0.67 |
| OS-10 | SOOS-10-GW041811 | Te-125m | Total | -0.22 | NA | 0.96 | NA |
| OS-10 | SOOS-10-GW041811 | Th-231 | Filtered | 0.0007 U | 0.023 | 0.0044 | 0.0071 |
| OS-10 | SOOS-10-GW041811 | Th-231 | Suspended | 0.177 | 0.044 | 0.033 | 0.016 |
| OS-10 | SOOS-10-GW041811 | Th-231 | Total | 0.177 | NA | 0.033 | NA |
| OS-10 | SOOS-10-GW041811 | Th-234 | Filtered | -4.5 U | 23 | 7.8 | 11 |
| OS-10 | SOOS-10-GW041811 | Th-234 | Suspended | 7.9 | 8.6 | 2 | 4.2 |
| OS-10 | SOOS-10-GW041811 | Th-234 | Total | 3.4 | NA | 8 | NA |
| OS-10 | SOOS-10-GW041811 | Tl-208 | Filtered | 0.03 U | 1.4 | 0.5 | 0.69 |
| OS-10 | SOOS-10-GW041811 | Tl-208 | Suspended | 3.1 | 0.75 | 0.36 | 0.36 |
| OS-10 | SOOS-10-GW041811 | Tl-208 | Total | 3.13 | NA | 0.62 | NA |
| OS-10 | SOOS-10-GW041811 | Tm-171 | Filtered | 120 U | 350 | 110 | 170 |
| OS-10 | SOOS-10-GW041811 | Tm-171 | Suspended | 72 | 130 | 40 | 64 |
| OS-10 | SOOS-10-GW041811 | Tm-171 | Total | 190 | NA | 110 | NA |
| OS-10 | SOOS-10-GW041811 | U-233/234 | Filtered | 0.442 | 0.007 | 0.04 | 0.006 |
| OS-10 | SOOS-10-GW041811 | U-233/234 | Suspended | 3.23 | 0.03 | 0.18 | 0.009 |
| OS-10 | SOOS-10-GW041811 | U-233/234 | Total | 3.67 | NA | 0.18 | NA |
| OS-10 | SOOS-10-GW041811 | U-235/236 | Filtered | 0.0007 U | 0.023 | 0.0044 | 0.0071 |
| OS-10 | SOOS-10-GW041811 | U-235/236 | Suspended | 0.177 | 0.044 | 0.033 | 0.016 |
| OS-10 | SOOS-10-GW041811 | U-235/236 | Total | 0.177 | NA | 0.033 | NA |
| OS-10 | SOOS-10-GW041811 | U-238 | Filtered | 0.249 | 0.018 | 0.029 | 0.006 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| OS-10 | SOOS-10-GW041811 | U-238 | Suspended | 2.83 | 0.03 | 0.16 | 0.009 |
| OS-10 | SOOS-10-GW041811 | U-238 | Total | 3.08 | NA | 0.16 | NA |
| OS-2 | SOOS-02-GW041811 | Ac-227 | Filtered | 2 U | 8.7 | 2.6 | 4.3 |
| OS-2 | SOOS-02-GW041811 | Ac-227 | Suspended | -0.9 U | 4.2 | 1.3 | 2 |
| OS-2 | SOOS-02-GW041811 | Ac-227 | Total | 1.1 | NA | 2.9 | NA |
| OS-2 | SOOS-02-GW041811 | Ac-228 | Filtered | 2.6 | 3.1 | 1 | 1.5 |
| OS-2 | SOOS-02-GW041811 | Ac-228 | Suspended | -0.07 U | 2.9 | 0.82 | 1.4 |
| OS-2 | SOOS-02-GW041811 | Ac-228 | Total | 2.5 | NA | 1.3 | NA |
| OS-2 | SOOS-02-GW041811 | Ag-108 | Filtered | 0.049 R | 0.076 | 0.023 | 0.036 |
| OS-2 | SOOS-02-GW041811 | Ag-108 | Suspended | 0.001 U R | 0.052 | 0.015 | 0.025 |
| OS-2 | SOOS-02-GW041811 | Ag-108 | Total | 0.051 R | NA | 0.028 | NA |
| OS-2 | SOOS-02-GW041811 | Ag-108m | Filtered | 0.53 R | 0.81 | 0.25 | 0.39 |
| OS-2 | SOOS-02-GW041811 | Ag-108m | Suspended | 0.01 U R | 0.56 | 0.16 | 0.27 |
| OS-2 | SOOS-02-GW041811 | Ag-108m | Total | 0.54 R | NA | 0.3 | NA |
| OS-2 | SOOS-02-GW041811 | Ba-133 | Filtered | -2.7 U R | 12 | 3.7 | 5.9 |
| OS-2 | SOOS-02-GW041811 | Ba-133 | Suspended | -1.2 U R | 5.1 | 1.5 | 2.4 |
| OS-2 | SOOS-02-GW041811 | Ba-133 | Total | -4 R | NA | 4 | NA |
| OS-2 | SOOS-02-GW041811 | Ba-137m | Filtered | 0.13 U | 1 | 0.3 | 0.49 |
| OS-2 | SOOS-02-GW041811 | Ba-137m | Suspended | 0.31 | 0.64 | 0.2 | 0.31 |
| OS-2 | SOOS-02-GW041811 | Ba-137m | Total | 0.44 | NA | 0.36 | NA |
| OS-2 | SOOS-02-GW041811 | Bi-212 | Filtered | -1.6 U | 9 | 5.1 | 4.3 |
| OS-2 | SOOS-02-GW041811 | Bi-212 | Suspended | 1.4 U | 5.5 | 1.6 | 2.6 |
| OS-2 | SOOS-02-GW041811 | Bi-212 | Total | -0.2 | NA | 5.4 | NA |
| OS-2 | SOOS-02-GW041811 | Bi-214 | Filtered | 1.1 U | 2.7 | 1 | 1.3 |
| OS-2 | SOOS-02-GW041811 | Bi-214 | Suspended | 1.4 | 1.8 | 0.74 | 0.85 |
| OS-2 | SOOS-02-GW041811 | Bi-214 | Total | 2.5 | NA | 1.3 | NA |
| OS-2 | SOOS-02-GW041811 | Cd-113m | Filtered | 200 U | 13000 | 3700 | 6100 |
| OS-2 | SOOS-02-GW041811 | Cd-113m | Suspended | 0 U | 7300 | 2100 | 3500 |
| OS-2 | SOOS-02-GW041811 | Cd-113m | Total | 200 | NA | 4300 | NA |
| OS-2 | SOOS-02-GW041811 | Cf-249 | Filtered | -1.6 U R | 5.8 | 1.8 | 2.8 |
| OS-2 | SOOS-02-GW041811 | Cf-249 | Suspended | 0.06 U R | 3.3 | 0.97 | 1.6 |
| OS-2 | SOOS-02-GW041811 | Cf-249 | Total | -1.6 R | NA | 2 | NA |
| OS-2 | SOOS-02-GW041811 | Co-60 | Filtered | 0.07 U | 1.2 | 0.33 | 0.53 |
| OS-2 | SOOS-02-GW041811 | Co-60 | Suspended | 0 U | 0.83 | 0.24 | 0.39 |
| OS-2 | SOOS-02-GW041811 | Co-60 | Total | 0.07 | NA | 0.4 | NA |
| OS-2 | SOOS-02-GW041811 | Cs-134 | Filtered | -0.37 U | 1.3 | 0.38 | 0.61 |
| OS-2 | SOOS-02-GW041811 | Cs-134 | Suspended | 0 U | 1 | 0.31 | 0.51 |
| OS-2 | SOOS-02-GW041811 | Cs-134 | Total | -0.37 | NA | 0.49 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| OS-2 | SOOS-02-GW041811 | Cs-137 | Filtered | 0.14 U | 1.1 | 0.32 | 0.52 |
| OS-2 | SOOS-02-GW041811 | Cs-137 | Suspended | 0.33 | 0.68 | 0.21 | 0.32 |
| OS-2 | SOOS-02-GW041811 | Cs-137 | Total | 0.47 | NA | 0.38 | NA |
| OS-2 | SOOS-02-GW041811 | Eu-152 | Filtered | -0.27 U | 3.3 | 0.98 | 1.6 |
| OS-2 | SOOS-02-GW041811 | Eu-152 | Suspended | -0.16 U | 1.7 | 0.51 | 0.83 |
| OS-2 | SOOS-02-GW041811 | Eu-152 | Total | -0.4 | NA | 1.1 | NA |
| OS-2 | SOOS-02-GW041811 | Eu-154 | Filtered | -0.2 U | 7.7 | 2.2 | 3.6 |
| OS-2 | SOOS-02-GW041811 | Eu-154 | Suspended | -1.2 U | 5.6 | 1.7 | 2.6 |
| OS-2 | SOOS-02-GW041811 | Eu-154 | Total | -1.3 | NA | 2.7 | NA |
| OS-2 | SOOS-02-GW041811 | Eu-155 | Filtered | 0.88 U | 2.8 | 0.84 | 1.4 |
| OS-2 | SOOS-02-GW041811 | Eu-155 | Suspended | 0.009 U | 1.2 | 0.34 | 0.57 |
| OS-2 | SOOS-02-GW041811 | Eu-155 | Total | 0.89 | NA | 0.91 | NA |
| OS-2 | SOOS-02-GW041811 | gross_alpha | Filtered | 1.58 | 0.52 | 0.28 | 0.27 |
| OS-2 | SOOS-02-GW041811 | gross_alpha | Suspended | 0.65 | 0.46 | 0.18 | 0.24 |
| OS-2 | SOOS-02-GW041811 | gross_alpha | Total | 2.22 | NA | 0.34 | NA |
| OS-2 | SOOS-02-GW041811 | gross_beta | Filtered | 0.69 | 1 | 0.34 | 0.61 |
| OS-2 | SOOS-02-GW041811 | gross_beta | Suspended | -0.07 U | 0.83 | 0.24 | 0.49 |
| OS-2 | SOOS-02-GW041811 | gross_beta | Total | 0.62 | NA | 0.41 | NA |
| OS-2 | SOOS-02-GW041811 | H-3 | Total | 26 U | 150 | 43 | 71 |
| OS-2 | SOOS-02-GW041811 | Ho-166m | Filtered | -0.2 U | 1.8 | 0.51 | 0.83 |
| OS-2 | SOOS-02-GW041811 | Ho-166m | Suspended | 0.39 U | 1.1 | 0.33 | 0.51 |
| OS-2 | SOOS-02-GW041811 | Ho-166m | Total | 0.2 | NA | 0.61 | NA |
| OS-2 | SOOS-02-GW041811 | K-40 | Filtered | -6.8 U | 17 | 7.3 | 8.2 |
| OS-2 | SOOS-02-GW041811 | K-40 | Suspended | -6.3 U | 11 | 5.8 | 5.3 |
| OS-2 | SOOS-02-GW041811 | K-40 | Total | -13 | NA | 9.3 | NA |
| OS-2 | SOOS-02-GW041811 | Na-22 | Filtered | -0.04 U | 1.1 | 0.32 | 0.52 |
| OS-2 | SOOS-02-GW041811 | Na-22 | Suspended | -0.3 U | 0.69 | 0.21 | 0.32 |
| OS-2 | SOOS-02-GW041811 | Na-22 | Total | -0.34 | NA | 0.38 | NA |
| OS-2 | SOOS-02-GW041811 | Nb-94 | Filtered | -0.24 U | 1.1 | 0.31 | 0.5 |
| OS-2 | SOOS-02-GW041811 | Nb-94 | Suspended | 0.06 U | 0.69 | 0.2 | 0.33 |
| OS-2 | SOOS-02-GW041811 | Nb-94 | Total | -0.18 | NA | 0.37 | NA |
| OS-2 | SOOS-02-GW041811 | Np-236 | Filtered | -0.76 U | 2.7 | 0.82 | 1.3 |
| OS-2 | SOOS-02-GW041811 | Np-236 | Suspended | -0.04 U | 1.1 | 0.33 | 0.55 |
| OS-2 | SOOS-02-GW041811 | Np-236 | Total | -0.81 | NA | 0.88 | NA |
| OS-2 | SOOS-02-GW041811 | Np-239 | Filtered | 0.2 U | 6.6 | 1.9 | 3.2 |
| OS-2 | SOOS-02-GW041811 | Np-239 | Suspended | 0.53 U | 3.1 | 0.92 | 1.5 |
| OS-2 | SOOS-02-GW041811 | Np-239 | Total | 0.8 | NA | 2.2 | NA |
| OS-2 | SOOS-02-GW041811 | Pa-231 | Filtered | 13 U | 49 | 15 | 24 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| OS-2 | SOOS-02-GW041811 | Pa-231 | Suspended | -0.3 U | 28 | 8.1 | 13 |
| OS-2 | SOOS-02-GW041811 | Pa-231 | Total | 13 | NA | 17 | NA |
| OS-2 | SOOS-02-GW041811 | Pb-212 | Filtered | -0.13 U | 2.2 | 0.63 | 1.1 |
| OS-2 | SOOS-02-GW041811 | Pb-212 | Suspended | -0.03 U | 1 | 0.32 | 0.5 |
| OS-2 | SOOS-02-GW041811 | Pb-212 | Total | -0.16 | NA | 0.71 | NA |
| OS-2 | SOOS-02-GW041811 | Pb-214 | Filtered | 0.73 U | 2.7 | 0.75 | 1.3 |
| OS-2 | SOOS-02-GW041811 | Pb-214 | Suspended | 0.09 U | 1.5 | 0.52 | 0.72 |
| OS-2 | SOOS-02-GW041811 | Pb-214 | Total | 0.82 | NA | 0.92 | NA |
| OS-2 | SOOS-02-GW041811 | Sb-125 | Filtered | -0.7 U | 12 | 3.6 | 5.9 |
| OS-2 | SOOS-02-GW041811 | Sb-125 | Suspended | -0.004 U | 5.4 | 1.6 | 2.6 |
| OS-2 | SOOS-02-GW041811 | Sb-125 | Total | -0.7 | NA | 3.9 | NA |
| OS-2 | SOOS-02-GW041811 | Sn-126 | Filtered | -0.12 U | 1.3 | 0.38 | 0.62 |
| OS-2 | SOOS-02-GW041811 | Sn-126 | Suspended | 0.19 U | 0.82 | 0.24 | 0.39 |
| OS-2 | SOOS-02-GW041811 | Sn-126 | Total | 0.07 | NA | 0.45 | NA |
| OS-2 | SOOS-02-GW041811 | Sr-90 | Filtered | 0.04 U | 0.087 | 0.026 | 0.05 |
| OS-2 | SOOS-02-GW041811 | Sr-90 | Suspended | 0.025 U | 0.058 | 0.018 | 0.031 |
| OS-2 | SOOS-02-GW041811 | Sr-90 | Total | 0.065 | NA | 0.032 | NA |
| OS-2 | SOOS-02-GW041811 | Te-125m | Filtered | -0.16 U | 2.8 | 0.83 | 1.4 |
| OS-2 | SOOS-02-GW041811 | Te-125m | Suspended | -0.001 U | 1.3 | 0.37 | 0.61 |
| OS-2 | SOOS-02-GW041811 | Te-125m | Total | -0.16 | NA | 0.9 | NA |
| OS-2 | SOOS-02-GW041811 | Th-231 | Filtered | 0.0087 | 0.0078 | 0.005 | 0.006 |
| OS-2 | SOOS-02-GW041811 | Th-231 | Suspended | 0.0029 U | 0.016 | 0.004 | 0.0051 |
| OS-2 | SOOS-02-GW041811 | Th-231 | Total | 0.0116 | NA | 0.0064 | NA |
| OS-2 | SOOS-02-GW041811 | Th-234 | Filtered | 4.4 U | 21 | 6.9 | 10 |
| OS-2 | SOOS-02-GW041811 | Th-234 | Suspended | 0.3 U | 7.6 | 2.5 | 3.7 |
| OS-2 | SOOS-02-GW041811 | Th-234 | Total | 4.7 | NA | 7.4 | NA |
| OS-2 | SOOS-02-GW041811 | Tl-208 | Filtered | -0.05 U | 1.3 | 0.41 | 0.61 |
| OS-2 | SOOS-02-GW041811 | Tl-208 | Suspended | 0.76 | 0.77 | 0.33 | 0.37 |
| OS-2 | SOOS-02-GW041811 | Tl-208 | Total | 0.71 | NA | 0.52 | NA |
| OS-2 | SOOS-02-GW041811 | Tm-171 | Filtered | -10 U | 380 | 110 | 190 |
| OS-2 | SOOS-02-GW041811 | Tm-171 | Suspended | 14 U | 120 | 35 | 57 |
| OS-2 | SOOS-02-GW041811 | Tm-171 | Total | -0.4 | NA | 120 | NA |
| OS-2 | SOOS-02-GW041811 | U-233/234 | Filtered | 0.432 | 0.019 | 0.037 | 0.007 |
| OS-2 | SOOS-02-GW041811 | U-233/234 | Suspended | 0.026 | 0.019 | 0.0095 | 0.0071 |
| OS-2 | SOOS-02-GW041811 | U-233/234 | Total | 0.458 | NA | 0.038 | NA |
| OS-2 | SOOS-02-GW041811 | U-235/236 | Filtered | 0.0087 | 0.0078 | 0.005 | 0.006 |
| OS-2 | SOOS-02-GW041811 | U-235/236 | Suspended | 0.0029 U | 0.016 | 0.004 | 0.0051 |
| OS-2 | SOOS-02-GW041811 | U-235/236 | Total | 0.0116 | NA | 0.0064 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| OS-2 | SOOS-02-GW041811 | U-238 | Filtered | 0.083 | 0.006 | 0.015 | 0.005 |
| OS-2 | SOOS-02-GW041811 | U-238 | Suspended | 0.0059 | 0.0053 | 0.0052 | 0.0041 |
| OS-2 | SOOS-02-GW041811 | U-238 | Total | 0.089 | NA | 0.016 | NA |
| OS-3 | SOOS-03-GW042111 | Ac-227 | Filtered | -3.4 U | 9.1 | 2.7 | 4.4 |
| OS-3 | SOOS-03-GW042111 | Ac-227 | Suspended | -0.08 U | 4.3 | 1.3 | 2.1 |
| OS-3 | SOOS-03-GW042111 | Ac-227 | Total | -3.5 | NA | 3 | NA |
| OS-3 | SOOS-03-GW042111 | Ac-228 | Filtered | 4.4 | 4.4 | 1.5 | 2 |
| OS-3 | SOOS-03-GW042111 | Ac-228 | Suspended | 1.75 | 2.5 | 0.79 | 1.2 |
| OS-3 | SOOS-03-GW042111 | Ac-228 | Total | 6.2 | NA | 1.7 | NA |
| OS-3 | SOOS-03-GW042111 | Ag-108 | Filtered | -0.033 U R | 0.13 | 0.037 | 0.06 |
| OS-3 | SOOS-03-GW042111 | Ag-108 | Suspended | 0 U R | 0.061 | 0.018 | 0.029 |
| OS-3 | SOOS-03-GW042111 | Ag-108 | Total | -0.033 R | NA | 0.041 | NA |
| OS-3 | SOOS-03-GW042111 | Ag-108m | Filtered | -0.36 U R | 1.4 | 0.4 | 0.64 |
| OS-3 | SOOS-03-GW042111 | Ag-108m | Suspended | 0 U R | 0.65 | 0.19 | 0.31 |
| OS-3 | SOOS-03-GW042111 | Ag-108m | Total | -0.36 R | NA | 0.44 | NA |
| OS-3 | SOOS-03-GW042111 | Ba-133 | Filtered | -0.2 U R | 14 | 4.1 | 6.8 |
| OS-3 | SOOS-03-GW042111 | Ba-133 | Suspended | 0.4 U R | 6.9 | 2 | 3.3 |
| OS-3 | SOOS-03-GW042111 | Ba-133 | Total | 0.2 R | NA | 4.6 | NA |
| OS-3 | SOOS-03-GW042111 | Ba-137m | Filtered | 0.04 U | 1.2 | 0.33 | 0.53 |
| OS-3 | SOOS-03-GW042111 | Ba-137m | Suspended | 0.03 U | 0.67 | 0.19 | 0.31 |
| OS-3 | SOOS-03-GW042111 | Ba-137m | Total | 0.07 | NA | 0.38 | NA |
| OS-3 | SOOS-03-GW042111 | Bi-212 | Filtered | 0.2 U | 9.2 | 2.6 | 4.2 |
| OS-3 | SOOS-03-GW042111 | Bi-212 | Suspended | 3.8 | 5.2 | 1.6 | 2.4 |
| OS-3 | SOOS-03-GW042111 | Bi-212 | Total | 4 | NA | 3 | NA |
| OS-3 | SOOS-03-GW042111 | Bi-214 | Filtered | 0.4 U | 3.7 | 1 | 1.8 |
| OS-3 | SOOS-03-GW042111 | Bi-214 | Suspended | 1.73 | 1.6 | 0.61 | 0.78 |
| OS-3 | SOOS-03-GW042111 | Bi-214 | Total | 2.1 | NA | 1.2 | NA |
| OS-3 | SOOS-03-GW042111 | Cd-113m | Filtered | 3500 U | 17000 | 5000 | 8000 |
| OS-3 | SOOS-03-GW042111 | Cd-113m | Suspended | 1800 U | 7700 | 2300 | 3700 |
| OS-3 | SOOS-03-GW042111 | Cd-113m | Total | 5300 | NA | 5500 | NA |
| OS-3 | SOOS-03-GW042111 | Cf-249 | Filtered | 0.08 U R | 6.9 | 2 | 3.3 |
| OS-3 | SOOS-03-GW042111 | Cf-249 | Suspended | 0.19 U R | 3.3 | 0.95 | 1.6 |
| OS-3 | SOOS-03-GW042111 | Cf-249 | Total | 0.3 R | NA | 2.2 | NA |
| OS-3 | SOOS-03-GW042111 | Co-60 | Filtered | 0.22 U | 1.6 | 0.46 | 0.74 |
| OS-3 | SOOS-03-GW042111 | Co-60 | Suspended | -0.08 U | 0.82 | 0.23 | 0.37 |
| OS-3 | SOOS-03-GW042111 | Co-60 | Total | 0.13 | NA | 0.52 | NA |
| OS-3 | SOOS-03-GW042111 | Cs-134 | Filtered | -0.33 U | 0.87 | 0.26 | 0.39 |
| OS-3 | SOOS-03-GW042111 | Cs-134 | Suspended | -0.008 U | 0.73 | 0.21 | 0.35 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| OS-3 | SOOS-03-GW042111 | Cs-134 | Total | -0.34 | NA | 0.33 | NA |
| OS-3 | SOOS-03-GW042111 | Cs-137 | Filtered | 0.04 U | 1.2 | 0.34 | 0.56 |
| OS-3 | SOOS-03-GW042111 | Cs-137 | Suspended | 0.04 U | 0.71 | 0.2 | 0.33 |
| OS-3 | SOOS-03-GW042111 | Cs-137 | Total | 0.08 | NA | 0.4 | NA |
| OS-3 | SOOS-03-GW042111 | Eu-152 | Filtered | -0.1 U | 4.2 | 1.2 | 2 |
| OS-3 | SOOS-03-GW042111 | Eu-152 | Suspended | -0.13 U | 1.8 | 0.52 | 0.86 |
| OS-3 | SOOS-03-GW042111 | Eu-152 | Total | -0.2 | NA | 1.3 | NA |
| OS-3 | SOOS-03-GW042111 | Eu-154 | Filtered | -1 U | 12 | 3.4 | 5.5 |
| OS-3 | SOOS-03-GW042111 | Eu-154 | Suspended | -1.1 U | 6.8 | 2 | 3.2 |
| OS-3 | SOOS-03-GW042111 | Eu-154 | Total | -2.1 | NA | 3.9 | NA |
| OS-3 | SOOS-03-GW042111 | Eu-155 | Filtered | 0.54 U | 3 | 0.89 | 1.4 |
| OS-3 | SOOS-03-GW042111 | Eu-155 | Suspended | 0.15 U | 1.4 | 0.42 | 0.69 |
| OS-3 | SOOS-03-GW042111 | Eu-155 | Total | 0.69 | NA | 0.99 | NA |
| OS-3 | SOOS-03-GW042111 | gross_alpha | Filtered | 0.52 | 0.37 | 0.15 | 0.19 |
| OS-3 | SOOS-03-GW042111 | gross_alpha | Suspended | 1.13 | 1.5 | 0.51 | 0.77 |
| OS-3 | SOOS-03-GW042111 | gross_alpha | Total | 1.66 | NA | 0.53 | NA |
| OS-3 | SOOS-03-GW042111 | gross_beta | Filtered | 4.34 | 2.6 | 0.94 | 1.6 |
| OS-3 | SOOS-03-GW042111 | gross_beta | Suspended | 0.25 U | 0.82 | 0.25 | 0.48 |
| OS-3 | SOOS-03-GW042111 | gross_beta | Total | 4.59 | NA | 0.97 | NA |
| OS-3 | SOOS-03-GW042111 | H-3 | Total | -24 U | 170 | 50 | 83 |
| OS-3 | SOOS-03-GW042111 | Ho-166m | Filtered | -0.26 U | 2.2 | 0.62 | 1 |
| OS-3 | SOOS-03-GW042111 | Ho-166m | Suspended | -0.02 U | 1.2 | 0.34 | 0.57 |
| OS-3 | SOOS-03-GW042111 | Ho-166m | Total | -0.28 | NA | 0.71 | NA |
| OS-3 | SOOS-03-GW042111 | K-40 | Filtered | 7.1 U | 18 | 4.7 | 8.2 |
| OS-3 | SOOS-03-GW042111 | K-40 | Suspended | 2.5 U | 10 | 2.4 | 4.7 |
| OS-3 | SOOS-03-GW042111 | K-40 | Total | 9.6 | NA | 5.3 | NA |
| OS-3 | SOOS-03-GW042111 | Na-22 | Filtered | 0.14 U | 1.6 | 0.45 | 0.72 |
| OS-3 | SOOS-03-GW042111 | Na-22 | Suspended | -0.12 U | 0.91 | 0.26 | 0.42 |
| OS-3 | SOOS-03-GW042111 | Na-22 | Total | 0.02 | NA | 0.52 | NA |
| OS-3 | SOOS-03-GW042111 | Nb-94 | Filtered | -0.16 U | 1.4 | 0.41 | 0.66 |
| OS-3 | SOOS-03-GW042111 | Nb-94 | Suspended | -0.13 U | 0.71 | 0.21 | 0.33 |
| OS-3 | SOOS-03-GW042111 | Nb-94 | Total | -0.28 | NA | 0.46 | NA |
| OS-3 | SOOS-03-GW042111 | Np-236 | Filtered | 0.04 U | 3.2 | 0.94 | 1.5 |
| OS-3 | SOOS-03-GW042111 | Np-236 | Suspended | 0.29 U | 1.3 | 0.4 | 0.65 |
| OS-3 | SOOS-03-GW042111 | Np-236 | Total | 0.3 | NA | 1 | NA |
| OS-3 | SOOS-03-GW042111 | Np-239 | Filtered | -0.2 U | 8.4 | 2.5 | 4 |
| OS-3 | SOOS-03-GW042111 | Np-239 | Suspended | 0.7 U | 3.9 | 1.1 | 1.9 |
| OS-3 | SOOS-03-GW042111 | Np-239 | Total | 0.5 | NA | 2.7 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| OS-3 | SOOS-03-GW042111 | Pa-231 | Filtered | 20 U | 59 | 18 | 28 |
| OS-3 | SOOS-03-GW042111 | Pa-231 | Suspended | -0.7 U | 26 | 7.7 | 13 |
| OS-3 | SOOS-03-GW042111 | Pa-231 | Total | 19 | NA | 19 | NA |
| OS-3 | SOOS-03-GW042111 | Pb-212 | Filtered | -0.36 U | 2.3 | 0.84 | 1.1 |
| OS-3 | SOOS-03-GW042111 | Pb-212 | Suspended | 0.55 U | 1.2 | 0.4 | 0.58 |
| OS-3 | SOOS-03-GW042111 | Pb-212 | Total | 0.19 | NA | 0.93 | NA |
| OS-3 | SOOS-03-GW042111 | Pb-214 | Filtered | 0.82 U | 2.9 | 0.91 | 1.4 |
| OS-3 | SOOS-03-GW042111 | Pb-214 | Suspended | 0.66 U | 1.4 | 0.51 | 0.69 |
| OS-3 | SOOS-03-GW042111 | Pb-214 | Total | 1.5 | NA | 1 | NA |
| OS-3 | SOOS-03-GW042111 | Sb-125 | Filtered | -4.7 U | 13 | 4 | 6.3 |
| OS-3 | SOOS-03-GW042111 | Sb-125 | Suspended | 0.4 U | 6.1 | 1.8 | 3 |
| OS-3 | SOOS-03-GW042111 | Sb-125 | Total | -4.3 | NA | 4.4 | NA |
| OS-3 | SOOS-03-GW042111 | Sn-126 | Filtered | -0.32 U | 1.5 | 0.44 | 0.7 |
| OS-3 | SOOS-03-GW042111 | Sn-126 | Suspended | 0.31 U | 0.78 | 0.23 | 0.37 |
| OS-3 | SOOS-03-GW042111 | Sn-126 | Total | -0.01 | NA | 0.5 | NA |
| OS-3 | SOOS-03-GW042111 | Sr-90 | Filtered | 0.009 U | 0.1 | 0.029 | 0.056 |
| OS-3 | SOOS-03-GW042111 | Sr-90 | Suspended | 0.029 U | 0.059 | 0.018 | 0.032 |
| OS-3 | SOOS-03-GW042111 | Sr-90 | Total | 0.095 | NA | 0.041 | NA |
| OS-3 | SOOS-03-GW042111 | Te-125m | Filtered | -1.09 U | 3 | 0.92 | 1.5 |
| OS-3 | SOOS-03-GW042111 | Te-125m | Suspended | 0.1 U | 1.4 | 0.42 | 0.68 |
| OS-3 | SOOS-03-GW042111 | Te-125m | Total | -1 | NA | 1 | NA |
| OS-3 | SOOS-03-GW042111 | Th-231 | Filtered | 0 U | 0.0068 | 0.002 | 0.0052 |
| OS-3 | SOOS-03-GW042111 | Th-231 | Suspended | 0 U | 0.0069 | 0.002 | 0.0053 |
| OS-3 | SOOS-03-GW042111 | Th-231 | Total | 0 | NA | 0.0029 | NA |
| OS-3 | SOOS-03-GW042111 | Th-234 | Filtered | 20.3 | 22 | 7.8 | 11 |
| OS-3 | SOOS-03-GW042111 | Th-234 | Suspended | 3.5 U | 8.6 | 2.9 | 4.2 |
| OS-3 | SOOS-03-GW042111 | Th-234 | Total | 23.8 | NA | 8.3 | NA |
| OS-3 | SOOS-03-GW042111 | Tl-208 | Filtered | 0.06 U | 1.8 | 0.46 | 0.83 |
| OS-3 | SOOS-03-GW042111 | Tl-208 | Suspended | -0.1 U | 0.86 | 0.28 | 0.41 |
| OS-3 | SOOS-03-GW042111 | Tl-208 | Total | -0.03 | NA | 0.53 | NA |
| OS-3 | SOOS-03-GW042111 | Tm-171 | Filtered | -5 U | 260 | 76 | 120 |
| OS-3 | SOOS-03-GW042111 | Tm-171 | Suspended | -49 U | 130 | 40 | 64 |
| OS-3 | SOOS-03-GW042111 | Tm-171 | Total | -54 | NA | 86 | NA |
| OS-3 | SOOS-03-GW042111 | U-233/234 | Filtered | 0.271 | 0.017 | 0.027 | 0.006 |
| OS-3 | SOOS-03-GW042111 | U-233/234 | Suspended | -0.0001 U | 0.014 | 0.0053 | 0.0043 |
| OS-3 | SOOS-03-GW042111 | U-233/234 | Total | 0.27 | NA | 0.027 | NA |
| OS-3 | SOOS-03-GW042111 | U-235/236 | Filtered | 0 U | 0.0068 | 0.002 | 0.0052 |
| OS-3 | SOOS-03-GW042111 | U-235/236 | Suspended | 0 U | 0.0069 | 0.002 | 0.0053 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| OS-3 | SOOS-03-GW042111 | U-235/236 | Total | 0 | NA | 0.0029 | NA |
| OS-3 | SOOS-03-GW042111 | U-238 | Filtered | 0.092 | 0.005 | 0.015 | 0.004 |
| OS-3 | SOOS-03-GW042111 | U-238 | Suspended | -0.0055 U | 0.014 | 0.0033 | 0.0043 |
| OS-3 | SOOS-03-GW042111 | U-238 | Total | 0.086 | NA | 0.015 | NA |
| OS-4 | SOOS-04-GW042111 | Ac-227 | Filtered | 0.2 U | 11 | 3.4 | 5.6 |
| OS-4 | SOOS-04-GW042111 | Ac-227 | Suspended | -1.4 U | 4.4 | 1.3 | 2.1 |
| OS-4 | SOOS-04-GW042111 | Ac-227 | Total | -1.2 | NA | 3.7 | NA |
| OS-4 | SOOS-04-GW042111 | Ac-228 | Filtered | 2.9 | 3.8 | 1.2 | 1.8 |
| OS-4 | SOOS-04-GW042111 | Ac-228 | Suspended | -0.8 U | 2.7 | 1.3 | 1.3 |
| OS-4 | SOOS-04-GW042111 | Ac-228 | Total | 2.1 | NA | 1.8 | NA |
| OS-4 | SOOS-04-GW042111 | Ag-108 | Filtered | 0.03 U R | 0.078 | 0.023 | 0.037 |
| OS-4 | SOOS-04-GW042111 | Ag-108 | Suspended | 0.016 U R | 0.052 | 0.016 | 0.025 |
| OS-4 | SOOS-04-GW042111 | Ag-108 | Total | 0.046 R | NA | 0.028 | NA |
| OS-4 | SOOS-04-GW042111 | Ag-108m | Filtered | 0.33 U R | 0.83 | 0.25 | 0.4 |
| OS-4 | SOOS-04-GW042111 | Ag-108m | Suspended | 0.17 U R | 0.56 | 0.17 | 0.27 |
| OS-4 | SOOS-04-GW042111 | Ag-108m | Total | 0.5 R | NA | 0.3 | NA |
| OS-4 | SOOS-04-GW042111 | Ba-133 | Filtered | -0.1 U R | 12 | 3.5 | 5.7 |
| OS-4 | SOOS-04-GW042111 | Ba-133 | Suspended | 0.5 U R | 6.1 | 1.8 | 3 |
| OS-4 | SOOS-04-GW042111 | Ba-133 | Total | 0.4 R | NA | 3.9 | NA |
| OS-4 | SOOS-04-GW042111 | Ba-137m | Filtered | -0.16 U | 1 | 0.3 | 0.48 |
| OS-4 | SOOS-04-GW042111 | Ba-137m | Suspended | 0.26 U | 0.57 | 0.17 | 0.27 |
| OS-4 | SOOS-04-GW042111 | Ba-137m | Total | 0.1 | NA | 0.35 | NA |
| OS-4 | SOOS-04-GW042111 | Bi-212 | Filtered | 5.4 | 7.6 | 2.4 | 3.5 |
| OS-4 | SOOS-04-GW042111 | Bi-212 | Suspended | 1 U | 5.9 | 1.7 | 2.8 |
| OS-4 | SOOS-04-GW042111 | Bi-212 | Total | 6.5 | NA | 2.9 | NA |
| OS-4 | SOOS-04-GW042111 | Bi-214 | Filtered | 3.3 | 2.6 | 1.2 | 1.2 |
| OS-4 | SOOS-04-GW042111 | Bi-214 | Suspended | 0.94 | 1.7 | 0.65 | 0.81 |
| OS-4 | SOOS-04-GW042111 | Bi-214 | Total | 4.3 | NA | 1.3 | NA |
| OS-4 | SOOS-04-GW042111 | Cd-113m | Filtered | 1200 U | 14000 | 4100 | 6700 |
| OS-4 | SOOS-04-GW042111 | Cd-113m | Suspended | 1600 U | 7400 | 2200 | 3600 |
| OS-4 | SOOS-04-GW042111 | Cd-113m | Total | 2800 | NA | 4700 | NA |
| OS-4 | SOOS-04-GW042111 | Cf-249 | Filtered | -0.7 U R | 5.5 | 1.6 | 2.7 |
| OS-4 | SOOS-04-GW042111 | Cf-249 | Suspended | -0.03 U R | 3.3 | 0.98 | 1.6 |
| OS-4 | SOOS-04-GW042111 | Cf-249 | Total | -0.8 R | NA | 1.9 | NA |
| OS-4 | SOOS-04-GW042111 | Co-60 | Filtered | -0.23 U | 1.2 | 0.36 | 0.58 |
| OS-4 | SOOS-04-GW042111 | Co-60 | Suspended | 0.06 U | 0.76 | 0.22 | 0.35 |
| OS-4 | SOOS-04-GW042111 | Co-60 | Total | -0.17 | NA | 0.42 | NA |
| OS-4 | SOOS-04-GW042111 | Cs-134 | Filtered | -0.24 U | 1.1 | 0.32 | 0.52 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| OS-4 | SOOS-04-GW042111 | Cs-134 | Suspended | 0.14 U | 0.69 | 0.2 | 0.33 |
| OS-4 | SOOS-04-GW042111 | Cs-134 | Total | -0.1 | NA | 0.38 | NA |
| OS-4 | SOOS-04-GW042111 | Cs-137 | Filtered | -0.17 U | 1.1 | 0.32 | 0.51 |
| OS-4 | SOOS-04-GW042111 | Cs-137 | Suspended | 0.27 U | 0.61 | 0.18 | 0.29 |
| OS-4 | SOOS-04-GW042111 | Cs-137 | Total | 0.11 | NA | 0.37 | NA |
| OS-4 | SOOS-04-GW042111 | Eu-152 | Filtered | 0.97 U | 3.2 | 0.95 | 1.5 |
| OS-4 | SOOS-04-GW042111 | Eu-152 | Suspended | 0.25 U | 1.8 | 0.54 | 0.88 |
| OS-4 | SOOS-04-GW042111 | Eu-152 | Total | 1.2 | NA | 1.1 | NA |
| OS-4 | SOOS-04-GW042111 | Eu-154 | Filtered | 0 U | 11 | 3.1 | 5.1 |
| OS-4 | SOOS-04-GW042111 | Eu-154 | Suspended | 1.9 U | 5.1 | 1.5 | 2.4 |
| OS-4 | SOOS-04-GW042111 | Eu-154 | Total | 1.9 | NA | 3.4 | NA |
| OS-4 | SOOS-04-GW042111 | Eu-155 | Filtered | 0.01 U | 3.1 | 0.92 | 1.5 |
| OS-4 | SOOS-04-GW042111 | Eu-155 | Suspended | -0.19 U | 1.3 | 0.38 | 0.62 |
| OS-4 | SOOS-04-GW042111 | Eu-155 | Total | -0.17 | NA | 0.99 | NA |
| OS-4 | SOOS-04-GW042111 | gross_alpha | Filtered | 0.92 | 0.48 | 0.22 | 0.24 |
| OS-4 | SOOS-04-GW042111 | gross_alpha | Suspended | 0.77 | 1.1 | 0.36 | 0.6 |
| OS-4 | SOOS-04-GW042111 | gross_alpha | Total | 1.68 | NA | 0.43 | NA |
| OS-4 | SOOS-04-GW042111 | gross_beta | Filtered | 3.5 | 2.9 | 1 | 1.7 |
| OS-4 | SOOS-04-GW042111 | gross_beta | Suspended | 0.46 | 0.75 | 0.24 | 0.44 |
| OS-4 | SOOS-04-GW042111 | gross_beta | Total | 4 | NA | 1 | NA |
| OS-4 | SOOS-04-GW042111 | H-3 | Total | -61 U | 170 | 49 | 84 |
| OS-4 | SOOS-04-GW042111 | Ho-166m | Filtered | 0.01 U | 1.6 | 0.47 | 0.77 |
| OS-4 | SOOS-04-GW042111 | Ho-166m | Suspended | -0.23 U | 1.3 | 0.38 | 0.61 |
| OS-4 | SOOS-04-GW042111 | Ho-166m | Total | -0.22 | NA | 0.6 | NA |
| OS-4 | SOOS-04-GW042111 | K-40 | Filtered | 12.4 | 17 | 5.3 | 8.2 |
| OS-4 | SOOS-04-GW042111 | K-40 | Suspended | 11.5 | 9.8 | 3.5 | 4.6 |
| OS-4 | SOOS-04-GW042111 | K-40 | Total | 23.9 | NA | 6.4 | NA |
| OS-4 | SOOS-04-GW042111 | Na-22 | Filtered | 0.03 U | 1.1 | 0.32 | 0.53 |
| OS-4 | SOOS-04-GW042111 | Na-22 | Suspended | 0.05 U | 0.73 | 0.21 | 0.34 |
| OS-4 | SOOS-04-GW042111 | Na-22 | Total | 0.08 | NA | 0.38 | NA |
| OS-4 | SOOS-04-GW042111 | Nb-94 | Filtered | 0.17 U | 1.1 | 0.32 | 0.52 |
| OS-4 | SOOS-04-GW042111 | Nb-94 | Suspended | -0.005 U | 0.63 | 0.18 | 0.3 |
| OS-4 | SOOS-04-GW042111 | Nb-94 | Total | 0.17 | NA | 0.37 | NA |
| OS-4 | SOOS-04-GW042111 | Np-236 | Filtered | 0.57 U | 2.8 | 0.84 | 1.4 |
| OS-4 | SOOS-04-GW042111 | Np-236 | Suspended | -0.19 U | 1.2 | 0.37 | 0.6 |
| OS-4 | SOOS-04-GW042111 | Np-236 | Total | 0.39 | NA | 0.92 | NA |
| OS-4 | SOOS-04-GW042111 | Np-239 | Filtered | 0.6 U | 6.6 | 1.9 | 3.2 |
| OS-4 | SOOS-04-GW042111 | Np-239 | Suspended | 1.32 | 2.8 | 0.84 | 1.3 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| OS-4 | SOOS-04-GW042111 | Np-239 | Total | 2 | NA | 2.1 | NA |
| OS-4 | SOOS-04-GW042111 | Pa-231 | Filtered | -7 U | 53 | 16 | 26 |
| OS-4 | SOOS-04-GW042111 | Pa-231 | Suspended | -8.9 U | 27 | 8.2 | 13 |
| OS-4 | SOOS-04-GW042111 | Pa-231 | Total | -16 | NA | 18 | NA |
| OS-4 | SOOS-04-GW042111 | Pb-212 | Filtered | 0.35 U | 2.5 | 0.85 | 1.2 |
| OS-4 | SOOS-04-GW042111 | Pb-212 | Suspended | 0.42 U | 1.2 | 0.41 | 0.56 |
| OS-4 | SOOS-04-GW042111 | Pb-212 | Total | 0.77 | NA | 0.94 | NA |
| OS-4 | SOOS-04-GW042111 | Pb-214 | Filtered | 0.16 U | 2.8 | 0.75 | 1.3 |
| OS-4 | SOOS-04-GW042111 | Pb-214 | Suspended | -0.33 U | 1.4 | 0.53 | 0.66 |
| OS-4 | SOOS-04-GW042111 | Pb-214 | Total | -0.17 | NA | 0.92 | NA |
| OS-4 | SOOS-04-GW042111 | Sb-125 | Filtered | -0.6 U | 13 | 3.7 | 6.1 |
| OS-4 | SOOS-04-GW042111 | Sb-125 | Suspended | 0.5 U | 5.5 | 1.6 | 2.7 |
| OS-4 | SOOS-04-GW042111 | Sb-125 | Total | -0.1 | NA | 4.1 | NA |
| OS-4 | SOOS-04-GW042111 | Sn-126 | Filtered | 0.18 U | 1.2 | 0.36 | 0.59 |
| OS-4 | SOOS-04-GW042111 | Sn-126 | Suspended | 0.36 | 0.74 | 0.23 | 0.35 |
| OS-4 | SOOS-04-GW042111 | Sn-126 | Total | 0.54 | NA | 0.43 | NA |
| OS-4 | SOOS-04-GW042111 | Sr-90 | Filtered | 0.057 U | 0.11 | 0.033 | 0.06 |
| OS-4 | SOOS-04-GW042111 | Sr-90 | Suspended | 0.013 U | 0.052 | 0.015 | 0.029 |
| OS-4 | SOOS-04-GW042111 | Sr-90 | Total | 0.069 | NA | 0.044 | NA |
| OS-4 | SOOS-04-GW042111 | Te-125m | Filtered | -0.14 U | 2.9 | 0.86 | 1.4 |
| OS-4 | SOOS-04-GW042111 | Te-125m | Suspended | 0.12 U | 1.3 | 0.38 | 0.62 |
| OS-4 | SOOS-04-GW042111 | Te-125m | Total | -0.03 | NA | 0.94 | NA |
| OS-4 | SOOS-04-GW042111 | Th-231 | Filtered | 0.0153 | 0.0069 | 0.0063 | 0.0053 |
| OS-4 | SOOS-04-GW042111 | Th-231 | Suspended | 0.0011 U | 0.023 | 0.005 | 0.0081 |
| OS-4 | SOOS-04-GW042111 | Th-231 | Total | 0.0164 | NA | 0.008 | NA |
| OS-4 | SOOS-04-GW042111 | Th-234 | Filtered | -7.6 U | 24 | 9.8 | 12 |
| OS-4 | SOOS-04-GW042111 | Th-234 | Suspended | 0.6 U | 7.9 | 2.7 | 3.9 |
| OS-4 | SOOS-04-GW042111 | Th-234 | Total | -7 | NA | 10 | NA |
| OS-4 | SOOS-04-GW042111 | Tl-208 | Filtered | -0.72 U | 1.6 | 0.88 | 0.76 |
| OS-4 | SOOS-04-GW042111 | Tl-208 | Suspended | 0.56 | 0.73 | 0.3 | 0.35 |
| OS-4 | SOOS-04-GW042111 | Tl-208 | Total | -0.16 | NA | 0.93 | NA |
| OS-4 | SOOS-04-GW042111 | Tm-171 | Filtered | 90 U | 340 | 100 | 160 |
| OS-4 | SOOS-04-GW042111 | Tm-171 | Suspended | 12 U | 120 | 35 | 57 |
| OS-4 | SOOS-04-GW042111 | Tm-171 | Total | 100 | NA | 110 | NA |
| OS-4 | SOOS-04-GW042111 | U-233/234 | Filtered | 0.507 | 0.006 | 0.039 | 0.004 |
| OS-4 | SOOS-04-GW042111 | U-233/234 | Suspended | 0.003 U | 0.015 | 0.0061 | 0.0046 |
| OS-4 | SOOS-04-GW042111 | U-233/234 | Total | 0.509 | NA | 0.039 | NA |
| OS-4 | SOOS-04-GW042111 | U-235/236 | Filtered | 0.0153 | 0.0069 | 0.0063 | 0.0053 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| OS-4 | SOOS-04-GW042111 | U-235/236 | Suspended | 0.0011 U | 0.023 | 0.005 | 0.0081 |
| OS-4 | SOOS-04-GW042111 | U-235/236 | Total | 0.0164 | NA | 0.008 | NA |
| OS-4 | SOOS-04-GW042111 | U-238 | Filtered | 0.191 | 0.006 | 0.022 | 0.004 |
| OS-4 | SOOS-04-GW042111 | U-238 | Suspended | 0.0009 U | 0.006 | 0.0044 | 0.0046 |
| OS-4 | SOOS-04-GW042111 | U-238 | Total | 0.192 | NA | 0.022 | NA |
| OS-9 | SOOS-09-GW041811 | Ac-227 | Filtered | -7.6 L U | 12 | 3.7 | 5.9 |
| OS-9 | SOOS-09-GW041811 | Ac-227 | Suspended | -0.1 U | 4.6 | 1.4 | 2.2 |
| OS-9 | SOOS-09-GW041811 | Ac-227 | Total | -7.7 | NA | 4 | NA |
| OS-9 | SOOS-09-GW041811 | Ac-228 | Filtered | 2.7 | 5.1 | 1.6 | 2.4 |
| OS-9 | SOOS-09-GW041811 | Ac-228 | Suspended | 1.34 U | 3.1 | 0.86 | 1.5 |
| OS-9 | SOOS-09-GW041811 | Ac-228 | Total | 4 | NA | 1.8 | NA |
| OS-9 | SOOS-09-GW041811 | Ag-108 | Filtered | 0.004 U R | 0.11 | 0.032 | 0.053 |
| OS-9 | SOOS-09-GW041811 | Ag-108 | Suspended | -0.005 U R | 0.057 | 0.017 | 0.027 |
| OS-9 | SOOS-09-GW041811 | Ag-108 | Total | -0.0008 R | NA | 0.036 | NA |
| OS-9 | SOOS-09-GW041811 | Ag-108m | Filtered | 0.05 U R | 1.2 | 0.35 | 0.57 |
| OS-9 | SOOS-09-GW041811 | Ag-108m | Suspended | -0.06 U R | 0.61 | 0.18 | 0.3 |
| OS-9 | SOOS-09-GW041811 | Ag-108m | Total | -0.009 R | NA | 0.39 | NA |
| OS-9 | SOOS-09-GW041811 | Ba-133 | Filtered | -0.2 U R | 13 | 3.7 | 6 |
| OS-9 | SOOS-09-GW041811 | Ba-133 | Suspended | -0.8 U R | 6.4 | 1.9 | 3.1 |
| OS-9 | SOOS-09-GW041811 | Ba-133 | Total | -1 R | NA | 4.1 | NA |
| OS-9 | SOOS-09-GW041811 | Ba-137m | Filtered | -0.009 U | 1.4 | 0.39 | 0.63 |
| OS-9 | SOOS-09-GW041811 | Ba-137m | Suspended | 0.11 U | 0.72 | 0.21 | 0.34 |
| OS-9 | SOOS-09-GW041811 | Ba-137m | Total | 0.1 | NA | 0.44 | NA |
| OS-9 | SOOS-09-GW041811 | Bi-212 | Filtered | 8.4 | 13 | 3.9 | 6 |
| OS-9 | SOOS-09-GW041811 | Bi-212 | Suspended | 2.3 U | 5.6 | 1.7 | 2.6 |
| OS-9 | SOOS-09-GW041811 | Bi-212 | Total | 10.6 | NA | 4.3 | NA |
| OS-9 | SOOS-09-GW041811 | Bi-214 | Filtered | 4.7 | 3.6 | 1.5 | 1.7 |
| OS-9 | SOOS-09-GW041811 | Bi-214 | Suspended | 2.28 | 1.5 | 0.56 | 0.71 |
| OS-9 | SOOS-09-GW041811 | Bi-214 | Total | 7 | NA | 1.6 | NA |
| OS-9 | SOOS-09-GW041811 | Cd-113m | Filtered | 2200 U | 19000 | 5500 | 9000 |
| OS-9 | SOOS-09-GW041811 | Cd-113m | Suspended | -1400 U | 7500 | 2200 | 3600 |
| OS-9 | SOOS-09-GW041811 | Cd-113m | Total | 900 | NA | 5900 | NA |
| OS-9 | SOOS-09-GW041811 | Cf-249 | Filtered | -1.3 U R | 7.4 | 2.2 | 3.6 |
| OS-9 | SOOS-09-GW041811 | Cf-249 | Suspended | 0.009 U R | 3.2 | 0.95 | 1.6 |
| OS-9 | SOOS-09-GW041811 | Cf-249 | Total | -1.3 R | NA | 2.4 | NA |
| OS-9 | SOOS-09-GW041811 | Co-60 | Filtered | 0.002 U | 1.5 | 0.42 | 0.69 |
| OS-9 | SOOS-09-GW041811 | Co-60 | Suspended | 0 U | 0.63 | 0.18 | 0.29 |
| OS-9 | SOOS-09-GW041811 | Co-60 | Total | 0.002 | NA | 0.45 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| OS-9 | SOOS-09-GW041811 | Cs-134 | Filtered | -0.56 U | 1.7 | 0.51 | 0.82 |
| OS-9 | SOOS-09-GW041811 | Cs-134 | Suspended | 0.04 U | 0.76 | 0.22 | 0.37 |
| OS-9 | SOOS-09-GW041811 | Cs-134 | Total | -0.52 | NA | 0.56 | NA |
| OS-9 | SOOS-09-GW041811 | Cs-137 | Filtered | -0.01 U | 1.4 | 0.41 | 0.67 |
| OS-9 | SOOS-09-GW041811 | Cs-137 | Suspended | 0.12 U | 0.76 | 0.22 | 0.36 |
| OS-9 | SOOS-09-GW041811 | Cs-137 | Total | 0.11 | NA | 0.46 | NA |
| OS-9 | SOOS-09-GW041811 | Eu-152 | Filtered | -0.6 U | 4.1 | 1.2 | 2 |
| OS-9 | SOOS-09-GW041811 | Eu-152 | Suspended | 0.63 U | 1.7 | 0.51 | 0.81 |
| OS-9 | SOOS-09-GW041811 | Eu-152 | Total | 0.04 | NA | 1.3 | NA |
| OS-9 | SOOS-09-GW041811 | Eu-154 | Filtered | 3.1 U | 12 | 3.4 | 5.4 |
| OS-9 | SOOS-09-GW041811 | Eu-154 | Suspended | -1 U | 6.2 | 1.8 | 2.9 |
| OS-9 | SOOS-09-GW041811 | Eu-154 | Total | 2.1 | NA | 3.9 | NA |
| OS-9 | SOOS-09-GW041811 | Eu-155 | Filtered | 0.3 U | 3.5 | 1 | 1.7 |
| OS-9 | SOOS-09-GW041811 | Eu-155 | Suspended | 0.32 U | 1.4 | 0.43 | 0.7 |
| OS-9 | SOOS-09-GW041811 | Eu-155 | Total | 0.6 | NA | 1.1 | NA |
| OS-9 | SOOS-09-GW041811 | gross_alpha | Filtered | 0.81 | 0.41 | 0.19 | 0.21 |
| OS-9 | SOOS-09-GW041811 | gross_alpha | Suspended | 2.8 | 0.57 | 0.37 | 0.31 |
| OS-9 | SOOS-09-GW041811 | gross_alpha | Total | 3.61 | NA | 0.41 | NA |
| OS-9 | SOOS-09-GW041811 | gross_beta | Filtered | 2.07 | 2.5 | 0.82 | 1.5 |
| OS-9 | SOOS-09-GW041811 | gross_beta | Suspended | 1.53 | 0.92 | 0.33 | 0.55 |
| OS-9 | SOOS-09-GW041811 | gross_beta | Total | 3.6 | NA | 0.89 | NA |
| OS-9 | SOOS-09-GW041811 | H-3 | Total | 38 U | 150 | 45 | 74 |
| OS-9 | SOOS-09-GW041811 | Ho-166m | Filtered | 0.22 U | 2.3 | 0.66 | 1.1 |
| OS-9 | SOOS-09-GW041811 | Ho-166m | Suspended | 0.07 U | 1.2 | 0.36 | 0.59 |
| OS-9 | SOOS-09-GW041811 | Ho-166m | Total | 0.29 | NA | 0.76 | NA |
| OS-9 | SOOS-09-GW041811 | K-40 | Filtered | -3.9 U | 23 | 6.8 | 11 |
| OS-9 | SOOS-09-GW041811 | K-40 | Suspended | 9.3 | 13 | 4.1 | 6.1 |
| OS-9 | SOOS-09-GW041811 | K-40 | Total | 5.3 | NA | 8 | NA |
| OS-9 | SOOS-09-GW041811 | Na-22 | Filtered | 0.48 U | 1.5 | 0.43 | 0.66 |
| OS-9 | SOOS-09-GW041811 | Na-22 | Suspended | 0.08 U | 0.71 | 0.2 | 0.33 |
| OS-9 | SOOS-09-GW041811 | Na-22 | Total | 0.57 | NA | 0.48 | NA |
| OS-9 | SOOS-09-GW041811 | Nb-94 | Filtered | 0.29 U | 1.5 | 0.44 | 0.71 |
| OS-9 | SOOS-09-GW041811 | Nb-94 | Suspended | 0.04 U | 0.71 | 0.21 | 0.34 |
| OS-9 | SOOS-09-GW041811 | Nb-94 | Total | 0.33 | NA | 0.49 | NA |
| OS-9 | SOOS-09-GW041811 | Np-236 | Filtered | -1 U | 3.5 | 1.1 | 1.7 |
| OS-9 | SOOS-09-GW041811 | Np-236 | Suspended | -0.24 U | 1.3 | 0.38 | 0.62 |
| OS-9 | SOOS-09-GW041811 | Np-236 | Total | -1.2 | NA | 1.1 | NA |
| OS-9 | SOOS-09-GW041811 | Np-239 | Filtered | 0.4 U | 8.9 | 2.6 | 4.3 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| OS-9 | SOOS-09-GW041811 | Np-239 | Suspended | 0.8 U | 4 | 1.2 | 1.9 |
| OS-9 | SOOS-09-GW041811 | Np-239 | Total | 1.2 | NA | 2.9 | NA |
| OS-9 | SOOS-09-GW041811 | Pa-231 | Filtered | -2 U | 50 | 14 | 24 |
| OS-9 | SOOS-09-GW041811 | Pa-231 | Suspended | 0.2 U | 27 | 7.8 | 13 |
| OS-9 | SOOS-09-GW041811 | Pa-231 | Total | -1 | NA | 16 | NA |
| OS-9 | SOOS-09-GW041811 | Pb-212 | Filtered | 0.37 U | 2.7 | 0.81 | 1.3 |
| OS-9 | SOOS-09-GW041811 | Pb-212 | Suspended | 1.79 | 1.2 | 0.45 | 0.56 |
| OS-9 | SOOS-09-GW041811 | Pb-212 | Total | 2.16 | NA | 0.92 | NA |
| OS-9 | SOOS-09-GW041811 | Pb-214 | Filtered | -0.8 U | 3.7 | 1.4 | 1.8 |
| OS-9 | SOOS-09-GW041811 | Pb-214 | Suspended | 2.85 | 1.5 | 0.66 | 0.72 |
| OS-9 | SOOS-09-GW041811 | Pb-214 | Total | 2.1 | NA | 1.6 | NA |
| OS-9 | SOOS-09-GW041811 | Sb-125 | Filtered | -1 U | 14 | 4 | 6.5 |
| OS-9 | SOOS-09-GW041811 | Sb-125 | Suspended | -0.04 U | 6.1 | 1.8 | 3 |
| OS-9 | SOOS-09-GW041811 | Sb-125 | Total | -1.1 | NA | 4.4 | NA |
| OS-9 | SOOS-09-GW041811 | Sn-126 | Filtered | -0.41 U | 1.8 | 0.53 | 0.84 |
| OS-9 | SOOS-09-GW041811 | Sn-126 | Suspended | 0.24 U | 0.84 | 0.25 | 0.4 |
| OS-9 | SOOS-09-GW041811 | Sn-126 | Total | -0.17 | NA | 0.58 | NA |
| OS-9 | SOOS-09-GW041811 | Sr-90 | Filtered | 0.006 U | 0.12 | 0.035 | 0.069 |
| OS-9 | SOOS-09-GW041811 | Sr-90 | Suspended | 0.02 U | 0.064 | 0.019 | 0.034 |
| OS-9 | SOOS-09-GW041811 | Sr-90 | Total | 0.026 | NA | 0.04 | NA |
| OS-9 | SOOS-09-GW041811 | Te-125m | Filtered | -0.24 U | 3.1 | 0.92 | 1.5 |
| OS-9 | SOOS-09-GW041811 | Te-125m | Suspended | -0.01 U | 1.4 | 0.42 | 0.69 |
| OS-9 | SOOS-09-GW041811 | Te-125m | Total | -0.2 | NA | 1 | NA |
| OS-9 | SOOS-09-GW041811 | Th-231 | Filtered | 0.0078 | 0.0071 | 0.0045 | 0.0054 |
| OS-9 | SOOS-09-GW041811 | Th-231 | Suspended | 0.0249 | 0.018 | 0.0089 | 0.0056 |
| OS-9 | SOOS-09-GW041811 | Th-231 | Total | 0.0327 | NA | 0.01 | NA |
| OS-9 | SOOS-09-GW041811 | Th-234 | Filtered | -3 U | 28 | 11 | 14 |
| OS-9 | SOOS-09-GW041811 | Th-234 | Suspended | 0.9 U | 9.1 | 2.8 | 4.5 |
| OS-9 | SOOS-09-GW041811 | Th-234 | Total | -2 | NA | 11 | NA |
| OS-9 | SOOS-09-GW041811 | Tl-208 | Filtered | 1.74 | 1.7 | 0.67 | 0.81 |
| OS-9 | SOOS-09-GW041811 | Tl-208 | Suspended | 0.41 | 0.74 | 0.25 | 0.36 |
| OS-9 | SOOS-09-GW041811 | Tl-208 | Total | 2.16 | NA | 0.71 | NA |
| OS-9 | SOOS-09-GW041811 | Tm-171 | Filtered | 60 U | 440 | 130 | 220 |
| OS-9 | SOOS-09-GW041811 | Tm-171 | Suspended | 39 U | 120 | 36 | 59 |
| OS-9 | SOOS-09-GW041811 | Tm-171 | Total | 100 | NA | 140 | NA |
| OS-9 | SOOS-09-GW041811 | U-233/234 | Filtered | 0.074 | 0.006 | 0.014 | 0.004 |
| OS-9 | SOOS-09-GW041811 | U-233/234 | Suspended | 0.461 | 0.006 | 0.037 | 0.005 |
| OS-9 | SOOS-09-GW041811 | U-233/234 | Total | 0.535 | NA | 0.04 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| OS-9 | SOOS-09-GW041811 | U-235/236 | Filtered | 0.0078 | 0.0071 | 0.0045 | 0.0054 |
| OS-9 | SOOS-09-GW041811 | U-235/236 | Suspended | 0.0249 | 0.018 | 0.0089 | 0.0056 |
| OS-9 | SOOS-09-GW041811 | U-235/236 | Total | 0.0327 | NA | 0.01 | NA |
| OS-9 | SOOS-09-GW041811 | U-238 | Filtered | 0.071 | 0.014 | 0.013 | 0.004 |
| OS-9 | SOOS-09-GW041811 | U-238 | Suspended | 0.478 | 0.006 | 0.038 | 0.005 |
| OS-9 | SOOS-09-GW041811 | U-238 | Total | 0.548 | NA | 0.04 | NA |
| OS-9R | SOOS-9R-GW040111 | Ac-227 | Filtered | -8.3 L U | 9.6 | 3 | 4.7 |
| OS-9R | SOOS-9R-GW040111 | Ac-227 | Suspended | -0.76 U | 3.2 | 0.95 | 1.5 |
| OS-9R | SOOS-9R-GW040111 | Ac-227 | Total | -9.1 L | NA | 3.1 | NA |
| OS-9R | SOOS-9R-GW040111 | Ac-228 | Filtered | 1.93 | 3.1 | 0.97 | 1.5 |
| OS-9R | SOOS-9R-GW040111 | Ac-228 | Suspended | 1.39 | 1.7 | 0.53 | 0.77 |
| OS-9R | SOOS-9R-GW040111 | Ac-228 | Total | 3.3 | NA | 1.1 | NA |
| OS-9R | SOOS-9R-GW040111 | Ag-108 | Filtered | 0.016 U R | 0.089 | 0.026 | 0.042 |
| OS-9R | SOOS-9R-GW040111 | Ag-108 | Suspended | -0.003 U R | 0.041 | 0.012 | 0.02 |
| OS-9R | SOOS-9R-GW040111 | Ag-108 | Total | 0.013 R | NA | 0.029 | NA |
| OS-9R | SOOS-9R-GW040111 | Ag-108m | Filtered | 0.17 U R | 0.95 | 0.28 | 0.46 |
| OS-9R | SOOS-9R-GW040111 | Ag-108m | Suspended | -0.03 U R | 0.45 | 0.13 | 0.21 |
| OS-9R | SOOS-9R-GW040111 | Ag-108m | Total | 0.14 R | NA | 0.31 | NA |
| OS-9R | SOOS-9R-GW040111 | Ba-133 | Filtered | 1.9 U R | 11 | 3.3 | 5.3 |
| OS-9R | SOOS-9R-GW040111 | Ba-133 | Suspended | 0.4 U R | 3.5 | 1 | 1.7 |
| OS-9R | SOOS-9R-GW040111 | Ba-133 | Total | 2.3 R | NA | 3.4 | NA |
| OS-9R | SOOS-9R-GW040111 | Ba-137m | Filtered | 0.21 U | 0.98 | 0.29 | 0.46 |
| OS-9R | SOOS-9R-GW040111 | Ba-137m | Suspended | 0.14 U | 0.52 | 0.15 | 0.25 |
| OS-9R | SOOS-9R-GW040111 | Ba-137m | Total | 0.36 | NA | 0.33 | NA |
| OS-9R | SOOS-9R-GW040111 | Bi-212 | Filtered | -0.9 U | 9.7 | 2.8 | 4.6 |
| OS-9R | SOOS-9R-GW040111 | Bi-212 | Suspended | -0.04 U | 3.9 | 1.1 | 1.8 |
| OS-9R | SOOS-9R-GW040111 | Bi-212 | Total | -0.9 | NA | 3 | NA |
| OS-9R | SOOS-9R-GW040111 | Bi-214 | Filtered | 1.9 | 2.4 | 1 | 1.2 |
| OS-9R | SOOS-9R-GW040111 | Bi-214 | Suspended | 0.78 | 1.3 | 0.52 | 0.62 |
| OS-9R | SOOS-9R-GW040111 | Bi-214 | Total | 2.7 | NA | 1.2 | NA |
| OS-9R | SOOS-9R-GW040111 | Cd-113m | Filtered | 3500 U | 11000 | 3400 | 5500 |
| OS-9R | SOOS-9R-GW040111 | Cd-113m | Suspended | 2000 U | 5000 | 1500 | 2400 |
| OS-9R | SOOS-9R-GW040111 | Cd-113m | Total | 5600 | NA | 3800 | NA |
| OS-9R | SOOS-9R-GW040111 | Cf-249 | Filtered | 0.2 U R | 5.2 | 1.5 | 2.5 |
| OS-9R | SOOS-9R-GW040111 | Cf-249 | Suspended | 0.58 U R | 2 | 0.6 | 0.95 |
| OS-9R | SOOS-9R-GW040111 | Cf-249 | Total | 0.8 R | NA | 1.6 | NA |
| OS-9R | SOOS-9R-GW040111 | Co-60 | Filtered | 0.24 U | 1.1 | 0.31 | 0.49 |
| OS-9R | SOOS-9R-GW040111 | Co-60 | Suspended | 0.1 U | 0.54 | 0.16 | 0.25 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| OS-9R | SOOS-9R-GW040111 | Co-60 | Total | 0.34 | NA | 0.35 | NA |
| OS-9R | SOOS-9R-GW040111 | Cs-134 | Filtered | -0.03 U | 1.4 | 0.4 | 0.66 |
| OS-9R | SOOS-9R-GW040111 | Cs-134 | Suspended | -0.1 U | 0.65 | 0.19 | 0.31 |
| OS-9R | SOOS-9R-GW040111 | Cs-134 | Total | -0.14 | NA | 0.45 | NA |
| OS-9R | SOOS-9R-GW040111 | Cs-137 | Filtered | 0.23 U | 1 | 0.31 | 0.49 |
| OS-9R | SOOS-9R-GW040111 | Cs-137 | Suspended | 0.15 U | 0.55 | 0.16 | 0.26 |
| OS-9R | SOOS-9R-GW040111 | Cs-137 | Total | 0.38 | NA | 0.35 | NA |
| OS-9R | SOOS-9R-GW040111 | Eu-152 | Filtered | -0.72 U | 3.2 | 0.94 | 1.5 |
| OS-9R | SOOS-9R-GW040111 | Eu-152 | Suspended | 0.03 U | 1.3 | 0.39 | 0.64 |
| OS-9R | SOOS-9R-GW040111 | Eu-152 | Total | -0.7 | NA | 1 | NA |
| OS-9R | SOOS-9R-GW040111 | Eu-154 | Filtered | -1.5 U | 8.5 | 2.5 | 4 |
| OS-9R | SOOS-9R-GW040111 | Eu-154 | Suspended | 0.1 U | 4.5 | 1.3 | 2.1 |
| OS-9R | SOOS-9R-GW040111 | Eu-154 | Total | -1.4 | NA | 2.8 | NA |
| OS-9R | SOOS-9R-GW040111 | Eu-155 | Filtered | -0.42 U | 3.1 | 0.92 | 1.5 |
| OS-9R | SOOS-9R-GW040111 | Eu-155 | Suspended | 0.18 U | 0.78 | 0.23 | 0.38 |
| OS-9R | SOOS-9R-GW040111 | Eu-155 | Total | -0.23 | NA | 0.95 | NA |
| OS-9R | SOOS-9R-GW040111 | gross_alpha | Filtered | 0.69 | 0.48 | 0.19 | 0.26 |
| OS-9R | SOOS-9R-GW040111 | gross_alpha | Suspended | 1 | 0.49 | 0.22 | 0.27 |
| OS-9R | SOOS-9R-GW040111 | gross_alpha | Total | 1.7 | NA | 0.29 | NA |
| OS-9R | SOOS-9R-GW040111 | gross_beta | Filtered | 1.14 U | 2.4 | 0.74 | 1.5 |
| OS-9R | SOOS-9R-GW040111 | gross_beta | Suspended | 0.23 U | 0.9 | 0.27 | 0.54 |
| OS-9R | SOOS-9R-GW040111 | gross_beta | Total | 1.37 | NA | 0.79 | NA |
| OS-9R | SOOS-9R-GW040111 | H-3 | Total | 32 U | 130 | 39 | 64 |
| OS-9R | SOOS-9R-GW040111 | Ho-166m | Filtered | -0.04 U | 1.6 | 0.45 | 0.73 |
| OS-9R | SOOS-9R-GW040111 | Ho-166m | Suspended | -0.01 U | 0.8 | 0.23 | 0.37 |
| OS-9R | SOOS-9R-GW040111 | Ho-166m | Total | -0.05 | NA | 0.5 | NA |
| OS-9R | SOOS-9R-GW040111 | K-40 | Filtered | 14.3 | 15 | 4.2 | 7.3 |
| OS-9R | SOOS-9R-GW040111 | K-40 | Suspended | 2.8 U | 8.1 | 2.8 | 3.8 |
| OS-9R | SOOS-9R-GW040111 | K-40 | Total | 17.1 | NA | 5.1 | NA |
| OS-9R | SOOS-9R-GW040111 | Na-22 | Filtered | 0.15 U | 1 | 0.29 | 0.46 |
| OS-9R | SOOS-9R-GW040111 | Na-22 | Suspended | 0.02 U | 0.53 | 0.15 | 0.24 |
| OS-9R | SOOS-9R-GW040111 | Na-22 | Total | 0.16 | NA | 0.32 | NA |
| OS-9R | SOOS-9R-GW040111 | Nb-94 | Filtered | 0.14 U | 1.1 | 0.32 | 0.52 |
| OS-9R | SOOS-9R-GW040111 | Nb-94 | Suspended | -0.03 U | 0.47 | 0.14 | 0.22 |
| OS-9R | SOOS-9R-GW040111 | Nb-94 | Total | 0.11 | NA | 0.35 | NA |
| OS-9R | SOOS-9R-GW040111 | Np-236 | Filtered | -1.25 U | 2.7 | 0.83 | 1.3 |
| OS-9R | SOOS-9R-GW040111 | Np-236 | Suspended | 0.19 U | 0.94 | 0.28 | 0.46 |
| OS-9R | SOOS-9R-GW040111 | Np-236 | Total | -1.05 | NA | 0.88 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| OS-9R | SOOS-9R-GW040111 | Np-239 | Filtered | 0.05 U | 6.8 | 2 | 3.3 |
| OS-9R | SOOS-9R-GW040111 | Np-239 | Suspended | 0.47 U | 2.7 | 0.82 | 1.3 |
| OS-9R | SOOS-9R-GW040111 | Np-239 | Total | 0.5 | NA | 2.2 | NA |
| OS-9R | SOOS-9R-GW040111 | Pa-231 | Filtered | 18 U | 44 | 13 | 21 |
| OS-9R | SOOS-9R-GW040111 | Pa-231 | Suspended | 6.2 U | 19 | 5.8 | 9.3 |
| OS-9R | SOOS-9R-GW040111 | Pa-231 | Total | 24 | NA | 14 | NA |
| OS-9R | SOOS-9R-GW040111 | Pb-212 | Filtered | 0.83 U | 2.2 | 0.68 | 1.1 |
| OS-9R | SOOS-9R-GW040111 | Pb-212 | Suspended | -0.04 U | 0.85 | 0.28 | 0.41 |
| OS-9R | SOOS-9R-GW040111 | Pb-212 | Total | 0.79 | NA | 0.74 | NA |
| OS-9R | SOOS-9R-GW040111 | Pb-214 | Filtered | 1.42 | 2.3 | 0.86 | 1.1 |
| OS-9R | SOOS-9R-GW040111 | Pb-214 | Suspended | -0.02 U | 1.1 | 0.31 | 0.54 |
| OS-9R | SOOS-9R-GW040111 | Pb-214 | Total | 1.4 | NA | 0.91 | NA |
| OS-9R | SOOS-9R-GW040111 | Sb-125 | Filtered | 0.2 U | 11 | 3.3 | 5.5 |
| OS-9R | SOOS-9R-GW040111 | Sb-125 | Suspended | 0.7 U | 4.2 | 1.2 | 2 |
| OS-9R | SOOS-9R-GW040111 | Sb-125 | Total | 1 | NA | 3.6 | NA |
| OS-9R | SOOS-9R-GW040111 | Sn-126 | Filtered | 0.48 U | 1.1 | 0.33 | 0.52 |
| OS-9R | SOOS-9R-GW040111 | Sn-126 | Suspended | 0.34 | 0.64 | 0.19 | 0.3 |
| OS-9R | SOOS-9R-GW040111 | Sn-126 | Total | 0.83 | NA | 0.39 | NA |
| OS-9R | SOOS-9R-GW040111 | Sr-90 | Filtered | -0.022 | 0.091 | 0.025 | 0.051 |
| OS-9R | SOOS-9R-GW040111 | Sr-90 | Suspended | -0.03 L U | 0.054 | 0.014 | 0.031 |
| OS-9R | SOOS-9R-GW040111 | Sr-90 | Total | -0.052 | NA | 0.029 | NA |
| OS-9R | SOOS-9R-GW040111 | Te-125m | Filtered | 0.05 U | 2.6 | 0.77 | 1.3 |
| OS-9R | SOOS-9R-GW040111 | Te-125m | Suspended | 0.17 U | 0.96 | 0.29 | 0.46 |
| OS-9R | SOOS-9R-GW040111 | Te-125m | Total | 0.22 | NA | 0.82 | NA |
| OS-9R | SOOS-9R-GW040111 | Th-231 | Filtered | 0.0024 U | 0.0066 | 0.0024 | 0.0057 |
| OS-9R | SOOS-9R-GW040111 | Th-231 | Suspended | -0.0019 U | 0.016 | 0.0019 | 0.0051 |
| OS-9R | SOOS-9R-GW040111 | Th-231 | Total | 0.0005 | NA | 0.0031 | NA |
| OS-9R | SOOS-9R-GW040111 | Th-234 | Filtered | -0.7 U | 21 | 6.5 | 10 |
| OS-9R | SOOS-9R-GW040111 | Th-234 | Suspended | 1.1 U | 4.9 | 1.5 | 2.4 |
| OS-9R | SOOS-9R-GW040111 | Th-234 | Total | 0.4 | NA | 6.6 | NA |
| OS-9R | SOOS-9R-GW040111 | Tl-208 | Filtered | -0.35 U | 1.4 | 0.53 | 0.69 |
| OS-9R | SOOS-9R-GW040111 | Tl-208 | Suspended | -0.23 U | 0.63 | 0.57 | 0.3 |
| OS-9R | SOOS-9R-GW040111 | Tl-208 | Total | -0.58 | NA | 0.78 | NA |
| OS-9R | SOOS-9R-GW040111 | Tm-171 | Filtered | 80 U | 340 | 100 | 170 |
| OS-9R | SOOS-9R-GW040111 | Tm-171 | Suspended | 29 U | 82 | 25 | 40 |
| OS-9R | SOOS-9R-GW040111 | Tm-171 | Total | 110 | NA | 110 | NA |
| OS-9R | SOOS-9R-GW040111 | U-233/234 | Filtered | 0.0168 | 0.019 | 0.0083 | 0.0071 |
| OS-9R | SOOS-9R-GW040111 | U-233/234 | Suspended | 0.005 | 0.0053 | 0.0055 | 0.0041 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| OS-9R | SOOS-9R-GW040111 | U-233/234 | Total | 0.0218 | NA | 0.01 | NA |
| OS-9R | SOOS-9R-GW040111 | U-235/236 | Filtered | 0.0024 U | 0.0066 | 0.0024 | 0.0051 |
| OS-9R | SOOS-9R-GW040111 | U-235/236 | Suspended | -0.0019 U | 0.016 | 0.0019 | 0.0051 |
| OS-9R | SOOS-9R-GW040111 | U-235/236 | Total | 0.0005 | NA | 0.0031 | NA |
| OS-9R | SOOS-9R-GW040111 | U-238 | Filtered | 0.0091 | 0.016 | 0.0066 | 0.0057 |
| OS-9R | SOOS-9R-GW040111 | U-238 | Suspended | 0.0019 U | 0.0053 | 0.0044 | 0.0041 |
| OS-9R | SOOS-9R-GW040111 | U-238 | Total | 0.011 | NA | 0.0079 | NA |
| PZ-005 | SMPZ-005-GW032311 | Ac-227 | Filtered | -8.3 L U | 9.6 | 3 | 4.7 |
| PZ-005 | SMPZ-005-GW032311 | Ac-227 | Suspended | -2.9 L U | 4.4 | 1.3 | 2.1 |
| PZ-005 | SMPZ-005-GW032311 | Ac-227 | Total | -11.2 R | NA | 3.3 | NA |
| PZ-005 | SMPZ-005-GW032311 | Ac-228 | Filtered | 2 | 3.5 | 1.1 | 1.6 |
| PZ-005 | SMPZ-005-GW032311 | Ac-228 | Suspended | 3.52 | 1.9 | 0.7 | 0.91 |
| PZ-005 | SMPZ-005-GW032311 | Ac-228 | Total | 5.5 | NA | 1.3 | NA |
| PZ-005 | SMPZ-005-GW032311 | Ag-108 | Filtered | 0.009 U R | 0.087 | 0.025 | 0.042 |
| PZ-005 | SMPZ-005-GW032311 | Ag-108 | Suspended | -0.013 U R | 0.056 | 0.017 | 0.027 |
| PZ-005 | SMPZ-005-GW032311 | Ag-108 | Total | -0.004 R | NA | 0.03 | NA |
| PZ-005 | SMPZ-005-GW032311 | Ag-108m | Filtered | 0.1 U R | 0.93 | 0.27 | 0.45 |
| PZ-005 | SMPZ-005-GW032311 | Ag-108m | Suspended | -0.14 U R | 0.6 | 0.18 | 0.29 |
| PZ-005 | SMPZ-005-GW032311 | Ag-108m | Total | -0.04 R | NA | 0.33 | NA |
| PZ-005 | SMPZ-005-GW032311 | Ba-133 | Filtered | 2.9 U R | 10 | 3 | 4.9 |
| PZ-005 | SMPZ-005-GW032311 | Ba-133 | Suspended | -0.05 U R | 5.4 | 1.6 | 2.6 |
| PZ-005 | SMPZ-005-GW032311 | Ba-133 | Total | 2.8 R | NA | 3.4 | NA |
| PZ-005 | SMPZ-005-GW032311 | Ba-137m | Filtered | 0.67 | 1.1 | 0.33 | 0.51 |
| PZ-005 | SMPZ-005-GW032311 | Ba-137m | Suspended | -0.08 U | 0.75 | 0.22 | 0.36 |
| PZ-005 | SMPZ-005-GW032311 | Ba-137m | Total | 0.59 | NA | 0.4 | NA |
| PZ-005 | SMPZ-005-GW032311 | Bi-212 | Filtered | -1.6 U | 9.7 | 5.5 | 4.6 |
| PZ-005 | SMPZ-005-GW032311 | Bi-212 | Suspended | -0.8 U | 5.6 | 3.3 | 2.7 |
| PZ-005 | SMPZ-005-GW032311 | Bi-212 | Total | -2.4 | NA | 6.4 | NA |
| PZ-005 | SMPZ-005-GW032311 | Bi-214 | Filtered | 0.9 U | 2.9 | 1.2 | 1.4 |
| PZ-005 | SMPZ-005-GW032311 | Bi-214 | Suspended | 0.05 U | 1.7 | 0.6 | 0.81 |
| PZ-005 | SMPZ-005-GW032311 | Bi-214 | Total | 1 | NA | 1.3 | NA |
| PZ-005 | SMPZ-005-GW032311 | Cd-113m | Filtered | 5100 U | 13000 | 3800 | 6100 |
| PZ-005 | SMPZ-005-GW032311 | Cd-113m | Suspended | 50 U | 6900 | 2000 | 3300 |
| PZ-005 | SMPZ-005-GW032311 | Cd-113m | Total | 5100 | NA | 4300 | NA |
| PZ-005 | SMPZ-005-GW032311 | Cf-249 | Filtered | 0.2 U R | 5.3 | 1.6 | 2.6 |
| PZ-005 | SMPZ-005-GW032311 | Cf-249 | Suspended | 0.3 U R | 3.2 | 0.93 | 1.5 |
| PZ-005 | SMPZ-005-GW032311 | Cf-249 | Total | 0.5 R | NA | 1.8 | NA |
| PZ-005 | SMPZ-005-GW032311 | Co-60 | Filtered | 0.14 U | 1.1 | 0.31 | 0.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-005 | SMPZ-005-GW032311 | Co-60 | Suspended | -0.09 U | 0.78 | 0.22 | 0.36 |
| PZ-005 | SMPZ-005-GW032311 | Co-60 | Total | 0.05 | NA | 0.38 | NA |
| PZ-005 | SMPZ-005-GW032311 | Cs-134 | Filtered | 0 U | 1.5 | 0.43 | 0.71 |
| PZ-005 | SMPZ-005-GW032311 | Cs-134 | Suspended | -0.02 U | 0.74 | 0.22 | 0.36 |
| PZ-005 | SMPZ-005-GW032311 | Cs-134 | Total | -0.02 | NA | 0.48 | NA |
| PZ-005 | SMPZ-005-GW032311 | Cs-137 | Filtered | 0.71 | 1.1 | 0.35 | 0.53 |
| PZ-005 | SMPZ-005-GW032311 | Cs-137 | Suspended | -0.09 U | 0.8 | 0.23 | 0.38 |
| PZ-005 | SMPZ-005-GW032311 | Cs-137 | Total | 0.62 | NA | 0.42 | NA |
| PZ-005 | SMPZ-005-GW032311 | Eu-152 | Filtered | -0.8 U | 3.4 | 1 | 1.6 |
| PZ-005 | SMPZ-005-GW032311 | Eu-152 | Suspended | -0.34 U | 1.8 | 0.53 | 0.86 |
| PZ-005 | SMPZ-005-GW032311 | Eu-152 | Total | -1.2 | NA | 1.1 | NA |
| PZ-005 | SMPZ-005-GW032311 | Eu-154 | Filtered | -1.1 U | 9.3 | 2.7 | 4.4 |
| PZ-005 | SMPZ-005-GW032311 | Eu-154 | Suspended | 2.7 | 5.7 | 1.7 | 2.7 |
| PZ-005 | SMPZ-005-GW032311 | Eu-154 | Total | 1.6 | NA | 3.2 | NA |
| PZ-005 | SMPZ-005-GW032311 | Eu-155 | Filtered | -0.59 U | 3 | 0.88 | 1.4 |
| PZ-005 | SMPZ-005-GW032311 | Eu-155 | Suspended | 0.3 U | 1.1 | 0.33 | 0.54 |
| PZ-005 | SMPZ-005-GW032311 | Eu-155 | Total | -0.29 | NA | 0.94 | NA |
| PZ-005 | SMPZ-005-GW032311 | gross_alpha | Filtered | 7.79 | 0.43 | 0.66 | 0.2 |
| PZ-005 | SMPZ-005-GW032311 | gross_alpha | Suspended | 1.87 | 0.9 | 0.42 | 0.47 |
| PZ-005 | SMPZ-005-GW032311 | gross_alpha | Total | 9.66 | NA | 0.78 | NA |
| PZ-005 | SMPZ-005-GW032311 | gross_beta | Filtered | 4.4 | 3.1 | 1.1 | 1.8 |
| PZ-005 | SMPZ-005-GW032311 | gross_beta | Suspended | 7.51 | 0.73 | 0.54 | 0.42 |
| PZ-005 | SMPZ-005-GW032311 | gross_beta | Total | 11.9 | NA | 1.3 | NA |
| PZ-005 | SMPZ-005-GW032311 | H-3 | Total | -6 U | 150 | 45 | 75 |
| PZ-005 | SMPZ-005-GW032311 | Ho-166m | Filtered | 0.08 U | 1.6 | 0.48 | 0.78 |
| PZ-005 | SMPZ-005-GW032311 | Ho-166m | Suspended | -0.19 U | 1.1 | 0.32 | 0.52 |
| PZ-005 | SMPZ-005-GW032311 | Ho-166m | Total | -0.1 | NA | 0.57 | NA |
| PZ-005 | SMPZ-005-GW032311 | K-40 | Filtered | 17.2 | 15 | 4.5 | 6.9 |
| PZ-005 | SMPZ-005-GW032311 | K-40 | Suspended | 1.3 U | 11 | 2.8 | 5.3 |
| PZ-005 | SMPZ-005-GW032311 | K-40 | Total | 18.5 | NA | 5.3 | NA |
| PZ-005 | SMPZ-005-GW032311 | Na-22 | Filtered | 0.21 U | 1.1 | 0.31 | 0.49 |
| PZ-005 | SMPZ-005-GW032311 | Na-22 | Suspended | -0.17 U | 0.75 | 0.22 | 0.35 |
| PZ-005 | SMPZ-005-GW032311 | Na-22 | Total | 0.04 | NA | 0.38 | NA |
| PZ-005 | SMPZ-005-GW032311 | Nb-94 | Filtered | 0.09 U | 1 | 0.3 | 0.48 |
| PZ-005 | SMPZ-005-GW032311 | Nb-94 | Suspended | 0.17 U | 0.61 | 0.18 | 0.29 |
| PZ-005 | SMPZ-005-GW032311 | Nb-94 | Total | 0.26 | NA | 0.35 | NA |
| PZ-005 | SMPZ-005-GW032311 | Np-236 | Filtered | -0.09 U | 1.9 | 0.56 | 0.93 |
| PZ-005 | SMPZ-005-GW032311 | Np-236 | Suspended | -0.18 U | 1.2 | 0.36 | 0.59 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-005 | SMPZ-005-GW032311 | Np-236 | Total | -0.27 | NA | 0.67 | NA |
| PZ-005 | SMPZ-005-GW032311 | Np-239 | Filtered | 0.2 U | 6.8 | 2 | 3.3 |
| PZ-005 | SMPZ-005-GW032311 | Np-239 | Suspended | 0.14 U | 3.1 | 0.9 | 1.5 |
| PZ-005 | SMPZ-005-GW032311 | Np-239 | Total | 0.3 | NA | 2.2 | NA |
| PZ-005 | SMPZ-005-GW032311 | Pa-231 | Filtered | 1 U | 49 | 14 | 24 |
| PZ-005 | SMPZ-005-GW032311 | Pa-231 | Suspended | 0.3 U | 26 | 7.6 | 13 |
| PZ-005 | SMPZ-005-GW032311 | Pa-231 | Total | 2 | NA | 16 | NA |
| PZ-005 | SMPZ-005-GW032311 | Pb-212 | Filtered | -0.6 U | 2.3 | 0.67 | 1.1 |
| PZ-005 | SMPZ-005-GW032311 | Pb-212 | Suspended | 0.81 | 1.1 | 0.42 | 0.55 |
| PZ-005 | SMPZ-005-GW032311 | Pb-212 | Total | 0.21 | NA | 0.79 | NA |
| PZ-005 | SMPZ-005-GW032311 | Pb-214 | Filtered | 0.06 U | 2.7 | 0.73 | 1.3 |
| PZ-005 | SMPZ-005-GW032311 | Pb-214 | Suspended | -1 U | 1.6 | 0.96 | 0.79 |
| PZ-005 | SMPZ-005-GW032311 | Pb-214 | Total | -0.9 | NA | 1.2 | NA |
| PZ-005 | SMPZ-005-GW032311 | Sb-125 | Filtered | 0.08 U | 12 | 3.5 | 5.7 |
| PZ-005 | SMPZ-005-GW032311 | Sb-125 | Suspended | -0.7 U | 5.7 | 1.7 | 2.7 |
| PZ-005 | SMPZ-005-GW032311 | Sb-125 | Total | -0.6 | NA | 3.9 | NA |
| PZ-005 | SMPZ-005-GW032311 | Sn-126 | Filtered | 0.007 U | 1.2 | 0.34 | 0.57 |
| PZ-005 | SMPZ-005-GW032311 | Sn-126 | Suspended | -0.26 U | 0.86 | 0.26 | 0.41 |
| PZ-005 | SMPZ-005-GW032311 | Sn-126 | Total | -0.25 | NA | 0.43 | NA |
| PZ-005 | SMPZ-005-GW032311 | Sr-90 | Filtered | 0.027 U | 0.053 | 0.016 | 0.028 |
| PZ-005 | SMPZ-005-GW032311 | Sr-90 | Suspended | 0.009 U | 0.062 | 0.018 | 0.035 |
| PZ-005 | SMPZ-005-GW032311 | Sr-90 | Total | 0.036 | NA | 0.024 | NA |
| PZ-005 | SMPZ-005-GW032311 | Te-125m | Filtered | 0.02 U | 2.7 | 0.8 | 1.3 |
| PZ-005 | SMPZ-005-GW032311 | Te-125m | Suspended | -0.17 U | 1.3 | 0.39 | 0.63 |
| PZ-005 | SMPZ-005-GW032311 | Te-125m | Total | -0.15 | NA | 0.89 | NA |
| PZ-005 | SMPZ-005-GW032311 | Th-231 | Filtered | 0.276 | 0.008 | 0.031 | 0.007 |
| PZ-005 | SMPZ-005-GW032311 | Th-231 | Suspended | 0.0129 | 0.007 | 0.0058 | 0.0054 |
| PZ-005 | SMPZ-005-GW032311 | Th-231 | Total | 0.281 | NA | 0.036 | NA |
| PZ-005 | SMPZ-005-GW032311 | Th-234 | Filtered | -5.7 U | 20 | 8 | 10 |
| PZ-005 | SMPZ-005-GW032311 | Th-234 | Suspended | 2 U | 7.1 | 2.2 | 3.4 |
| PZ-005 | SMPZ-005-GW032311 | Th-234 | Total | -3.7 | NA | 8.3 | NA |
| PZ-005 | SMPZ-005-GW032311 | Tl-208 | Filtered | 0.31 U | 1.4 | 0.5 | 0.66 |
| PZ-005 | SMPZ-005-GW032311 | Tl-208 | Suspended | 0.29 U | 0.73 | 0.26 | 0.35 |
| PZ-005 | SMPZ-005-GW032311 | Tl-208 | Total | 0.61 | NA | 0.56 | NA |
| PZ-005 | SMPZ-005-GW032311 | Tm-171 | Filtered | 180 | 340 | 100 | 170 |
| PZ-005 | SMPZ-005-GW032311 | Tm-171 | Suspended | 28 U | 110 | 33 | 54 |
| PZ-005 | SMPZ-005-GW032311 | Tm-171 | Total | 200 | NA | 110 | NA |
| PZ-005 | SMPZ-005-GW032311 | U-233/234 | Filtered | 5.74 | 0.02 | 0.27 | 0.005 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|--------|----------------|
| PZ-005 | SMPZ-005-GW032311 | U-233/234 | Suspended | 0.129 | 0.014 | 0.018 | 0.004 |
| PZ-005 | SMPZ-005-GW032311 | U-233/234 | Total | 6.13 | NA | 0.28 | NA |
| PZ-005 | SMPZ-005-GW032311 | U-235/236 | Filtered | 0.276 | 0.008 | 0.031 | 0.007 |
| PZ-005 | SMPZ-005-GW032311 | U-235/236 | Suspended | 0.0129 | 0.007 | 0.0058 | 0.0054 |
| PZ-005 | SMPZ-005-GW032311 | U-235/236 | Total | 0.281 | NA | 0.036 | NA |
| PZ-005 | SMPZ-005-GW032311 | U-238 | Filtered | 5.05 | 0.02 | 0.24 | 0.008 |
| PZ-005 | SMPZ-005-GW032311 | U-238 | Suspended | 0.085 | 0.006 | 0.014 | 0.004 |
| PZ-005 | SMPZ-005-GW032311 | U-238 | Total | 5.11 | NA | 0.24 | NA |
| PZ-041 | SMPZ-041-GW032511 | Ac-227 | Filtered | -0.1 U | 11 | 3.2 | 5.3 |
| PZ-041 | SMPZ-041-GW032511 | Ac-227 | Suspended | 0.09 U | 2.7 | 0.81 | 1.3 |
| PZ-041 | SMPZ-041-GW032511 | Ac-227 | Total | -0.03 | NA | 3.3 | NA |
| PZ-041 | SMPZ-041-GW032511 | Ac-228 | Filtered | 2.3 | 3.7 | 1.1 | 1.7 |
| PZ-041 | SMPZ-041-GW032511 | Ac-228 | Suspended | 1.04 | 1.7 | 0.53 | 0.79 |
| PZ-041 | SMPZ-041-GW032511 | Ac-228 | Total | 3.3 | NA | 1.2 | NA |
| PZ-041 | SMPZ-041-GW032511 | Ag-108 | Filtered | -0.01 U R | 0.085 | 0.025 | 0.041 |
| PZ-041 | SMPZ-041-GW032511 | Ag-108 | Suspended | -0.0001 U R | 0.041 | 0.012 | 0.02 |
| PZ-041 | SMPZ-041-GW032511 | Ag-108 | Total | -0.01 R | NA | 0.028 | NA |
| PZ-041 | SMPZ-041-GW032511 | Ag-108m | Filtered | -0.1 U R | 0.91 | 0.27 | 0.44 |
| PZ-041 | SMPZ-041-GW032511 | Ag-108m | Suspended | -0.0009 U R | 0.44 | 0.13 | 0.21 |
| PZ-041 | SMPZ-041-GW032511 | Ag-108m | Total | -0.11 R | NA | 0.3 | NA |
| PZ-041 | SMPZ-041-GW032511 | Ba-133 | Filtered | 4.3 U R | 11 | 3.2 | 5.1 |
| PZ-041 | SMPZ-041-GW032511 | Ba-133 | Suspended | -0.9 U R | 5 | 1.5 | 2.4 |
| PZ-041 | SMPZ-041-GW032511 | Ba-133 | Total | 3.4 R | NA | 3.5 | NA |
| PZ-041 | SMPZ-041-GW032511 | Ba-137m | Filtered | -0.2 U | 1.1 | 0.31 | 0.51 |
| PZ-041 | SMPZ-041-GW032511 | Ba-137m | Suspended | 0 U | 0.64 | 0.19 | 0.31 |
| PZ-041 | SMPZ-041-GW032511 | Ba-137m | Total | -0.2 | NA | 0.37 | NA |
| PZ-041 | SMPZ-041-GW032511 | Bi-212 | Filtered | -0.9 U | 9.3 | 3.8 | 4.4 |
| PZ-041 | SMPZ-041-GW032511 | Bi-212 | Suspended | -1 U | 4.2 | 1.3 | 2 |
| PZ-041 | SMPZ-041-GW032511 | Bi-212 | Total | -1.9 | NA | 4 | NA |
| PZ-041 | SMPZ-041-GW032511 | Bi-214 | Filtered | 2.33 | 2.6 | 0.996 | 1.3 |
| PZ-041 | SMPZ-041-GW032511 | Bi-214 | Suspended | 1.17 | 1.2 | 0.5 | 0.59 |
| PZ-041 | SMPZ-041-GW032511 | Bi-214 | Total | 3.5 | NA | 1.1 | NA |
| PZ-041 | SMPZ-041-GW032511 | Cd-113m | Filtered | -50 U | 13000 | 3700 | 6100 |
| PZ-041 | SMPZ-041-GW032511 | Cd-113m | Suspended | 1 U | 5300 | 1600 | 2600 |
| PZ-041 | SMPZ-041-GW032511 | Cd-113m | Total | -40 | NA | 4000 | NA |
| PZ-041 | SMPZ-041-GW032511 | Cf-249 | Filtered | -0.07 U R | 5.6 | 1.6 | 2.7 |
| PZ-041 | SMPZ-041-GW032511 | Cf-249 | Suspended | 0.38 U R | 2.1 | 0.63 | 1 |
| PZ-041 | SMPZ-041-GW032511 | Cf-249 | Total | 0.3 R | NA | 1.7 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| PZ-041 | SMPZ-041-GW032511 | Co-60 | Filtered | -0.01 U | 0.94 | 0.26 | 0.43 |
| PZ-041 | SMPZ-041-GW032511 | Co-60 | Suspended | 0.01 U | 0.6 | 0.17 | 0.28 |
| PZ-041 | SMPZ-041-GW032511 | Co-60 | Total | -0.002 | NA | 0.31 | NA |
| PZ-041 | SMPZ-041-GW032511 | Cs-134 | Filtered | -0.44 U | 1.3 | 0.39 | 0.62 |
| PZ-041 | SMPZ-041-GW032511 | Cs-134 | Suspended | -0.18 U | 0.61 | 0.18 | 0.29 |
| PZ-041 | SMPZ-041-GW032511 | Cs-134 | Total | -0.62 SK | NA | 0.43 | NA |
| PZ-041 | SMPZ-041-GW032511 | Cs-137 | Filtered | -0.21 U | 1.1 | 0.33 | 0.54 |
| PZ-041 | SMPZ-041-GW032511 | Cs-137 | Suspended | 0 U | 0.68 | 0.2 | 0.32 |
| PZ-041 | SMPZ-041-GW032511 | Cs-137 | Total | -0.21 | NA | 0.39 | NA |
| PZ-041 | SMPZ-041-GW032511 | Eu-152 | Filtered | 0.94 U | 3.1 | 0.93 | 1.5 |
| PZ-041 | SMPZ-041-GW032511 | Eu-152 | Suspended | 0.32 U | 1.1 | 0.33 | 0.52 |
| PZ-041 | SMPZ-041-GW032511 | Eu-152 | Total | 1.27 | NA | 0.99 | NA |
| PZ-041 | SMPZ-041-GW032511 | Eu-154 | Filtered | -2.7 U | 9.2 | 2.7 | 4.3 |
| PZ-041 | SMPZ-041-GW032511 | Eu-154 | Suspended | -1 U J | 4.8 | 1.4 | 2.3 |
| PZ-041 | SMPZ-041-GW032511 | Eu-154 | Total | -3.7 | NA | 3.1 | NA |
| PZ-041 | SMPZ-041-GW032511 | Eu-155 | Filtered | 0.58 U | 2.9 | 0.86 | 1.4 |
| PZ-041 | SMPZ-041-GW032511 | Eu-155 | Suspended | 0.14 U | 0.74 | 0.22 | 0.36 |
| PZ-041 | SMPZ-041-GW032511 | Eu-155 | Total | 0.72 SK | NA | 0.89 | NA |
| PZ-041 | SMPZ-041-GW032511 | gross_alpha | Filtered | 7.52 | 0.57 | 0.65 | 0.3 |
| PZ-041 | SMPZ-041-GW032511 | gross_alpha | Suspended | 0.47 | 0.88 | 0.28 | 0.45 |
| PZ-041 | SMPZ-041-GW032511 | gross_alpha | Total | 8 | NA | 0.71 | NA |
| PZ-041 | SMPZ-041-GW032511 | gross_beta | Filtered | 10.4 | 2 | 0.996 | 1.2 |
| PZ-041 | SMPZ-041-GW032511 | gross_beta | Suspended | 0.47 U | 0.92 | 0.29 | 0.54 |
| PZ-041 | SMPZ-041-GW032511 | gross_beta | Total | 10.9 | NA | 1 | NA |
| PZ-041 | SMPZ-041-GW032511 | H-3 | Total | 105 | 120 | 37 | 56 |
| PZ-041 | SMPZ-041-GW032511 | Ho-166m | Filtered | 0.01 U | 2 | 0.57 | 0.94 |
| PZ-041 | SMPZ-041-GW032511 | Ho-166m | Suspended | 0.33 U | 0.78 | 0.24 | 0.37 |
| PZ-041 | SMPZ-041-GW032511 | Ho-166m | Total | 0.34 SK | NA | 0.62 | NA |
| PZ-041 | SMPZ-041-GW032511 | K-40 | Filtered | 15 | 15 | 4.8 | 7.2 |
| PZ-041 | SMPZ-041-GW032511 | K-40 | Suspended | -7.2 U | 8.8 | 7.1 | 4.2 |
| PZ-041 | SMPZ-041-GW032511 | K-40 | Total | 7.9 | NA | 8.6 | NA |
| PZ-041 | SMPZ-041-GW032511 | Na-22 | Filtered | -0.21 U | 1.2 | 0.34 | 0.54 |
| PZ-041 | SMPZ-041-GW032511 | Na-22 | Suspended | -0.14 U | 0.66 | 0.19 | 0.31 |
| PZ-041 | SMPZ-041-GW032511 | Na-22 | Total | -0.35 | NA | 0.39 | NA |
| PZ-041 | SMPZ-041-GW032511 | Nb-94 | Filtered | 0.07 U | 0.96 | 0.28 | 0.46 |
| PZ-041 | SMPZ-041-GW032511 | Nb-94 | Suspended | 0.17 U | 0.52 | 0.16 | 0.25 |
| PZ-041 | SMPZ-041-GW032511 | Nb-94 | Total | 0.24 | NA | 0.32 | NA |
| PZ-041 | SMPZ-041-GW032511 | Np-236 | Filtered | 0.25 U | 1.9 | 0.58 | 0.94 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| PZ-041 | SMPZ-041-GW032511 | Np-236 | Suspended | -0.31 U | 0.95 | 0.29 | 0.46 |
| PZ-041 | SMPZ-041-GW032511 | Np-236 | Total | -0.06 SK | NA | 0.64 | NA |
| PZ-041 | SMPZ-041-GW032511 | Np-239 | Filtered | 0.3 U | 5 | 1.5 | 2.4 |
| PZ-041 | SMPZ-041-GW032511 | Np-239 | Suspended | 0.44 U | 2.8 | 0.84 | 1.4 |
| PZ-041 | SMPZ-041-GW032511 | Np-239 | Total | 0.7 | NA | 1.7 | NA |
| PZ-041 | SMPZ-041-GW032511 | Pa-231 | Filtered | 0.2 U | 49 | 14 | 24 |
| PZ-041 | SMPZ-041-GW032511 | Pa-231 | Suspended | 0 U | 20 | 5.8 | 9.6 |
| PZ-041 | SMPZ-041-GW032511 | Pa-231 | Total | 0.2 | NA | 15 | NA |
| PZ-041 | SMPZ-041-GW032511 | Pb-212 | Filtered | 0.78 U | 2.4 | 0.78 | 1.2 |
| PZ-041 | SMPZ-041-GW032511 | Pb-212 | Suspended | -0.14 U | 0.81 | 0.38 | 0.39 |
| PZ-041 | SMPZ-041-GW032511 | Pb-212 | Total | 0.64 | NA | 0.86 | NA |
| PZ-041 | SMPZ-041-GW032511 | Pb-214 | Filtered | 0.9 U | 2.4 | 0.86 | 1.2 |
| PZ-041 | SMPZ-041-GW032511 | Pb-214 | Suspended | 0.33 U | 1 | 0.39 | 0.5 |
| PZ-041 | SMPZ-041-GW032511 | Pb-214 | Total | 1.23 | NA | 0.94 | NA |
| PZ-041 | SMPZ-041-GW032511 | Sb-125 | Filtered | 0.5 U | 11 | 3.3 | 5.5 |
| PZ-041 | SMPZ-041-GW032511 | Sb-125 | Suspended | -0.003 U | 3.7 | 1.1 | 1.8 |
| PZ-041 | SMPZ-041-GW032511 | Sb-125 | Total | 0.5 SK | NA | 3.5 | NA |
| PZ-041 | SMPZ-041-GW032511 | Sn-126 | Filtered | 0.44 U | 1.2 | 0.36 | 0.57 |
| PZ-041 | SMPZ-041-GW032511 | Sn-126 | Suspended | -0.004 U | 0.6 | 0.17 | 0.28 |
| PZ-041 | SMPZ-041-GW032511 | Sn-126 | Total | 0.43 | NA | 0.4 | NA |
| PZ-041 | SMPZ-041-GW032511 | Sr-90 | Filtered | 0.025 U | 0.21 | 0.061 | 0.12 |
| PZ-041 | SMPZ-041-GW032511 | Sr-90 | Suspended | -0.002 U | 0.12 | 0.033 | 0.065 |
| PZ-041 | SMPZ-041-GW032511 | Sr-90 | Total | 0.023 | NA | 0.07 | NA |
| PZ-041 | SMPZ-041-GW032511 | Te-125m | Filtered | 0.13 U | 2.6 | 0.77 | 1.3 |
| PZ-041 | SMPZ-041-GW032511 | Te-125m | Suspended | -0.0008 U | 0.85 | 0.25 | 0.41 |
| PZ-041 | SMPZ-041-GW032511 | Te-125m | Total | 0.13 SK | NA | 0.81 | NA |
| PZ-041 | SMPZ-041-GW032511 | Th-231 | Filtered | 0.278 | 0.007 | 0.03 | 0.006 |
| PZ-041 | SMPZ-041-GW032511 | Th-231 | Suspended | 0 U | 0.0059 | 0.0017 | 0.0045 |
| PZ-041 | SMPZ-041-GW032511 | Th-231 | Total | 0.278 | NA | 0.03 | NA |
| PZ-041 | SMPZ-041-GW032511 | Th-234 | Filtered | 15.2 | 22 | 8 | 11 |
| PZ-041 | SMPZ-041-GW032511 | Th-234 | Suspended | 0 U | 5.3 | 1.6 | 2.6 |
| PZ-041 | SMPZ-041-GW032511 | Th-234 | Total | 15.2 | NA | 8.2 | NA |
| PZ-041 | SMPZ-041-GW032511 | Tl-208 | Filtered | 0.86 | 1.4 | 0.52 | 0.67 |
| PZ-041 | SMPZ-041-GW032511 | Tl-208 | Suspended | -0.4 U | 0.7 | 27 | 0.3 |
| PZ-041 | SMPZ-041-GW032511 | Tl-208 | Total | 0.4 | NA | 27 | NA |
| PZ-041 | SMPZ-041-GW032511 | Tm-171 | Filtered | -0.3 U | 360 | 110 | 180 |
| PZ-041 | SMPZ-041-GW032511 | Tm-171 | Suspended | 16 U | 82 | 24 | 40 |
| PZ-041 | SMPZ-041-GW032511 | Tm-171 | Total | 20 | NA | 110 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-041 | SMPZ-041-GW032511 | U-233/234 | Filtered | 6.71 | 0.01 | 0.31 | 0.005 |
| PZ-041 | SMPZ-041-GW032511 | U-233/234 | Suspended | 0.0167 | 0.0047 | 0.0068 | 0.0036 |
| PZ-041 | SMPZ-041-GW032511 | U-233/234 | Total | 6.72 | NA | 0.31 | NA |
| PZ-041 | SMPZ-041-GW032511 | U-235/236 | Filtered | 0.278 | 0.007 | 0.03 | 0.006 |
| PZ-041 | SMPZ-041-GW032511 | U-235/236 | Suspended | 0 U | 0.0059 | 0.0017 | 0.0045 |
| PZ-041 | SMPZ-041-GW032511 | U-235/236 | Total | 0.278 | NA | 0.03 | NA |
| PZ-041 | SMPZ-041-GW032511 | U-238 | Filtered | 5.46 | 0.01 | 0.25 | 0.005 |
| PZ-041 | SMPZ-041-GW032511 | U-238 | Suspended | 0.0174 | 0.0047 | 0.0066 | 0.0036 |
| PZ-041 | SMPZ-041-GW032511 | U-238 | Total | 5.48 | NA | 0.25 | NA |
| PZ-052 | SMPZ-052-GW033111 | Ac-227 | Filtered | -0.8 U | 8.3 | 2.5 | 4 |
| PZ-052 | SMPZ-052-GW033111 | Ac-227 | Suspended | -1.24 U | 3.1 | 0.93 | 1.5 |
| PZ-052 | SMPZ-052-GW033111 | Ac-227 | Total | -2 | NA | 2.6 | NA |
| PZ-052 | SMPZ-052-GW033111 | Ac-228 | Filtered | 3.1 | 3.4 | 1.1 | 1.6 |
| PZ-052 | SMPZ-052-GW033111 | Ac-228 | Suspended | 1.48 | 1.8 | 0.57 | 0.84 |
| PZ-052 | SMPZ-052-GW033111 | Ac-228 | Total | 4.5 | NA | 1.2 | NA |
| PZ-052 | SMPZ-052-GW033111 | Ag-108 | Filtered | -0.002 U R | 0.082 | 0.024 | 0.039 |
| PZ-052 | SMPZ-052-GW033111 | Ag-108 | Suspended | 0.0001 U R | 0.036 | 0.01 | 0.017 |
| PZ-052 | SMPZ-052-GW033111 | Ag-108 | Total | -0.001 R | NA | 0.026 | NA |
| PZ-052 | SMPZ-052-GW033111 | Ag-108m | Filtered | -0.02 U R | 0.88 | 0.26 | 0.42 |
| PZ-052 | SMPZ-052-GW033111 | Ag-108m | Suspended | 0.0009 U R | 0.39 | 0.11 | 0.18 |
| PZ-052 | SMPZ-052-GW033111 | Ag-108m | Total | -0.02 R | NA | 0.28 | NA |
| PZ-052 | SMPZ-052-GW033111 | Ba-133 | Filtered | -1.4 U R | 9.2 | 2.7 | 4.4 |
| PZ-052 | SMPZ-052-GW033111 | Ba-133 | Suspended | -0.9 U R | 4.6 | 1.4 | 2.2 |
| PZ-052 | SMPZ-052-GW033111 | Ba-133 | Total | -2.2 R | NA | 3 | NA |
| PZ-052 | SMPZ-052-GW033111 | Ba-137m | Filtered | 0 U | 1.1 | 0.31 | 0.52 |
| PZ-052 | SMPZ-052-GW033111 | Ba-137m | Suspended | 0.1 U | 0.44 | 0.13 | 0.2 |
| PZ-052 | SMPZ-052-GW033111 | Ba-137m | Total | 0.1 | NA | 0.34 | NA |
| PZ-052 | SMPZ-052-GW033111 | Bi-212 | Filtered | 1.9 U | 6.9 | 2 | 3.2 |
| PZ-052 | SMPZ-052-GW033111 | Bi-212 | Suspended | -1 U | 3.7 | 1.1 | 1.8 |
| PZ-052 | SMPZ-052-GW033111 | Bi-212 | Total | 0.9 | NA | 2.3 | NA |
| PZ-052 | SMPZ-052-GW033111 | Bi-214 | Filtered | -0.09 U | 2.5 | 0.75 | 1.2 |
| PZ-052 | SMPZ-052-GW033111 | Bi-214 | Suspended | 1.33 | 1.2 | 0.38 | 0.56 |
| PZ-052 | SMPZ-052-GW033111 | Bi-214 | Total | 1.24 | NA | 0.84 | NA |
| PZ-052 | SMPZ-052-GW033111 | Cd-113m | Filtered | 3900 U | 13000 | 3900 | 6300 |
| PZ-052 | SMPZ-052-GW033111 | Cd-113m | Suspended | 1100 U | 4500 | 1300 | 2200 |
| PZ-052 | SMPZ-052-GW033111 | Cd-113m | Total | 5000 | NA | 4100 | NA |
| PZ-052 | SMPZ-052-GW033111 | Cf-249 | Filtered | 0.5 U R | 5.5 | 1.6 | 2.7 |
| PZ-052 | SMPZ-052-GW033111 | Cf-249 | Suspended | -0.65 U R | 2.3 | 0.68 | 1.1 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-052 | SMPZ-052-GW033111 | Cf-249 | Total | -0.2 R | NA | 1.8 | NA |
| PZ-052 | SMPZ-052-GW033111 | Co-60 | Filtered | -0.16 U | 1.4 | 0.4 | 0.65 |
| PZ-052 | SMPZ-052-GW033111 | Co-60 | Suspended | -0.005 U | 0.44 | 0.12 | 0.2 |
| PZ-052 | SMPZ-052-GW033111 | Co-60 | Total | -0.16 | NA | 0.42 | NA |
| PZ-052 | SMPZ-052-GW033111 | Cs-134 | Filtered | -0.43 U | 1.2 | 0.37 | 0.6 |
| PZ-052 | SMPZ-052-GW033111 | Cs-134 | Suspended | -0.19 U | 0.66 | 0.2 | 0.32 |
| PZ-052 | SMPZ-052-GW033111 | Cs-134 | Total | -0.62 | NA | 0.42 | NA |
| PZ-052 | SMPZ-052-GW033111 | Cs-137 | Filtered | 0 U | 1.2 | 0.33 | 0.55 |
| PZ-052 | SMPZ-052-GW033111 | Cs-137 | Suspended | 0.11 U | 0.46 | 0.14 | 0.22 |
| PZ-052 | SMPZ-052-GW033111 | Cs-137 | Total | 0.11 | NA | 0.36 | NA |
| PZ-052 | SMPZ-052-GW033111 | Eu-152 | Filtered | 0.42 U | 3.1 | 0.92 | 1.5 |
| PZ-052 | SMPZ-052-GW033111 | Eu-152 | Suspended | 0.16 U | 1.4 | 0.4 | 0.66 |
| PZ-052 | SMPZ-052-GW033111 | Eu-152 | Total | 0.6 | NA | 1 | NA |
| PZ-052 | SMPZ-052-GW033111 | Eu-154 | Filtered | -1.4 U | 8.8 | 2.6 | 4.1 |
| PZ-052 | SMPZ-052-GW033111 | Eu-154 | Suspended | 1.1 U | 4.1 | 1.2 | 1.9 |
| PZ-052 | SMPZ-052-GW033111 | Eu-154 | Total | -0.3 | NA | 2.8 | NA |
| PZ-052 | SMPZ-052-GW033111 | Eu-155 | Filtered | 0.87 U | 2.7 | 0.82 | 1.3 |
| PZ-052 | SMPZ-052-GW033111 | Eu-155 | Suspended | 0.13 U | 0.94 | 0.28 | 0.45 |
| PZ-052 | SMPZ-052-GW033111 | Eu-155 | Total | 1 | NA | 0.87 | NA |
| PZ-052 | SMPZ-052-GW033111 | gross_alpha | Filtered | 29.8 | 0.5 | 1.5 | 0.2 |
| PZ-052 | SMPZ-052-GW033111 | gross_alpha | Suspended | 0.56 | 0.42 | 0.17 | 0.22 |
| PZ-052 | SMPZ-052-GW033111 | gross_alpha | Total | 22.9 | NA | 1.3 | NA |
| PZ-052 | SMPZ-052-GW033111 | gross_beta | Filtered | 7.3 | 4.6 | 1.7 | 2.7 |
| PZ-052 | SMPZ-052-GW033111 | gross_beta | Suspended | 0.93 | 0.86 | 0.29 | 0.51 |
| PZ-052 | SMPZ-052-GW033111 | gross_beta | Total | 8.3 | NA | 1.8 | NA |
| PZ-052 | SMPZ-052-GW033111 | H-3 | Total | -32 U | 160 | 46 | 78 |
| PZ-052 | SMPZ-052-GW033111 | Ho-166m | Filtered | -0.31 U | 2 | 0.59 | 0.95 |
| PZ-052 | SMPZ-052-GW033111 | Ho-166m | Suspended | 0 U | 1.1 | 0.31 | 0.51 |
| PZ-052 | SMPZ-052-GW033111 | Ho-166m | Total | -0.31 | NA | 0.67 | NA |
| PZ-052 | SMPZ-052-GW033111 | K-40 | Filtered | 8.7 | 18 | 5.7 | 8.5 |
| PZ-052 | SMPZ-052-GW033111 | K-40 | Suspended | -2.6 U | 8.7 | 3.1 | 4.1 |
| PZ-052 | SMPZ-052-GW033111 | K-40 | Total | 6 | NA | 6.5 | NA |
| PZ-052 | SMPZ-052-GW033111 | Na-22 | Filtered | 0.35 U | 1.1 | 0.33 | 0.51 |
| PZ-052 | SMPZ-052-GW033111 | Na-22 | Suspended | -0.04 U | 0.59 | 0.17 | 0.27 |
| PZ-052 | SMPZ-052-GW033111 | Na-22 | Total | 0.31 | NA | 0.37 | NA |
| PZ-052 | SMPZ-052-GW033111 | Nb-94 | Filtered | -0.1 U | 1.1 | 0.31 | 0.51 |
| PZ-052 | SMPZ-052-GW033111 | Nb-94 | Suspended | 0.03 U | 0.52 | 0.15 | 0.25 |
| PZ-052 | SMPZ-052-GW033111 | Nb-94 | Total | -0.07 | NA | 0.35 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-052 | SMPZ-052-GW033111 | Np-236 | Filtered | 0.09 U | 2.2 | 0.64 | 1.1 |
| PZ-052 | SMPZ-052-GW033111 | Np-236 | Suspended | 0.18 U | 0.96 | 0.28 | 0.46 |
| PZ-052 | SMPZ-052-GW033111 | Np-236 | Total | 0.27 | NA | 0.7 | NA |
| PZ-052 | SMPZ-052-GW033111 | Np-239 | Filtered | -1.6 U | 7.8 | 2.3 | 3.8 |
| PZ-052 | SMPZ-052-GW033111 | Np-239 | Suspended | 0.19 U | 2.9 | 0.84 | 1.4 |
| PZ-052 | SMPZ-052-GW033111 | Np-239 | Total | -1.4 | NA | 2.5 | NA |
| PZ-052 | SMPZ-052-GW033111 | Pa-231 | Filtered | 0.3 U | 52 | 15 | 25 |
| PZ-052 | SMPZ-052-GW033111 | Pa-231 | Suspended | 3 U | 20 | 6 | 9.7 |
| PZ-052 | SMPZ-052-GW033111 | Pa-231 | Total | 3 | NA | 16 | NA |
| PZ-052 | SMPZ-052-GW033111 | Pb-212 | Filtered | 0.11 U | 2.2 | 0.64 | 1.1 |
| PZ-052 | SMPZ-052-GW033111 | Pb-212 | Suspended | 0.44 | 0.72 | 0.29 | 0.35 |
| PZ-052 | SMPZ-052-GW033111 | Pb-212 | Total | 0.55 | NA | 0.7 | NA |
| PZ-052 | SMPZ-052-GW033111 | Pb-214 | Filtered | 1.78 | 2.2 | 0.77 | 1.1 |
| PZ-052 | SMPZ-052-GW033111 | Pb-214 | Suspended | 0.36 U | 1.1 | 0.31 | 0.54 |
| PZ-052 | SMPZ-052-GW033111 | Pb-214 | Total | 2.14 | NA | 0.83 | NA |
| PZ-052 | SMPZ-052-GW033111 | Sb-125 | Filtered | 3.1 U | 10 | 3.1 | 5 |
| PZ-052 | SMPZ-052-GW033111 | Sb-125 | Suspended | 0.05 U | 3.9 | 1.1 | 1.9 |
| PZ-052 | SMPZ-052-GW033111 | Sb-125 | Total | 3.2 | NA | 3.3 | NA |
| PZ-052 | SMPZ-052-GW033111 | Sn-126 | Filtered | 0.56 | 1 | 0.32 | 0.49 |
| PZ-052 | SMPZ-052-GW033111 | Sn-126 | Suspended | 0.29 U | 0.62 | 0.19 | 0.3 |
| PZ-052 | SMPZ-052-GW033111 | Sn-126 | Total | 0.84 | NA | 0.37 | NA |
| PZ-052 | SMPZ-052-GW033111 | Sr-90 | Filtered | 0.068 | 0.11 | 0.034 | 0.062 |
| PZ-052 | SMPZ-052-GW033111 | Sr-90 | Suspended | 0.045 | 0.066 | 0.02 | 0.038 |
| PZ-052 | SMPZ-052-GW033111 | Sr-90 | Total | 0.113 | NA | 0.04 | NA |
| PZ-052 | SMPZ-052-GW033111 | Te-125m | Filtered | 0.73 U | 2.4 | 0.71 | 1.1 |
| PZ-052 | SMPZ-052-GW033111 | Te-125m | Suspended | 0.01 U | 0.89 | 0.26 | 0.43 |
| PZ-052 | SMPZ-052-GW033111 | Te-125m | Total | 0.74 | NA | 0.76 | NA |
| PZ-052 | SMPZ-052-GW033111 | Th-231 | Filtered | 0.669 | 0.017 | 0.05 | 0.005 |
| PZ-052 | SMPZ-052-GW033111 | Th-231 | Suspended | 0.0005 U | 0.016 | 0.0031 | 0.0051 |
| PZ-052 | SMPZ-052-GW033111 | Th-231 | Total | 0.671 | NA | 0.051 | NA |
| PZ-052 | SMPZ-052-GW033111 | Th-234 | Filtered | 20.7 | 24 | 9.2 | 12 |
| PZ-052 | SMPZ-052-GW033111 | Th-234 | Suspended | -0.07 U | 5 | 1.5 | 2.4 |
| PZ-052 | SMPZ-052-GW033111 | Th-234 | Total | 20.6 | NA | 9.3 | NA |
| PZ-052 | SMPZ-052-GW033111 | Tl-208 | Filtered | 0.52 U | 1.3 | 0.5 | 0.65 |
| PZ-052 | SMPZ-052-GW033111 | Tl-208 | Suspended | 0.01 U | 0.61 | 0.17 | 0.29 |
| PZ-052 | SMPZ-052-GW033111 | Tl-208 | Total | 0.53 | NA | 0.52 | NA |
| PZ-052 | SMPZ-052-GW033111 | Tm-171 | Filtered | -60 U | 350 | 110 | 170 |
| PZ-052 | SMPZ-052-GW033111 | Tm-171 | Suspended | 50 | 82 | 25 | 40 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-052 | SMPZ-052-GW033111 | Tm-171 | Total | -10 | NA | 110 | NA |
| PZ-052 | SMPZ-052-GW033111 | U-233/234 | Filtered | 14.7 | 0.006 | 0.64 | 0.004 |
| PZ-052 | SMPZ-052-GW033111 | U-233/234 | Suspended | 0.0076 | 0.013 | 0.0064 | 0.0041 |
| PZ-052 | SMPZ-052-GW033111 | U-233/234 | Total | 14.7 | NA | 0.64 | NA |
| PZ-052 | SMPZ-052-GW033111 | U-235/236 | Filtered | 0.669 | 0.017 | 0.05 | 0.005 |
| PZ-052 | SMPZ-052-GW033111 | U-235/236 | Suspended | 0.0005 U | 0.016 | 0.0031 | 0.0051 |
| PZ-052 | SMPZ-052-GW033111 | U-235/236 | Total | 0.669 | NA | 0.05 | NA |
| PZ-052 | SMPZ-052-GW033111 | U-238 | Filtered | 12.9 | 0.02 | 0.57 | 0.006 |
| PZ-052 | SMPZ-052-GW033111 | U-238 | Suspended | 0.0099 | 0.0053 | 0.0059 | 0.0041 |
| PZ-052 | SMPZ-052-GW033111 | U-238 | Total | 12.9 | NA | 0.57 | NA |
| PZ-055 | SMPZ-055-GW033111 | H-3 | Total | -44 U | 140 | 42 | 70 |
| PZ-056 | SMPZ-056-GW032811 | Ac-227 | Filtered | -5 U | 9.5 | 2.9 | 4.6 |
| PZ-056 | SMPZ-056-GW032811 | Ac-227 | Suspended | 0 U | 3.4 | 1 | 1.7 |
| PZ-056 | SMPZ-056-GW032811 | Ac-227 | Total | -5 | NA | 3.1 | NA |
| PZ-056 | SMPZ-056-GW032811 | Ac-228 | Filtered | 2.1 | 3.5 | 1.1 | 1.6 |
| PZ-056 | SMPZ-056-GW032811 | Ac-228 | Suspended | 1.23 | 1.5 | 0.48 | 0.7 |
| PZ-056 | SMPZ-056-GW032811 | Ac-228 | Total | 3.3 | NA | 1.2 | NA |
| PZ-056 | SMPZ-056-GW032811 | Ag-108 | Filtered | -0.016 U | 0.094 | 0.028 | 0.045 |
| PZ-056 | SMPZ-056-GW032811 | Ag-108 | Suspended | 0.005 U | 0.038 | 0.011 | 0.018 |
| PZ-056 | SMPZ-056-GW032811 | Ag-108 | Total | -0.01 | NA | 0.03 | NA |
| PZ-056 | SMPZ-056-GW032811 | Ag-108m | Filtered | -0.17 U | 1 | 0.3 | 0.48 |
| PZ-056 | SMPZ-056-GW032811 | Ag-108m | Suspended | 0.06 U | 0.41 | 0.12 | 0.19 |
| PZ-056 | SMPZ-056-GW032811 | Ag-108m | Total | -0.11 | NA | 0.32 | NA |
| PZ-056 | SMPZ-056-GW032811 | Ba-133 | Filtered | 0.9 U | 12 | 3.4 | 5.6 |
| PZ-056 | SMPZ-056-GW032811 | Ba-133 | Suspended | 0.09 U | 4.5 | 1.3 | 2.1 |
| PZ-056 | SMPZ-056-GW032811 | Ba-133 | Total | 1 | NA | 3.7 | NA |
| PZ-056 | SMPZ-056-GW032811 | Ba-137m | Filtered | -0.01 U | 1.1 | 0.32 | 0.52 |
| PZ-056 | SMPZ-056-GW032811 | Ba-137m | Suspended | 0 U | 0.52 | 0.15 | 0.25 |
| PZ-056 | SMPZ-056-GW032811 | Ba-137m | Total | -0.01 | NA | 0.35 | NA |
| PZ-056 | SMPZ-056-GW032811 | Bi-212 | Filtered | 0 U | 12 | 3.5 | 5.8 |
| PZ-056 | SMPZ-056-GW032811 | Bi-212 | Suspended | 1.3 U | 3.6 | 1.1 | 1.7 |
| PZ-056 | SMPZ-056-GW032811 | Bi-212 | Total | 1.3 | NA | 3.7 | NA |
| PZ-056 | SMPZ-056-GW032811 | Bi-214 | Filtered | 0.73 U | 2.7 | 0.95 | 1.3 |
| PZ-056 | SMPZ-056-GW032811 | Bi-214 | Suspended | 0.89 | 1.2 | 0.5 | 0.6 |
| PZ-056 | SMPZ-056-GW032811 | Bi-214 | Total | 1.6 | NA | 1.1 | NA |
| PZ-056 | SMPZ-056-GW032811 | Cd-113m | Filtered | 1900 U | 13000 | 3900 | 6400 |
| PZ-056 | SMPZ-056-GW032811 | Cd-113m | Suspended | -700 U | 5600 | 1700 | 2700 |
| PZ-056 | SMPZ-056-GW032811 | Cd-113m | Total | 1200 | NA | 4200 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| PZ-056 | SMPZ-056-GW032811 | Cf-249 | Filtered | -0.3 U | 6.2 | 1.8 | 3 |
| PZ-056 | SMPZ-056-GW032811 | Cf-249 | Suspended | -0.47 U | 2.4 | 0.72 | 1.2 |
| PZ-056 | SMPZ-056-GW032811 | Cf-249 | Total | -0.7 | NA | 1.9 | NA |
| PZ-056 | SMPZ-056-GW032811 | Co-60 | Filtered | 0.21 U | 1.4 | 0.39 | 0.63 |
| PZ-056 | SMPZ-056-GW032811 | Co-60 | Suspended | 0 U | 0.42 | 0.11 | 0.19 |
| PZ-056 | SMPZ-056-GW032811 | Co-60 | Total | 0.21 | NA | 0.41 | NA |
| PZ-056 | SMPZ-056-GW032811 | Cs-134 | Filtered | -0.25 U | 1.1 | 0.34 | 0.54 |
| PZ-056 | SMPZ-056-GW032811 | Cs-134 | Suspended | 0.258 U | 0.66 | 0.075 | 0.32 |
| PZ-056 | SMPZ-056-GW032811 | Cs-134 | Total | 0.005 | NA | 0.34 | NA |
| PZ-056 | SMPZ-056-GW032811 | Cs-137 | Filtered | -0.01 U | 1.2 | 0.34 | 0.55 |
| PZ-056 | SMPZ-056-GW032811 | Cs-137 | Suspended | 0 U | 0.55 | 0.16 | 0.26 |
| PZ-056 | SMPZ-056-GW032811 | Cs-137 | Total | -0.01 | NA | 0.37 | NA |
| PZ-056 | SMPZ-056-GW032811 | Eu-152 | Filtered | 0.24 U | 3.3 | 0.96 | 1.6 |
| PZ-056 | SMPZ-056-GW032811 | Eu-152 | Suspended | -0.17 U | 1.4 | 0.41 | 0.67 |
| PZ-056 | SMPZ-056-GW032811 | Eu-152 | Total | 0.07 | NA | 1 | NA |
| PZ-056 | SMPZ-056-GW032811 | Eu-154 | Filtered | -3.5 U | 12 | 3.5 | 5.6 |
| PZ-056 | SMPZ-056-GW032811 | Eu-154 | Suspended | -0.03 U | 4 | 1.1 | 1.8 |
| PZ-056 | SMPZ-056-GW032811 | Eu-154 | Total | -3.5 | NA | 3.7 | NA |
| PZ-056 | SMPZ-056-GW032811 | Eu-155 | Filtered | 0.08 U | 3.3 | 0.97 | 1.6 |
| PZ-056 | SMPZ-056-GW032811 | Eu-155 | Suspended | 0.03 U | 0.91 | 0.27 | 0.44 |
| PZ-056 | SMPZ-056-GW032811 | Eu-155 | Total | 0.1 | NA | 1 | NA |
| PZ-056 | SMPZ-056-GW032811 | gross_alpha | Filtered | 0.75 L | 0.78 | 0.27 | 0.43 |
| PZ-056 | SMPZ-056-GW032811 | gross_alpha | Suspended | 1.95 | 0.47 | 0.28 | 0.25 |
| PZ-056 | SMPZ-056-GW032811 | gross_alpha | Total | 2.7 | NA | 0.39 | NA |
| PZ-056 | SMPZ-056-GW032811 | gross_beta | Filtered | 1.87 | 1.1 | 0.41 | 0.67 |
| PZ-056 | SMPZ-056-GW032811 | gross_beta | Suspended | 0.96 | 1.2 | 0.4 | 0.72 |
| PZ-056 | SMPZ-056-GW032811 | gross_beta | Total | 2.83 | NA | 0.57 | NA |
| PZ-056 | SMPZ-056-GW032811 | H-3 | Total | 16 U | 150 | 45 | 74 |
| PZ-056 | SMPZ-056-GW032811 | Ho-166m | Filtered | 0.62 U | 1.4 | 0.44 | 0.66 |
| PZ-056 | SMPZ-056-GW032811 | Ho-166m | Suspended | 0.31 U | 0.87 | 0.26 | 0.41 |
| PZ-056 | SMPZ-056-GW032811 | Ho-166m | Total | 0.93 | NA | 0.51 | NA |
| PZ-056 | SMPZ-056-GW032811 | K-40 | Filtered | -1.8 U | 17 | 4.7 | 8 |
| PZ-056 | SMPZ-056-GW032811 | K-40 | Suspended | -5.8 U | 8.7 | 5.3 | 4.1 |
| PZ-056 | SMPZ-056-GW032811 | K-40 | Total | -7.6 | NA | 7.1 | NA |
| PZ-056 | SMPZ-056-GW032811 | Na-22 | Filtered | 0.07 U | 1.4 | 0.39 | 0.64 |
| PZ-056 | SMPZ-056-GW032811 | Na-22 | Suspended | 0.07 U | 0.5 | 0.14 | 0.23 |
| PZ-056 | SMPZ-056-GW032811 | Na-22 | Total | 0.14 | NA | 0.42 | NA |
| PZ-056 | SMPZ-056-GW032811 | Nb-94 | Filtered | 0.38 U | 1.1 | 0.32 | 0.51 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-056 | SMPZ-056-GW032811 | Nb-94 | Suspended | -0.14 U | 0.55 | 0.16 | 0.26 |
| PZ-056 | SMPZ-056-GW032811 | Nb-94 | Total | 0.25 | NA | 0.36 | NA |
| PZ-056 | SMPZ-056-GW032811 | Np-236 | Filtered | 1 U | 2.5 | 0.75 | 1.2 |
| PZ-056 | SMPZ-056-GW032811 | Np-236 | Suspended | -0.18 U | 0.95 | 0.28 | 0.46 |
| PZ-056 | SMPZ-056-GW032811 | Np-236 | Total | 0.82 | NA | 0.81 | NA |
| PZ-056 | SMPZ-056-GW032811 | Np-239 | Filtered | 2.7 U | 7.6 | 2.3 | 3.7 |
| PZ-056 | SMPZ-056-GW032811 | Np-239 | Suspended | -0.59 U | 2.9 | 0.85 | 1.4 |
| PZ-056 | SMPZ-056-GW032811 | Np-239 | Total | 2.1 | NA | 2.4 | NA |
| PZ-056 | SMPZ-056-GW032811 | Pa-231 | Filtered | -11 U | 55 | 16 | 27 |
| PZ-056 | SMPZ-056-GW032811 | Pa-231 | Suspended | -5 U | 20 | 6 | 9.7 |
| PZ-056 | SMPZ-056-GW032811 | Pa-231 | Total | -16 | NA | 17 | NA |
| PZ-056 | SMPZ-056-GW032811 | Pb-212 | Filtered | -0.74 U | 2.3 | 0.91 | 1.1 |
| PZ-056 | SMPZ-056-GW032811 | Pb-212 | Suspended | 0.09 U | 0.85 | 0.24 | 0.41 |
| PZ-056 | SMPZ-056-GW032811 | Pb-212 | Total | -0.64 | NA | 0.94 | NA |
| PZ-056 | SMPZ-056-GW032811 | Pb-214 | Filtered | -0.6 U | 2.8 | 1.2 | 1.4 |
| PZ-056 | SMPZ-056-GW032811 | Pb-214 | Suspended | 0.45 U | 1.1 | 0.31 | 0.54 |
| PZ-056 | SMPZ-056-GW032811 | Pb-214 | Total | -0.1 | NA | 1.3 | NA |
| PZ-056 | SMPZ-056-GW032811 | Sb-125 | Filtered | -0.7 U | 13 | 3.8 | 6.2 |
| PZ-056 | SMPZ-056-GW032811 | Sb-125 | Suspended | -0.6 U | 4.5 | 1.3 | 2.2 |
| PZ-056 | SMPZ-056-GW032811 | Sb-125 | Total | -1.3 | NA | 4 | NA |
| PZ-056 | SMPZ-056-GW032811 | Sn-126 | Filtered | 0.27 U | 1.3 | 0.37 | 0.6 |
| PZ-056 | SMPZ-056-GW032811 | Sn-126 | Suspended | 0.22 U | 0.62 | 0.19 | 0.29 |
| PZ-056 | SMPZ-056-GW032811 | Sn-126 | Total | 0.49 | NA | 0.42 | NA |
| PZ-056 | SMPZ-056-GW032811 | Sr-90 | Filtered | 0.018 U | 0.085 | 0.025 | 0.048 |
| PZ-056 | SMPZ-056-GW032811 | Sr-90 | Suspended | -0.029 U | 0.065 | 0.018 | 0.037 |
| PZ-056 | SMPZ-056-GW032811 | Sr-90 | Total | -0.011 | NA | 0.031 | NA |
| PZ-056 | SMPZ-056-GW032811 | Te-125m | Filtered | -0.15 U | 3 | 0.88 | 1.4 |
| PZ-056 | SMPZ-056-GW032811 | Te-125m | Suspended | -0.15 U | 1 | 0.31 | 0.5 |
| PZ-056 | SMPZ-056-GW032811 | Te-125m | Total | -0.3 | NA | 0.93 | NA |
| PZ-056 | SMPZ-056-GW032811 | Th-231 | Filtered | 0.295 | 0.007 | 0.03 | 0.005 |
| PZ-056 | SMPZ-056-GW032811 | Th-231 | Suspended | 0.0005 U | 0.016 | 0.0031 | 0.005 |
| PZ-056 | SMPZ-056-GW032811 | Th-231 | Total | 0.295 | NA | 0.03 | NA |
| PZ-056 | SMPZ-056-GW032811 | Th-234 | Filtered | 11.2 | 23 | 8.4 | 11 |
| PZ-056 | SMPZ-056-GW032811 | Th-234 | Suspended | 1 U | 4.8 | 1.4 | 2.3 |
| PZ-056 | SMPZ-056-GW032811 | Th-234 | Total | 12.2 | NA | 8.5 | NA |
| PZ-056 | SMPZ-056-GW032811 | Tl-208 | Filtered | -0.05 U | 1.4 | 0.51 | 0.69 |
| PZ-056 | SMPZ-056-GW032811 | Tl-208 | Suspended | -0.4 U | 0.7 | 7.3 | 0.3 |
| PZ-056 | SMPZ-056-GW032811 | Tl-208 | Total | -0.4 | NA | 7.3 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-056 | SMPZ-056-GW032811 | Tm-171 | Filtered | -54 U | 320 | 95 | 160 |
| PZ-056 | SMPZ-056-GW032811 | Tm-171 | Suspended | 23 U | 83 | 25 | 40 |
| PZ-056 | SMPZ-056-GW032811 | Tm-171 | Total | -31 | NA | 98 | NA |
| PZ-056 | SMPZ-056-GW032811 | U-233/234 | Filtered | 5.51 | 0.01 | 0.25 | 0.004 |
| PZ-056 | SMPZ-056-GW032811 | U-233/234 | Suspended | 0.018 | 0.013 | 0.0077 | 0.0041 |
| PZ-056 | SMPZ-056-GW032811 | U-233/234 | Total | 5.53 | NA | 0.25 | NA |
| PZ-056 | SMPZ-056-GW032811 | U-235/236 | Filtered | 0.295 | 0.007 | 0.03 | 0.005 |
| PZ-056 | SMPZ-056-GW032811 | U-235/236 | Suspended | 0.0005 U | 0.016 | 0.0031 | 0.005 |
| PZ-056 | SMPZ-056-GW032811 | U-235/236 | Total | 0.295 | NA | 0.03 | NA |
| PZ-056 | SMPZ-056-GW032811 | U-238 | Filtered | 4.57 | 0.005 | 0.21 | 0.004 |
| PZ-056 | SMPZ-056-GW032811 | U-238 | Suspended | 0.0278 | 0.0053 | 0.0083 | 0.004 |
| PZ-056 | SMPZ-056-GW032811 | U-238 | Total | 4.6 | NA | 0.21 | NA |
| PZ-098 | SMPZ-098-GW032911 | Ac-227 | Filtered | -8.1 L U | 9.6 | 3 | 4.7 |
| PZ-098 | SMPZ-098-GW032911 | Ac-227 | Suspended | -0.03 U | 4.5 | 1.3 | 2.2 |
| PZ-098 | SMPZ-098-GW032911 | Ac-227 | Total | -8.1 L | NA | 3.3 | NA |
| PZ-098 | SMPZ-098-GW032911 | Ac-228 | Filtered | -0.06 U | 3.5 | 0.99 | 1.6 |
| PZ-098 | SMPZ-098-GW032911 | Ac-228 | Suspended | -0.49 U | 2.8 | 0.94 | 1.3 |
| PZ-098 | SMPZ-098-GW032911 | Ac-228 | Total | -0.6 | NA | 1.4 | NA |
| PZ-098 | SMPZ-098-GW032911 | Ag-108 | Filtered | -0.013 U R | 0.098 | 0.029 | 0.047 |
| PZ-098 | SMPZ-098-GW032911 | Ag-108 | Suspended | -0.02 U R | 0.06 | 0.018 | 0.029 |
| PZ-098 | SMPZ-098-GW032911 | Ag-108 | Total | -0.033 R | NA | 0.034 | NA |
| PZ-098 | SMPZ-098-GW032911 | Ag-108m | Filtered | -0.14 U R | 1 | 0.31 | 0.5 |
| PZ-098 | SMPZ-098-GW032911 | Ag-108m | Suspended | -0.21 U R | 0.65 | 0.2 | 0.31 |
| PZ-098 | SMPZ-098-GW032911 | Ag-108m | Total | -0.35 R | NA | 0.36 | NA |
| PZ-098 | SMPZ-098-GW032911 | Ba-133 | Filtered | 1.3 U R | 12 | 3.7 | 6 |
| PZ-098 | SMPZ-098-GW032911 | Ba-133 | Suspended | 1.4 U R | 5.8 | 1.7 | 2.8 |
| PZ-098 | SMPZ-098-GW032911 | Ba-133 | Total | 2.7 R | NA | 4 | NA |
| PZ-098 | SMPZ-098-GW032911 | Ba-137m | Filtered | 0.02 U | 1.2 | 0.35 | 0.57 |
| PZ-098 | SMPZ-098-GW032911 | Ba-137m | Suspended | -0.02 U | 0.72 | 0.21 | 0.35 |
| PZ-098 | SMPZ-098-GW032911 | Ba-137m | Total | -0.005 | NA | 0.41 | NA |
| PZ-098 | SMPZ-098-GW032911 | Bi-212 | Filtered | 12.3 | 5.6 | 2.9 | 2.5 |
| PZ-098 | SMPZ-098-GW032911 | Bi-212 | Suspended | 1.8 U | 5.7 | 1.7 | 2.7 |
| PZ-098 | SMPZ-098-GW032911 | Bi-212 | Total | 14.1 | NA | 3.3 | NA |
| PZ-098 | SMPZ-098-GW032911 | Bi-214 | Filtered | 0.5 U | 2.9 | 1 | 1.4 |
| PZ-098 | SMPZ-098-GW032911 | Bi-214 | Suspended | 1.42 | 1.6 | 0.64 | 0.79 |
| PZ-098 | SMPZ-098-GW032911 | Bi-214 | Total | 1.9 | NA | 1.2 | NA |
| PZ-098 | SMPZ-098-GW032911 | Cd-113m | Filtered | 100 U | 14000 | 4200 | 6900 |
| PZ-098 | SMPZ-098-GW032911 | Cd-113m | Suspended | 1100 U | 6500 | 1900 | 3100 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| PZ-098 | SMPZ-098-GW032911 | Cd-113m | Total | 1200 | NA | 4600 | NA |
| PZ-098 | SMPZ-098-GW032911 | Cf-249 | Filtered | -0.03 U R | 5.8 | 1.7 | 2.8 |
| PZ-098 | SMPZ-098-GW032911 | Cf-249 | Suspended | 0.06 U R | 3.1 | 0.91 | 1.5 |
| PZ-098 | SMPZ-098-GW032911 | Cf-249 | Total | 0.03 R | NA | 1.9 | NA |
| PZ-098 | SMPZ-098-GW032911 | Co-60 | Filtered | 0.06 U | 1.3 | 0.37 | 0.61 |
| PZ-098 | SMPZ-098-GW032911 | Co-60 | Suspended | 0 U | 0.97 | 0.28 | 0.46 |
| PZ-098 | SMPZ-098-GW032911 | Co-60 | Total | 0.06 | NA | 0.46 | NA |
| PZ-098 | SMPZ-098-GW032911 | Cs-134 | Filtered | -0.24 U | 1.2 | 0.34 | 0.55 |
| PZ-098 | SMPZ-098-GW032911 | Cs-134 | Suspended | -0.12 U | 0.79 | 0.23 | 0.38 |
| PZ-098 | SMPZ-098-GW032911 | Cs-134 | Total | -0.35 | NA | 0.41 | NA |
| PZ-098 | SMPZ-098-GW032911 | Cs-137 | Filtered | 0.02 U | 1.3 | 0.37 | 0.61 |
| PZ-098 | SMPZ-098-GW032911 | Cs-137 | Suspended | -0.02 U | 0.76 | 0.22 | 0.37 |
| PZ-098 | SMPZ-098-GW032911 | Cs-137 | Total | -0.005 | NA | 0.43 | NA |
| PZ-098 | SMPZ-098-GW032911 | Eu-152 | Filtered | 0.34 U | 3.2 | 0.93 | 1.5 |
| PZ-098 | SMPZ-098-GW032911 | Eu-152 | Suspended | 0.07 U | 1.9 | 0.55 | 0.91 |
| PZ-098 | SMPZ-098-GW032911 | Eu-152 | Total | 0.4 | NA | 1.1 | NA |
| PZ-098 | SMPZ-098-GW032911 | Eu-154 | Filtered | 0.2 U | 9.7 | 2.7 | 4.5 |
| PZ-098 | SMPZ-098-GW032911 | Eu-154 | Suspended | 1.5 U | 5.7 | 1.7 | 2.7 |
| PZ-098 | SMPZ-098-GW032911 | Eu-154 | Total | 1.7 | NA | 3.2 | NA |
| PZ-098 | SMPZ-098-GW032911 | Eu-155 | Filtered | 0.84 U | 3.3 | 0.99 | 1.6 |
| PZ-098 | SMPZ-098-GW032911 | Eu-155 | Suspended | -0.1 U | 1.4 | 0.41 | 0.68 |
| PZ-098 | SMPZ-098-GW032911 | Eu-155 | Total | 0.7 | NA | 1.1 | NA |
| PZ-098 | SMPZ-098-GW032911 | gross_alpha | Filtered | 8.77 | 0.41 | 0.63 | 0.21 |
| PZ-098 | SMPZ-098-GW032911 | gross_alpha | Suspended | 0.26 U | 0.51 | 0.16 | 0.27 |
| PZ-098 | SMPZ-098-GW032911 | gross_alpha | Total | 9.03 | NA | 0.65 | NA |
| PZ-098 | SMPZ-098-GW032911 | gross_beta | Filtered | 3.42 | 2.8 | 0.98 | 1.6 |
| PZ-098 | SMPZ-098-GW032911 | gross_beta | Suspended | 0.68 | 0.87 | 0.28 | 0.52 |
| PZ-098 | SMPZ-098-GW032911 | gross_beta | Total | 4.1 | NA | 1 | NA |
| PZ-098 | SMPZ-098-GW032911 | H-3 | Total | -20 U | 140 | 41 | 68 |
| PZ-098 | SMPZ-098-GW032911 | Ho-166m | Filtered | 0.1 U | 1.5 | 0.42 | 0.69 |
| PZ-098 | SMPZ-098-GW032911 | Ho-166m | Suspended | 0.3 U | 1.1 | 0.33 | 0.54 |
| PZ-098 | SMPZ-098-GW032911 | Ho-166m | Total | 0.4 | NA | 0.54 | NA |
| PZ-098 | SMPZ-098-GW032911 | K-40 | Filtered | -11 U | 18 | 16 | 9 |
| PZ-098 | SMPZ-098-GW032911 | K-40 | Suspended | -1 U | 12 | 3.9 | 5.9 |
| PZ-098 | SMPZ-098-GW032911 | K-40 | Total | -12 | NA | 16 | NA |
| PZ-098 | SMPZ-098-GW032911 | Na-22 | Filtered | -0.003 U | 1.2 | 0.35 | 0.57 |
| PZ-098 | SMPZ-098-GW032911 | Na-22 | Suspended | 0 U | 1 | 0.29 | 0.48 |
| PZ-098 | SMPZ-098-GW032911 | Na-22 | Total | -0.003 | NA | 0.45 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-098 | SMPZ-098-GW032911 | Nb-94 | Filtered | 0.002 U | 1.1 | 0.31 | 0.51 |
| PZ-098 | SMPZ-098-GW032911 | Nb-94 | Suspended | -0.17 U | 0.69 | 0.2 | 0.33 |
| PZ-098 | SMPZ-098-GW032911 | Nb-94 | Total | -0.17 | NA | 0.37 | NA |
| PZ-098 | SMPZ-098-GW032911 | Np-236 | Filtered | -0.48 U | 3 | 0.9 | 1.5 |
| PZ-098 | SMPZ-098-GW032911 | Np-236 | Suspended | -0.16 U | 1.3 | 0.38 | 0.62 |
| PZ-098 | SMPZ-098-GW032911 | Np-236 | Total | -0.64 | NA | 0.98 | NA |
| PZ-098 | SMPZ-098-GW032911 | Np-239 | Filtered | 0.4 U | 7.7 | 2.3 | 3.7 |
| PZ-098 | SMPZ-098-GW032911 | Np-239 | Suspended | 0.7 U | 3.7 | 1.1 | 1.8 |
| PZ-098 | SMPZ-098-GW032911 | Np-239 | Total | 1.1 | NA | 2.5 | NA |
| PZ-098 | SMPZ-098-GW032911 | Pa-231 | Filtered | 15 U | 51 | 15 | 25 |
| PZ-098 | SMPZ-098-GW032911 | Pa-231 | Suspended | -3.4 U | 27 | 7.9 | 13 |
| PZ-098 | SMPZ-098-GW032911 | Pa-231 | Total | 11 | NA | 17 | NA |
| PZ-098 | SMPZ-098-GW032911 | Pb-212 | Filtered | 0.61 U | 2.4 | 0.77 | 1.2 |
| PZ-098 | SMPZ-098-GW032911 | Pb-212 | Suspended | 0.17 U | 1.1 | 0.36 | 0.52 |
| PZ-098 | SMPZ-098-GW032911 | Pb-212 | Total | 0.78 | NA | 0.84 | NA |
| PZ-098 | SMPZ-098-GW032911 | Pb-214 | Filtered | 1.4 | 2.6 | 1 | 1.2 |
| PZ-098 | SMPZ-098-GW032911 | Pb-214 | Suspended | 1.53 | 1.4 | 0.56 | 0.67 |
| PZ-098 | SMPZ-098-GW032911 | Pb-214 | Total | 2.9 | NA | 1.2 | NA |
| PZ-098 | SMPZ-098-GW032911 | Sb-125 | Filtered | -3 U | 13 | 4 | 6.4 |
| PZ-098 | SMPZ-098-GW032911 | Sb-125 | Suspended | -0.9 U | 5.6 | 1.7 | 2.7 |
| PZ-098 | SMPZ-098-GW032911 | Sb-125 | Total | -3.9 | NA | 4.3 | NA |
| PZ-098 | SMPZ-098-GW032911 | Sn-126 | Filtered | -0.007 U | 1.3 | 0.36 | 0.6 |
| PZ-098 | SMPZ-098-GW032911 | Sn-126 | Suspended | 0.29 U | 0.8 | 0.24 | 0.38 |
| PZ-098 | SMPZ-098-GW032911 | Sn-126 | Total | 0.28 | NA | 0.44 | NA |
| PZ-098 | SMPZ-098-GW032911 | Sr-90 | Filtered | 0.026 U | 0.16 | 0.046 | 0.083 |
| PZ-098 | SMPZ-098-GW032911 | Sr-90 | Suspended | 0.006 U | 0.055 | 0.016 | 0.031 |
| PZ-098 | SMPZ-098-GW032911 | Sr-90 | Total | 0.032 | NA | 0.049 | NA |
| PZ-098 | SMPZ-098-GW032911 | Te-125m | Filtered | -0.7 U | 3.1 | 0.92 | 1.5 |
| PZ-098 | SMPZ-098-GW032911 | Te-125m | Suspended | -0.21 U | 1.3 | 0.39 | 0.63 |
| PZ-098 | SMPZ-098-GW032911 | Te-125m | Total | -0.912 | NA | 0.996 | NA |
| PZ-098 | SMPZ-098-GW032911 | Th-231 | Filtered | 0.239 | 0.007 | 0.026 | 0.006 |
| PZ-098 | SMPZ-098-GW032911 | Th-231 | Suspended | 0.0049 U | 0.0066 | 0.0035 | 0.0051 |
| PZ-098 | SMPZ-098-GW032911 | Th-231 | Total | 0.244 | NA | 0.026 | NA |
| PZ-098 | SMPZ-098-GW032911 | Th-234 | Filtered | 9.6 U | 20 | 6.6 | 9.8 |
| PZ-098 | SMPZ-098-GW032911 | Th-234 | Suspended | 3.2 U | 8.7 | 2.8 | 4.3 |
| PZ-098 | SMPZ-098-GW032911 | Th-234 | Total | 12.8 | NA | 7.1 | NA |
| PZ-098 | SMPZ-098-GW032911 | Tl-208 | Filtered | 0.74 | 1.5 | 0.56 | 0.71 |
| PZ-098 | SMPZ-098-GW032911 | Tl-208 | Suspended | -0.16 U | 0.71 | 0.29 | 0.34 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-098 | SMPZ-098-GW032911 | Tl-208 | Total | 0.58 | NA | 0.63 | NA |
| PZ-098 | SMPZ-098-GW032911 | Tm-171 | Filtered | 166 | 320 | 97 | 150 |
| PZ-098 | SMPZ-098-GW032911 | Tm-171 | Suspended | 55 | 100 | 31 | 50 |
| PZ-098 | SMPZ-098-GW032911 | Tm-171 | Total | 220 | NA | 100 | NA |
| PZ-098 | SMPZ-098-GW032911 | U-233/234 | Filtered | 5.54 | 0.01 | 0.25 | 0.005 |
| PZ-098 | SMPZ-098-GW032911 | U-233/234 | Suspended | 0.0115 | 0.013 | 0.007 | 0.0041 |
| PZ-098 | SMPZ-098-GW032911 | U-233/234 | Total | 5.55 | NA | 0.25 | NA |
| PZ-098 | SMPZ-098-GW032911 | U-235/236 | Filtered | 0.239 | 0.007 | 0.026 | 0.006 |
| PZ-098 | SMPZ-098-GW032911 | U-235/236 | Suspended | 0.0049 U | 0.0066 | 0.0035 | 0.0051 |
| PZ-098 | SMPZ-098-GW032911 | U-235/236 | Total | 0.244 | NA | 0.026 | NA |
| PZ-098 | SMPZ-098-GW032911 | U-238 | Filtered | 5.26 | 0.01 | 0.24 | 0.004 |
| PZ-098 | SMPZ-098-GW032911 | U-238 | Suspended | 0.0083 | 0.013 | 0.0061 | 0.0041 |
| PZ-098 | SMPZ-098-GW032911 | U-238 | Total | 5.27 | NA | 0.24 | NA |
| PZ-100 | SMPZ-100-GW031811 | Ac-227 | Filtered | -0.2 U | 13 | 3.8 | 6.3 |
| PZ-100 | SMPZ-100-GW031811 | Ac-227 | Suspended | -2.1 U | 4.1 | 1.3 | 2 |
| PZ-100 | SMPZ-100-GW031811 | Ac-227 | Total | -2.2 | NA | 4 | NA |
| PZ-100 | SMPZ-100-GW031811 | Ac-228 | Filtered | 3.5 | 4.6 | 1.5 | 2.1 |
| PZ-100 | SMPZ-100-GW031811 | Ac-228 | Suspended | 1.5 | 2.2 | 0.68 | 0.98 |
| PZ-100 | SMPZ-100-GW031811 | Ac-228 | Total | 5 | NA | 1.6 | NA |
| PZ-100 | SMPZ-100-GW031811 | Ag-108 | Filtered | 0.032 U | 0.11 | 0.032 | 0.05 |
| PZ-100 | SMPZ-100-GW031811 | Ag-108 | Suspended | 0.015 U | 0.035 | 0.01 | 0.016 |
| PZ-100 | SMPZ-100-GW031811 | Ag-108 | Total | 0.047 | NA | 0.033 | NA |
| PZ-100 | SMPZ-100-GW031811 | Ag-108m | Filtered | 0.34 U | 1.1 | 0.34 | 0.54 |
| PZ-100 | SMPZ-100-GW031811 | Ag-108m | Suspended | 0.16 U | 0.37 | 0.11 | 0.17 |
| PZ-100 | SMPZ-100-GW031811 | Ag-108m | Total | 0.5 | NA | 0.36 | NA |
| PZ-100 | SMPZ-100-GW031811 | Ba-133 | Filtered | 0.8 U | 12 | 3.5 | 5.7 |
| PZ-100 | SMPZ-100-GW031811 | Ba-133 | Suspended | 2.1 | 4.1 | 1.3 | 1.9 |
| PZ-100 | SMPZ-100-GW031811 | Ba-133 | Total | 2.8 | NA | 3.7 | NA |
| PZ-100 | SMPZ-100-GW031811 | Ba-137m | Filtered | 0.1 U | 1.3 | 0.37 | 0.6 |
| PZ-100 | SMPZ-100-GW031811 | Ba-137m | Suspended | -0.002 U | 0.58 | 0.16 | 0.27 |
| PZ-100 | SMPZ-100-GW031811 | Ba-137m | Total | 0.09 | NA | 0.4 | NA |
| PZ-100 | SMPZ-100-GW031811 | Bi-212 | Filtered | -7 U | 14 | 33 | 6 |
| PZ-100 | SMPZ-100-GW031811 | Bi-212 | Suspended | -1.7 U | 5.8 | 3.9 | 2.7 |
| PZ-100 | SMPZ-100-GW031811 | Bi-212 | Total | -8 | NA | 34 | NA |
| PZ-100 | SMPZ-100-GW031811 | Bi-214 | Filtered | 0.04 U | 3.7 | 0.96 | 1.8 |
| PZ-100 | SMPZ-100-GW031811 | Bi-214 | Suspended | 1.18 | 1.4 | 0.5 | 0.68 |
| PZ-100 | SMPZ-100-GW031811 | Bi-214 | Total | 1.2 | NA | 1.1 | NA |
| PZ-100 | SMPZ-100-GW031811 | Cd-113m | Filtered | 1000 U | 16000 | 4700 | 7800 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-100 | SMPZ-100-GW031811 | Cd-113m | Suspended | -1500 U | 6300 | 1900 | 3000 |
| PZ-100 | SMPZ-100-GW031811 | Cd-113m | Total | -400 | NA | 5100 | NA |
| PZ-100 | SMPZ-100-GW031811 | Cf-249 | Filtered | 0.3 U | 6.3 | 1.8 | 3 |
| PZ-100 | SMPZ-100-GW031811 | Cf-249 | Suspended | -0.72 U | 3.1 | 0.91 | 1.5 |
| PZ-100 | SMPZ-100-GW031811 | Cf-249 | Total | -0.5 | NA | 2 | NA |
| PZ-100 | SMPZ-100-GW031811 | Co-60 | Filtered | 0.2 U | 1.8 | 0.51 | 0.83 |
| PZ-100 | SMPZ-100-GW031811 | Co-60 | Suspended | 0.31 U | 0.75 | 0.22 | 0.34 |
| PZ-100 | SMPZ-100-GW031811 | Co-60 | Total | 0.5 | NA | 0.56 | NA |
| PZ-100 | SMPZ-100-GW031811 | Cs-134 | Filtered | -0.24 U | 1.6 | 0.46 | 0.74 |
| PZ-100 | SMPZ-100-GW031811 | Cs-134 | Suspended | 0.08 U | 0.68 | 0.2 | 0.32 |
| PZ-100 | SMPZ-100-GW031811 | Cs-134 | Total | -0.17 | NA | 0.5 | NA |
| PZ-100 | SMPZ-100-GW031811 | Cs-137 | Filtered | 0.1 U | 1.4 | 0.39 | 0.63 |
| PZ-100 | SMPZ-100-GW031811 | Cs-137 | Suspended | -0.002 U | 0.61 | 0.17 | 0.28 |
| PZ-100 | SMPZ-100-GW031811 | Cs-137 | Total | 0.1 | NA | 0.43 | NA |
| PZ-100 | SMPZ-100-GW031811 | Eu-152 | Filtered | 0.7 U | 4 | 1.2 | 1.9 |
| PZ-100 | SMPZ-100-GW031811 | Eu-152 | Suspended | 0.51 U | 1.5 | 0.45 | 0.71 |
| PZ-100 | SMPZ-100-GW031811 | Eu-152 | Total | 1.2 | NA | 1.3 | NA |
| PZ-100 | SMPZ-100-GW031811 | Eu-154 | Filtered | -2.7 U | 14 | 4.1 | 6.6 |
| PZ-100 | SMPZ-100-GW031811 | Eu-154 | Suspended | 0.8 U | 5 | 1.4 | 2.3 |
| PZ-100 | SMPZ-100-GW031811 | Eu-154 | Total | -1.9 | NA | 4.4 | NA |
| PZ-100 | SMPZ-100-GW031811 | Eu-155 | Filtered | -0.75 U | 3.2 | 0.94 | 1.5 |
| PZ-100 | SMPZ-100-GW031811 | Eu-155 | Suspended | 0.06 U | 0.89 | 0.26 | 0.43 |
| PZ-100 | SMPZ-100-GW031811 | Eu-155 | Total | -0.69 | NA | 0.98 | NA |
| PZ-100 | SMPZ-100-GW031811 | gross_alpha | Filtered | 25.9 L | 0.5 | 1.4 | 0.3 |
| PZ-100 | SMPZ-100-GW031811 | gross_alpha | Suspended | 1 | 0.44 | 0.21 | 0.23 |
| PZ-100 | SMPZ-100-GW031811 | gross_alpha | Total | 26.9 | NA | 1.4 | NA |
| PZ-100 | SMPZ-100-GW031811 | gross_beta | Filtered | 9.1 | 4.1 | 1.6 | 2.3 |
| PZ-100 | SMPZ-100-GW031811 | gross_beta | Suspended | 0.96 | 1.1 | 0.36 | 0.67 |
| PZ-100 | SMPZ-100-GW031811 | gross_beta | Total | 10.1 | NA | 1.7 | NA |
| PZ-100 | SMPZ-100-GW031811 | H-3 | Total | -30 U | 190 | 56 | 94 |
| PZ-100 | SMPZ-100-GW031811 | Ho-166m | Filtered | -0.05 U | 2.2 | 0.61 | 1 |
| PZ-100 | SMPZ-100-GW031811 | Ho-166m | Suspended | -0.04 U | 0.95 | 0.27 | 0.44 |
| PZ-100 | SMPZ-100-GW031811 | Ho-166m | Total | -0.1 | NA | 0.67 | NA |
| PZ-100 | SMPZ-100-GW031811 | K-40 | Filtered | -14 U | 23 | 19 | 11 |
| PZ-100 | SMPZ-100-GW031811 | K-40 | Suspended | 2.8 U | 9.8 | 2.5 | 4.5 |
| PZ-100 | SMPZ-100-GW031811 | K-40 | Total | -12 | NA | 19 | NA |
| PZ-100 | SMPZ-100-GW031811 | Na-22 | Filtered | -0.04 U | 1.8 | 0.49 | 0.81 |
| PZ-100 | SMPZ-100-GW031811 | Na-22 | Suspended | 0.21 U | 0.74 | 0.22 | 0.33 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-100 | SMPZ-100-GW031811 | Na-22 | Total | 0.17 | NA | 0.54 | NA |
| PZ-100 | SMPZ-100-GW031811 | Nb-94 | Filtered | -0.03 U | 1.2 | 0.35 | 0.58 |
| PZ-100 | SMPZ-100-GW031811 | Nb-94 | Suspended | -0.08 U | 0.67 | 0.19 | 0.31 |
| PZ-100 | SMPZ-100-GW031811 | Nb-94 | Total | -0.11 | NA | 0.4 | NA |
| PZ-100 | SMPZ-100-GW031811 | Np-236 | Filtered | -0.55 U | 3.1 | 0.91 | 1.5 |
| PZ-100 | SMPZ-100-GW031811 | Np-236 | Suspended | -0.02 U | 1 | 0.31 | 0.5 |
| PZ-100 | SMPZ-100-GW031811 | Np-236 | Total | -0.56 | NA | 0.96 | NA |
| PZ-100 | SMPZ-100-GW031811 | Np-239 | Filtered | -0.3 U | 8.9 | 2.6 | 4.3 |
| PZ-100 | SMPZ-100-GW031811 | Np-239 | Suspended | -0.02 U | 3.2 | 0.94 | 1.5 |
| PZ-100 | SMPZ-100-GW031811 | Np-239 | Total | -0.4 | NA | 2.8 | NA |
| PZ-100 | SMPZ-100-GW031811 | Pa-231 | Filtered | 1 U | 71 | 21 | 34 |
| PZ-100 | SMPZ-100-GW031811 | Pa-231 | Suspended | 9.7 U | 24 | 7.1 | 11 |
| PZ-100 | SMPZ-100-GW031811 | Pa-231 | Total | 11 | NA | 22 | NA |
| PZ-100 | SMPZ-100-GW031811 | Pb-212 | Filtered | 1.86 | 2.3 | 0.74 | 1.1 |
| PZ-100 | SMPZ-100-GW031811 | Pb-212 | Suspended | 0.55 | 1 | 0.37 | 0.5 |
| PZ-100 | SMPZ-100-GW031811 | Pb-212 | Total | 2.41 | NA | 0.83 | NA |
| PZ-100 | SMPZ-100-GW031811 | Pb-214 | Filtered | 1.1 U | 3.3 | 1.2 | 1.6 |
| PZ-100 | SMPZ-100-GW031811 | Pb-214 | Suspended | 0.64 | 1.3 | 0.42 | 0.6 |
| PZ-100 | SMPZ-100-GW031811 | Pb-214 | Total | 1.7 | NA | 1.3 | NA |
| PZ-100 | SMPZ-100-GW031811 | Sb-125 | Filtered | -2.5 U | 14 | 4.1 | 6.7 |
| PZ-100 | SMPZ-100-GW031811 | Sb-125 | Suspended | 0.5 U | 4.8 | 1.4 | 2.3 |
| PZ-100 | SMPZ-100-GW031811 | Sb-125 | Total | -2 | NA | 4.4 | NA |
| PZ-100 | SMPZ-100-GW031811 | Sn-126 | Filtered | 0.35 U | 1.5 | 0.45 | 0.72 |
| PZ-100 | SMPZ-100-GW031811 | Sn-126 | Suspended | 0.29 U | 0.69 | 0.21 | 0.32 |
| PZ-100 | SMPZ-100-GW031811 | Sn-126 | Total | 0.64 | NA | 0.5 | NA |
| PZ-100 | SMPZ-100-GW031811 | Sr-90 | Filtered | 0.115 U | 0.25 | 0.076 | 0.15 |
| PZ-100 | SMPZ-100-GW031811 | Sr-90 | Suspended | -0.038 U | 0.18 | 0.049 | 0.11 |
| PZ-100 | SMPZ-100-GW031811 | Sr-90 | Total | 0.076 | NA | 0.09 | NA |
| PZ-100 | SMPZ-100-GW031811 | Te-125m | Filtered | -0.58 U | 3.2 | 0.96 | 1.6 |
| PZ-100 | SMPZ-100-GW031811 | Te-125m | Suspended | 0.12 U | 1.1 | 0.33 | 0.54 |
| PZ-100 | SMPZ-100-GW031811 | Te-125m | Total | -0.5 | NA | 1 | NA |
| PZ-100 | SMPZ-100-GW031811 | Th-231 | Filtered | 0.623 | 0.008 | 0.051 | 0.006 |
| PZ-100 | SMPZ-100-GW031811 | Th-231 | Suspended | 0 U | 0.0061 | 0.0018 | 0.0047 |
| PZ-100 | SMPZ-100-GW031811 | Th-231 | Total | 0.623 | NA | 0.051 | NA |
| PZ-100 | SMPZ-100-GW031811 | Th-234 | Filtered | 12.9 | 23 | 7.6 | 11 |
| PZ-100 | SMPZ-100-GW031811 | Th-234 | Suspended | -1.8 U | 6.8 | 2.6 | 3.3 |
| PZ-100 | SMPZ-100-GW031811 | Th-234 | Total | 11 | NA | 8.1 | NA |
| PZ-100 | SMPZ-100-GW031811 | Tl-208 | Filtered | 0.93 | 1.5 | 0.46 | 0.68 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-100 | SMPZ-100-GW031811 | Tl-208 | Suspended | 0.5 | 0.66 | 0.22 | 0.31 |
| PZ-100 | SMPZ-100-GW031811 | Tl-208 | Total | 1.43 | NA | 0.51 | NA |
| PZ-100 | SMPZ-100-GW031811 | Tm-171 | Filtered | 29 U | 330 | 98 | 160 |
| PZ-100 | SMPZ-100-GW031811 | Tm-171 | Suspended | -21 U | 95 | 28 | 46 |
| PZ-100 | SMPZ-100-GW031811 | Tm-171 | Total | 7 | NA | 100 | NA |
| PZ-100 | SMPZ-100-GW031811 | U-233/234 | Filtered | 15 | 0.007 | 0.66 | 0.005 |
| PZ-100 | SMPZ-100-GW031811 | U-233/234 | Suspended | 0.027 | 0.015 | 0.0088 | 0.0053 |
| PZ-100 | SMPZ-100-GW031811 | U-233/234 | Total | 15 | NA | 0.66 | NA |
| PZ-100 | SMPZ-100-GW031811 | U-235/236 | Filtered | 0.623 | 0.008 | 0.051 | 0.006 |
| PZ-100 | SMPZ-100-GW031811 | U-235/236 | Suspended | 0 U | 0.0061 | 0.0018 | 0.0047 |
| PZ-100 | SMPZ-100-GW031811 | U-235/236 | Total | 0.623 | NA | 0.051 | NA |
| PZ-100 | SMPZ-100-GW031811 | U-238 | Filtered | 13.7 | 0.007 | 0.6 | 0.005 |
| PZ-100 | SMPZ-100-GW031811 | U-238 | Suspended | 0.0215 | 0.0049 | 0.0072 | 0.0037 |
| PZ-100 | SMPZ-100-GW031811 | U-238 | Total | 13.7 | NA | 0.6 | NA |
| PZ-101 | SMPZ-101-GW032811 | Ac-227 | Filtered | -1.3 U | 7.5 | 2.2 | 3.6 |
| PZ-101 | SMPZ-101-GW032811 | Ac-227 | Suspended | 0 U | 5.2 | 1.5 | 2.5 |
| PZ-101 | SMPZ-101-GW032811 | Ac-227 | Total | -1.3 | NA | 2.7 | NA |
| PZ-101 | SMPZ-101-GW032811 | Ac-228 | Filtered | 2.6 | 4 | 1.2 | 1.9 |
| PZ-101 | SMPZ-101-GW032811 | Ac-228 | Suspended | 0.29 U | 2.9 | 0.74 | 1.4 |
| PZ-101 | SMPZ-101-GW032811 | Ac-228 | Total | 2.9 | NA | 1.5 | NA |
| PZ-101 | SMPZ-101-GW032811 | Ag-108 | Filtered | 0.023 U | 0.081 | 0.024 | 0.038 |
| PZ-101 | SMPZ-101-GW032811 | Ag-108 | Suspended | 0.014 U | 0.047 | 0.014 | 0.023 |
| PZ-101 | SMPZ-101-GW032811 | Ag-108 | Total | 0.038 | NA | 0.028 | NA |
| PZ-101 | SMPZ-101-GW032811 | Ag-108m | Filtered | 0.25 U | 0.87 | 0.26 | 0.41 |
| PZ-101 | SMPZ-101-GW032811 | Ag-108m | Suspended | 0.15 U | 0.51 | 0.15 | 0.24 |
| PZ-101 | SMPZ-101-GW032811 | Ag-108m | Total | 0.4 | NA | 0.3 | NA |
| PZ-101 | SMPZ-101-GW032811 | Ba-133 | Filtered | -0.2 U | 13 | 3.8 | 6.3 |
| PZ-101 | SMPZ-101-GW032811 | Ba-133 | Suspended | -0.06 U | 5.8 | 1.7 | 2.8 |
| PZ-101 | SMPZ-101-GW032811 | Ba-133 | Total | -0.3 | NA | 4.2 | NA |
| PZ-101 | SMPZ-101-GW032811 | Ba-137m | Filtered | 0.38 U | 1.1 | 0.33 | 0.52 |
| PZ-101 | SMPZ-101-GW032811 | Ba-137m | Suspended | 0.17 U | 0.68 | 0.2 | 0.32 |
| PZ-101 | SMPZ-101-GW032811 | Ba-137m | Total | 0.55 | NA | 0.39 | NA |
| PZ-101 | SMPZ-101-GW032811 | Bi-212 | Filtered | 3 U | 9.3 | 2.8 | 4.4 |
| PZ-101 | SMPZ-101-GW032811 | Bi-212 | Suspended | 1.3 U | 5.8 | 1.7 | 2.8 |
| PZ-101 | SMPZ-101-GW032811 | Bi-212 | Total | 4.3 | NA | 3.3 | NA |
| PZ-101 | SMPZ-101-GW032811 | Bi-214 | Filtered | -1 U | 3.1 | 1.5 | 1.5 |
| PZ-101 | SMPZ-101-GW032811 | Bi-214 | Suspended | 2.22 | 1.5 | 0.62 | 0.74 |
| PZ-101 | SMPZ-101-GW032811 | Bi-214 | Total | 1.2 | NA | 1.6 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-101 | SMPZ-101-GW032811 | Cd-113m | Filtered | -900 U | 15000 | 4400 | 7200 |
| PZ-101 | SMPZ-101-GW032811 | Cd-113m | Suspended | 100 U | 7300 | 2100 | 3500 |
| PZ-101 | SMPZ-101-GW032811 | Cd-113m | Total | -700 | NA | 4900 | NA |
| PZ-101 | SMPZ-101-GW032811 | Cf-249 | Filtered | -1.4 U | 5.9 | 1.8 | 2.8 |
| PZ-101 | SMPZ-101-GW032811 | Cf-249 | Suspended | -0.19 U | 3.2 | 0.94 | 1.5 |
| PZ-101 | SMPZ-101-GW032811 | Cf-249 | Total | -1.6 | NA | 2 | NA |
| PZ-101 | SMPZ-101-GW032811 | Co-60 | Filtered | -0.29 U | 1.4 | 0.4 | 0.64 |
| PZ-101 | SMPZ-101-GW032811 | Co-60 | Suspended | 0.05 U | 0.71 | 0.2 | 0.33 |
| PZ-101 | SMPZ-101-GW032811 | Co-60 | Total | -0.24 | NA | 0.45 | NA |
| PZ-101 | SMPZ-101-GW032811 | Cs-134 | Filtered | -0.34 U | 1.3 | 0.38 | 0.6 |
| PZ-101 | SMPZ-101-GW032811 | Cs-134 | Suspended | 0.25 U | 0.7 | 0.21 | 0.34 |
| PZ-101 | SMPZ-101-GW032811 | Cs-134 | Total | -0.09 | NA | 0.43 | NA |
| PZ-101 | SMPZ-101-GW032811 | Cs-137 | Filtered | 0.4 U | 1.2 | 0.35 | 0.55 |
| PZ-101 | SMPZ-101-GW032811 | Cs-137 | Suspended | 0.18 U | 0.72 | 0.21 | 0.34 |
| PZ-101 | SMPZ-101-GW032811 | Cs-137 | Total | 0.58 | NA | 0.41 | NA |
| PZ-101 | SMPZ-101-GW032811 | Eu-152 | Filtered | 1.42 | 2.8 | 0.86 | 1.3 |
| PZ-101 | SMPZ-101-GW032811 | Eu-152 | Suspended | -0.48 U | 1.9 | 0.57 | 0.92 |
| PZ-101 | SMPZ-101-GW032811 | Eu-152 | Total | 0.9 | NA | 1 | NA |
| PZ-101 | SMPZ-101-GW032811 | Eu-154 | Filtered | 0.3 U | 9.5 | 2.7 | 4.4 |
| PZ-101 | SMPZ-101-GW032811 | Eu-154 | Suspended | 0.6 U | 6.2 | 1.8 | 2.9 |
| PZ-101 | SMPZ-101-GW032811 | Eu-154 | Total | 0.9 | NA | 3.2 | NA |
| PZ-101 | SMPZ-101-GW032811 | Eu-155 | Filtered | 0.2 U | 3 | 0.89 | 1.5 |
| PZ-101 | SMPZ-101-GW032811 | Eu-155 | Suspended | -0.29 U | 1.4 | 0.42 | 0.68 |
| PZ-101 | SMPZ-101-GW032811 | Eu-155 | Total | -0.09 | NA | 0.99 | NA |
| PZ-101 | SMPZ-101-GW032811 | gross_alpha | Filtered | 7.91 L | 0.67 | 0.69 | 0.36 |
| PZ-101 | SMPZ-101-GW032811 | gross_alpha | Suspended | 5.08 | 0.57 | 0.52 | 0.3 |
| PZ-101 | SMPZ-101-GW032811 | gross_alpha | Total | 13 | NA | 0.86 | NA |
| PZ-101 | SMPZ-101-GW032811 | gross_beta | Filtered | 2.33 | 2.3 | 0.76 | 1.3 |
| PZ-101 | SMPZ-101-GW032811 | gross_beta | Suspended | 8.27 | 1.2 | 0.7 | 0.67 |
| PZ-101 | SMPZ-101-GW032811 | gross_beta | Total | 10.6 | NA | 1 | NA |
| PZ-101 | SMPZ-101-GW032811 | H-3 | Total | 46 U | 150 | 45 | 72 |
| PZ-101 | SMPZ-101-GW032811 | Ho-166m | Filtered | 0.004 U | 1.8 | 0.52 | 0.85 |
| PZ-101 | SMPZ-101-GW032811 | Ho-166m | Suspended | 0 U | 1.3 | 0.36 | 0.6 |
| PZ-101 | SMPZ-101-GW032811 | Ho-166m | Total | 0.004 | NA | 0.63 | NA |
| PZ-101 | SMPZ-101-GW032811 | K-40 | Filtered | 2.1 U | 15 | 3.9 | 7 |
| PZ-101 | SMPZ-101-GW032811 | K-40 | Suspended | -3.9 U | 13 | 3.9 | 6.2 |
| PZ-101 | SMPZ-101-GW032811 | K-40 | Total | -1.8 | NA | 5.5 | NA |
| PZ-101 | SMPZ-101-GW032811 | Na-22 | Filtered | -0.08 U | 1.4 | 0.39 | 0.63 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-101 | SMPZ-101-GW032811 | Na-22 | Suspended | 0.03 U | 0.59 | 0.17 | 0.27 |
| PZ-101 | SMPZ-101-GW032811 | Na-22 | Total | -0.05 | NA | 0.42 | NA |
| PZ-101 | SMPZ-101-GW032811 | Nb-94 | Filtered | -0.001 U | 1.1 | 0.33 | 0.54 |
| PZ-101 | SMPZ-101-GW032811 | Nb-94 | Suspended | -0.02 U | 0.75 | 0.22 | 0.36 |
| PZ-101 | SMPZ-101-GW032811 | Nb-94 | Total | -0.02 | NA | 0.4 | NA |
| PZ-101 | SMPZ-101-GW032811 | Np-236 | Filtered | -0.05 U | 3 | 0.88 | 1.5 |
| PZ-101 | SMPZ-101-GW032811 | Np-236 | Suspended | 0.03 U | 1.3 | 0.38 | 0.63 |
| PZ-101 | SMPZ-101-GW032811 | Np-236 | Total | -0.01 | NA | 0.96 | NA |
| PZ-101 | SMPZ-101-GW032811 | Np-239 | Filtered | 1.5 U | 7.6 | 2.3 | 3.7 |
| PZ-101 | SMPZ-101-GW032811 | Np-239 | Suspended | -0.27 U | 3.3 | 0.98 | 1.6 |
| PZ-101 | SMPZ-101-GW032811 | Np-239 | Total | 1.2 | NA | 2.5 | NA |
| PZ-101 | SMPZ-101-GW032811 | Pa-231 | Filtered | 12 U | 54 | 16 | 26 |
| PZ-101 | SMPZ-101-GW032811 | Pa-231 | Suspended | 0.3 U | 25 | 7.3 | 12 |
| PZ-101 | SMPZ-101-GW032811 | Pa-231 | Total | 12 | NA | 18 | NA |
| PZ-101 | SMPZ-101-GW032811 | Pb-212 | Filtered | 1.07 U | 2.5 | 0.88 | 1.2 |
| PZ-101 | SMPZ-101-GW032811 | Pb-212 | Suspended | 0.84 | 1.2 | 0.45 | 0.57 |
| PZ-101 | SMPZ-101-GW032811 | Pb-212 | Total | 1.91 | NA | 0.99 | NA |
| PZ-101 | SMPZ-101-GW032811 | Pb-214 | Filtered | 2.11 | 2.5 | 0.99 | 1.2 |
| PZ-101 | SMPZ-101-GW032811 | Pb-214 | Suspended | 0.99 | 1.3 | 0.49 | 0.63 |
| PZ-101 | SMPZ-101-GW032811 | Pb-214 | Total | 3.1 | NA | 1.1 | NA |
| PZ-101 | SMPZ-101-GW032811 | Sb-125 | Filtered | 0.2 U | 13 | 3.7 | 6.1 |
| PZ-101 | SMPZ-101-GW032811 | Sb-125 | Suspended | 1.7 U | 5.4 | 1.6 | 2.6 |
| PZ-101 | SMPZ-101-GW032811 | Sb-125 | Total | 1.9 | NA | 4.1 | NA |
| PZ-101 | SMPZ-101-GW032811 | Sn-126 | Filtered | 0.56 U | 1.3 | 0.39 | 0.6 |
| PZ-101 | SMPZ-101-GW032811 | Sn-126 | Suspended | 0.2 U | 0.78 | 0.23 | 0.37 |
| PZ-101 | SMPZ-101-GW032811 | Sn-126 | Total | 0.76 | NA | 0.45 | NA |
| PZ-101 | SMPZ-101-GW032811 | Sr-90 | Filtered | 0.007 U | 0.22 | 0.064 | 0.13 |
| PZ-101 | SMPZ-101-GW032811 | Sr-90 | Suspended | 0.071 | 0.11 | 0.035 | 0.064 |
| PZ-101 | SMPZ-101-GW032811 | Sr-90 | Total | 0.078 | NA | 0.073 | NA |
| PZ-101 | SMPZ-101-GW032811 | Te-125m | Filtered | 0.04 U | 2.9 | 0.86 | 1.4 |
| PZ-101 | SMPZ-101-GW032811 | Te-125m | Suspended | 0.39 U | 1.3 | 0.38 | 0.61 |
| PZ-101 | SMPZ-101-GW032811 | Te-125m | Total | 0.43 | NA | 0.94 | NA |
| PZ-101 | SMPZ-101-GW032811 | Th-231 | Filtered | 0.0053 | 0.016 | 0.0046 | 0.0051 |
| PZ-101 | SMPZ-101-GW032811 | Th-231 | Suspended | 0.001 U | 0.02 | 0.0043 | 0.0071 |
| PZ-101 | SMPZ-101-GW032811 | Th-231 | Total | 0.0063 | NA | 0.0064 | NA |
| PZ-101 | SMPZ-101-GW032811 | Th-234 | Filtered | 8 U | 21 | 7.2 | 10 |
| PZ-101 | SMPZ-101-GW032811 | Th-234 | Suspended | 0.3 U | 9 | 3 | 4.4 |
| PZ-101 | SMPZ-101-GW032811 | Th-234 | Total | 8.3 | NA | 7.8 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-101 | SMPZ-101-GW032811 | Tl-208 | Filtered | 0.18 U | 1.4 | 0.5 | 0.68 |
| PZ-101 | SMPZ-101-GW032811 | Tl-208 | Suspended | -0.42 U | 0.96 | 0.6 | 0.47 |
| PZ-101 | SMPZ-101-GW032811 | Tl-208 | Total | -0.23 | NA | 0.78 | NA |
| PZ-101 | SMPZ-101-GW032811 | Tm-171 | Filtered | 170 | 350 | 110 | 170 |
| PZ-101 | SMPZ-101-GW032811 | Tm-171 | Suspended | 3 U | 120 | 36 | 59 |
| PZ-101 | SMPZ-101-GW032811 | Tm-171 | Total | 180 | NA | 110 | NA |
| PZ-101 | SMPZ-101-GW032811 | U-233/234 | Filtered | 0.0249 | 0.0053 | 0.0083 | 0.0041 |
| PZ-101 | SMPZ-101-GW032811 | U-233/234 | Suspended | 0.038 | 0.0052 | 0.0098 | 0.004 |
| PZ-101 | SMPZ-101-GW032811 | U-233/234 | Total | 0.063 | NA | 0.013 | NA |
| PZ-101 | SMPZ-101-GW032811 | U-235/236 | Filtered | 0.0053 | 0.016 | 0.0046 | 0.0051 |
| PZ-101 | SMPZ-101-GW032811 | U-235/236 | Suspended | 0.001 U | 0.02 | 0.0043 | 0.0071 |
| PZ-101 | SMPZ-101-GW032811 | U-235/236 | Total | 0.0063 | NA | 0.0064 | NA |
| PZ-101 | SMPZ-101-GW032811 | U-238 | Filtered | 0.0255 | 0.0053 | 0.0081 | 0.0041 |
| PZ-101 | SMPZ-101-GW032811 | U-238 | Suspended | 0.0313 | 0.013 | 0.0091 | 0.004 |
| PZ-101 | SMPZ-101-GW032811 | U-238 | Total | 0.057 | NA | 0.012 | NA |
| PZ-102 | SMPZ-102-GW033011 | Ac-227 | Filtered | -3.9 U | 8.1 | 2.5 | 4 |
| PZ-102 | SMPZ-102-GW033011 | Ac-227 | Suspended | -2.8 L U | 4.2 | 1.3 | 2.1 |
| PZ-102 | SMPZ-102-GW033011 | Ac-227 | Total | -6.7 L | NA | 2.8 | NA |
| PZ-102 | SMPZ-102-GW033011 | Ac-228 | Filtered | 1.7 | 3.5 | 1.1 | 1.6 |
| PZ-102 | SMPZ-102-GW033011 | Ac-228 | Suspended | -0.9 U | 2.9 | 1.3 | 1.4 |
| PZ-102 | SMPZ-102-GW033011 | Ac-228 | Total | 0.9 | NA | 1.7 | NA |
| PZ-102 | SMPZ-102-GW033011 | Ag-108 | Filtered | -0.008 U R | 0.088 | 0.026 | 0.042 |
| PZ-102 | SMPZ-102-GW033011 | Ag-108 | Suspended | -0.002 U R | 0.051 | 0.015 | 0.025 |
| PZ-102 | SMPZ-102-GW033011 | Ag-108 | Total | -0.01 R | NA | 0.03 | NA |
| PZ-102 | SMPZ-102-GW033011 | Ag-108m | Filtered | -0.08 U R | 0.95 | 0.28 | 0.46 |
| PZ-102 | SMPZ-102-GW033011 | Ag-108m | Suspended | -0.02 U R | 0.55 | 0.16 | 0.26 |
| PZ-102 | SMPZ-102-GW033011 | Ag-108m | Total | -0.11 R | NA | 0.32 | NA |
| PZ-102 | SMPZ-102-GW033011 | Ba-133 | Filtered | -2 U R | 11 | 3.4 | 5.5 |
| PZ-102 | SMPZ-102-GW033011 | Ba-133 | Suspended | -1.1 U R | 5.8 | 1.7 | 2.8 |
| PZ-102 | SMPZ-102-GW033011 | Ba-133 | Total | -3.1 R | NA | 3.8 | NA |
| PZ-102 | SMPZ-102-GW033011 | Ba-137m | Filtered | 0.25 U | 1 | 0.3 | 0.48 |
| PZ-102 | SMPZ-102-GW033011 | Ba-137m | Suspended | 0.2 U | 0.7 | 0.21 | 0.33 |
| PZ-102 | SMPZ-102-GW033011 | Ba-137m | Total | 0.45 | NA | 0.36 | NA |
| PZ-102 | SMPZ-102-GW033011 | Bi-212 | Filtered | -0.3 U | 9.5 | 3.1 | 4.5 |
| PZ-102 | SMPZ-102-GW033011 | Bi-212 | Suspended | 1.9 U | 5.4 | 1.6 | 2.6 |
| PZ-102 | SMPZ-102-GW033011 | Bi-212 | Total | 1.5 | NA | 3.5 | NA |
| PZ-102 | SMPZ-102-GW033011 | Bi-214 | Filtered | 2 | 2.6 | 1 | 1.3 |
| PZ-102 | SMPZ-102-GW033011 | Bi-214 | Suspended | 0.75 | 1.5 | 0.52 | 0.74 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-102 | SMPZ-102-GW033011 | Bi-214 | Total | 2.8 | NA | 1.1 | NA |
| PZ-102 | SMPZ-102-GW033011 | Cd-113m | Filtered | -1200 U | 14000 | 4000 | 6600 |
| PZ-102 | SMPZ-102-GW033011 | Cd-113m | Suspended | 0 U | 7000 | 2100 | 3400 |
| PZ-102 | SMPZ-102-GW033011 | Cd-113m | Total | -1200 | NA | 4500 | NA |
| PZ-102 | SMPZ-102-GW033011 | Cf-249 | Filtered | -0.2 U R | 5.2 | 1.5 | 2.5 |
| PZ-102 | SMPZ-102-GW033011 | Cf-249 | Suspended | 0.28 U R | 3 | 0.9 | 1.5 |
| PZ-102 | SMPZ-102-GW033011 | Cf-249 | Total | 0.1 R | NA | 1.8 | NA |
| PZ-102 | SMPZ-102-GW033011 | Co-60 | Filtered | 0.01 U | 1.1 | 0.3 | 0.49 |
| PZ-102 | SMPZ-102-GW033011 | Co-60 | Suspended | 0.02 U | 0.6 | 0.17 | 0.28 |
| PZ-102 | SMPZ-102-GW033011 | Co-60 | Total | 0.03 | NA | 0.34 | NA |
| PZ-102 | SMPZ-102-GW033011 | Cs-134 | Filtered | 0.01 U | 1.2 | 0.35 | 0.58 |
| PZ-102 | SMPZ-102-GW033011 | Cs-134 | Suspended | -0.06 U | 0.79 | 0.23 | 0.38 |
| PZ-102 | SMPZ-102-GW033011 | Cs-134 | Total | -0.05 | NA | 0.42 | NA |
| PZ-102 | SMPZ-102-GW033011 | Cs-137 | Filtered | 0.26 U | 1.1 | 0.31 | 0.5 |
| PZ-102 | SMPZ-102-GW033011 | Cs-137 | Suspended | 0.21 U | 0.74 | 0.22 | 0.35 |
| PZ-102 | SMPZ-102-GW033011 | Cs-137 | Total | 0.47 | NA | 0.38 | NA |
| PZ-102 | SMPZ-102-GW033011 | Eu-152 | Filtered | 0.03 U | 2.8 | 0.81 | 1.3 |
| PZ-102 | SMPZ-102-GW033011 | Eu-152 | Suspended | -0.32 U | 1.9 | 0.56 | 0.91 |
| PZ-102 | SMPZ-102-GW033011 | Eu-152 | Total | -0.29 | NA | 0.99 | NA |
| PZ-102 | SMPZ-102-GW033011 | Eu-154 | Filtered | 4.4 | 8.5 | 2.6 | 4 |
| PZ-102 | SMPZ-102-GW033011 | Eu-154 | Suspended | 0.2 U | 5.6 | 1.6 | 2.6 |
| PZ-102 | SMPZ-102-GW033011 | Eu-154 | Total | 4.7 | NA | 3 | NA |
| PZ-102 | SMPZ-102-GW033011 | Eu-155 | Filtered | 0.4 U | 2.9 | 0.86 | 1.4 |
| PZ-102 | SMPZ-102-GW033011 | Eu-155 | Suspended | -0.02 U | 1.1 | 0.33 | 0.55 |
| PZ-102 | SMPZ-102-GW033011 | Eu-155 | Total | 0.38 | NA | 0.92 | NA |
| PZ-102 | SMPZ-102-GW033011 | gross_alpha | Filtered | 0.66 | 0.5 | 0.2 | 0.26 |
| PZ-102 | SMPZ-102-GW033011 | gross_alpha | Suspended | 4.51 | 0.75 | 0.55 | 0.39 |
| PZ-102 | SMPZ-102-GW033011 | gross_alpha | Total | 4.99 | NA | 0.59 | NA |
| PZ-102 | SMPZ-102-GW033011 | gross_beta | Filtered | 2.6 | 1 | 0.41 | 0.59 |
| PZ-102 | SMPZ-102-GW033011 | gross_beta | Suspended | 2.42 | 0.8 | 0.34 | 0.47 |
| PZ-102 | SMPZ-102-GW033011 | gross_beta | Total | 5.02 | NA | 0.53 | NA |
| PZ-102 | SMPZ-102-GW033011 | H-3 | Total | 25 U | 140 | 43 | 69 |
| PZ-102 | SMPZ-102-GW033011 | Ho-166m | Filtered | -0.04 U | 1.7 | 0.49 | 0.81 |
| PZ-102 | SMPZ-102-GW033011 | Ho-166m | Suspended | -0.12 U | 0.98 | 0.29 | 0.46 |
| PZ-102 | SMPZ-102-GW033011 | Ho-166m | Total | -0.16 | NA | 0.57 | NA |
| PZ-102 | SMPZ-102-GW033011 | K-40 | Filtered | 5 U | 16 | 4.1 | 7.8 |
| PZ-102 | SMPZ-102-GW033011 | K-40 | Suspended | 5 U | 12 | 3.5 | 5.6 |
| PZ-102 | SMPZ-102-GW033011 | K-40 | Total | 9.9 | NA | 5.4 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-102 | SMPZ-102-GW033011 | Na-22 | Filtered | 0.08 U | 1.1 | 0.3 | 0.49 |
| PZ-102 | SMPZ-102-GW033011 | Na-22 | Suspended | -0.21 U | 0.79 | 0.23 | 0.37 |
| PZ-102 | SMPZ-102-GW033011 | Na-22 | Total | -0.13 | NA | 0.38 | NA |
| PZ-102 | SMPZ-102-GW033011 | Nb-94 | Filtered | 0.23 U | 1.1 | 0.32 | 0.52 |
| PZ-102 | SMPZ-102-GW033011 | Nb-94 | Suspended | 0.002 U | 0.68 | 0.2 | 0.33 |
| PZ-102 | SMPZ-102-GW033011 | Nb-94 | Total | 0.23 | NA | 0.38 | NA |
| PZ-102 | SMPZ-102-GW033011 | Np-236 | Filtered | 0.76 U | 2.2 | 0.66 | 1.1 |
| PZ-102 | SMPZ-102-GW033011 | Np-236 | Suspended | -0.37 U | 1.2 | 0.37 | 0.6 |
| PZ-102 | SMPZ-102-GW033011 | Np-236 | Total | 0.39 | NA | 0.76 | NA |
| PZ-102 | SMPZ-102-GW033011 | Np-239 | Filtered | 0.7 U | 7 | 2.1 | 3.4 |
| PZ-102 | SMPZ-102-GW033011 | Np-239 | Suspended | 0.09 U | 3.1 | 0.92 | 1.5 |
| PZ-102 | SMPZ-102-GW033011 | Np-239 | Total | 0.8 | NA | 2.3 | NA |
| PZ-102 | SMPZ-102-GW033011 | Pa-231 | Filtered | 3 U | 49 | 14 | 23 |
| PZ-102 | SMPZ-102-GW033011 | Pa-231 | Suspended | 4.6 U | 26 | 7.8 | 13 |
| PZ-102 | SMPZ-102-GW033011 | Pa-231 | Total | 7 | NA | 16 | NA |
| PZ-102 | SMPZ-102-GW033011 | Pb-212 | Filtered | 0.79 U | 2.4 | 0.81 | 1.2 |
| PZ-102 | SMPZ-102-GW033011 | Pb-212 | Suspended | 1.09 | 1 | 0.35 | 0.49 |
| PZ-102 | SMPZ-102-GW033011 | Pb-212 | Total | 1.88 | NA | 0.89 | NA |
| PZ-102 | SMPZ-102-GW033011 | Pb-214 | Filtered | 0.49 U | 2.4 | 0.89 | 1.2 |
| PZ-102 | SMPZ-102-GW033011 | Pb-214 | Suspended | 1.2 | 1.3 | 0.54 | 0.65 |
| PZ-102 | SMPZ-102-GW033011 | Pb-214 | Total | 1.7 | NA | 1 | NA |
| PZ-102 | SMPZ-102-GW033011 | Sb-125 | Filtered | 4.2 U | 11 | 3.5 | 5.6 |
| PZ-102 | SMPZ-102-GW033011 | Sb-125 | Suspended | 1.2 U | 5.2 | 1.6 | 2.5 |
| PZ-102 | SMPZ-102-GW033011 | Sb-125 | Total | 5.4 | NA | 3.8 | NA |
| PZ-102 | SMPZ-102-GW033011 | Sn-126 | Filtered | 0.03 U | 1 | 0.3 | 0.49 |
| PZ-102 | SMPZ-102-GW033011 | Sn-126 | Suspended | 0.37 B | 0.77 | 0.24 | 0.37 |
| PZ-102 | SMPZ-102-GW033011 | Sn-126 | Total | 0.4 | NA | 0.38 | NA |
| PZ-102 | SMPZ-102-GW033011 | Sr-90 | Filtered | 0.002 U | 0.088 | 0.025 | 0.05 |
| PZ-102 | SMPZ-102-GW033011 | Sr-90 | Suspended | 0.046 | 0.058 | 0.018 | 0.033 |
| PZ-102 | SMPZ-102-GW033011 | Sr-90 | Total | 0.048 | NA | 0.031 | NA |
| PZ-102 | SMPZ-102-GW033011 | Te-125m | Filtered | 0.98 U | 2.6 | 0.8 | 1.3 |
| PZ-102 | SMPZ-102-GW033011 | Te-125m | Suspended | 0.28 U | 1.2 | 0.36 | 0.59 |
| PZ-102 | SMPZ-102-GW033011 | Te-125m | Total | 1.25 | NA | 0.88 | NA |
| PZ-102 | SMPZ-102-GW033011 | Th-231 | Filtered | 0.0073 | 0.0066 | 0.0042 | 0.0051 |
| PZ-102 | SMPZ-102-GW033011 | Th-231 | Suspended | 0.0074 | 0.0067 | 0.0043 | 0.0051 |
| PZ-102 | SMPZ-102-GW033011 | Th-231 | Total | 0.0147 | NA | 0.006 | NA |
| PZ-102 | SMPZ-102-GW033011 | Th-234 | Filtered | -6.9 U | 24 | 9.3 | 12 |
| PZ-102 | SMPZ-102-GW033011 | Th-234 | Suspended | -0.5 U | 8.7 | 2.8 | 4.2 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|--------|--------|----------------|
| PZ-102 | SMPZ-102-GW033011 | Th-234 | Total | -7.4 | NA | 9.7 | NA |
| PZ-102 | SMPZ-102-GW033011 | Tl-208 | Filtered | 0.6 U | 1.4 | 0.52 | 0.66 |
| PZ-102 | SMPZ-102-GW033011 | Tl-208 | Suspended | 0.3 U | 0.79 | 0.3 | 0.38 |
| PZ-102 | SMPZ-102-GW033011 | Tl-208 | Total | 0.9 | NA | 0.6 | NA |
| PZ-102 | SMPZ-102-GW033011 | Tm-171 | Filtered | 210 | 340 | 100 | 160 |
| PZ-102 | SMPZ-102-GW033011 | Tm-171 | Suspended | 3 U | 120 | 35 | 57 |
| PZ-102 | SMPZ-102-GW033011 | Tm-171 | Total | 210 | NA | 110 | NA |
| PZ-102 | SMPZ-102-GW033011 | U-233/234 | Filtered | 0.0028 U | 0.016 | 0.006 | 0.0058 |
| PZ-102 | SMPZ-102-GW033011 | U-233/234 | Suspended | 0.092 | 0.019 | 0.015 | 0.007 |
| PZ-102 | SMPZ-102-GW033011 | U-233/234 | Total | 0.094 | NA | 0.016 | NA |
| PZ-102 | SMPZ-102-GW033011 | U-235/236 | Filtered | 0.0073 | 0.0066 | 0.0042 | 0.0051 |
| PZ-102 | SMPZ-102-GW033011 | U-235/236 | Suspended | 0.0074 | 0.0067 | 0.0043 | 0.0051 |
| PZ-102 | SMPZ-102-GW033011 | U-235/236 | Total | 0.0147 | NA | 0.006 | NA |
| PZ-102 | SMPZ-102-GW033011 | U-238 | Filtered | 0.001 U | 0.013 | 0.0046 | 0.0041 |
| PZ-102 | SMPZ-102-GW033011 | U-238 | Suspended | 0.083 | 0.005 | 0.014 | 0.004 |
| PZ-102 | SMPZ-102-GW033011 | U-238 | Total | 0.084 | NA | 0.015 | NA |
| PZ-103 | SMPZ-103-GW032511 | Ac-227 | Filtered | -0.22 U | 0.82 | 0.25 | 0.4 |
| PZ-103 | SMPZ-103-GW032511 | Ac-227 | Suspended | -4.3 L U | 5.4 | 1.7 | 2.6 |
| PZ-103 | SMPZ-103-GW032511 | Ac-227 | Total | -4.5 L | NA | 1.7 | NA |
| PZ-103 | SMPZ-103-GW032511 | Ac-228 | Filtered | -0.007 U | 0.39 | 0.11 | 0.18 |
| PZ-103 | SMPZ-103-GW032511 | Ac-228 | Suspended | 1.59 | 2.3 | 0.72 | 1.1 |
| PZ-103 | SMPZ-103-GW032511 | Ac-228 | Total | 1.58 | NA | 0.73 | NA |
| PZ-103 | SMPZ-103-GW032511 | Ag-108 | Filtered | -0.0037 U R | 0.01 | 0.0031 | 0.0049 |
| PZ-103 | SMPZ-103-GW032511 | Ag-108 | Suspended | 0.018 U R | 0.051 | 0.015 | 0.024 |
| PZ-103 | SMPZ-103-GW032511 | Ag-108 | Total | 0.014 R | NA | 0.015 | NA |
| PZ-103 | SMPZ-103-GW032511 | Ag-108m | Filtered | -0.04 U R | 0.11 | 0.033 | 0.053 |
| PZ-103 | SMPZ-103-GW032511 | Ag-108m | Suspended | 0.19 U R | 0.54 | 0.16 | 0.26 |
| PZ-103 | SMPZ-103-GW032511 | Ag-108m | Total | 0.16 R | NA | 0.17 | NA |
| PZ-103 | SMPZ-103-GW032511 | Ba-133 | Filtered | 0.03 U R | 1.2 | 0.36 | 0.6 |
| PZ-103 | SMPZ-103-GW032511 | Ba-133 | Suspended | 2.3 U R | 5.7 | 1.7 | 2.7 |
| PZ-103 | SMPZ-103-GW032511 | Ba-133 | Total | 2.3 R | NA | 1.8 | NA |
| PZ-103 | SMPZ-103-GW032511 | Ba-137m | Filtered | -0.03 U | 0.12 | 0.034 | 0.055 |
| PZ-103 | SMPZ-103-GW032511 | Ba-137m | Suspended | 0.18 U | 0.65 | 0.19 | 0.3 |
| PZ-103 | SMPZ-103-GW032511 | Ba-137m | Total | 0.15 | NA | 0.19 | NA |
| PZ-103 | SMPZ-103-GW032511 | Bi-212 | Filtered | 0.51 | 0.81 | 0.25 | 0.38 |
| PZ-103 | SMPZ-103-GW032511 | Bi-212 | Suspended | 2.4 | 4.9 | 1.5 | 2.3 |
| PZ-103 | SMPZ-103-GW032511 | Bi-212 | Total | 2.9 | NA | 1.5 | NA |
| PZ-103 | SMPZ-103-GW032511 | Bi-214 | Filtered | 0.054 U | 0.26 | 0.086 | 0.12 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|------|-------|----------------|
| PZ-103 | SMPZ-103-GW032511 | Bi-214 | Suspended | 1.32 | 1.8 | 0.7 | 0.85 |
| PZ-103 | SMPZ-103-GW032511 | Bi-214 | Total | 1.37 | NA | 0.71 | NA |
| PZ-103 | SMPZ-103-GW032511 | Cd-113m | Filtered | 0 U | 1400 | 420 | 700 |
| PZ-103 | SMPZ-103-GW032511 | Cd-113m | Suspended | 1200 U | 6700 | 2000 | 3200 |
| PZ-103 | SMPZ-103-GW032511 | Cd-113m | Total | 1200 | NA | 2000 | NA |
| PZ-103 | SMPZ-103-GW032511 | Cf-249 | Filtered | -0.009 U R | 0.57 | 0.17 | 0.27 |
| PZ-103 | SMPZ-103-GW032511 | Cf-249 | Suspended | -0.43 U R | 2.4 | 0.7 | 1.1 |
| PZ-103 | SMPZ-103-GW032511 | Cf-249 | Total | -0.44 R | NA | 0.72 | NA |
| PZ-103 | SMPZ-103-GW032511 | Co-60 | Filtered | -0.004 U | 0.13 | 0.037 | 0.06 |
| PZ-103 | SMPZ-103-GW032511 | Co-60 | Suspended | -0.13 U | 0.82 | 0.23 | 0.37 |
| PZ-103 | SMPZ-103-GW032511 | Co-60 | Total | -0.13 | NA | 0.24 | NA |
| PZ-103 | SMPZ-103-GW032511 | Cs-134 | Filtered | 0.013 U | 0.11 | 0.032 | 0.052 |
| PZ-103 | SMPZ-103-GW032511 | Cs-134 | Suspended | -0.27 U | 0.85 | 0.25 | 0.41 |
| PZ-103 | SMPZ-103-GW032511 | Cs-134 | Total | -0.26 SK | NA | 0.26 | NA |
| PZ-103 | SMPZ-103-GW032511 | Cs-137 | Filtered | -0.031 U | 0.12 | 0.036 | 0.058 |
| PZ-103 | SMPZ-103-GW032511 | Cs-137 | Suspended | 0.19 U | 0.68 | 0.2 | 0.32 |
| PZ-103 | SMPZ-103-GW032511 | Cs-137 | Total | 0.16 | NA | 0.2 | NA |
| PZ-103 | SMPZ-103-GW032511 | Eu-152 | Filtered | 0.136 U | 0.31 | 0.093 | 0.15 |
| PZ-103 | SMPZ-103-GW032511 | Eu-152 | Suspended | 0.02 U | 1.8 | 0.53 | 0.87 |
| PZ-103 | SMPZ-103-GW032511 | Eu-152 | Total | 0.15 | NA | 0.54 | NA |
| PZ-103 | SMPZ-103-GW032511 | Eu-154 | Filtered | -0.04 U | 0.98 | 0.28 | 0.46 |
| PZ-103 | SMPZ-103-GW032511 | Eu-154 | Suspended | -0.5 U J | 6.6 | 1.9 | 3.1 |
| PZ-103 | SMPZ-103-GW032511 | Eu-154 | Total | -0.5 | NA | 1.9 | NA |
| PZ-103 | SMPZ-103-GW032511 | Eu-155 | Filtered | 0.004 U | 0.34 | 0.1 | 0.17 |
| PZ-103 | SMPZ-103-GW032511 | Eu-155 | Suspended | 0.23 U | 1.4 | 0.42 | 0.68 |
| PZ-103 | SMPZ-103-GW032511 | Eu-155 | Total | 0.24 SK | NA | 0.43 | NA |
| PZ-103 | SMPZ-103-GW032511 | gross_alpha | Filtered | 3.93 | 0.42 | 0.42 | 0.21 |
| PZ-103 | SMPZ-103-GW032511 | gross_alpha | Suspended | 3.7 | 2.6 | 1 | 1.4 |
| PZ-103 | SMPZ-103-GW032511 | gross_alpha | Total | 7.6 | NA | 1.1 | NA |
| PZ-103 | SMPZ-103-GW032511 | gross_beta | Filtered | 5.3 | 2.7 | 1 | 1.6 |
| PZ-103 | SMPZ-103-GW032511 | gross_beta | Suspended | 7.65 | 1.1 | 0.66 | 0.66 |
| PZ-103 | SMPZ-103-GW032511 | gross_beta | Total | 13 | NA | 1.2 | NA |
| PZ-103 | SMPZ-103-GW032511 | H-3 | Total | -13 U | 140 | 41 | 68 |
| PZ-103 | SMPZ-103-GW032511 | Ho-166m | Filtered | -0.0001 U | 0.19 | 0.054 | 0.089 |
| PZ-103 | SMPZ-103-GW032511 | Ho-166m | Suspended | -0.02 U | 1.2 | 0.33 | 0.55 |
| PZ-103 | SMPZ-103-GW032511 | Ho-166m | Total | -0.03 SK | NA | 0.34 | NA |
| PZ-103 | SMPZ-103-GW032511 | K-40 | Filtered | -0.03 U | 1.5 | 0.39 | 0.71 |
| PZ-103 | SMPZ-103-GW032511 | K-40 | Suspended | 1.4 U | 12 | 2.9 | 5.7 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-103 | SMPZ-103-GW032511 | K-40 | Total | 1.4 | NA | 3 | NA |
| PZ-103 | SMPZ-103-GW032511 | Na-22 | Filtered | 0.012 U | 0.13 | 0.037 | 0.06 |
| PZ-103 | SMPZ-103-GW032511 | Na-22 | Suspended | 0.21 U | 0.8 | 0.23 | 0.36 |
| PZ-103 | SMPZ-103-GW032511 | Na-22 | Total | 0.22 | NA | 0.24 | NA |
| PZ-103 | SMPZ-103-GW032511 | Nb-94 | Filtered | 0.002 U | 0.091 | 0.026 | 0.042 |
| PZ-103 | SMPZ-103-GW032511 | Nb-94 | Suspended | 0.21 U | 0.6 | 0.18 | 0.28 |
| PZ-103 | SMPZ-103-GW032511 | Nb-94 | Total | 0.21 | NA | 0.18 | NA |
| PZ-103 | SMPZ-103-GW032511 | Np-236 | Filtered | -0.003 U | 0.24 | 0.69 | 0.11 |
| PZ-103 | SMPZ-103-GW032511 | Np-236 | Suspended | -0.04 U | 1.5 | 0.45 | 0.74 |
| PZ-103 | SMPZ-103-GW032511 | Np-236 | Total | -0.04 SK | NA | 0.83 | NA |
| PZ-103 | SMPZ-103-GW032511 | Np-239 | Filtered | 0.01 U | 0.71 | 0.21 | 0.34 |
| PZ-103 | SMPZ-103-GW032511 | Np-239 | Suspended | -1 U | 4.1 | 1.2 | 2 |
| PZ-103 | SMPZ-103-GW032511 | Np-239 | Total | -1 | NA | 1.2 | NA |
| PZ-103 | SMPZ-103-GW032511 | Pa-231 | Filtered | 0.07 U | 5.3 | 1.6 | 2.6 |
| PZ-103 | SMPZ-103-GW032511 | Pa-231 | Suspended | 6.2 U | 26 | 7.6 | 12 |
| PZ-103 | SMPZ-103-GW032511 | Pa-231 | Total | 6.3 | NA | 7.8 | NA |
| PZ-103 | SMPZ-103-GW032511 | Pb-212 | Filtered | 0.051 U | 0.23 | 0.069 | 0.11 |
| PZ-103 | SMPZ-103-GW032511 | Pb-212 | Suspended | 0.97 | 1.4 | 0.57 | 0.69 |
| PZ-103 | SMPZ-103-GW032511 | Pb-212 | Total | 1.02 | NA | 0.57 | NA |
| PZ-103 | SMPZ-103-GW032511 | Pb-214 | Filtered | 0.194 | 0.23 | 0.082 | 0.11 |
| PZ-103 | SMPZ-103-GW032511 | Pb-214 | Suspended | 0.64 U | 1.4 | 0.48 | 0.68 |
| PZ-103 | SMPZ-103-GW032511 | Pb-214 | Total | 0.83 | NA | 0.49 | NA |
| PZ-103 | SMPZ-103-GW032511 | Sb-125 | Filtered | 0.23 U | 1.3 | 0.39 | 0.63 |
| PZ-103 | SMPZ-103-GW032511 | Sb-125 | Suspended | -0.5 U | 6.2 | 1.8 | 3 |
| PZ-103 | SMPZ-103-GW032511 | Sb-125 | Total | -0.3 SK | NA | 1.9 | NA |
| PZ-103 | SMPZ-103-GW032511 | Sn-126 | Filtered | 0.046 U | 0.11 | 0.033 | 0.051 |
| PZ-103 | SMPZ-103-GW032511 | Sn-126 | Suspended | 0.23 U | 0.76 | 0.23 | 0.36 |
| PZ-103 | SMPZ-103-GW032511 | Sn-126 | Total | 0.28 | NA | 0.23 | NA |
| PZ-103 | SMPZ-103-GW032511 | Sr-90 | Filtered | 0.039 U | 0.15 | 0.045 | 0.085 |
| PZ-103 | SMPZ-103-GW032511 | Sr-90 | Suspended | 0.088 | 0.11 | 0.034 | 0.06 |
| PZ-103 | SMPZ-103-GW032511 | Sr-90 | Total | 0.127 | NA | 0.056 | NA |
| PZ-103 | SMPZ-103-GW032511 | Te-125m | Filtered | 0.054 U | 0.3 | 0.089 | 0.14 |
| PZ-103 | SMPZ-103-GW032511 | Te-125m | Suspended | -0.12 U | 1.4 | 0.42 | 0.69 |
| PZ-103 | SMPZ-103-GW032511 | Te-125m | Total | -0.06 SK | NA | 0.43 | NA |
| PZ-103 | SMPZ-103-GW032511 | Th-231 | Filtered | 0.102 | 0.007 | 0.016 | 0.005 |
| PZ-103 | SMPZ-103-GW032511 | Th-231 | Suspended | 0.0032 U | 0.019 | 0.0048 | 0.0068 |
| PZ-103 | SMPZ-103-GW032511 | Th-231 | Total | 0.105 | NA | 0.017 | NA |
| PZ-103 | SMPZ-103-GW032511 | Th-234 | Filtered | 0.81 U | 2.1 | 0.73 | 1 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-103 | SMPZ-103-GW032511 | Th-234 | Suspended | 3.7 U | 8.6 | 2.9 | 4.2 |
| PZ-103 | SMPZ-103-GW032511 | Th-234 | Total | 4.5 | NA | 3 | NA |
| PZ-103 | SMPZ-103-GW032511 | Tl-208 | Filtered | -0.029 U | 0.15 | 0.054 | 0.072 |
| PZ-103 | SMPZ-103-GW032511 | Tl-208 | Suspended | 0.57 | 0.82 | 0.31 | 0.39 |
| PZ-103 | SMPZ-103-GW032511 | Tl-208 | Total | 0.54 | NA | 0.31 | NA |
| PZ-103 | SMPZ-103-GW032511 | Tm-171 | Filtered | 8 U | 36 | 11 | 18 |
| PZ-103 | SMPZ-103-GW032511 | Tm-171 | Suspended | -3 U | 150 | 45 | 73 |
| PZ-103 | SMPZ-103-GW032511 | Tm-171 | Total | 5 | NA | 46 | NA |
| PZ-103 | SMPZ-103-GW032511 | U-233/234 | Filtered | 2.21 | 0.005 | 0.11 | 0.004 |
| PZ-103 | SMPZ-103-GW032511 | U-233/234 | Suspended | 0.261 | 0.012 | 0.025 | 0.004 |
| PZ-103 | SMPZ-103-GW032511 | U-233/234 | Total | 2.47 | NA | 0.12 | NA |
| PZ-103 | SMPZ-103-GW032511 | U-235/236 | Filtered | 0.102 | 0.007 | 0.016 | 0.005 |
| PZ-103 | SMPZ-103-GW032511 | U-235/236 | Suspended | 0.0032 U | 0.019 | 0.0048 | 0.0068 |
| PZ-103 | SMPZ-103-GW032511 | U-235/236 | Total | 0.105 | NA | 0.017 | NA |
| PZ-103 | SMPZ-103-GW032511 | U-238 | Filtered | 1.67 | 0.005 | 0.091 | 0.004 |
| PZ-103 | SMPZ-103-GW032511 | U-238 | Suspended | 0.295 | 0.015 | 0.027 | 0.005 |
| PZ-103 | SMPZ-103-GW032511 | U-238 | Total | 1.97 | NA | 0.095 | NA |
| PZ-105 | SMPZ-105-GW032311 | Ac-227 | Filtered | 0 U | 10 | 3 | 5 |
| PZ-105 | SMPZ-105-GW032311 | Ac-227 | Suspended | -1.33 U | 2.6 | 0.8 | 1.3 |
| PZ-105 | SMPZ-105-GW032311 | Ac-227 | Total | -1.3 | NA | 3.1 | NA |
| PZ-105 | SMPZ-105-GW032311 | Ac-228 | Filtered | 3 | 3.6 | 1.1 | 1.7 |
| PZ-105 | SMPZ-105-GW032311 | Ac-228 | Suspended | 1.5 | 1.5 | 0.5 | 0.7 |
| PZ-105 | SMPZ-105-GW032311 | Ac-228 | Total | 4.5 | NA | 1.2 | NA |
| PZ-105 | SMPZ-105-GW032311 | Ag-108 | Filtered | 0.002 U R | 0.081 | 0.023 | 0.039 |
| PZ-105 | SMPZ-105-GW032311 | Ag-108 | Suspended | 0.0029 U R | 0.03 | 0.0087 | 0.014 |
| PZ-105 | SMPZ-105-GW032311 | Ag-108 | Total | 0.005 R | NA | 0.025 | NA |
| PZ-105 | SMPZ-105-GW032311 | Ag-108m | Filtered | 0.02 U R | 0.87 | 0.25 | 0.41 |
| PZ-105 | SMPZ-105-GW032311 | Ag-108m | Suspended | 0.031 U R | 0.32 | 0.093 | 0.15 |
| PZ-105 | SMPZ-105-GW032311 | Ag-108m | Total | 0.05 R | NA | 0.27 | NA |
| PZ-105 | SMPZ-105-GW032311 | Ba-133 | Filtered | -0.08 U R | 9.8 | 2.9 | 4.7 |
| PZ-105 | SMPZ-105-GW032311 | Ba-133 | Suspended | 0.5 U R | 4 | 1.2 | 1.9 |
| PZ-105 | SMPZ-105-GW032311 | Ba-133 | Total | 0.4 R | NA | 3.1 | NA |
| PZ-105 | SMPZ-105-GW032311 | Ba-137m | Filtered | 0.26 U | 1.1 | 0.33 | 0.53 |
| PZ-105 | SMPZ-105-GW032311 | Ba-137m | Suspended | 0.22 | 0.39 | 0.12 | 0.18 |
| PZ-105 | SMPZ-105-GW032311 | Ba-137m | Total | 0.48 | NA | 0.35 | NA |
| PZ-105 | SMPZ-105-GW032311 | Bi-212 | Filtered | 5.6 | 8.2 | 2.5 | 3.9 |
| PZ-105 | SMPZ-105-GW032311 | Bi-212 | Suspended | 0.3 U | 3.9 | 1.1 | 1.8 |
| PZ-105 | SMPZ-105-GW032311 | Bi-212 | Total | 5.9 | NA | 2.8 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-105 | SMPZ-105-GW032311 | Bi-214 | Filtered | 0.53 U | 2.6 | 0.9 | 1.3 |
| PZ-105 | SMPZ-105-GW032311 | Bi-214 | Suspended | 0.78 | 0.86 | 0.28 | 0.4 |
| PZ-105 | SMPZ-105-GW032311 | Bi-214 | Total | 1.32 | NA | 0.94 | NA |
| PZ-105 | SMPZ-105-GW032311 | Cd-113m | Filtered | 100 U | 13000 | 3900 | 6500 |
| PZ-105 | SMPZ-105-GW032311 | Cd-113m | Suspended | 0 U | 4600 | 1300 | 2200 |
| PZ-105 | SMPZ-105-GW032311 | Cd-113m | Total | 100 | NA | 4200 | NA |
| PZ-105 | SMPZ-105-GW032311 | Cf-249 | Filtered | 2.4 U R | 5.4 | 1.6 | 2.6 |
| PZ-105 | SMPZ-105-GW032311 | Cf-249 | Suspended | -0.29 U R | 1.9 | 0.57 | 0.92 |
| PZ-105 | SMPZ-105-GW032311 | Cf-249 | Total | 2.1 R | NA | 1.7 | NA |
| PZ-105 | SMPZ-105-GW032311 | Co-60 | Filtered | 0 U | 1 | 0.28 | 0.46 |
| PZ-105 | SMPZ-105-GW032311 | Co-60 | Suspended | 0.04 U | 0.54 | 0.15 | 0.24 |
| PZ-105 | SMPZ-105-GW032311 | Co-60 | Total | 0.04 | NA | 0.31 | NA |
| PZ-105 | SMPZ-105-GW032311 | Cs-134 | Filtered | 0.45 U | 1.1 | 0.32 | 0.51 |
| PZ-105 | SMPZ-105-GW032311 | Cs-134 | Suspended | 0.04 U | 0.47 | 0.14 | 0.22 |
| PZ-105 | SMPZ-105-GW032311 | Cs-134 | Total | 0.49 | NA | 0.35 | NA |
| PZ-105 | SMPZ-105-GW032311 | Cs-137 | Filtered | 0.27 U | 1.2 | 0.35 | 0.56 |
| PZ-105 | SMPZ-105-GW032311 | Cs-137 | Suspended | 0.23 | 0.42 | 0.13 | 0.19 |
| PZ-105 | SMPZ-105-GW032311 | Cs-137 | Total | 0.5 | NA | 0.37 | NA |
| PZ-105 | SMPZ-105-GW032311 | Eu-152 | Filtered | -0.65 U | 3.3 | 0.98 | 1.6 |
| PZ-105 | SMPZ-105-GW032311 | Eu-152 | Suspended | 0 U | 1.3 | 0.37 | 0.61 |
| PZ-105 | SMPZ-105-GW032311 | Eu-152 | Total | -0.6 | NA | 1 | NA |
| PZ-105 | SMPZ-105-GW032311 | Eu-154 | Filtered | 3.4 U | 7.9 | 2.4 | 3.7 |
| PZ-105 | SMPZ-105-GW032311 | Eu-154 | Suspended | 1.3 U | 3.6 | 1.1 | 1.6 |
| PZ-105 | SMPZ-105-GW032311 | Eu-154 | Total | 4.7 | NA | 2.6 | NA |
| PZ-105 | SMPZ-105-GW032311 | Eu-155 | Filtered | -0.5 U | 2.7 | 0.82 | 1.3 |
| PZ-105 | SMPZ-105-GW032311 | Eu-155 | Suspended | 0.14 U | 0.67 | 0.2 | 0.32 |
| PZ-105 | SMPZ-105-GW032311 | Eu-155 | Total | -0.36 | NA | 0.84 | NA |
| PZ-105 | SMPZ-105-GW032311 | gross_alpha | Filtered | 18.8 | 0.3 | 1.1 | 0.2 |
| PZ-105 | SMPZ-105-GW032311 | gross_alpha | Suspended | 19.6 | 6.1 | 3.3 | 3.2 |
| PZ-105 | SMPZ-105-GW032311 | gross_alpha | Total | 38.4 | NA | 3.5 | NA |
| PZ-105 | SMPZ-105-GW032311 | gross_beta | Filtered | 7.5 | 3.3 | 1.3 | 1.9 |
| PZ-105 | SMPZ-105-GW032311 | gross_beta | Suspended | 1.39 | 0.7 | 0.27 | 0.4 |
| PZ-105 | SMPZ-105-GW032311 | gross_beta | Total | 8.9 | NA | 1.3 | NA |
| PZ-105 | SMPZ-105-GW032311 | H-3 | Total | 24 U | 160 | 46 | 76 |
| PZ-105 | SMPZ-105-GW032311 | Ho-166m | Filtered | 0 U | 2.1 | 0.6 | 1 |
| PZ-105 | SMPZ-105-GW032311 | Ho-166m | Suspended | 0.15 U | 0.66 | 0.19 | 0.31 |
| PZ-105 | SMPZ-105-GW032311 | Ho-166m | Total | 0.15 | NA | 0.63 | NA |
| PZ-105 | SMPZ-105-GW032311 | K-40 | Filtered | 15.2 | 17 | 5 | 8.1 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-105 | SMPZ-105-GW032311 | K-40 | Suspended | -3.2 U | 8 | 6.3 | 3.7 |
| PZ-105 | SMPZ-105-GW032311 | K-40 | Total | 11.9 | NA | 8 | NA |
| PZ-105 | SMPZ-105-GW032311 | Na-22 | Filtered | 0 U | 1.8 | 0.51 | 0.84 |
| PZ-105 | SMPZ-105-GW032311 | Na-22 | Suspended | 0.04 U | 0.64 | 0.18 | 0.29 |
| PZ-105 | SMPZ-105-GW032311 | Na-22 | Total | 0.04 | NA | 0.54 | NA |
| PZ-105 | SMPZ-105-GW032311 | Nb-94 | Filtered | 0.39 U | 0.98 | 0.3 | 0.47 |
| PZ-105 | SMPZ-105-GW032311 | Nb-94 | Suspended | -0.05 U | 0.42 | 0.12 | 0.2 |
| PZ-105 | SMPZ-105-GW032311 | Nb-94 | Total | 0.35 | NA | 0.32 | NA |
| PZ-105 | SMPZ-105-GW032311 | Np-236 | Filtered | -0.95 U | 2.6 | 0.79 | 1.3 |
| PZ-105 | SMPZ-105-GW032311 | Np-236 | Suspended | -0.21 U | 0.58 | 0.17 | 0.28 |
| PZ-105 | SMPZ-105-GW032311 | Np-236 | Total | -1.16 | NA | 0.81 | NA |
| PZ-105 | SMPZ-105-GW032311 | Np-239 | Filtered | 1.1 U | 7 | 2.1 | 3.4 |
| PZ-105 | SMPZ-105-GW032311 | Np-239 | Suspended | -0.02 U | 1.7 | 0.48 | 0.79 |
| PZ-105 | SMPZ-105-GW032311 | Np-239 | Total | 1 | NA | 2.1 | NA |
| PZ-105 | SMPZ-105-GW032311 | Pa-231 | Filtered | 0.6 U | 48 | 14 | 23 |
| PZ-105 | SMPZ-105-GW032311 | Pa-231 | Suspended | -0.1 U | 17 | 4.9 | 8.1 |
| PZ-105 | SMPZ-105-GW032311 | Pa-231 | Total | 0.5 | NA | 15 | NA |
| PZ-105 | SMPZ-105-GW032311 | Pb-212 | Filtered | 1.18 U | 2.4 | 0.86 | 1.2 |
| PZ-105 | SMPZ-105-GW032311 | Pb-212 | Suspended | 0.15 U | 0.61 | 0.19 | 0.29 |
| PZ-105 | SMPZ-105-GW032311 | Pb-212 | Total | 1.34 | NA | 0.88 | NA |
| PZ-105 | SMPZ-105-GW032311 | Pb-214 | Filtered | 0.52 U | 2.5 | 0.97 | 1.2 |
| PZ-105 | SMPZ-105-GW032311 | Pb-214 | Suspended | 0.11 U | 0.89 | 0.25 | 0.42 |
| PZ-105 | SMPZ-105-GW032311 | Pb-214 | Total | 0.6 | NA | 1 | NA |
| PZ-105 | SMPZ-105-GW032311 | Sb-125 | Filtered | 1.8 U | 11 | 3.2 | 5.2 |
| PZ-105 | SMPZ-105-GW032311 | Sb-125 | Suspended | -0.6 U | 3.4 | 1 | 1.6 |
| PZ-105 | SMPZ-105-GW032311 | Sb-125 | Total | 1.1 | NA | 3.4 | NA |
| PZ-105 | SMPZ-105-GW032311 | Sn-126 | Filtered | 0.62 | 0.92 | 0.29 | 0.43 |
| PZ-105 | SMPZ-105-GW032311 | Sn-126 | Suspended | 0.22 | 0.44 | 0.13 | 0.2 |
| PZ-105 | SMPZ-105-GW032311 | Sn-126 | Total | 0.84 | NA | 0.32 | NA |
| PZ-105 | SMPZ-105-GW032311 | Sr-90 | Filtered | 0.041 | 0.049 | 0.015 | 0.026 |
| PZ-105 | SMPZ-105-GW032311 | Sr-90 | Suspended | -0.019 U | 0.057 | 0.016 | 0.032 |
| PZ-105 | SMPZ-105-GW032311 | Sr-90 | Total | 0.021 | NA | 0.022 | NA |
| PZ-105 | SMPZ-105-GW032311 | Te-125m | Filtered | 0.41 U | 2.5 | 0.74 | 1.2 |
| PZ-105 | SMPZ-105-GW032311 | Te-125m | Suspended | -0.15 U | 0.79 | 0.23 | 0.38 |
| PZ-105 | SMPZ-105-GW032311 | Te-125m | Total | 0.26 | NA | 0.78 | NA |
| PZ-105 | SMPZ-105-GW032311 | Th-231 | Filtered | 0.43 | 0.007 | 0.038 | 0.006 |
| PZ-105 | SMPZ-105-GW032311 | Th-231 | Suspended | 0.015 | 0.0068 | 0.0062 | 0.0052 |
| PZ-105 | SMPZ-105-GW032311 | Th-231 | Total | 0.487 | NA | 0.042 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| PZ-105 | SMPZ-105-GW032311 | Th-234 | Filtered | 10.4 | 21 | 7.3 | 10 |
| PZ-105 | SMPZ-105-GW032311 | Th-234 | Suspended | 0.5 U | 4.8 | 1.4 | 2.3 |
| PZ-105 | SMPZ-105-GW032311 | Th-234 | Total | 10.9 | NA | 7.4 | NA |
| PZ-105 | SMPZ-105-GW032311 | Tl-208 | Filtered | 0.57 U | 1.3 | 0.47 | 0.61 |
| PZ-105 | SMPZ-105-GW032311 | Tl-208 | Suspended | -0.1 U | 0.54 | 0.27 | 0.25 |
| PZ-105 | SMPZ-105-GW032311 | Tl-208 | Total | 0.47 | NA | 0.54 | NA |
| PZ-105 | SMPZ-105-GW032311 | Tm-171 | Filtered | -0.07 U | 340 | 100 | 170 |
| PZ-105 | SMPZ-105-GW032311 | Tm-171 | Suspended | -3 U | 64 | 19 | 31 |
| PZ-105 | SMPZ-105-GW032311 | Tm-171 | Total | -3 | NA | 100 | NA |
| PZ-105 | SMPZ-105-GW032311 | U-233/234 | Filtered | 10.2 | 0.006 | 0.45 | 0.005 |
| PZ-105 | SMPZ-105-GW032311 | U-233/234 | Suspended | 0.42 | 0.005 | 0.034 | 0.004 |
| PZ-105 | SMPZ-105-GW032311 | U-233/234 | Total | 9.71 | NA | 0.42 | NA |
| PZ-105 | SMPZ-105-GW032311 | U-235/236 | Filtered | 0.43 | 0.007 | 0.038 | 0.006 |
| PZ-105 | SMPZ-105-GW032311 | U-235/236 | Suspended | 0.015 | 0.0068 | 0.0062 | 0.0052 |
| PZ-105 | SMPZ-105-GW032311 | U-235/236 | Total | 0.487 | NA | 0.042 | NA |
| PZ-105 | SMPZ-105-GW032311 | U-238 | Filtered | 9.58 | 0.02 | 0.43 | 0.005 |
| PZ-105 | SMPZ-105-GW032311 | U-238 | Suspended | 0.426 | 0.005 | 0.035 | 0.004 |
| PZ-105 | SMPZ-105-GW032311 | U-238 | Total | 9.52 | NA | 0.41 | NA |
| PZ-106 | SMPZ-106-GW031811 | Ac-227 | Filtered | -3.1 U | 9.4 | 2.8 | 4.6 |
| PZ-106 | SMPZ-106-GW031811 | Ac-227 | Suspended | -0.4 U | 3.6 | 1.1 | 1.7 |
| PZ-106 | SMPZ-106-GW031811 | Ac-227 | Total | -3.5 | NA | 3 | NA |
| PZ-106 | SMPZ-106-GW031811 | Ac-228 | Filtered | 1.2 U | 4.6 | 1.3 | 2.1 |
| PZ-106 | SMPZ-106-GW031811 | Ac-228 | Suspended | 0.13 U | 2.7 | 0.71 | 1.3 |
| PZ-106 | SMPZ-106-GW031811 | Ac-228 | Total | 1.3 | NA | 1.5 | NA |
| PZ-106 | SMPZ-106-GW031811 | Ag-108 | Filtered | -0.022 U | 0.098 | 0.029 | 0.046 |
| PZ-106 | SMPZ-106-GW031811 | Ag-108 | Suspended | -0.0006 U | 0.052 | 0.015 | 0.025 |
| PZ-106 | SMPZ-106-GW031811 | Ag-108 | Total | -0.022 | NA | 0.033 | NA |
| PZ-106 | SMPZ-106-GW031811 | Ag-108m | Filtered | -0.23 U | 1.1 | 0.31 | 0.5 |
| PZ-106 | SMPZ-106-GW031811 | Ag-108m | Suspended | -0.007 U | 0.56 | 0.16 | 0.27 |
| PZ-106 | SMPZ-106-GW031811 | Ag-108m | Total | -0.24 | NA | 0.35 | NA |
| PZ-106 | SMPZ-106-GW031811 | Ba-133 | Filtered | 2.3 U | 12 | 3.6 | 5.9 |
| PZ-106 | SMPZ-106-GW031811 | Ba-133 | Suspended | -0.2 U | 6 | 1.8 | 2.9 |
| PZ-106 | SMPZ-106-GW031811 | Ba-133 | Total | 2.1 | NA | 4 | NA |
| PZ-106 | SMPZ-106-GW031811 | Ba-137m | Filtered | 0.47 U | 1.1 | 0.33 | 0.51 |
| PZ-106 | SMPZ-106-GW031811 | Ba-137m | Suspended | 0.08 U | 0.72 | 0.21 | 0.35 |
| PZ-106 | SMPZ-106-GW031811 | Ba-137m | Total | 0.55 | NA | 0.39 | NA |
| PZ-106 | SMPZ-106-GW031811 | Bi-212 | Filtered | 3.5 U | 9.6 | 2.9 | 4.4 |
| PZ-106 | SMPZ-106-GW031811 | Bi-212 | Suspended | 2 U | 5.4 | 1.6 | 2.6 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-106 | SMPZ-106-GW031811 | Bi-212 | Total | 5.5 | NA | 3.3 | NA |
| PZ-106 | SMPZ-106-GW031811 | Bi-214 | Filtered | 1.66 | 2.4 | 0.75 | 1.1 |
| PZ-106 | SMPZ-106-GW031811 | Bi-214 | Suspended | 0.37 U | 1.6 | 0.57 | 0.78 |
| PZ-106 | SMPZ-106-GW031811 | Bi-214 | Total | 2.03 | NA | 0.94 | NA |
| PZ-106 | SMPZ-106-GW031811 | Cd-113m | Filtered | -50 U | 13000 | 3900 | 6400 |
| PZ-106 | SMPZ-106-GW031811 | Cd-113m | Suspended | 20 U | 5400 | 1600 | 2600 |
| PZ-106 | SMPZ-106-GW031811 | Cd-113m | Total | -30 | NA | 4200 | NA |
| PZ-106 | SMPZ-106-GW031811 | Cf-249 | Filtered | 1.5 U | 5.3 | 1.6 | 2.5 |
| PZ-106 | SMPZ-106-GW031811 | Cf-249 | Suspended | 0.22 U | 2.6 | 0.76 | 1.2 |
| PZ-106 | SMPZ-106-GW031811 | Cf-249 | Total | 1.7 | NA | 1.8 | NA |
| PZ-106 | SMPZ-106-GW031811 | Co-60 | Filtered | 0.37 U | 1.5 | 0.42 | 0.66 |
| PZ-106 | SMPZ-106-GW031811 | Co-60 | Suspended | 0.04 U | 0.76 | 0.22 | 0.35 |
| PZ-106 | SMPZ-106-GW031811 | Co-60 | Total | 0.41 | NA | 0.48 | NA |
| PZ-106 | SMPZ-106-GW031811 | Cs-134 | Filtered | 0.23 U | 1.3 | 0.38 | 0.61 |
| PZ-106 | SMPZ-106-GW031811 | Cs-134 | Suspended | -0.06 U | 0.69 | 0.2 | 0.33 |
| PZ-106 | SMPZ-106-GW031811 | Cs-134 | Total | 0.17 | NA | 0.43 | NA |
| PZ-106 | SMPZ-106-GW031811 | Cs-137 | Filtered | 0.5 U | 1.2 | 0.35 | 0.54 |
| PZ-106 | SMPZ-106-GW031811 | Cs-137 | Suspended | 0.09 U | 0.76 | 0.22 | 0.36 |
| PZ-106 | SMPZ-106-GW031811 | Cs-137 | Total | 0.58 | NA | 0.42 | NA |
| PZ-106 | SMPZ-106-GW031811 | Eu-152 | Filtered | -0.55 U | 3.4 | 0.99 | 1.6 |
| PZ-106 | SMPZ-106-GW031811 | Eu-152 | Suspended | 0.47 U | 1.6 | 0.49 | 0.79 |
| PZ-106 | SMPZ-106-GW031811 | Eu-152 | Total | -0.08 | NA | 1.1 | NA |
| PZ-106 | SMPZ-106-GW031811 | Eu-154 | Filtered | -0.5 U | 12 | 3.3 | 5.5 |
| PZ-106 | SMPZ-106-GW031811 | Eu-154 | Suspended | 0 U | 5.6 | 1.6 | 2.6 |
| PZ-106 | SMPZ-106-GW031811 | Eu-154 | Total | -0.5 | NA | 3.7 | NA |
| PZ-106 | SMPZ-106-GW031811 | Eu-155 | Filtered | 0.1 U | 3.1 | 0.93 | 1.5 |
| PZ-106 | SMPZ-106-GW031811 | Eu-155 | Suspended | 0.04 U | 1.2 | 0.36 | 0.6 |
| PZ-106 | SMPZ-106-GW031811 | Eu-155 | Total | 0.14 | NA | 0.99 | NA |
| PZ-106 | SMPZ-106-GW031811 | gross_alpha | Filtered | 5.62 L | 0.45 | 0.49 | 0.23 |
| PZ-106 | SMPZ-106-GW031811 | gross_alpha | Suspended | 0.33 | 0.36 | 0.13 | 0.18 |
| PZ-106 | SMPZ-106-GW031811 | gross_alpha | Total | 5.96 | NA | 0.51 | NA |
| PZ-106 | SMPZ-106-GW031811 | gross_beta | Filtered | 2.06 | 2.3 | 0.79 | 1.4 |
| PZ-106 | SMPZ-106-GW031811 | gross_beta | Suspended | 1.21 | 1.2 | 0.39 | 0.7 |
| PZ-106 | SMPZ-106-GW031811 | gross_beta | Total | 3.27 | NA | 0.88 | NA |
| PZ-106 | SMPZ-106-GW031811 | H-3 | Total | -46 U | 150 | 44 | 75 |
| PZ-106 | SMPZ-106-GW031811 | Ho-166m | Filtered | 0.69 U | 2.2 | 0.64 | 1 |
| PZ-106 | SMPZ-106-GW031811 | Ho-166m | Suspended | 0.3 U | 0.98 | 0.29 | 0.47 |
| PZ-106 | SMPZ-106-GW031811 | Ho-166m | Total | 1 | NA | 0.7 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-106 | SMPZ-106-GW031811 | K-40 | Filtered | 11.6 | 17 | 5.7 | 7.7 |
| PZ-106 | SMPZ-106-GW031811 | K-40 | Suspended | -0.1 U | 12 | 2.8 | 5.5 |
| PZ-106 | SMPZ-106-GW031811 | K-40 | Total | 11.5 | NA | 6.4 | NA |
| PZ-106 | SMPZ-106-GW031811 | Na-22 | Filtered | 0.02 U | 1.5 | 0.41 | 0.67 |
| PZ-106 | SMPZ-106-GW031811 | Na-22 | Suspended | -0.12 U | 0.65 | 0.19 | 0.3 |
| PZ-106 | SMPZ-106-GW031811 | Na-22 | Total | -0.1 | NA | 0.45 | NA |
| PZ-106 | SMPZ-106-GW031811 | Nb-94 | Filtered | -0.002 U | 1.3 | 0.37 | 0.6 |
| PZ-106 | SMPZ-106-GW031811 | Nb-94 | Suspended | 0.0007 U | 0.65 | 0.19 | 0.31 |
| PZ-106 | SMPZ-106-GW031811 | Nb-94 | Total | -0.001 | NA | 0.41 | NA |
| PZ-106 | SMPZ-106-GW031811 | Np-236 | Filtered | 0.32 U | 2.4 | 0.72 | 1.2 |
| PZ-106 | SMPZ-106-GW031811 | Np-236 | Suspended | 0.15 U | 1.2 | 0.34 | 0.56 |
| PZ-106 | SMPZ-106-GW031811 | Np-236 | Total | 0.47 | NA | 0.8 | NA |
| PZ-106 | SMPZ-106-GW031811 | Np-239 | Filtered | 0.8 U | 7.3 | 2.1 | 3.5 |
| PZ-106 | SMPZ-106-GW031811 | Np-239 | Suspended | 0.3 U | 3.6 | 1.1 | 1.7 |
| PZ-106 | SMPZ-106-GW031811 | Np-239 | Total | 1.1 | NA | 2.4 | NA |
| PZ-106 | SMPZ-106-GW031811 | Pa-231 | Filtered | -4 U | 55 | 16 | 27 |
| PZ-106 | SMPZ-106-GW031811 | Pa-231 | Suspended | -7.7 U | 29 | 8.6 | 14 |
| PZ-106 | SMPZ-106-GW031811 | Pa-231 | Total | -12 | NA | 18 | NA |
| PZ-106 | SMPZ-106-GW031811 | Pb-212 | Filtered | 1.78 | 1.9 | 0.66 | 0.92 |
| PZ-106 | SMPZ-106-GW031811 | Pb-212 | Suspended | 0.06 U | 1.1 | 0.33 | 0.52 |
| PZ-106 | SMPZ-106-GW031811 | Pb-212 | Total | 1.84 | NA | 0.74 | NA |
| PZ-106 | SMPZ-106-GW031811 | Pb-214 | Filtered | 1.88 | 2.3 | 0.9 | 1.1 |
| PZ-106 | SMPZ-106-GW031811 | Pb-214 | Suspended | -0.18 U | 1.5 | 0.59 | 0.73 |
| PZ-106 | SMPZ-106-GW031811 | Pb-214 | Total | 1.7 | NA | 1.1 | NA |
| PZ-106 | SMPZ-106-GW031811 | Sb-125 | Filtered | 0.9 U | 11 | 3.3 | 5.5 |
| PZ-106 | SMPZ-106-GW031811 | Sb-125 | Suspended | 0.5 U | 4 | 1.2 | 1.9 |
| PZ-106 | SMPZ-106-GW031811 | Sb-125 | Total | 1.4 | NA | 3.5 | NA |
| PZ-106 | SMPZ-106-GW031811 | Sn-126 | Filtered | 0.21 U | 1.3 | 0.39 | 0.62 |
| PZ-106 | SMPZ-106-GW031811 | Sn-126 | Suspended | 0.09 U | 0.81 | 0.24 | 0.39 |
| PZ-106 | SMPZ-106-GW031811 | Sn-126 | Total | 0.31 | NA | 0.46 | NA |
| PZ-106 | SMPZ-106-GW031811 | Sr-90 | Filtered | 0.051 U | 0.17 | 0.051 | 0.1 |
| PZ-106 | SMPZ-106-GW031811 | Sr-90 | Suspended | -0.047 U | 0.18 | 0.049 | 0.11 |
| PZ-106 | SMPZ-106-GW031811 | Sr-90 | Total | 0.004 | NA | 0.07 | NA |
| PZ-106 | SMPZ-106-GW031811 | Te-125m | Filtered | 0.2 U | 2.6 | 0.77 | 1.3 |
| PZ-106 | SMPZ-106-GW031811 | Te-125m | Suspended | 0.12 U | 0.92 | 0.27 | 0.44 |
| PZ-106 | SMPZ-106-GW031811 | Te-125m | Total | 0.32 | NA | 0.82 | NA |
| PZ-106 | SMPZ-106-GW031811 | Th-231 | Filtered | 0.186 | 0.008 | 0.024 | 0.006 |
| PZ-106 | SMPZ-106-GW031811 | Th-231 | Suspended | 0 U | 0.0061 | 0.0018 | 0.0047 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-106 | SMPZ-106-GW031811 | Th-231 | Total | 0.186 | NA | 0.024 | NA |
| PZ-106 | SMPZ-106-GW031811 | Th-234 | Filtered | 16 | 22 | 7.3 | 11 |
| PZ-106 | SMPZ-106-GW031811 | Th-234 | Suspended | 3.5 U | 8.4 | 2.7 | 4.1 |
| PZ-106 | SMPZ-106-GW031811 | Th-234 | Total | 19.5 | NA | 7.8 | NA |
| PZ-106 | SMPZ-106-GW031811 | Tl-208 | Filtered | -0.9 U | 2 | 14 | 0.8 |
| PZ-106 | SMPZ-106-GW031811 | Tl-208 | Suspended | -0.33 U | 0.87 | 0.44 | 0.42 |
| PZ-106 | SMPZ-106-GW031811 | Tl-208 | Total | -1 | NA | 14 | NA |
| PZ-106 | SMPZ-106-GW031811 | Tm-171 | Filtered | -7 U | 290 | 84 | 140 |
| PZ-106 | SMPZ-106-GW031811 | Tm-171 | Suspended | 30 U | 100 | 31 | 51 |
| PZ-106 | SMPZ-106-GW031811 | Tm-171 | Total | 23 | NA | 90 | NA |
| PZ-106 | SMPZ-106-GW031811 | U-233/234 | Filtered | 3.73 | 0.02 | 0.18 | 0.005 |
| PZ-106 | SMPZ-106-GW031811 | U-233/234 | Suspended | 0.0138 | 0.0049 | 0.0065 | 0.0037 |
| PZ-106 | SMPZ-106-GW031811 | U-233/234 | Total | 3.74 | NA | 0.18 | NA |
| PZ-106 | SMPZ-106-GW031811 | U-235/236 | Filtered | 0.186 | 0.008 | 0.024 | 0.006 |
| PZ-106 | SMPZ-106-GW031811 | U-235/236 | Suspended | 0 U | 0.0061 | 0.0018 | 0.0047 |
| PZ-106 | SMPZ-106-GW031811 | U-235/236 | Total | 0.186 | NA | 0.024 | NA |
| PZ-106 | SMPZ-106-GW031811 | U-238 | Filtered | 3.2 | 0.02 | 0.16 | 0.008 |
| PZ-106 | SMPZ-106-GW031811 | U-238 | Suspended | 0.0166 | 0.012 | 0.0069 | 0.0037 |
| PZ-106 | SMPZ-106-GW031811 | U-238 | Total | 3.21 | NA | 0.16 | NA |
| PZ-108 | SMPZ-108-GW031711 | Ac-227 | Filtered | -0.02 U | 8.6 | 2.5 | 4.2 |
| PZ-108 | SMPZ-108-GW031711 | Ac-227 | Suspended | -2.7 U | 4.5 | 1.4 | 2.2 |
| PZ-108 | SMPZ-108-GW031711 | Ac-227 | Total | -2.7 | NA | 2.9 | NA |
| PZ-108 | SMPZ-108-GW031711 | Ac-228 | Filtered | 2.2 | 4.5 | 1.4 | 2 |
| PZ-108 | SMPZ-108-GW031711 | Ac-228 | Suspended | -0.33 U | 2.8 | 0.97 | 1.4 |
| PZ-108 | SMPZ-108-GW031711 | Ac-228 | Total | 1.9 | NA | 1.7 | NA |
| PZ-108 | SMPZ-108-GW031711 | Ag-108 | Filtered | 0 R | 0.12 | 0.035 | 0.058 |
| PZ-108 | SMPZ-108-GW031711 | Ag-108 | Suspended | -0.014 R | 0.056 | 0.017 | 0.027 |
| PZ-108 | SMPZ-108-GW031711 | Ag-108 | Total | -0.014 R | NA | 0.039 | NA |
| PZ-108 | SMPZ-108-GW031711 | Ag-108m | Filtered | 0 R | 1.3 | 0.38 | 0.62 |
| PZ-108 | SMPZ-108-GW031711 | Ag-108m | Suspended | -0.15 R | 0.6 | 0.18 | 0.29 |
| PZ-108 | SMPZ-108-GW031711 | Ag-108m | Total | -0.15 R | NA | 0.42 | NA |
| PZ-108 | SMPZ-108-GW031711 | Ba-133 | Filtered | 0.4 R | 14 | 4.2 | 6.9 |
| PZ-108 | SMPZ-108-GW031711 | Ba-133 | Suspended | -0.2 R | 5.5 | 1.6 | 2.6 |
| PZ-108 | SMPZ-108-GW031711 | Ba-133 | Total | 0.2 R | NA | 4.5 | NA |
| PZ-108 | SMPZ-108-GW031711 | Ba-137m | Filtered | 0.34 U | 1.6 | 0.47 | 0.76 |
| PZ-108 | SMPZ-108-GW031711 | Ba-137m | Suspended | 0.09 U | 0.66 | 0.19 | 0.32 |
| PZ-108 | SMPZ-108-GW031711 | Ba-137m | Total | 0.43 | NA | 0.51 | NA |
| PZ-108 | SMPZ-108-GW031711 | Bi-212 | Filtered | -10 U | 14 | 27 | 7 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-108 | SMPZ-108-GW031711 | Bi-212 | Suspended | 1.6 U | 5.3 | 1.6 | 2.5 |
| PZ-108 | SMPZ-108-GW031711 | Bi-212 | Total | -9 | NA | 27 | NA |
| PZ-108 | SMPZ-108-GW031711 | Bi-214 | Filtered | 2.9 | 3.6 | 1.5 | 1.7 |
| PZ-108 | SMPZ-108-GW031711 | Bi-214 | Suspended | 0.46 U | 1.8 | 0.71 | 0.86 |
| PZ-108 | SMPZ-108-GW031711 | Bi-214 | Total | 3.4 | NA | 1.7 | NA |
| PZ-108 | SMPZ-108-GW031711 | Cd-113m | Filtered | -1100 U | 16000 | 4600 | 7500 |
| PZ-108 | SMPZ-108-GW031711 | Cd-113m | Suspended | -70 U | 4700 | 1400 | 2200 |
| PZ-108 | SMPZ-108-GW031711 | Cd-113m | Total | -1200 | NA | 4800 | NA |
| PZ-108 | SMPZ-108-GW031711 | Cf-249 | Filtered | 1.7 R | 6.6 | 2 | 3.1 |
| PZ-108 | SMPZ-108-GW031711 | Cf-249 | Suspended | 0.86 R | 3.1 | 0.92 | 1.5 |
| PZ-108 | SMPZ-108-GW031711 | Cf-249 | Total | 2.6 R | NA | 2.2 | NA |
| PZ-108 | SMPZ-108-GW031711 | Co-60 | Filtered | 0.63 | 1.4 | 0.43 | 0.63 |
| PZ-108 | SMPZ-108-GW031711 | Co-60 | Suspended | -0.02 U | 0.75 | 0.21 | 0.35 |
| PZ-108 | SMPZ-108-GW031711 | Co-60 | Total | 0.61 | NA | 0.48 | NA |
| PZ-108 | SMPZ-108-GW031711 | Cs-134 | Filtered | -0.29 U | 1.5 | 0.43 | 0.7 |
| PZ-108 | SMPZ-108-GW031711 | Cs-134 | Suspended | -0.12 U | 0.72 | 0.21 | 0.35 |
| PZ-108 | SMPZ-108-GW031711 | Cs-134 | Total | -0.4 | NA | 0.48 | NA |
| PZ-108 | SMPZ-108-GW031711 | Cs-137 | Filtered | 0.36 U | 1.7 | 0.5 | 0.8 |
| PZ-108 | SMPZ-108-GW031711 | Cs-137 | Suspended | 0.09 U | 0.7 | 0.21 | 0.33 |
| PZ-108 | SMPZ-108-GW031711 | Cs-137 | Total | 0.46 | NA | 0.54 | NA |
| PZ-108 | SMPZ-108-GW031711 | Eu-152 | Filtered | -0.12 U | 3.2 | 0.93 | 1.5 |
| PZ-108 | SMPZ-108-GW031711 | Eu-152 | Suspended | -0.1 U | 1.5 | 0.44 | 0.72 |
| PZ-108 | SMPZ-108-GW031711 | Eu-152 | Total | -0.2 | NA | 1 | NA |
| PZ-108 | SMPZ-108-GW031711 | Eu-154 | Filtered | 0.5 U | 10 | 2.8 | 4.5 |
| PZ-108 | SMPZ-108-GW031711 | Eu-154 | Suspended | 1.6 U | 4.9 | 1.5 | 2.3 |
| PZ-108 | SMPZ-108-GW031711 | Eu-154 | Total | 2.2 | NA | 3.1 | NA |
| PZ-108 | SMPZ-108-GW031711 | Eu-155 | Filtered | 1.01 U | 3.1 | 0.93 | 1.5 |
| PZ-108 | SMPZ-108-GW031711 | Eu-155 | Suspended | -0.04 U | 1.2 | 0.35 | 0.58 |
| PZ-108 | SMPZ-108-GW031711 | Eu-155 | Total | 0.966 | NA | 0.996 | NA |
| PZ-108 | SMPZ-108-GW031711 | gross_alpha | Filtered | 32.3 | 0.5 | 1.6 | 0.3 |
| PZ-108 | SMPZ-108-GW031711 | gross_alpha | Suspended | 0.18 U | 0.68 | 0.19 | 0.35 |
| PZ-108 | SMPZ-108-GW031711 | gross_alpha | Total | 32.5 | NA | 1.6 | NA |
| PZ-108 | SMPZ-108-GW031711 | gross_beta | Filtered | 10.1 | 3 | 1.4 | 1.7 |
| PZ-108 | SMPZ-108-GW031711 | gross_beta | Suspended | 0.57 | 0.79 | 0.25 | 0.47 |
| PZ-108 | SMPZ-108-GW031711 | gross_beta | Total | 10.7 | NA | 1.4 | NA |
| PZ-108 | SMPZ-108-GW031711 | H-3 | Total | -20 U | 140 | 41 | 68 |
| PZ-108 | SMPZ-108-GW031711 | Ho-166m | Filtered | -0.06 U | 2.2 | 0.61 | 1 |
| PZ-108 | SMPZ-108-GW031711 | Ho-166m | Suspended | -0.32 U | 1.1 | 0.33 | 0.54 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-108 | SMPZ-108-GW031711 | Ho-166m | Total | -0.38 | NA | 0.7 | NA |
| PZ-108 | SMPZ-108-GW031711 | K-40 | Filtered | -9 U | 26 | 13 | 12 |
| PZ-108 | SMPZ-108-GW031711 | K-40 | Suspended | -7 U | 13 | 6.3 | 6.2 |
| PZ-108 | SMPZ-108-GW031711 | K-40 | Total | -16 | NA | 14 | NA |
| PZ-108 | SMPZ-108-GW031711 | Na-22 | Filtered | 0.31 U | 1.5 | 0.44 | 0.69 |
| PZ-108 | SMPZ-108-GW031711 | Na-22 | Suspended | 0 U | 0.68 | 0.19 | 0.32 |
| PZ-108 | SMPZ-108-GW031711 | Na-22 | Total | 0.31 | NA | 0.48 | NA |
| PZ-108 | SMPZ-108-GW031711 | Nb-94 | Filtered | -0.43 U | 1.6 | 0.47 | 0.75 |
| PZ-108 | SMPZ-108-GW031711 | Nb-94 | Suspended | -0.2 U | 0.7 | 0.21 | 0.33 |
| PZ-108 | SMPZ-108-GW031711 | Nb-94 | Total | -0.63 | NA | 0.52 | NA |
| PZ-108 | SMPZ-108-GW031711 | Np-236 | Filtered | -0.82 U | 2.9 | 0.86 | 1.4 |
| PZ-108 | SMPZ-108-GW031711 | Np-236 | Suspended | 0.01 U | 1.2 | 0.34 | 0.56 |
| PZ-108 | SMPZ-108-GW031711 | Np-236 | Total | -0.81 | NA | 0.92 | NA |
| PZ-108 | SMPZ-108-GW031711 | Np-239 | Filtered | 1.2 U | 7.9 | 2.3 | 3.8 |
| PZ-108 | SMPZ-108-GW031711 | Np-239 | Suspended | -1.3 U | 3.9 | 1.2 | 1.9 |
| PZ-108 | SMPZ-108-GW031711 | Np-239 | Total | -0.2 | NA | 2.6 | NA |
| PZ-108 | SMPZ-108-GW031711 | Pa-231 | Filtered | -21 U | 64 | 19 | 31 |
| PZ-108 | SMPZ-108-GW031711 | Pa-231 | Suspended | -4.2 U | 28 | 8.4 | 14 |
| PZ-108 | SMPZ-108-GW031711 | Pa-231 | Total | -25 | NA | 21 | NA |
| PZ-108 | SMPZ-108-GW031711 | Pb-212 | Filtered | 0.41 U | 2.4 | 0.81 | 1.2 |
| PZ-108 | SMPZ-108-GW031711 | Pb-212 | Suspended | -0.07 U | 1.1 | 0.37 | 0.54 |
| PZ-108 | SMPZ-108-GW031711 | Pb-212 | Total | 0.34 | NA | 0.89 | NA |
| PZ-108 | SMPZ-108-GW031711 | Pb-214 | Filtered | 0.5 U | 3.2 | 1.1 | 1.5 |
| PZ-108 | SMPZ-108-GW031711 | Pb-214 | Suspended | 0.42 U | 1.5 | 0.54 | 0.72 |
| PZ-108 | SMPZ-108-GW031711 | Pb-214 | Total | 0.9 | NA | 1.2 | NA |
| PZ-108 | SMPZ-108-GW031711 | Sb-125 | Filtered | -3.3 U | 13 | 4 | 6.4 |
| PZ-108 | SMPZ-108-GW031711 | Sb-125 | Suspended | 0.001 U | 5.7 | 1.7 | 2.8 |
| PZ-108 | SMPZ-108-GW031711 | Sb-125 | Total | -3.3 | NA | 4.3 | NA |
| PZ-108 | SMPZ-108-GW031711 | Sn-126 | Filtered | 0.08 U | 1.6 | 0.45 | 0.73 |
| PZ-108 | SMPZ-108-GW031711 | Sn-126 | Suspended | 0.11 U | 0.74 | 0.22 | 0.35 |
| PZ-108 | SMPZ-108-GW031711 | Sn-126 | Total | 0.18 | NA | 0.5 | NA |
| PZ-108 | SMPZ-108-GW031711 | Sr-90 | Filtered | 0.043 U | 0.13 | 0.039 | 0.074 |
| PZ-108 | SMPZ-108-GW031711 | Sr-90 | Suspended | 0.087 | 0.14 | 0.044 | 0.085 |
| PZ-108 | SMPZ-108-GW031711 | Sr-90 | Total | 0.13 | NA | 0.059 | NA |
| PZ-108 | SMPZ-108-GW031711 | Te-125m | Filtered | -0.76 U | 3.1 | 0.92 | 1.5 |
| PZ-108 | SMPZ-108-GW031711 | Te-125m | Suspended | 0.0003 U | 1.3 | 0.39 | 0.64 |
| PZ-108 | SMPZ-108-GW031711 | Te-125m | Total | -0.756 | NA | 0.999 | NA |
| PZ-108 | SMPZ-108-GW031711 | Th-231 | Filtered | 0.803 | 0.022 | 0.062 | 0.007 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-108 | SMPZ-108-GW031711 | Th-231 | Suspended | 0.0026 U | 0.007 | 0.0026 | 0.006 |
| PZ-108 | SMPZ-108-GW031711 | Th-231 | Total | 0.825 | NA | 0.063 | NA |
| PZ-108 | SMPZ-108-GW031711 | Th-234 | Filtered | 15.7 | 24 | 8.5 | 12 |
| PZ-108 | SMPZ-108-GW031711 | Th-234 | Suspended | 1.7 U | 9 | 3.1 | 4.4 |
| PZ-108 | SMPZ-108-GW031711 | Th-234 | Total | 17.4 | NA | 9.1 | NA |
| PZ-108 | SMPZ-108-GW031711 | Tl-208 | Filtered | -0.6 U | 1.8 | 1.2 | 0.8 |
| PZ-108 | SMPZ-108-GW031711 | Tl-208 | Suspended | -0.24 U | 0.81 | 0.33 | 0.39 |
| PZ-108 | SMPZ-108-GW031711 | Tl-208 | Total | -0.9 | NA | 1.2 | NA |
| PZ-108 | SMPZ-108-GW031711 | Tm-171 | Filtered | -74 U | 290 | 88 | 140 |
| PZ-108 | SMPZ-108-GW031711 | Tm-171 | Suspended | -1 U | 120 | 35 | 58 |
| PZ-108 | SMPZ-108-GW031711 | Tm-171 | Total | -75 | NA | 95 | NA |
| PZ-108 | SMPZ-108-GW031711 | U-233/234 | Filtered | 16.2 | 0.02 | 0.71 | 0.008 |
| PZ-108 | SMPZ-108-GW031711 | U-233/234 | Suspended | 0.0142 | 0.015 | 0.0078 | 0.0048 |
| PZ-108 | SMPZ-108-GW031711 | U-233/234 | Total | 16.2 | NA | 0.71 | NA |
| PZ-108 | SMPZ-108-GW031711 | U-235/236 | Filtered | 0.803 | 0.022 | 0.062 | 0.007 |
| PZ-108 | SMPZ-108-GW031711 | U-235/236 | Suspended | 0.0026 U | 0.007 | 0.0026 | 0.006 |
| PZ-108 | SMPZ-108-GW031711 | U-235/236 | Total | 0.806 | NA | 0.062 | NA |
| PZ-108 | SMPZ-108-GW031711 | U-238 | Filtered | 15.8 | 0.007 | 0.7 | 0.006 |
| PZ-108 | SMPZ-108-GW031711 | U-238 | Suspended | 0.019 | 0.015 | 0.008 | 0.0048 |
| PZ-108 | SMPZ-108-GW031711 | U-238 | Total | 15.9 | NA | 0.7 | NA |
| PZ-109 | SMPZ-109-GW032411 | Ac-227 | Filtered | -10.1 R U | 9.9 | 3.1 | 4.8 |
| PZ-109 | SMPZ-109-GW032411 | Ac-227 | Suspended | -3.7 L U | 4.6 | 1.4 | 2.3 |
| PZ-109 | SMPZ-109-GW032411 | Ac-227 | Total | -13.8 R | NA | 3.4 | NA |
| PZ-109 | SMPZ-109-GW032411 | Ac-228 | Filtered | 1.9 | 3.5 | 1.1 | 1.6 |
| PZ-109 | SMPZ-109-GW032411 | Ac-228 | Suspended | -1.5 U | 3 | 2.1 | 1.5 |
| PZ-109 | SMPZ-109-GW032411 | Ac-228 | Total | 0.4 | NA | 2.4 | NA |
| PZ-109 | SMPZ-109-GW032411 | Ag-108 | Filtered | -0.032 U R | 0.089 | 0.027 | 0.043 |
| PZ-109 | SMPZ-109-GW032411 | Ag-108 | Suspended | 0.013 U R | 0.053 | 0.016 | 0.026 |
| PZ-109 | SMPZ-109-GW032411 | Ag-108 | Total | -0.019 R | NA | 0.031 | NA |
| PZ-109 | SMPZ-109-GW032411 | Ag-108m | Filtered | -0.34 U R | 0.96 | 0.29 | 0.46 |
| PZ-109 | SMPZ-109-GW032411 | Ag-108m | Suspended | 0.14 U R | 0.57 | 0.17 | 0.28 |
| PZ-109 | SMPZ-109-GW032411 | Ag-108m | Total | -0.2 R | NA | 0.33 | NA |
| PZ-109 | SMPZ-109-GW032411 | Ba-133 | Filtered | -0.9 U R | 11 | 3.4 | 5.5 |
| PZ-109 | SMPZ-109-GW032411 | Ba-133 | Suspended | 0.3 U R | 5.1 | 1.5 | 2.4 |
| PZ-109 | SMPZ-109-GW032411 | Ba-133 | Total | -0.6 R | NA | 3.7 | NA |
| PZ-109 | SMPZ-109-GW032411 | Ba-137m | Filtered | 0.09 U | 1.1 | 0.32 | 0.51 |
| PZ-109 | SMPZ-109-GW032411 | Ba-137m | Suspended | 0.16 U | 0.65 | 0.19 | 0.31 |
| PZ-109 | SMPZ-109-GW032411 | Ba-137m | Total | 0.25 | NA | 0.37 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-109 | SMPZ-109-GW032411 | Bi-212 | Filtered | 0.3 U | 9.3 | 2.6 | 4.4 |
| PZ-109 | SMPZ-109-GW032411 | Bi-212 | Suspended | 3 | 5.6 | 1.7 | 2.7 |
| PZ-109 | SMPZ-109-GW032411 | Bi-212 | Total | 3.3 | NA | 3.1 | NA |
| PZ-109 | SMPZ-109-GW032411 | Bi-214 | Filtered | 3.08 | 3.2 | 0.91 | 1.5 |
| PZ-109 | SMPZ-109-GW032411 | Bi-214 | Suspended | 1.16 | 1.5 | 0.52 | 0.71 |
| PZ-109 | SMPZ-109-GW032411 | Bi-214 | Total | 4.2 | NA | 1 | NA |
| PZ-109 | SMPZ-109-GW032411 | Cd-113m | Filtered | 3700 U | 13000 | 3800 | 6100 |
| PZ-109 | SMPZ-109-GW032411 | Cd-113m | Suspended | -1100 U | 7000 | 2100 | 3400 |
| PZ-109 | SMPZ-109-GW032411 | Cd-113m | Total | 2600 | NA | 4300 | NA |
| PZ-109 | SMPZ-109-GW032411 | Cf-249 | Filtered | 0.05 U R | 5.2 | 1.5 | 2.5 |
| PZ-109 | SMPZ-109-GW032411 | Cf-249 | Suspended | -0.55 U R | 3 | 0.89 | 1.4 |
| PZ-109 | SMPZ-109-GW032411 | Cf-249 | Total | -0.5 R | NA | 1.8 | NA |
| PZ-109 | SMPZ-109-GW032411 | Co-60 | Filtered | 0.18 U | 0.98 | 0.28 | 0.45 |
| PZ-109 | SMPZ-109-GW032411 | Co-60 | Suspended | 0.24 U | 0.68 | 0.2 | 0.31 |
| PZ-109 | SMPZ-109-GW032411 | Co-60 | Total | 0.43 | NA | 0.35 | NA |
| PZ-109 | SMPZ-109-GW032411 | Cs-134 | Filtered | -0.002 U | 1.2 | 0.35 | 0.58 |
| PZ-109 | SMPZ-109-GW032411 | Cs-134 | Suspended | -0.004 U | 0.73 | 0.21 | 0.35 |
| PZ-109 | SMPZ-109-GW032411 | Cs-134 | Total | -0.005 | NA | 0.41 | NA |
| PZ-109 | SMPZ-109-GW032411 | Cs-137 | Filtered | 0.09 U | 1.1 | 0.33 | 0.54 |
| PZ-109 | SMPZ-109-GW032411 | Cs-137 | Suspended | 0.17 U | 0.68 | 0.2 | 0.33 |
| PZ-109 | SMPZ-109-GW032411 | Cs-137 | Total | 0.26 | NA | 0.39 | NA |
| PZ-109 | SMPZ-109-GW032411 | Eu-152 | Filtered | 0.22 U | 3 | 0.88 | 1.4 |
| PZ-109 | SMPZ-109-GW032411 | Eu-152 | Suspended | 0.1 U | 1.5 | 0.45 | 0.74 |
| PZ-109 | SMPZ-109-GW032411 | Eu-152 | Total | 0.31 | NA | 0.99 | NA |
| PZ-109 | SMPZ-109-GW032411 | Eu-154 | Filtered | -1.5 U | 9.2 | 2.7 | 4.3 |
| PZ-109 | SMPZ-109-GW032411 | Eu-154 | Suspended | 1.6 U | 5.2 | 1.5 | 2.4 |
| PZ-109 | SMPZ-109-GW032411 | Eu-154 | Total | 0.06 | NA | 3.1 | NA |
| PZ-109 | SMPZ-109-GW032411 | Eu-155 | Filtered | -0.37 U | 3 | 0.88 | 1.4 |
| PZ-109 | SMPZ-109-GW032411 | Eu-155 | Suspended | -0.27 U | 1.4 | 0.42 | 0.68 |
| PZ-109 | SMPZ-109-GW032411 | Eu-155 | Total | -0.64 | NA | 0.97 | NA |
| PZ-109 | SMPZ-109-GW032411 | gross_alpha | Filtered | 7.49 | 0.72 | 0.65 | 0.39 |
| PZ-109 | SMPZ-109-GW032411 | gross_alpha | Suspended | 0.61 | 0.57 | 0.21 | 0.3 |
| PZ-109 | SMPZ-109-GW032411 | gross_alpha | Total | 8.1 | NA | 0.68 | NA |
| PZ-109 | SMPZ-109-GW032411 | gross_beta | Filtered | 5.69 | 2.1 | 0.9 | 1.2 |
| PZ-109 | SMPZ-109-GW032411 | gross_beta | Suspended | 1.07 | 0.85 | 0.29 | 0.5 |
| PZ-109 | SMPZ-109-GW032411 | gross_beta | Total | 6.76 | NA | 0.95 | NA |
| PZ-109 | SMPZ-109-GW032411 | H-3 | Total | -17 U | 140 | 42 | 69 |
| PZ-109 | SMPZ-109-GW032411 | Ho-166m | Filtered | -0.26 U | 2 | 0.59 | 0.95 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-109 | SMPZ-109-GW032411 | Ho-166m | Suspended | -0.26 U | 1.2 | 0.34 | 0.56 |
| PZ-109 | SMPZ-109-GW032411 | Ho-166m | Total | -0.52 | NA | 0.68 | NA |
| PZ-109 | SMPZ-109-GW032411 | K-40 | Filtered | -1.5 U | 17 | 4.3 | 7.9 |
| PZ-109 | SMPZ-109-GW032411 | K-40 | Suspended | 6.6 | 12 | 4.1 | 6 |
| PZ-109 | SMPZ-109-GW032411 | K-40 | Total | 5.1 | NA | 6 | NA |
| PZ-109 | SMPZ-109-GW032411 | Na-22 | Filtered | 0.21 U | 1.2 | 0.34 | 0.55 |
| PZ-109 | SMPZ-109-GW032411 | Na-22 | Suspended | -0.1 U | 0.81 | 0.23 | 0.38 |
| PZ-109 | SMPZ-109-GW032411 | Na-22 | Total | 0.12 | NA | 0.41 | NA |
| PZ-109 | SMPZ-109-GW032411 | Nb-94 | Filtered | -0.05 U | 0.87 | 0.25 | 0.41 |
| PZ-109 | SMPZ-109-GW032411 | Nb-94 | Suspended | -0.09 U | 0.55 | 0.16 | 0.26 |
| PZ-109 | SMPZ-109-GW032411 | Nb-94 | Total | -0.14 | NA | 0.3 | NA |
| PZ-109 | SMPZ-109-GW032411 | Np-236 | Filtered | -0.59 U | 2.7 | 0.8 | 1.3 |
| PZ-109 | SMPZ-109-GW032411 | Np-236 | Suspended | 0.33 U | 1.2 | 0.35 | 0.57 |
| PZ-109 | SMPZ-109-GW032411 | Np-236 | Total | -0.26 | NA | 0.87 | NA |
| PZ-109 | SMPZ-109-GW032411 | Np-239 | Filtered | -0.1 U | 6.9 | 2 | 3.4 |
| PZ-109 | SMPZ-109-GW032411 | Np-239 | Suspended | -0.7 U | 3.6 | 1.1 | 1.7 |
| PZ-109 | SMPZ-109-GW032411 | Np-239 | Total | -0.8 | NA | 2.3 | NA |
| PZ-109 | SMPZ-109-GW032411 | Pa-231 | Filtered | 11 U | 52 | 15 | 25 |
| PZ-109 | SMPZ-109-GW032411 | Pa-231 | Suspended | 1.9 U | 25 | 7.3 | 12 |
| PZ-109 | SMPZ-109-GW032411 | Pa-231 | Total | 13 | NA | 17 | NA |
| PZ-109 | SMPZ-109-GW032411 | Pb-212 | Filtered | 1.45 | 2.4 | 0.83 | 1.2 |
| PZ-109 | SMPZ-109-GW032411 | Pb-212 | Suspended | 0.73 | 0.96 | 0.3 | 0.47 |
| PZ-109 | SMPZ-109-GW032411 | Pb-212 | Total | 2.18 | NA | 0.89 | NA |
| PZ-109 | SMPZ-109-GW032411 | Pb-214 | Filtered | 0.45 U | 2.5 | 0.92 | 1.2 |
| PZ-109 | SMPZ-109-GW032411 | Pb-214 | Suspended | 0.25 U | 1.2 | 0.41 | 0.6 |
| PZ-109 | SMPZ-109-GW032411 | Pb-214 | Total | 0.7 | NA | 1 | NA |
| PZ-109 | SMPZ-109-GW032411 | Sb-125 | Filtered | -1.7 U | 12 | 3.5 | 5.8 |
| PZ-109 | SMPZ-109-GW032411 | Sb-125 | Suspended | -0.005 U | 4.7 | 1.4 | 2.3 |
| PZ-109 | SMPZ-109-GW032411 | Sb-125 | Total | -1.7 | NA | 3.8 | NA |
| PZ-109 | SMPZ-109-GW032411 | Sn-126 | Filtered | 0.15 U | 1.2 | 0.35 | 0.57 |
| PZ-109 | SMPZ-109-GW032411 | Sn-126 | Suspended | 0.27 U | 0.87 | 0.26 | 0.42 |
| PZ-109 | SMPZ-109-GW032411 | Sn-126 | Total | 0.42 | NA | 0.43 | NA |
| PZ-109 | SMPZ-109-GW032411 | Sr-90 | Filtered | 0.042 | 0.071 | 0.022 | 0.04 |
| PZ-109 | SMPZ-109-GW032411 | Sr-90 | Suspended | 0.012 U | 0.067 | 0.02 | 0.038 |
| PZ-109 | SMPZ-109-GW032411 | Sr-90 | Total | 0.055 | NA | 0.03 | NA |
| PZ-109 | SMPZ-109-GW032411 | Te-125m | Filtered | -0.4 U | 2.7 | 0.82 | 1.3 |
| PZ-109 | SMPZ-109-GW032411 | Te-125m | Suspended | -0.001 U | 1.1 | 0.32 | 0.52 |
| PZ-109 | SMPZ-109-GW032411 | Te-125m | Total | -0.4 | NA | 0.88 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| PZ-109 | SMPZ-109-GW032411 | Th-231 | Filtered | 0.216 | 0.007 | 0.025 | 0.005 |
| PZ-109 | SMPZ-109-GW032411 | Th-231 | Suspended | 0.001 U | 0.02 | 0.0047 | 0.0072 |
| PZ-109 | SMPZ-109-GW032411 | Th-231 | Total | 0.217 | NA | 0.025 | NA |
| PZ-109 | SMPZ-109-GW032411 | Th-234 | Filtered | 0.07 U | 21 | 6.6 | 10 |
| PZ-109 | SMPZ-109-GW032411 | Th-234 | Suspended | -0.4 U | 8.5 | 2.6 | 4.1 |
| PZ-109 | SMPZ-109-GW032411 | Th-234 | Total | -0.3 | NA | 7.1 | NA |
| PZ-109 | SMPZ-109-GW032411 | Tl-208 | Filtered | 0.52 U | 1.3 | 0.47 | 0.63 |
| PZ-109 | SMPZ-109-GW032411 | Tl-208 | Suspended | -0.14 U | 0.89 | 0.31 | 0.43 |
| PZ-109 | SMPZ-109-GW032411 | Tl-208 | Total | 0.38 | NA | 0.56 | NA |
| PZ-109 | SMPZ-109-GW032411 | Tm-171 | Filtered | 0 U | 340 | 100 | 170 |
| PZ-109 | SMPZ-109-GW032411 | Tm-171 | Suspended | 11 U | 110 | 34 | 56 |
| PZ-109 | SMPZ-109-GW032411 | Tm-171 | Total | 10 | NA | 110 | NA |
| PZ-109 | SMPZ-109-GW032411 | U-233/234 | Filtered | 5.84 | 0.005 | 0.27 | 0.004 |
| PZ-109 | SMPZ-109-GW032411 | U-233/234 | Suspended | 0.0263 | 0.013 | 0.0088 | 0.0041 |
| PZ-109 | SMPZ-109-GW032411 | U-233/234 | Total | 5.87 | NA | 0.27 | NA |
| PZ-109 | SMPZ-109-GW032411 | U-235/236 | Filtered | 0.216 | 0.007 | 0.025 | 0.005 |
| PZ-109 | SMPZ-109-GW032411 | U-235/236 | Suspended | 0.001 U | 0.02 | 0.0044 | 0.0072 |
| PZ-109 | SMPZ-109-GW032411 | U-235/236 | Total | 0.217 | NA | 0.025 | NA |
| PZ-109 | SMPZ-109-GW032411 | U-238 | Filtered | 5.18 | 0.005 | 0.24 | 0.004 |
| PZ-109 | SMPZ-109-GW032411 | U-238 | Suspended | 0.0365 | 0.013 | 0.0097 | 0.0041 |
| PZ-109 | SMPZ-109-GW032411 | U-238 | Total | 5.22 | NA | 0.24 | NA |
| PZ-111 | SMPZ-111-GW033111 | Ac-227 | Filtered | 0.2 U | 11 | 3.4 | 5.6 |
| PZ-111 | SMPZ-111-GW033111 | Ac-227 | Suspended | -3.6 L U | 4.7 | 1.4 | 2.3 |
| PZ-111 | SMPZ-111-GW033111 | Ac-227 | Total | -3.4 | NA | 3.7 | NA |
| PZ-111 | SMPZ-111-GW033111 | Ac-228 | Filtered | 2.3 | 3.6 | 1.1 | 1.7 |
| PZ-111 | SMPZ-111-GW033111 | Ac-228 | Suspended | 0.8 U | 2.1 | 0.62 | 0.97 |
| PZ-111 | SMPZ-111-GW033111 | Ac-228 | Total | 3 | NA | 1.3 | NA |
| PZ-111 | SMPZ-111-GW033111 | Ag-108 | Filtered | -0.019 U R | 0.096 | 0.028 | 0.046 |
| PZ-111 | SMPZ-111-GW033111 | Ag-108 | Suspended | 0.018 U R | 0.042 | 0.013 | 0.02 |
| PZ-111 | SMPZ-111-GW033111 | Ag-108 | Total | -0.0008 R | NA | 0.031 | NA |
| PZ-111 | SMPZ-111-GW033111 | Ag-108m | Filtered | -0.2 U R | 1 | 0.31 | 0.5 |
| PZ-111 | SMPZ-111-GW033111 | Ag-108m | Suspended | 0.19 U R | 0.46 | 0.14 | 0.22 |
| PZ-111 | SMPZ-111-GW033111 | Ag-108m | Total | -0.008 R | NA | 0.34 | NA |
| PZ-111 | SMPZ-111-GW033111 | Ba-133 | Filtered | 2 U R | 11 | 3.3 | 5.4 |
| PZ-111 | SMPZ-111-GW033111 | Ba-133 | Suspended | 0.08 U R | 4.8 | 1.4 | 2.3 |
| PZ-111 | SMPZ-111-GW033111 | Ba-133 | Total | 2 R | NA | 3.6 | NA |
| PZ-111 | SMPZ-111-GW033111 | Ba-137m | Filtered | 0.24 U | 1 | 0.3 | 0.48 |
| PZ-111 | SMPZ-111-GW033111 | Ba-137m | Suspended | 0.14 U | 0.51 | 0.15 | 0.24 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-111 | SMPZ-111-GW033111 | Ba-137m | Total | 0.38 | NA | 0.33 | NA |
| PZ-111 | SMPZ-111-GW033111 | Bi-212 | Filtered | 2.9 U | 7.3 | 2.2 | 3.4 |
| PZ-111 | SMPZ-111-GW033111 | Bi-212 | Suspended | 3.2 | 4.6 | 1.4 | 2.2 |
| PZ-111 | SMPZ-111-GW033111 | Bi-212 | Total | 6.1 | NA | 2.6 | NA |
| PZ-111 | SMPZ-111-GW033111 | Bi-214 | Filtered | -0.4 U | 2.8 | 1.1 | 1.4 |
| PZ-111 | SMPZ-111-GW033111 | Bi-214 | Suspended | 1.51 | 1.6 | 0.68 | 0.78 |
| PZ-111 | SMPZ-111-GW033111 | Bi-214 | Total | 1.1 | NA | 1.3 | NA |
| PZ-111 | SMPZ-111-GW033111 | Cd-113m | Filtered | -100 U | 14000 | 4100 | 6800 |
| PZ-111 | SMPZ-111-GW033111 | Cd-113m | Suspended | 2200 U | 6300 | 1900 | 3000 |
| PZ-111 | SMPZ-111-GW033111 | Cd-113m | Total | 2100 | NA | 4500 | NA |
| PZ-111 | SMPZ-111-GW033111 | Cf-249 | Filtered | 1 U R | 5.2 | 1.5 | 2.5 |
| PZ-111 | SMPZ-111-GW033111 | Cf-249 | Suspended | 0.06 U R | 2.8 | 0.81 | 1.3 |
| PZ-111 | SMPZ-111-GW033111 | Cf-249 | Total | 1.1 R | NA | 1.7 | NA |
| PZ-111 | SMPZ-111-GW033111 | Co-60 | Filtered | 0.09 U | 1.2 | 0.34 | 0.55 |
| PZ-111 | SMPZ-111-GW033111 | Co-60 | Suspended | 0.16 U | 0.6 | 0.18 | 0.28 |
| PZ-111 | SMPZ-111-GW033111 | Co-60 | Total | 0.25 | NA | 0.38 | NA |
| PZ-111 | SMPZ-111-GW033111 | Cs-134 | Filtered | 0.18 U | 1.1 | 0.32 | 0.53 |
| PZ-111 | SMPZ-111-GW033111 | Cs-134 | Suspended | -0.07 U | 0.67 | 0.2 | 0.32 |
| PZ-111 | SMPZ-111-GW033111 | Cs-134 | Total | 0.1 | NA | 0.38 | NA |
| PZ-111 | SMPZ-111-GW033111 | Cs-137 | Filtered | 0.25 U | 1.1 | 0.31 | 0.5 |
| PZ-111 | SMPZ-111-GW033111 | Cs-137 | Suspended | 0.15 U | 0.54 | 0.16 | 0.25 |
| PZ-111 | SMPZ-111-GW033111 | Cs-137 | Total | 0.4 | NA | 0.35 | NA |
| PZ-111 | SMPZ-111-GW033111 | Eu-152 | Filtered | 1.09 U | 2.4 | 0.72 | 1.1 |
| PZ-111 | SMPZ-111-GW033111 | Eu-152 | Suspended | -0.51 U | 1.8 | 0.53 | 0.86 |
| PZ-111 | SMPZ-111-GW033111 | Eu-152 | Total | 0.58 | NA | 0.9 | NA |
| PZ-111 | SMPZ-111-GW033111 | Eu-154 | Filtered | 2.6 U | 10 | 3.1 | 5 |
| PZ-111 | SMPZ-111-GW033111 | Eu-154 | Suspended | -0.9 U | 5.3 | 1.6 | 2.5 |
| PZ-111 | SMPZ-111-GW033111 | Eu-154 | Total | 1.8 | NA | 3.5 | NA |
| PZ-111 | SMPZ-111-GW033111 | Eu-155 | Filtered | 0 U | 3.3 | 0.97 | 1.6 |
| PZ-111 | SMPZ-111-GW033111 | Eu-155 | Suspended | 0.29 U | 0.98 | 0.29 | 0.47 |
| PZ-111 | SMPZ-111-GW033111 | Eu-155 | Total | 0.3 | NA | 1 | NA |
| PZ-111 | SMPZ-111-GW033111 | gross_alpha | Filtered | 2.09 | 0.59 | 0.34 | 0.31 |
| PZ-111 | SMPZ-111-GW033111 | gross_alpha | Suspended | 2.65 | 0.44 | 0.32 | 0.23 |
| PZ-111 | SMPZ-111-GW033111 | gross_alpha | Total | 5.9 | NA | 0.5 | NA |
| PZ-111 | SMPZ-111-GW033111 | gross_beta | Filtered | 3.9 | 3 | 1.1 | 1.8 |
| PZ-111 | SMPZ-111-GW033111 | gross_beta | Suspended | 0.28 U | 0.81 | 0.24 | 0.48 |
| PZ-111 | SMPZ-111-GW033111 | gross_beta | Total | 4.2 | NA | 1.1 | NA |
| PZ-111 | SMPZ-111-GW033111 | H-3 | Total | -7 U | 140 | 42 | 69 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-111 | SMPZ-111-GW033111 | Ho-166m | Filtered | 0.74 SK | 1.2 | 0.37 | 0.55 |
| PZ-111 | SMPZ-111-GW033111 | Ho-166m | Suspended | -0.25 U | 1.1 | 0.31 | 0.51 |
| PZ-111 | SMPZ-111-GW033111 | Ho-166m | Total | 0.49 SK | NA | 0.49 | NA |
| PZ-111 | SMPZ-111-GW033111 | K-40 | Filtered | 12 | 17 | 5.5 | 8.1 |
| PZ-111 | SMPZ-111-GW033111 | K-40 | Suspended | -1.5 U | 9.7 | 2.7 | 4.6 |
| PZ-111 | SMPZ-111-GW033111 | K-40 | Total | 10.5 | NA | 6.1 | NA |
| PZ-111 | SMPZ-111-GW033111 | Na-22 | Filtered | 0.44 U | 1 | 0.31 | 0.46 |
| PZ-111 | SMPZ-111-GW033111 | Na-22 | Suspended | -0.03 U | 0.65 | 0.18 | 0.3 |
| PZ-111 | SMPZ-111-GW033111 | Na-22 | Total | 0.41 | NA | 0.36 | NA |
| PZ-111 | SMPZ-111-GW033111 | Nb-94 | Filtered | -0.42 U | 1.3 | 0.38 | 0.6 |
| PZ-111 | SMPZ-111-GW033111 | Nb-94 | Suspended | -0.11 U | 0.66 | 0.19 | 0.32 |
| PZ-111 | SMPZ-111-GW033111 | Nb-94 | Total | -0.52 | NA | 0.42 | NA |
| PZ-111 | SMPZ-111-GW033111 | Np-236 | Filtered | -0.58 U | 2.9 | 0.86 | 1.4 |
| PZ-111 | SMPZ-111-GW033111 | Np-236 | Suspended | 0.22 U | 0.98 | 0.29 | 0.47 |
| PZ-111 | SMPZ-111-GW033111 | Np-236 | Total | -0.35 | NA | 0.91 | NA |
| PZ-111 | SMPZ-111-GW033111 | Np-239 | Filtered | 2 U | 6.4 | 1.9 | 3.1 |
| PZ-111 | SMPZ-111-GW033111 | Np-239 | Suspended | -0.04 U | 3.4 | 0.99 | 1.6 |
| PZ-111 | SMPZ-111-GW033111 | Np-239 | Total | 1.9 | NA | 2.2 | NA |
| PZ-111 | SMPZ-111-GW033111 | Pa-231 | Filtered | -2 U | 53 | 16 | 26 |
| PZ-111 | SMPZ-111-GW033111 | Pa-231 | Suspended | 4.5 U | 23 | 6.9 | 11 |
| PZ-111 | SMPZ-111-GW033111 | Pa-231 | Total | 2 | NA | 17 | NA |
| PZ-111 | SMPZ-111-GW033111 | Pb-212 | Filtered | 0.55 U | 2.2 | 0.68 | 1.1 |
| PZ-111 | SMPZ-111-GW033111 | Pb-212 | Suspended | 0.38 U | 1.1 | 0.33 | 0.53 |
| PZ-111 | SMPZ-111-GW033111 | Pb-212 | Total | 0.93 | NA | 0.75 | NA |
| PZ-111 | SMPZ-111-GW033111 | Pb-214 | Filtered | 0.19 U | 2.4 | 0.82 | 1.1 |
| PZ-111 | SMPZ-111-GW033111 | Pb-214 | Suspended | 1.37 | 1.2 | 0.47 | 0.59 |
| PZ-111 | SMPZ-111-GW033111 | Pb-214 | Total | 1.57 | NA | 0.94 | NA |
| PZ-111 | SMPZ-111-GW033111 | Sb-125 | Filtered | -2.3 U | 13 | 4 | 6.5 |
| PZ-111 | SMPZ-111-GW033111 | Sb-125 | Suspended | -1.2 U | 5.2 | 1.6 | 2.5 |
| PZ-111 | SMPZ-111-GW033111 | Sb-125 | Total | -3.5 | NA | 4.3 | NA |
| PZ-111 | SMPZ-111-GW033111 | Sn-126 | Filtered | 0.34 U | 1.3 | 0.37 | 0.6 |
| PZ-111 | SMPZ-111-GW033111 | Sn-126 | Suspended | 0.29 U | 0.71 | 0.22 | 0.34 |
| PZ-111 | SMPZ-111-GW033111 | Sn-126 | Total | 0.63 | NA | 0.43 | NA |
| PZ-111 | SMPZ-111-GW033111 | Sr-90 | Filtered | 0.038 U | 0.14 | 0.041 | 0.078 |
| PZ-111 | SMPZ-111-GW033111 | Sr-90 | Suspended | 0.014 U | 0.049 | 0.014 | 0.027 |
| PZ-111 | SMPZ-111-GW033111 | Sr-90 | Total | 0.051 | NA | 0.044 | NA |
| PZ-111 | SMPZ-111-GW033111 | Te-125m | Filtered | -0.54 U | 3.1 | 0.92 | 1.5 |
| PZ-111 | SMPZ-111-GW033111 | Te-125m | Suspended | -0.28 U | 1.2 | 0.36 | 0.59 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-111 | SMPZ-111-GW033111 | Te-125m | Total | -0.81 | NA | 0.99 | NA |
| PZ-111 | SMPZ-111-GW033111 | Th-231 | Filtered | 0.099 | 0.017 | 0.017 | 0.005 |
| PZ-111 | SMPZ-111-GW033111 | Th-231 | Suspended | 0.0027 U | 0.0074 | 0.0027 | 0.0057 |
| PZ-111 | SMPZ-111-GW033111 | Th-231 | Total | 0.102 | NA | 0.017 | NA |
| PZ-111 | SMPZ-111-GW033111 | Th-234 | Filtered | 3.4 U | 22 | 6.6 | 11 |
| PZ-111 | SMPZ-111-GW033111 | Th-234 | Suspended | 2.3 U | 7.4 | 2.6 | 3.6 |
| PZ-111 | SMPZ-111-GW033111 | Th-234 | Total | 5.7 | NA | 7.1 | NA |
| PZ-111 | SMPZ-111-GW033111 | Tl-208 | Filtered | 0.7 | 1.4 | 0.5 | 0.65 |
| PZ-111 | SMPZ-111-GW033111 | Tl-208 | Suspended | 0.37 | 0.69 | 0.24 | 0.33 |
| PZ-111 | SMPZ-111-GW033111 | Tl-208 | Total | 1.06 | NA | 0.55 | NA |
| PZ-111 | SMPZ-111-GW033111 | Tm-171 | Filtered | -10 U | 330 | 97 | 160 |
| PZ-111 | SMPZ-111-GW033111 | Tm-171 | Suspended | 11 U | 86 | 26 | 42 |
| PZ-111 | SMPZ-111-GW033111 | Tm-171 | Total | 1 | NA | 100 | NA |
| PZ-111 | SMPZ-111-GW033111 | U-233/234 | Filtered | 2.3 | 0.02 | 0.12 | 0.007 |
| PZ-111 | SMPZ-111-GW033111 | U-233/234 | Suspended | 0.065 | 0.015 | 0.013 | 0.005 |
| PZ-111 | SMPZ-111-GW033111 | U-233/234 | Total | 2.36 | NA | 0.12 | NA |
| PZ-111 | SMPZ-111-GW033111 | U-235/236 | Filtered | 0.099 | 0.017 | 0.017 | 0.005 |
| PZ-111 | SMPZ-111-GW033111 | U-235/236 | Suspended | 0.0027 U | 0.0074 | 0.0027 | 0.0057 |
| PZ-111 | SMPZ-111-GW033111 | U-235/236 | Total | 0.102 | NA | 0.017 | NA |
| PZ-111 | SMPZ-111-GW033111 | U-238 | Filtered | 1.94 | 0.005 | 0.1 | 0.004 |
| PZ-111 | SMPZ-111-GW033111 | U-238 | Suspended | 0.042 | 0.021 | 0.012 | 0.008 |
| PZ-111 | SMPZ-111-GW033111 | U-238 | Total | 1.98 | NA | 0.1 | NA |
| PZ-112 | SMPZ-112-GW031811 | Ac-227 | Filtered | -3.8 U | 8.7 | 2.6 | 4.2 |
| PZ-112 | SMPZ-112-GW031811 | Ac-227 | Suspended | -1 U | 4.2 | 1.3 | 2 |
| PZ-112 | SMPZ-112-GW031811 | Ac-227 | Total | -4.8 | NA | 2.9 | NA |
| PZ-112 | SMPZ-112-GW031811 | Ac-228 | Filtered | 3.3 | 3.3 | 1.1 | 1.5 |
| PZ-112 | SMPZ-112-GW031811 | Ac-228 | Suspended | 2.18 | 2.3 | 0.73 | 1.1 |
| PZ-112 | SMPZ-112-GW031811 | Ac-228 | Total | 5.5 | NA | 1.3 | NA |
| PZ-112 | SMPZ-112-GW031811 | Ag-108 | Filtered | -0.012 U | 0.092 | 0.027 | 0.044 |
| PZ-112 | SMPZ-112-GW031811 | Ag-108 | Suspended | 0.004 U | 0.046 | 0.013 | 0.022 |
| PZ-112 | SMPZ-112-GW031811 | Ag-108 | Total | -0.008 | NA | 0.03 | NA |
| PZ-112 | SMPZ-112-GW031811 | Ag-108m | Filtered | -0.13 U | 0.99 | 0.29 | 0.48 |
| PZ-112 | SMPZ-112-GW031811 | Ag-108m | Suspended | 0.05 U | 0.49 | 0.14 | 0.23 |
| PZ-112 | SMPZ-112-GW031811 | Ag-108m | Total | -0.09 | NA | 0.33 | NA |
| PZ-112 | SMPZ-112-GW031811 | Ba-133 | Filtered | 0 U | 13 | 3.7 | 6.1 |
| PZ-112 | SMPZ-112-GW031811 | Ba-133 | Suspended | 0.5 U | 6.1 | 1.8 | 3 |
| PZ-112 | SMPZ-112-GW031811 | Ba-133 | Total | 0.5 | NA | 4.1 | NA |
| PZ-112 | SMPZ-112-GW031811 | Ba-137m | Filtered | -0.23 U | 1 | 0.31 | 0.49 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-112 | SMPZ-112-GW031811 | Ba-137m | Suspended | 0.16 U | 0.69 | 0.2 | 0.33 |
| PZ-112 | SMPZ-112-GW031811 | Ba-137m | Total | -0.06 | NA | 0.37 | NA |
| PZ-112 | SMPZ-112-GW031811 | Bi-212 | Filtered | -3 U | 9.4 | 5.6 | 4.5 |
| PZ-112 | SMPZ-112-GW031811 | Bi-212 | Suspended | -3.4 U | 5.4 | 7.4 | 2.6 |
| PZ-112 | SMPZ-112-GW031811 | Bi-212 | Total | -6.4 | NA | 9.3 | NA |
| PZ-112 | SMPZ-112-GW031811 | Bi-214 | Filtered | 1.67 | 2.5 | 0.75 | 1.2 |
| PZ-112 | SMPZ-112-GW031811 | Bi-214 | Suspended | 1.71 | 1.9 | 0.83 | 0.93 |
| PZ-112 | SMPZ-112-GW031811 | Bi-214 | Total | 3.4 | NA | 1.1 | NA |
| PZ-112 | SMPZ-112-GW031811 | Cd-113m | Filtered | 4400 U | 12000 | 3700 | 5900 |
| PZ-112 | SMPZ-112-GW031811 | Cd-113m | Suspended | 400 U | 6800 | 2000 | 3300 |
| PZ-112 | SMPZ-112-GW031811 | Cd-113m | Total | 4800 | NA | 4200 | NA |
| PZ-112 | SMPZ-112-GW031811 | Cf-249 | Filtered | -1 U | 5.6 | 1.7 | 2.7 |
| PZ-112 | SMPZ-112-GW031811 | Cf-249 | Suspended | 1.25 U | 3 | 0.9 | 1.4 |
| PZ-112 | SMPZ-112-GW031811 | Cf-249 | Total | 0.2 | NA | 1.9 | NA |
| PZ-112 | SMPZ-112-GW031811 | Co-60 | Filtered | 0.17 U | 1.1 | 0.31 | 0.49 |
| PZ-112 | SMPZ-112-GW031811 | Co-60 | Suspended | 0.18 U | 0.76 | 0.22 | 0.35 |
| PZ-112 | SMPZ-112-GW031811 | Co-60 | Total | 0.35 | NA | 0.38 | NA |
| PZ-112 | SMPZ-112-GW031811 | Cs-134 | Filtered | 0.31 U | 0.87 | 0.26 | 0.41 |
| PZ-112 | SMPZ-112-GW031811 | Cs-134 | Suspended | -0.22 U | 0.8 | 0.24 | 0.38 |
| PZ-112 | SMPZ-112-GW031811 | Cs-134 | Total | 0.09 | NA | 0.35 | NA |
| PZ-112 | SMPZ-112-GW031811 | Cs-137 | Filtered | -0.24 U | 1.1 | 0.32 | 0.52 |
| PZ-112 | SMPZ-112-GW031811 | Cs-137 | Suspended | 0.17 U | 0.72 | 0.21 | 0.34 |
| PZ-112 | SMPZ-112-GW031811 | Cs-137 | Total | -0.07 | NA | 0.39 | NA |
| PZ-112 | SMPZ-112-GW031811 | Eu-152 | Filtered | -0.63 U | 2.9 | 0.87 | 1.4 |
| PZ-112 | SMPZ-112-GW031811 | Eu-152 | Suspended | 0.48 U | 1.8 | 0.53 | 0.86 |
| PZ-112 | SMPZ-112-GW031811 | Eu-152 | Total | -0.1 | NA | 1 | NA |
| PZ-112 | SMPZ-112-GW031811 | Eu-154 | Filtered | -2.6 U | 9.9 | 2.9 | 4.7 |
| PZ-112 | SMPZ-112-GW031811 | Eu-154 | Suspended | -0.02 U | 6.2 | 1.8 | 2.9 |
| PZ-112 | SMPZ-112-GW031811 | Eu-154 | Total | -2.7 | NA | 3.4 | NA |
| PZ-112 | SMPZ-112-GW031811 | Eu-155 | Filtered | -0.0002 U | 3 | 0.88 | 1.4 |
| PZ-112 | SMPZ-112-GW031811 | Eu-155 | Suspended | -0.02 U | 1.3 | 0.4 | 0.66 |
| PZ-112 | SMPZ-112-GW031811 | Eu-155 | Total | -0.02 | NA | 0.96 | NA |
| PZ-112 | SMPZ-112-GW031811 | gross_alpha | Filtered | 0.58 L | 0.5 | 0.19 | 0.26 |
| PZ-112 | SMPZ-112-GW031811 | gross_alpha | Suspended | 0.63 | 0.4 | 0.17 | 0.2 |
| PZ-112 | SMPZ-112-GW031811 | gross_alpha | Total | 1.21 | NA | 0.26 | NA |
| PZ-112 | SMPZ-112-GW031811 | gross_beta | Filtered | 1.2 U | 2.4 | 0.74 | 1.4 |
| PZ-112 | SMPZ-112-GW031811 | gross_beta | Suspended | 1 | 0.99 | 0.33 | 0.58 |
| PZ-112 | SMPZ-112-GW031811 | gross_beta | Total | 2.2 | NA | 0.82 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| PZ-112 | SMPZ-112-GW031811 | H-3 | Total | 82 | 160 | 50 | 79 |
| PZ-112 | SMPZ-112-GW031811 | Ho-166m | Filtered | -0.38 U | 1.9 | 0.57 | 0.92 |
| PZ-112 | SMPZ-112-GW031811 | Ho-166m | Suspended | 0.5 | 1 | 0.31 | 0.49 |
| PZ-112 | SMPZ-112-GW031811 | Ho-166m | Total | 0.13 | NA | 0.65 | NA |
| PZ-112 | SMPZ-112-GW031811 | K-40 | Filtered | 14.8 | 18 | 5.9 | 8.5 |
| PZ-112 | SMPZ-112-GW031811 | K-40 | Suspended | 2.1 U | 9.3 | 2.4 | 4.4 |
| PZ-112 | SMPZ-112-GW031811 | K-40 | Total | 16.9 | NA | 6.3 | NA |
| PZ-112 | SMPZ-112-GW031811 | Na-22 | Filtered | 0 U | 2.2 | 0.63 | 1 |
| PZ-112 | SMPZ-112-GW031811 | Na-22 | Suspended | 0 U | 1.2 | 0.35 | 0.57 |
| PZ-112 | SMPZ-112-GW031811 | Na-22 | Total | 0 | NA | 0.72 | NA |
| PZ-112 | SMPZ-112-GW031811 | Nb-94 | Filtered | 0.14 U | 1.1 | 0.32 | 0.53 |
| PZ-112 | SMPZ-112-GW031811 | Nb-94 | Suspended | -0.16 U | 0.69 | 0.21 | 0.33 |
| PZ-112 | SMPZ-112-GW031811 | Nb-94 | Total | -0.02 | NA | 0.38 | NA |
| PZ-112 | SMPZ-112-GW031811 | Np-236 | Filtered | -0.07 U | 2.7 | 0.81 | 1.3 |
| PZ-112 | SMPZ-112-GW031811 | Np-236 | Suspended | -0.37 U | 1.3 | 0.38 | 0.61 |
| PZ-112 | SMPZ-112-GW031811 | Np-236 | Total | -0.45 | NA | 0.9 | NA |
| PZ-112 | SMPZ-112-GW031811 | Np-239 | Filtered | -0.3 U | 7.8 | 2.3 | 3.8 |
| PZ-112 | SMPZ-112-GW031811 | Np-239 | Suspended | 0.6 U | 3.8 | 1.1 | 1.9 |
| PZ-112 | SMPZ-112-GW031811 | Np-239 | Total | 0.3 | NA | 2.6 | NA |
| PZ-112 | SMPZ-112-GW031811 | Pa-231 | Filtered | 13 U | 49 | 15 | 24 |
| PZ-112 | SMPZ-112-GW031811 | Pa-231 | Suspended | 0.9 U | 27 | 7.8 | 13 |
| PZ-112 | SMPZ-112-GW031811 | Pa-231 | Total | 14 | NA | 17 | NA |
| PZ-112 | SMPZ-112-GW031811 | Pb-212 | Filtered | -0.1 U | 2.5 | 0.94 | 1.2 |
| PZ-112 | SMPZ-112-GW031811 | Pb-212 | Suspended | 0.47 U | 1.1 | 0.35 | 0.53 |
| PZ-112 | SMPZ-112-GW031811 | Pb-212 | Total | 0.4 | NA | 1 | NA |
| PZ-112 | SMPZ-112-GW031811 | Pb-214 | Filtered | 0.47 U | 2.3 | 0.73 | 1.1 |
| PZ-112 | SMPZ-112-GW031811 | Pb-214 | Suspended | 0.19 U | 1.5 | 0.47 | 0.7 |
| PZ-112 | SMPZ-112-GW031811 | Pb-214 | Total | 0.66 | NA | 0.86 | NA |
| PZ-112 | SMPZ-112-GW031811 | Sb-125 | Filtered | 0.09 U | 11 | 3.4 | 5.6 |
| PZ-112 | SMPZ-112-GW031811 | Sb-125 | Suspended | 2 U | 5.5 | 1.7 | 2.7 |
| PZ-112 | SMPZ-112-GW031811 | Sb-125 | Total | 2.1 | NA | 3.8 | NA |
| PZ-112 | SMPZ-112-GW031811 | Sn-126 | Filtered | 0.52 U | 1.1 | 0.34 | 0.53 |
| PZ-112 | SMPZ-112-GW031811 | Sn-126 | Suspended | 0.51 | 0.77 | 0.24 | 0.37 |
| PZ-112 | SMPZ-112-GW031811 | Sn-126 | Total | 1.03 | NA | 0.41 | NA |
| PZ-112 | SMPZ-112-GW031811 | Sr-90 | Filtered | 0.015 U | 0.2 | 0.058 | 0.12 |
| PZ-112 | SMPZ-112-GW031811 | Sr-90 | Suspended | -0.04 U | 0.17 | 0.045 | 0.1 |
| PZ-112 | SMPZ-112-GW031811 | Sr-90 | Total | -0.025 | NA | 0.073 | NA |
| PZ-112 | SMPZ-112-GW031811 | Te-125m | Filtered | 0.02 U | 2.6 | 0.78 | 1.3 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-112 | SMPZ-112-GW031811 | Te-125m | Suspended | 0.46 U | 1.3 | 0.38 | 0.62 |
| PZ-112 | SMPZ-112-GW031811 | Te-125m | Total | 0.48 | NA | 0.87 | NA |
| PZ-112 | SMPZ-112-GW031811 | Th-231 | Filtered | 0.0153 | 0.0069 | 0.0063 | 0.0053 |
| PZ-112 | SMPZ-112-GW031811 | Th-231 | Suspended | 0.0044 U | 0.0059 | 0.0031 | 0.0046 |
| PZ-112 | SMPZ-112-GW031811 | Th-231 | Total | 0.0197 | NA | 0.007 | NA |
| PZ-112 | SMPZ-112-GW031811 | Th-234 | Filtered | -3.6 U | 21 | 8.4 | 11 |
| PZ-112 | SMPZ-112-GW031811 | Th-234 | Suspended | -0.3 U | 7.7 | 2.8 | 3.8 |
| PZ-112 | SMPZ-112-GW031811 | Th-234 | Total | -4 | NA | 8.8 | NA |
| PZ-112 | SMPZ-112-GW031811 | Tl-208 | Filtered | 0.58 U | 1.3 | 0.45 | 0.62 |
| PZ-112 | SMPZ-112-GW031811 | Tl-208 | Suspended | 0.11 U | 0.77 | 0.28 | 0.37 |
| PZ-112 | SMPZ-112-GW031811 | Tl-208 | Total | 0.68 | NA | 0.53 | NA |
| PZ-112 | SMPZ-112-GW031811 | Tm-171 | Filtered | 19 U | 320 | 94 | 150 |
| PZ-112 | SMPZ-112-GW031811 | Tm-171 | Suspended | 14 U | 110 | 34 | 55 |
| PZ-112 | SMPZ-112-GW031811 | Tm-171 | Total | 33 | NA | 99.9 | NA |
| PZ-112 | SMPZ-112-GW031811 | U-233/234 | Filtered | 0.322 | 0.02 | 0.03 | 0.007 |
| PZ-112 | SMPZ-112-GW031811 | U-233/234 | Suspended | 0.044 | 0.012 | 0.01 | 0.004 |
| PZ-112 | SMPZ-112-GW031811 | U-233/234 | Total | 0.366 | NA | 0.031 | NA |
| PZ-112 | SMPZ-112-GW031811 | U-235/236 | Filtered | 0.0153 | 0.0069 | 0.0063 | 0.0053 |
| PZ-112 | SMPZ-112-GW031811 | U-235/236 | Suspended | 0.0044 U | 0.0059 | 0.0031 | 0.0046 |
| PZ-112 | SMPZ-112-GW031811 | U-235/236 | Total | 0.0197 | NA | 0.007 | NA |
| PZ-112 | SMPZ-112-GW031811 | U-238 | Filtered | 0.294 | 0.014 | 0.028 | 0.004 |
| PZ-112 | SMPZ-112-GW031811 | U-238 | Suspended | -0.0029 U | 0.015 | 0.004 | 0.0052 |
| PZ-112 | SMPZ-112-GW031811 | U-238 | Total | 0.291 | NA | 0.028 | NA |
| PZ-113 | SMPZ-113-GW032911 | Ac-227 | Filtered | 0.8 U | 7.5 | 2.2 | 3.6 |
| PZ-113 | SMPZ-113-GW032911 | Ac-227 | Suspended | 0.1 U | 5.8 | 1.7 | 2.8 |
| PZ-113 | SMPZ-113-GW032911 | Ac-227 | Total | 0.9 | NA | 2.8 | NA |
| PZ-113 | SMPZ-113-GW032911 | Ac-228 | Filtered | 1 U | 4 | 1.2 | 1.9 |
| PZ-113 | SMPZ-113-GW032911 | Ac-228 | Suspended | -0.27 U | 2.8 | 0.95 | 1.4 |
| PZ-113 | SMPZ-113-GW032911 | Ac-228 | Total | 0.8 | NA | 1.5 | NA |
| PZ-113 | SMPZ-113-GW032911 | Ag-108 | Filtered | -0.013 U R | 0.091 | 0.027 | 0.043 |
| PZ-113 | SMPZ-113-GW032911 | Ag-108 | Suspended | 0.0001 U R | 0.051 | 0.015 | 0.024 |
| PZ-113 | SMPZ-113-GW032911 | Ag-108 | Total | -0.013 R | NA | 0.03 | NA |
| PZ-113 | SMPZ-113-GW032911 | Ag-108m | Filtered | -0.14 U R | 0.98 | 0.29 | 0.46 |
| PZ-113 | SMPZ-113-GW032911 | Ag-108m | Suspended | 0.0007 U R | 0.54 | 0.16 | 0.26 |
| PZ-113 | SMPZ-113-GW032911 | Ag-108m | Total | -0.14 R | NA | 0.33 | NA |
| PZ-113 | SMPZ-113-GW032911 | Ba-133 | Filtered | -2.8 U R | 13 | 4 | 6.5 |
| PZ-113 | SMPZ-113-GW032911 | Ba-133 | Suspended | -0.4 U R | 6.1 | 1.8 | 3 |
| PZ-113 | SMPZ-113-GW032911 | Ba-133 | Total | -3.2 R | NA | 4.4 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-113 | SMPZ-113-GW032911 | Ba-137m | Filtered | 0.02 U | 1.2 | 0.34 | 0.56 |
| PZ-113 | SMPZ-113-GW032911 | Ba-137m | Suspended | 0 U | 0.78 | 0.23 | 0.37 |
| PZ-113 | SMPZ-113-GW032911 | Ba-137m | Total | 0.02 | NA | 0.41 | NA |
| PZ-113 | SMPZ-113-GW032911 | Bi-212 | Filtered | 3.6 U | 9.8 | 2.9 | 4.6 |
| PZ-113 | SMPZ-113-GW032911 | Bi-212 | Suspended | 1.6 U | 5.2 | 1.5 | 2.4 |
| PZ-113 | SMPZ-113-GW032911 | Bi-212 | Total | 5.1 | NA | 3.3 | NA |
| PZ-113 | SMPZ-113-GW032911 | Bi-214 | Filtered | 3.9 | 2.7 | 1.1 | 1.3 |
| PZ-113 | SMPZ-113-GW032911 | Bi-214 | Suspended | 1.75 | 1.7 | 0.74 | 0.85 |
| PZ-113 | SMPZ-113-GW032911 | Bi-214 | Total | 5.7 | NA | 1.3 | NA |
| PZ-113 | SMPZ-113-GW032911 | Cd-113m | Filtered | 500 U | 13000 | 3900 | 6300 |
| PZ-113 | SMPZ-113-GW032911 | Cd-113m | Suspended | -2300 U | 7600 | 2300 | 3700 |
| PZ-113 | SMPZ-113-GW032911 | Cd-113m | Total | -1800 | NA | 4500 | NA |
| PZ-113 | SMPZ-113-GW032911 | Cf-249 | Filtered | 0.5 U R | 5.7 | 1.7 | 2.7 |
| PZ-113 | SMPZ-113-GW032911 | Cf-249 | Suspended | 0.96 U R | 3 | 0.89 | 1.4 |
| PZ-113 | SMPZ-113-GW032911 | Cf-249 | Total | 1.4 R | NA | 1.9 | NA |
| PZ-113 | SMPZ-113-GW032911 | Co-60 | Filtered | 0.04 U | 1.1 | 0.3 | 0.5 |
| PZ-113 | SMPZ-113-GW032911 | Co-60 | Suspended | 0.04 U | 0.71 | 0.2 | 0.33 |
| PZ-113 | SMPZ-113-GW032911 | Co-60 | Total | 0.07 | NA | 0.36 | NA |
| PZ-113 | SMPZ-113-GW032911 | Cs-134 | Filtered | -0.01 U | 1.3 | 0.37 | 0.62 |
| PZ-113 | SMPZ-113-GW032911 | Cs-134 | Suspended | 0.2 U | 0.8 | 0.24 | 0.38 |
| PZ-113 | SMPZ-113-GW032911 | Cs-134 | Total | 0.18 | NA | 0.44 | NA |
| PZ-113 | SMPZ-113-GW032911 | Cs-137 | Filtered | 0.02 U | 1.3 | 0.36 | 0.6 |
| PZ-113 | SMPZ-113-GW032911 | Cs-137 | Suspended | 0 U | 0.82 | 0.24 | 0.39 |
| PZ-113 | SMPZ-113-GW032911 | Cs-137 | Total | 0.02 | NA | 0.43 | NA |
| PZ-113 | SMPZ-113-GW032911 | Eu-152 | Filtered | -0.7 U | 3.5 | 1 | 1.7 |
| PZ-113 | SMPZ-113-GW032911 | Eu-152 | Suspended | 0.14 U | 1.9 | 0.55 | 0.9 |
| PZ-113 | SMPZ-113-GW032911 | Eu-152 | Total | -0.5 | NA | 1.2 | NA |
| PZ-113 | SMPZ-113-GW032911 | Eu-154 | Filtered | -1.5 U | 10 | 2.9 | 4.7 |
| PZ-113 | SMPZ-113-GW032911 | Eu-154 | Suspended | 2.2 | 4.2 | 1.3 | 1.9 |
| PZ-113 | SMPZ-113-GW032911 | Eu-154 | Total | 0.7 | NA | 3.2 | NA |
| PZ-113 | SMPZ-113-GW032911 | Eu-155 | Filtered | 1.2 U | 3.4 | 1 | 1.6 |
| PZ-113 | SMPZ-113-GW032911 | Eu-155 | Suspended | 0.34 U | 1.2 | 0.35 | 0.56 |
| PZ-113 | SMPZ-113-GW032911 | Eu-155 | Total | 1.5 | NA | 1.1 | NA |
| PZ-113 | SMPZ-113-GW032911 | gross_alpha | Filtered | 3.06 | 0.49 | 0.35 | 0.26 |
| PZ-113 | SMPZ-113-GW032911 | gross_alpha | Suspended | 0.66 | 0.46 | 0.19 | 0.23 |
| PZ-113 | SMPZ-113-GW032911 | gross_alpha | Total | 3.72 | NA | 0.4 | NA |
| PZ-113 | SMPZ-113-GW032911 | gross_beta | Filtered | 4.41 | 1.1 | 0.52 | 0.62 |
| PZ-113 | SMPZ-113-GW032911 | gross_beta | Suspended | 11.6 | 1.1 | 0.78 | 0.63 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-113 | SMPZ-113-GW032911 | gross_beta | Total | 16 | NA | 0.94 | NA |
| PZ-113 | SMPZ-113-GW032911 | H-3 | Total | -35 U | 130 | 37 | 63 |
| PZ-113 | SMPZ-113-GW032911 | Ho-166m | Filtered | 0.17 U | 1.6 | 0.44 | 0.72 |
| PZ-113 | SMPZ-113-GW032911 | Ho-166m | Suspended | -0.07 U | 1.1 | 0.31 | 0.51 |
| PZ-113 | SMPZ-113-GW032911 | Ho-166m | Total | 0.1 | NA | 0.54 | NA |
| PZ-113 | SMPZ-113-GW032911 | K-40 | Filtered | 14.8 | 16 | 5.7 | 7.7 |
| PZ-113 | SMPZ-113-GW032911 | K-40 | Suspended | -3 U | 11 | 3.6 | 5.1 |
| PZ-113 | SMPZ-113-GW032911 | K-40 | Total | 11.8 | NA | 6.8 | NA |
| PZ-113 | SMPZ-113-GW032911 | Na-22 | Filtered | 0.27 U | 1.3 | 0.37 | 0.58 |
| PZ-113 | SMPZ-113-GW032911 | Na-22 | Suspended | -0.14 U | 0.81 | 0.24 | 0.38 |
| PZ-113 | SMPZ-113-GW032911 | Na-22 | Total | 0.13 | NA | 0.44 | NA |
| PZ-113 | SMPZ-113-GW032911 | Nb-94 | Filtered | 0.03 U | 1.2 | 0.33 | 0.54 |
| PZ-113 | SMPZ-113-GW032911 | Nb-94 | Suspended | 0.08 U | 0.64 | 0.19 | 0.31 |
| PZ-113 | SMPZ-113-GW032911 | Nb-94 | Total | 0.11 | NA | 0.38 | NA |
| PZ-113 | SMPZ-113-GW032911 | Np-236 | Filtered | -0.18 U | 2.7 | 0.79 | 1.3 |
| PZ-113 | SMPZ-113-GW032911 | Np-236 | Suspended | -0.24 U | 1.3 | 0.38 | 0.61 |
| PZ-113 | SMPZ-113-GW032911 | Np-236 | Total | -0.43 | NA | 0.88 | NA |
| PZ-113 | SMPZ-113-GW032911 | Np-239 | Filtered | -1.1 U | 8.2 | 2.4 | 4 |
| PZ-113 | SMPZ-113-GW032911 | Np-239 | Suspended | 0.5 U | 3.4 | 1 | 1.7 |
| PZ-113 | SMPZ-113-GW032911 | Np-239 | Total | -0.6 | NA | 2.6 | NA |
| PZ-113 | SMPZ-113-GW032911 | Pa-231 | Filtered | -8 U | 55 | 16 | 27 |
| PZ-113 | SMPZ-113-GW032911 | Pa-231 | Suspended | 8.1 U | 26 | 7.8 | 13 |
| PZ-113 | SMPZ-113-GW032911 | Pa-231 | Total | -0.3 | NA | 18 | NA |
| PZ-113 | SMPZ-113-GW032911 | Pb-212 | Filtered | 1.01 U | 2.6 | 0.94 | 1.3 |
| PZ-113 | SMPZ-113-GW032911 | Pb-212 | Suspended | 0.76 | 1.2 | 0.46 | 0.59 |
| PZ-113 | SMPZ-113-GW032911 | Pb-212 | Total | 1.8 | NA | 1.1 | NA |
| PZ-113 | SMPZ-113-GW032911 | Pb-214 | Filtered | 1.63 | 2.4 | 0.85 | 1.1 |
| PZ-113 | SMPZ-113-GW032911 | Pb-214 | Suspended | 0.54 U | 1.5 | 0.56 | 0.74 |
| PZ-113 | SMPZ-113-GW032911 | Pb-214 | Total | 2.2 | NA | 1 | NA |
| PZ-113 | SMPZ-113-GW032911 | Sb-125 | Filtered | -0.2 U | 13 | 3.9 | 6.4 |
| PZ-113 | SMPZ-113-GW032911 | Sb-125 | Suspended | 0.7 U | 5.2 | 1.5 | 2.5 |
| PZ-113 | SMPZ-113-GW032911 | Sb-125 | Total | 0.5 | NA | 4.2 | NA |
| PZ-113 | SMPZ-113-GW032911 | Sn-126 | Filtered | -0.12 U | 1.4 | 0.42 | 0.68 |
| PZ-113 | SMPZ-113-GW032911 | Sn-126 | Suspended | 0.27 U | 0.69 | 0.21 | 0.33 |
| PZ-113 | SMPZ-113-GW032911 | Sn-126 | Total | 0.15 | NA | 0.47 | NA |
| PZ-113 | SMPZ-113-GW032911 | Sr-90 | Filtered | -0.025 U | 0.2 | 0.059 | 0.11 |
| PZ-113 | SMPZ-113-GW032911 | Sr-90 | Suspended | 0.011 U | 0.065 | 0.019 | 0.037 |
| PZ-113 | SMPZ-113-GW032911 | Sr-90 | Total | -0.014 | NA | 0.062 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-113 | SMPZ-113-GW032911 | Te-125m | Filtered | -0.05 U | 3.1 | 0.9 | 1.5 |
| PZ-113 | SMPZ-113-GW032911 | Te-125m | Suspended | 0.16 U | 1.2 | 0.35 | 0.58 |
| PZ-113 | SMPZ-113-GW032911 | Te-125m | Total | 0.11 | NA | 0.97 | NA |
| PZ-113 | SMPZ-113-GW032911 | Th-231 | Filtered | 0.089 | 0.007 | 0.016 | 0.006 |
| PZ-113 | SMPZ-113-GW032911 | Th-231 | Suspended | -0.002 U | 0.017 | 0.002 | 0.0053 |
| PZ-113 | SMPZ-113-GW032911 | Th-231 | Total | 0.087 | NA | 0.016 | NA |
| PZ-113 | SMPZ-113-GW032911 | Th-234 | Filtered | 7.7 U | 22 | 7.2 | 10 |
| PZ-113 | SMPZ-113-GW032911 | Th-234 | Suspended | -1.7 U | 7 | 2.5 | 3.4 |
| PZ-113 | SMPZ-113-GW032911 | Th-234 | Total | 6 | NA | 7.7 | NA |
| PZ-113 | SMPZ-113-GW032911 | Tl-208 | Filtered | -0.8 U | 1.6 | 1.1 | 0.8 |
| PZ-113 | SMPZ-113-GW032911 | Tl-208 | Suspended | 0.58 | 0.73 | 0.29 | 0.35 |
| PZ-113 | SMPZ-113-GW032911 | Tl-208 | Total | -0.2 | NA | 1.1 | NA |
| PZ-113 | SMPZ-113-GW032911 | Tm-171 | Filtered | -20 U | 340 | 100 | 170 |
| PZ-113 | SMPZ-113-GW032911 | Tm-171 | Suspended | 12 U | 110 | 32 | 53 |
| PZ-113 | SMPZ-113-GW032911 | Tm-171 | Total | -7 | NA | 110 | NA |
| PZ-113 | SMPZ-113-GW032911 | U-233/234 | Filtered | 1.85 | 0.019 | 0.099 | 0.007 |
| PZ-113 | SMPZ-113-GW032911 | U-233/234 | Suspended | 0.096 | 0.006 | 0.015 | 0.004 |
| PZ-113 | SMPZ-113-GW032911 | U-233/234 | Total | 1.95 | NA | 0.1 | NA |
| PZ-113 | SMPZ-113-GW032911 | U-235/236 | Filtered | 0.089 | 0.007 | 0.016 | 0.006 |
| PZ-113 | SMPZ-113-GW032911 | U-235/236 | Suspended | -0.002 U | 0.017 | 0.002 | 0.0053 |
| PZ-113 | SMPZ-113-GW032911 | U-235/236 | Total | 0.087 | NA | 0.016 | NA |
| PZ-113 | SMPZ-113-GW032911 | U-238 | Filtered | 1.08 | 0.019 | 0.066 | 0.007 |
| PZ-113 | SMPZ-113-GW032911 | U-238 | Suspended | 0.093 | 0.017 | 0.015 | 0.006 |
| PZ-113 | SMPZ-113-GW032911 | U-238 | Total | 1.17 | NA | 0.067 | NA |
| PZ-114 | SMPZ-114-GW032811 | Ac-227 | Filtered | -9.7 U | 16 | 4.9 | 7.8 |
| PZ-114 | SMPZ-114-GW032811 | Ac-227 | Suspended | -10 R U | 8.8 | 2.7 | 4.3 |
| PZ-114 | SMPZ-114-GW032811 | Ac-227 | Total | -19.7 R | NA | 5.6 | NA |
| PZ-114 | SMPZ-114-GW032811 | Ac-228 | Filtered | 2.3 U | 8 | 2.4 | 3.8 |
| PZ-114 | SMPZ-114-GW032811 | Ac-228 | Suspended | 5.1 | 5.4 | 2.4 | 2.6 |
| PZ-114 | SMPZ-114-GW032811 | Ac-228 | Total | 7.4 | NA | 3.4 | NA |
| PZ-114 | SMPZ-114-GW032811 | Ag-108 | Filtered | -0.044 U | 0.18 | 0.053 | 0.085 |
| PZ-114 | SMPZ-114-GW032811 | Ag-108 | Suspended | 0.009 U | 0.099 | 0.029 | 0.048 |
| PZ-114 | SMPZ-114-GW032811 | Ag-108 | Total | -0.035 | NA | 0.06 | NA |
| PZ-114 | SMPZ-114-GW032811 | Ag-108m | Filtered | -0.47 U | 1.9 | 0.57 | 0.92 |
| PZ-114 | SMPZ-114-GW032811 | Ag-108m | Suspended | 0.1 U | 1.1 | 0.32 | 0.52 |
| PZ-114 | SMPZ-114-GW032811 | Ag-108m | Total | -0.37 | NA | 0.65 | NA |
| PZ-114 | SMPZ-114-GW032811 | Ba-133 | Filtered | -1.2 U | 23 | 6.7 | 11 |
| PZ-114 | SMPZ-114-GW032811 | Ba-133 | Suspended | -2.3 U | 11 | 3.4 | 5.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-114 | SMPZ-114-GW032811 | Ba-133 | Total | -3.5 | NA | 7.5 | NA |
| PZ-114 | SMPZ-114-GW032811 | Ba-137m | Filtered | -0.62 U | 2.2 | 0.66 | 1.1 |
| PZ-114 | SMPZ-114-GW032811 | Ba-137m | Suspended | -0.13 U | 1 | 0.3 | 0.48 |
| PZ-114 | SMPZ-114-GW032811 | Ba-137m | Total | -0.75 | NA | 0.72 | NA |
| PZ-114 | SMPZ-114-GW032811 | Bi-212 | Filtered | 9.4 | 17 | 5.1 | 8.1 |
| PZ-114 | SMPZ-114-GW032811 | Bi-212 | Suspended | 5.6 | 10 | 3.2 | 5.1 |
| PZ-114 | SMPZ-114-GW032811 | Bi-212 | Total | 15 | NA | 6.1 | NA |
| PZ-114 | SMPZ-114-GW032811 | Bi-214 | Filtered | 3.9 | 4.9 | 1.9 | 2.4 |
| PZ-114 | SMPZ-114-GW032811 | Bi-214 | Suspended | 3.7 | 2.9 | 1.2 | 1.4 |
| PZ-114 | SMPZ-114-GW032811 | Bi-214 | Total | 7.7 | NA | 2.2 | NA |
| PZ-114 | SMPZ-114-GW032811 | Cd-113m | Filtered | 700 U | 22000 | 6400 | 11000 |
| PZ-114 | SMPZ-114-GW032811 | Cd-113m | Suspended | 1500 U | 11000 | 3200 | 5300 |
| PZ-114 | SMPZ-114-GW032811 | Cd-113m | Total | 2200 | NA | 7200 | NA |
| PZ-114 | SMPZ-114-GW032811 | Cf-249 | Filtered | 0 U | 11 | 3.3 | 5.4 |
| PZ-114 | SMPZ-114-GW032811 | Cf-249 | Suspended | -0.8 U | 5 | 1.5 | 2.5 |
| PZ-114 | SMPZ-114-GW032811 | Cf-249 | Total | -0.8 | NA | 3.6 | NA |
| PZ-114 | SMPZ-114-GW032811 | Co-60 | Filtered | -0.55 U | 2.4 | 0.7 | 1.1 |
| PZ-114 | SMPZ-114-GW032811 | Co-60 | Suspended | 0.42 U | 1.3 | 0.39 | 0.62 |
| PZ-114 | SMPZ-114-GW032811 | Co-60 | Total | -0.13 | NA | 0.8 | NA |
| PZ-114 | SMPZ-114-GW032811 | Cs-134 | Filtered | 0.04 U | 2.4 | 0.71 | 1.2 |
| PZ-114 | SMPZ-114-GW032811 | Cs-134 | Suspended | 0.29 U | 1.4 | 0.41 | 0.67 |
| PZ-114 | SMPZ-114-GW032811 | Cs-134 | Total | 0.33 | NA | 0.82 | NA |
| PZ-114 | SMPZ-114-GW032811 | Cs-137 | Filtered | -0.65 U | 2.3 | 0.7 | 1.1 |
| PZ-114 | SMPZ-114-GW032811 | Cs-137 | Suspended | -0.14 U | 1.1 | 0.31 | 0.51 |
| PZ-114 | SMPZ-114-GW032811 | Cs-137 | Total | -0.79 | NA | 0.76 | NA |
| PZ-114 | SMPZ-114-GW032811 | Eu-152 | Filtered | 0.5 U | 6.1 | 1.8 | 3 |
| PZ-114 | SMPZ-114-GW032811 | Eu-152 | Suspended | -0.77 U | 3.1 | 0.93 | 1.5 |
| PZ-114 | SMPZ-114-GW032811 | Eu-152 | Total | -0.2 | NA | 2 | NA |
| PZ-114 | SMPZ-114-GW032811 | Eu-154 | Filtered | -5 U | 20 | 5.9 | 9.5 |
| PZ-114 | SMPZ-114-GW032811 | Eu-154 | Suspended | -1.8 U | 12 | 3.4 | 5.6 |
| PZ-114 | SMPZ-114-GW032811 | Eu-154 | Total | -6.8 | NA | 6.8 | NA |
| PZ-114 | SMPZ-114-GW032811 | Eu-155 | Filtered | 1.4 U | 5.3 | 1.6 | 2.6 |
| PZ-114 | SMPZ-114-GW032811 | Eu-155 | Suspended | 0.67 U | 2.5 | 0.75 | 1.2 |
| PZ-114 | SMPZ-114-GW032811 | Eu-155 | Total | 2 | NA | 1.8 | NA |
| PZ-114 | SMPZ-114-GW032811 | H-3 | Total | 9 U | 160 | 47 | 77 |
| PZ-114 | SMPZ-114-GW032811 | Ho-166m | Filtered | -0.6 U | 3.6 | 1.1 | 1.7 |
| PZ-114 | SMPZ-114-GW032811 | Ho-166m | Suspended | -0.19 U | 1.9 | 0.55 | 0.89 |
| PZ-114 | SMPZ-114-GW032811 | Ho-166m | Total | -0.8 | NA | 1.2 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-----|------|----------------|
| PZ-114 | SMPZ-114-GW032811 | K-40 | Filtered | 8.4 U | 29 | 9.3 | 14 |
| PZ-114 | SMPZ-114-GW032811 | K-40 | Suspended | 34.2 | 22 | 7.8 | 11 |
| PZ-114 | SMPZ-114-GW032811 | K-40 | Total | 43 | NA | 12 | NA |
| PZ-114 | SMPZ-114-GW032811 | Na-22 | Filtered | -0.02 U | 2.1 | 0.61 | 1 |
| PZ-114 | SMPZ-114-GW032811 | Na-22 | Suspended | 0.69 | 1.1 | 0.33 | 0.5 |
| PZ-114 | SMPZ-114-GW032811 | Na-22 | Total | 0.66 | NA | 0.69 | NA |
| PZ-114 | SMPZ-114-GW032811 | Nb-94 | Filtered | -0.01 U | 2.2 | 0.66 | 1.1 |
| PZ-114 | SMPZ-114-GW032811 | Nb-94 | Suspended | -0.35 U | 1.3 | 0.39 | 0.64 |
| PZ-114 | SMPZ-114-GW032811 | Nb-94 | Total | -0.36 | NA | 0.77 | NA |
| PZ-114 | SMPZ-114-GW032811 | Np-236 | Filtered | -0.1 U | 5.3 | 1.6 | 2.6 |
| PZ-114 | SMPZ-114-GW032811 | Np-236 | Suspended | -0.1 U | 2.2 | 0.67 | 1.1 |
| PZ-114 | SMPZ-114-GW032811 | Np-236 | Total | -0.2 | NA | 1.7 | NA |
| PZ-114 | SMPZ-114-GW032811 | Np-239 | Filtered | 2 U | 14 | 4.1 | 6.7 |
| PZ-114 | SMPZ-114-GW032811 | Np-239 | Suspended | -0.07 U | 7 | 2.1 | 3.4 |
| PZ-114 | SMPZ-114-GW032811 | Np-239 | Total | 2 | NA | 4.6 | NA |
| PZ-114 | SMPZ-114-GW032811 | Pa-231 | Filtered | 34 U | 98 | 30 | 48 |
| PZ-114 | SMPZ-114-GW032811 | Pa-231 | Suspended | 5 U | 47 | 14 | 23 |
| PZ-114 | SMPZ-114-GW032811 | Pa-231 | Total | 39 | NA | 33 | NA |
| PZ-114 | SMPZ-114-GW032811 | Pb-212 | Filtered | 1.6 U | 4.5 | 1.6 | 2.2 |
| PZ-114 | SMPZ-114-GW032811 | Pb-212 | Suspended | 2.7 | 2.1 | 0.8 | 1 |
| PZ-114 | SMPZ-114-GW032811 | Pb-212 | Total | 4.3 | NA | 1.8 | NA |
| PZ-114 | SMPZ-114-GW032811 | Pb-214 | Filtered | 0.1 U | 5.2 | 1.4 | 2.5 |
| PZ-114 | SMPZ-114-GW032811 | Pb-214 | Suspended | 2.29 | 2.4 | 0.94 | 1.2 |
| PZ-114 | SMPZ-114-GW032811 | Pb-214 | Total | 2.4 | NA | 1.7 | NA |
| PZ-114 | SMPZ-114-GW032811 | Sb-125 | Filtered | -7.6 U | 24 | 7.1 | 12 |
| PZ-114 | SMPZ-114-GW032811 | Sb-125 | Suspended | -0.2 U | 10 | 3.1 | 5 |
| PZ-114 | SMPZ-114-GW032811 | Sb-125 | Total | -7.8 | NA | 7.8 | NA |
| PZ-114 | SMPZ-114-GW032811 | Sn-126 | Filtered | -0.7 U | 2.5 | 0.75 | 1.2 |
| PZ-114 | SMPZ-114-GW032811 | Sn-126 | Suspended | 0.53 U | 1.4 | 0.42 | 0.68 |
| PZ-114 | SMPZ-114-GW032811 | Sn-126 | Total | -0.17 | NA | 0.86 | NA |
| PZ-114 | SMPZ-114-GW032811 | Te-125m | Filtered | -1.8 U | 5.4 | 1.6 | 2.7 |
| PZ-114 | SMPZ-114-GW032811 | Te-125m | Suspended | -0.05 U | 2.4 | 0.71 | 1.2 |
| PZ-114 | SMPZ-114-GW032811 | Te-125m | Total | -1.8 | NA | 1.8 | NA |
| PZ-114 | SMPZ-114-GW032811 | Th-234 | Filtered | 16 U | 35 | 11 | 17 |
| PZ-114 | SMPZ-114-GW032811 | Th-234 | Suspended | 2.9 U | 16 | 5 | 7.8 |
| PZ-114 | SMPZ-114-GW032811 | Th-234 | Total | 19 | NA | 12 | NA |
| PZ-114 | SMPZ-114-GW032811 | Tl-208 | Filtered | 1.75 | 2.5 | 0.92 | 1.2 |
| PZ-114 | SMPZ-114-GW032811 | Tl-208 | Suspended | 0.63 U | 1.5 | 0.59 | 0.74 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| PZ-114 | SMPZ-114-GW032811 | Tl-208 | Total | 2.4 | NA | 1.1 | NA |
| PZ-114 | SMPZ-114-GW032811 | Tm-171 | Filtered | 650 | 490 | 190 | 240 |
| PZ-114 | SMPZ-114-GW032811 | Tm-171 | Suspended | 17 U | 220 | 65 | 110 |
| PZ-114 | SMPZ-114-GW032811 | Tm-171 | Total | 670 | NA | 200 | NA |
| PZ-116 | SMPZ-116-GW032911 | Ac-227 | Filtered | 0 U | 11 | 3.3 | 5.4 |
| PZ-116 | SMPZ-116-GW032911 | Ac-227 | Suspended | -3.5 L U | 5.3 | 1.6 | 2.6 |
| PZ-116 | SMPZ-116-GW032911 | Ac-227 | Total | -3.5 | NA | 3.7 | NA |
| PZ-116 | SMPZ-116-GW032911 | Ac-228 | Filtered | 3.6 | 3.5 | 1.1 | 1.6 |
| PZ-116 | SMPZ-116-GW032911 | Ac-228 | Suspended | 0.47 U | 2.4 | 0.7 | 1.1 |
| PZ-116 | SMPZ-116-GW032911 | Ac-228 | Total | 4.1 | NA | 1.3 | NA |
| PZ-116 | SMPZ-116-GW032911 | Ag-108 | Filtered | 0.012 U R | 0.075 | 0.022 | 0.036 |
| PZ-116 | SMPZ-116-GW032911 | Ag-108 | Suspended | 0.002 U R | 0.053 | 0.015 | 0.025 |
| PZ-116 | SMPZ-116-GW032911 | Ag-108 | Total | 0.014 R | NA | 0.027 | NA |
| PZ-116 | SMPZ-116-GW032911 | Ag-108m | Filtered | 0.13 U R | 0.8 | 0.24 | 0.38 |
| PZ-116 | SMPZ-116-GW032911 | Ag-108m | Suspended | 0.02 U R | 0.57 | 0.17 | 0.27 |
| PZ-116 | SMPZ-116-GW032911 | Ag-108m | Total | 0.15 R | NA | 0.29 | NA |
| PZ-116 | SMPZ-116-GW032911 | Ba-133 | Filtered | -0.5 U R | 12 | 3.4 | 5.6 |
| PZ-116 | SMPZ-116-GW032911 | Ba-133 | Suspended | -0.07 U R | 6.4 | 1.9 | 3.1 |
| PZ-116 | SMPZ-116-GW032911 | Ba-133 | Total | -0.6 R | NA | 3.9 | NA |
| PZ-116 | SMPZ-116-GW032911 | Ba-137m | Filtered | 0.15 U | 1 | 0.31 | 0.5 |
| PZ-116 | SMPZ-116-GW032911 | Ba-137m | Suspended | 0.03 U | 0.82 | 0.24 | 0.39 |
| PZ-116 | SMPZ-116-GW032911 | Ba-137m | Total | 0.18 | NA | 0.39 | NA |
| PZ-116 | SMPZ-116-GW032911 | Bi-212 | Filtered | -4 U | 10 | 86 | 5 |
| PZ-116 | SMPZ-116-GW032911 | Bi-212 | Suspended | 2.5 | 5.1 | 1.6 | 2.4 |
| PZ-116 | SMPZ-116-GW032911 | Bi-212 | Total | -2 | NA | 86 | NA |
| PZ-116 | SMPZ-116-GW032911 | Bi-214 | Filtered | 1.5 | 2.8 | 1.1 | 1.3 |
| PZ-116 | SMPZ-116-GW032911 | Bi-214 | Suspended | 0.67 U | 1.5 | 0.46 | 0.73 |
| PZ-116 | SMPZ-116-GW032911 | Bi-214 | Total | 2.2 | NA | 1.2 | NA |
| PZ-116 | SMPZ-116-GW032911 | Cd-113m | Filtered | 2000 U | 13000 | 3800 | 6100 |
| PZ-116 | SMPZ-116-GW032911 | Cd-113m | Suspended | 2000 U | 7300 | 2200 | 3500 |
| PZ-116 | SMPZ-116-GW032911 | Cd-113m | Total | 3900 | NA | 4300 | NA |
| PZ-116 | SMPZ-116-GW032911 | Cf-249 | Filtered | 0.06 U R | 4.5 | 1.3 | 2.2 |
| PZ-116 | SMPZ-116-GW032911 | Cf-249 | Suspended | 0.08 U R | 2.6 | 0.75 | 1.2 |
| PZ-116 | SMPZ-116-GW032911 | Cf-249 | Total | 0.1 R | NA | 1.5 | NA |
| PZ-116 | SMPZ-116-GW032911 | Co-60 | Filtered | -0.06 U | 1.1 | 0.32 | 0.52 |
| PZ-116 | SMPZ-116-GW032911 | Co-60 | Suspended | 0 U | 0.79 | 0.22 | 0.36 |
| PZ-116 | SMPZ-116-GW032911 | Co-60 | Total | -0.06 | NA | 0.38 | NA |
| PZ-116 | SMPZ-116-GW032911 | Cs-134 | Filtered | -0.39 U | 1.3 | 0.39 | 0.63 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-116 | SMPZ-116-GW032911 | Cs-134 | Suspended | -0.13 U | 0.73 | 0.22 | 0.35 |
| PZ-116 | SMPZ-116-GW032911 | Cs-134 | Total | -0.52 | NA | 0.45 | NA |
| PZ-116 | SMPZ-116-GW032911 | Cs-137 | Filtered | 0.16 U | 1.1 | 0.32 | 0.52 |
| PZ-116 | SMPZ-116-GW032911 | Cs-137 | Suspended | 0.03 U | 0.87 | 0.25 | 0.41 |
| PZ-116 | SMPZ-116-GW032911 | Cs-137 | Total | 0.19 | NA | 0.41 | NA |
| PZ-116 | SMPZ-116-GW032911 | Eu-152 | Filtered | 1.01 U | 2.9 | 0.87 | 1.4 |
| PZ-116 | SMPZ-116-GW032911 | Eu-152 | Suspended | 0.15 U | 1.8 | 0.53 | 0.86 |
| PZ-116 | SMPZ-116-GW032911 | Eu-152 | Total | 1.2 | NA | 1 | NA |
| PZ-116 | SMPZ-116-GW032911 | Eu-154 | Filtered | -1.6 U | 9.7 | 2.8 | 4.6 |
| PZ-116 | SMPZ-116-GW032911 | Eu-154 | Suspended | 3.1 | 5.6 | 1.7 | 2.6 |
| PZ-116 | SMPZ-116-GW032911 | Eu-154 | Total | 1.5 | NA | 3.3 | NA |
| PZ-116 | SMPZ-116-GW032911 | Eu-155 | Filtered | 0.4 U | 2.9 | 0.85 | 1.4 |
| PZ-116 | SMPZ-116-GW032911 | Eu-155 | Suspended | -0.52 U | 1.4 | 0.44 | 0.7 |
| PZ-116 | SMPZ-116-GW032911 | Eu-155 | Total | -0.13 | NA | 0.95 | NA |
| PZ-116 | SMPZ-116-GW032911 | gross_alpha | Filtered | 11.7 | 0.57 | 0.77 | 0.31 |
| PZ-116 | SMPZ-116-GW032911 | gross_alpha | Suspended | 0.66 | 0.52 | 0.2 | 0.28 |
| PZ-116 | SMPZ-116-GW032911 | gross_alpha | Total | 12.3 | NA | 0.8 | NA |
| PZ-116 | SMPZ-116-GW032911 | gross_beta | Filtered | 4.2 | 6.5 | 2.2 | 3.7 |
| PZ-116 | SMPZ-116-GW032911 | gross_beta | Suspended | 6.87 | 0.95 | 0.54 | 0.57 |
| PZ-116 | SMPZ-116-GW032911 | gross_beta | Total | 11.1 | NA | 2.3 | NA |
| PZ-116 | SMPZ-116-GW032911 | H-3 | Total | 119 | 180 | 54 | 86 |
| PZ-116 | SMPZ-116-GW032911 | Ho-166m | Filtered | 0.63 U | 1.7 | 0.5 | 0.78 |
| PZ-116 | SMPZ-116-GW032911 | Ho-166m | Suspended | -0.29 U | 1.3 | 0.39 | 0.62 |
| PZ-116 | SMPZ-116-GW032911 | Ho-166m | Total | 0.34 | NA | 0.63 | NA |
| PZ-116 | SMPZ-116-GW032911 | K-40 | Filtered | 14.3 | 15 | 5 | 7.1 |
| PZ-116 | SMPZ-116-GW032911 | K-40 | Suspended | -2.7 U | 12 | 4.2 | 5.7 |
| PZ-116 | SMPZ-116-GW032911 | K-40 | Total | 11.7 | NA | 6.5 | NA |
| PZ-116 | SMPZ-116-GW032911 | Na-22 | Filtered | 0.07 U | 1.2 | 0.33 | 0.54 |
| PZ-116 | SMPZ-116-GW032911 | Na-22 | Suspended | 0.02 U | 0.8 | 0.22 | 0.37 |
| PZ-116 | SMPZ-116-GW032911 | Na-22 | Total | 0.09 | NA | 0.4 | NA |
| PZ-116 | SMPZ-116-GW032911 | Nb-94 | Filtered | -0.14 U | 1.1 | 0.33 | 0.54 |
| PZ-116 | SMPZ-116-GW032911 | Nb-94 | Suspended | 0.09 U | 0.74 | 0.21 | 0.35 |
| PZ-116 | SMPZ-116-GW032911 | Nb-94 | Total | -0.05 | NA | 0.39 | NA |
| PZ-116 | SMPZ-116-GW032911 | Np-236 | Filtered | -0.006 U | 2.6 | 0.76 | 1.3 |
| PZ-116 | SMPZ-116-GW032911 | Np-236 | Suspended | -0.1 U | 1.3 | 0.4 | 0.65 |
| PZ-116 | SMPZ-116-GW032911 | Np-236 | Total | -0.1 | NA | 0.86 | NA |
| PZ-116 | SMPZ-116-GW032911 | Np-239 | Filtered | -1.6 U | 7.3 | 2.2 | 3.5 |
| PZ-116 | SMPZ-116-GW032911 | Np-239 | Suspended | 1.1 U | 3.7 | 1.1 | 1.8 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| PZ-116 | SMPZ-116-GW032911 | Np-239 | Total | -0.5 | NA | 2.4 | NA |
| PZ-116 | SMPZ-116-GW032911 | Pa-231 | Filtered | 18 U | 47 | 14 | 23 |
| PZ-116 | SMPZ-116-GW032911 | Pa-231 | Suspended | -6.2 U | 26 | 7.7 | 12 |
| PZ-116 | SMPZ-116-GW032911 | Pa-231 | Total | 12 | NA | 16 | NA |
| PZ-116 | SMPZ-116-GW032911 | Pb-212 | Filtered | 0.79 U | 2.3 | 0.68 | 1.1 |
| PZ-116 | SMPZ-116-GW032911 | Pb-212 | Suspended | 0.65 | 1.3 | 0.46 | 0.62 |
| PZ-116 | SMPZ-116-GW032911 | Pb-212 | Total | 1.44 | NA | 0.82 | NA |
| PZ-116 | SMPZ-116-GW032911 | Pb-214 | Filtered | 0.54 U | 2.7 | 0.76 | 1.3 |
| PZ-116 | SMPZ-116-GW032911 | Pb-214 | Suspended | 0.36 U | 1.5 | 0.54 | 0.72 |
| PZ-116 | SMPZ-116-GW032911 | Pb-214 | Total | 0.9 | NA | 0.94 | NA |
| PZ-116 | SMPZ-116-GW032911 | Sb-125 | Filtered | -0.1 U | 8.7 | 2.5 | 4.2 |
| PZ-116 | SMPZ-116-GW032911 | Sb-125 | Suspended | -0.004 U | 6.2 | 1.8 | 3 |
| PZ-116 | SMPZ-116-GW032911 | Sb-125 | Total | -0.1 | NA | 3.1 | NA |
| PZ-116 | SMPZ-116-GW032911 | Sn-126 | Filtered | 0.26 U | 0.87 | 0.26 | 0.4 |
| PZ-116 | SMPZ-116-GW032911 | Sn-126 | Suspended | 0.34 U | 0.82 | 0.25 | 0.39 |
| PZ-116 | SMPZ-116-GW032911 | Sn-126 | Total | 0.6 | NA | 0.36 | NA |
| PZ-116 | SMPZ-116-GW032911 | Sr-90 | Filtered | 0.077 | 0.12 | 0.038 | 0.066 |
| PZ-116 | SMPZ-116-GW032911 | Sr-90 | Suspended | 0.028 U | 0.062 | 0.019 | 0.035 |
| PZ-116 | SMPZ-116-GW032911 | Sr-90 | Total | 0.105 | NA | 0.042 | NA |
| PZ-116 | SMPZ-116-GW032911 | Te-125m | Filtered | -0.03 U | 2 | 0.59 | 0.97 |
| PZ-116 | SMPZ-116-GW032911 | Te-125m | Suspended | -0.0008 U | 1.4 | 0.42 | 0.7 |
| PZ-116 | SMPZ-116-GW032911 | Te-125m | Total | -0.03 | NA | 0.72 | NA |
| PZ-116 | SMPZ-116-GW032911 | Th-231 | Filtered | 1.12 | 0.009 | 0.077 | 0.008 |
| PZ-116 | SMPZ-116-GW032911 | Th-231 | Suspended | 0.0024 U | 0.0064 | 0.0024 | 0.0049 |
| PZ-116 | SMPZ-116-GW032911 | Th-231 | Total | 1.13 | NA | 0.077 | NA |
| PZ-116 | SMPZ-116-GW032911 | Th-234 | Filtered | 14.5 | 22 | 3.9 | 11 |
| PZ-116 | SMPZ-116-GW032911 | Th-234 | Suspended | 2.8 U | 8.4 | 2.8 | 4.1 |
| PZ-116 | SMPZ-116-GW032911 | Th-234 | Total | 17.3 | NA | 4.8 | NA |
| PZ-116 | SMPZ-116-GW032911 | Tl-208 | Filtered | 0.47 U | 1.3 | 0.45 | 0.64 |
| PZ-116 | SMPZ-116-GW032911 | Tl-208 | Suspended | 0.64 | 0.78 | 0.28 | 0.37 |
| PZ-116 | SMPZ-116-GW032911 | Tl-208 | Total | 1.11 | NA | 0.53 | NA |
| PZ-116 | SMPZ-116-GW032911 | Tm-171 | Filtered | -30 U | 350 | 100 | 170 |
| PZ-116 | SMPZ-116-GW032911 | Tm-171 | Suspended | 14 U | 140 | 41 | 67 |
| PZ-116 | SMPZ-116-GW032911 | Tm-171 | Total | -20 | NA | 110 | NA |
| PZ-116 | SMPZ-116-GW032911 | U-233/234 | Filtered | 23.9 | 0.02 | 1 | 0.006 |
| PZ-116 | SMPZ-116-GW032911 | U-233/234 | Suspended | 0.0247 | 0.016 | 0.0089 | 0.0056 |
| PZ-116 | SMPZ-116-GW032911 | U-233/234 | Total | 24 | NA | 1 | NA |
| PZ-116 | SMPZ-116-GW032911 | U-235/236 | Filtered | 1.12 | 0.009 | 0.077 | 0.008 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-116 | SMPZ-116-GW032911 | U-235/236 | Suspended | 0.0024 U | 0.0064 | 0.0024 | 0.0049 |
| PZ-116 | SMPZ-116-GW032911 | U-235/236 | Total | 1.13 | NA | 0.077 | NA |
| PZ-116 | SMPZ-116-GW032911 | U-238 | Filtered | 22.9 | 0.03 | 0.99 | 0.01 |
| PZ-116 | SMPZ-116-GW032911 | U-238 | Suspended | 0.0212 | 0.013 | 0.0078 | 0.004 |
| PZ-116 | SMPZ-116-GW032911 | U-238 | Total | 22.9 | NA | 0.99 | NA |
| PZ-120 | SMPZ-120-GW031711 | Ac-227 | Filtered | -2 U | 8.4 | 2.5 | 4.1 |
| PZ-120 | SMPZ-120-GW031711 | Ac-227 | Suspended | -2.5 U | 4.4 | 1.3 | 2.1 |
| PZ-120 | SMPZ-120-GW031711 | Ac-227 | Total | -4.6 | NA | 2.8 | NA |
| PZ-120 | SMPZ-120-GW031711 | Ac-228 | Filtered | 3.4 | 3.8 | 1.2 | 1.8 |
| PZ-120 | SMPZ-120-GW031711 | Ac-228 | Suspended | 1.5 | 2.3 | 0.72 | 1.1 |
| PZ-120 | SMPZ-120-GW031711 | Ac-228 | Total | 4.9 | NA | 1.4 | NA |
| PZ-120 | SMPZ-120-GW031711 | Ag-108 | Filtered | 0.017 R | 0.084 | 0.025 | 0.04 |
| PZ-120 | SMPZ-120-GW031711 | Ag-108 | Suspended | 0.004 R | 0.05 | 0.015 | 0.024 |
| PZ-120 | SMPZ-120-GW031711 | Ag-108 | Total | 0.021 R | NA | 0.029 | NA |
| PZ-120 | SMPZ-120-GW031711 | Ag-108m | Filtered | 0.18 R | 0.9 | 0.27 | 0.43 |
| PZ-120 | SMPZ-120-GW031711 | Ag-108m | Suspended | 0.04 R | 0.54 | 0.16 | 0.26 |
| PZ-120 | SMPZ-120-GW031711 | Ag-108m | Total | 0.23 R | NA | 0.31 | NA |
| PZ-120 | SMPZ-120-GW031711 | Ba-133 | Filtered | -0.04 R | 10 | 3.1 | 5 |
| PZ-120 | SMPZ-120-GW031711 | Ba-133 | Suspended | 1.7 R | 5.9 | 1.8 | 2.9 |
| PZ-120 | SMPZ-120-GW031711 | Ba-133 | Total | 1.7 R | NA | 3.5 | NA |
| PZ-120 | SMPZ-120-GW031711 | Ba-137m | Filtered | 0.19 U | 1 | 0.3 | 0.48 |
| PZ-120 | SMPZ-120-GW031711 | Ba-137m | Suspended | 0.23 U | 0.55 | 0.17 | 0.26 |
| PZ-120 | SMPZ-120-GW031711 | Ba-137m | Total | 0.43 | NA | 0.34 | NA |
| PZ-120 | SMPZ-120-GW031711 | Bi-212 | Filtered | -4 U | 9.6 | 8.3 | 4.6 |
| PZ-120 | SMPZ-120-GW031711 | Bi-212 | Suspended | -0.2 U | 5.3 | 1.7 | 2.5 |
| PZ-120 | SMPZ-120-GW031711 | Bi-212 | Total | -4.2 | NA | 8.5 | NA |
| PZ-120 | SMPZ-120-GW031711 | Bi-214 | Filtered | 1.1 U | 2.8 | 1.1 | 1.4 |
| PZ-120 | SMPZ-120-GW031711 | Bi-214 | Suspended | 0.36 U | 1.7 | 0.58 | 0.8 |
| PZ-120 | SMPZ-120-GW031711 | Bi-214 | Total | 1.5 | NA | 1.2 | NA |
| PZ-120 | SMPZ-120-GW031711 | Cd-113m | Filtered | 2900 U | 13000 | 3900 | 6400 |
| PZ-120 | SMPZ-120-GW031711 | Cd-113m | Suspended | 600 U | 7100 | 2100 | 3400 |
| PZ-120 | SMPZ-120-GW031711 | Cd-113m | Total | 3500 | NA | 4500 | NA |
| PZ-120 | SMPZ-120-GW031711 | Cf-249 | Filtered | 1.2 R | 5.2 | 1.5 | 2.5 |
| PZ-120 | SMPZ-120-GW031711 | Cf-249 | Suspended | 0.84 R | 2.8 | 0.85 | 1.4 |
| PZ-120 | SMPZ-120-GW031711 | Cf-249 | Total | 2 R | NA | 1.8 | NA |
| PZ-120 | SMPZ-120-GW031711 | Co-60 | Filtered | 0.21 U | 0.83 | 0.24 | 0.37 |
| PZ-120 | SMPZ-120-GW031711 | Co-60 | Suspended | 0.15 U | 0.67 | 0.2 | 0.31 |
| PZ-120 | SMPZ-120-GW031711 | Co-60 | Total | 0.36 | NA | 0.31 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-120 | SMPZ-120-GW031711 | Cs-134 | Filtered | -0.15 U | 0.8 | 0.24 | 0.38 |
| PZ-120 | SMPZ-120-GW031711 | Cs-134 | Suspended | -0.08 U | 0.76 | 0.22 | 0.37 |
| PZ-120 | SMPZ-120-GW031711 | Cs-134 | Total | -0.23 | NA | 0.33 | NA |
| PZ-120 | SMPZ-120-GW031711 | Cs-137 | Filtered | 0.21 U | 1.1 | 0.32 | 0.51 |
| PZ-120 | SMPZ-120-GW031711 | Cs-137 | Suspended | 0.25 U | 0.58 | 0.17 | 0.27 |
| PZ-120 | SMPZ-120-GW031711 | Cs-137 | Total | 0.45 | NA | 0.36 | NA |
| PZ-120 | SMPZ-120-GW031711 | Eu-152 | Filtered | -0.56 U | 3.2 | 0.94 | 1.5 |
| PZ-120 | SMPZ-120-GW031711 | Eu-152 | Suspended | -0.37 U | 1.7 | 0.51 | 0.82 |
| PZ-120 | SMPZ-120-GW031711 | Eu-152 | Total | -0.9 | NA | 1.1 | NA |
| PZ-120 | SMPZ-120-GW031711 | Eu-154 | Filtered | 0 U | 11 | 3.1 | 5.1 |
| PZ-120 | SMPZ-120-GW031711 | Eu-154 | Suspended | 2.3 U | 5.2 | 1.6 | 2.4 |
| PZ-120 | SMPZ-120-GW031711 | Eu-154 | Total | 2.3 | NA | 3.5 | NA |
| PZ-120 | SMPZ-120-GW031711 | Eu-155 | Filtered | 0.21 U | 2.1 | 0.61 | 1 |
| PZ-120 | SMPZ-120-GW031711 | Eu-155 | Suspended | 0.09 U | 0.88 | 0.26 | 0.42 |
| PZ-120 | SMPZ-120-GW031711 | Eu-155 | Total | 0.3 | NA | 0.66 | NA |
| PZ-120 | SMPZ-120-GW031711 | gross_alpha | Filtered | 6.04 | 0.45 | 0.51 | 0.23 |
| PZ-120 | SMPZ-120-GW031711 | gross_alpha | Suspended | 0.06 U | 0.72 | 0.18 | 0.37 |
| PZ-120 | SMPZ-120-GW031711 | gross_alpha | Total | 6.11 | NA | 0.54 | NA |
| PZ-120 | SMPZ-120-GW031711 | gross_beta | Filtered | 3.51 | 2 | 0.74 | 1.2 |
| PZ-120 | SMPZ-120-GW031711 | gross_beta | Suspended | 1.2 | 0.88 | 0.3 | 0.52 |
| PZ-120 | SMPZ-120-GW031711 | gross_beta | Total | 4.7 | NA | 0.8 | NA |
| PZ-120 | SMPZ-120-GW031711 | H-3 | Total | 33 U | 140 | 42 | 68 |
| PZ-120 | SMPZ-120-GW031711 | Ho-166m | Filtered | 0.12 U | 1.8 | 0.52 | 0.85 |
| PZ-120 | SMPZ-120-GW031711 | Ho-166m | Suspended | -0.36 U | 1.2 | 0.36 | 0.58 |
| PZ-120 | SMPZ-120-GW031711 | Ho-166m | Total | -0.24 | NA | 0.63 | NA |
| PZ-120 | SMPZ-120-GW031711 | K-40 | Filtered | 5.9 U | 18 | 5.7 | 8.6 |
| PZ-120 | SMPZ-120-GW031711 | K-40 | Suspended | -5.9 U | 11 | 5.6 | 5.2 |
| PZ-120 | SMPZ-120-GW031711 | K-40 | Total | -0.006 | NA | 7.9 | NA |
| PZ-120 | SMPZ-120-GW031711 | Na-22 | Filtered | 0.06 U | 1.2 | 0.33 | 0.54 |
| PZ-120 | SMPZ-120-GW031711 | Na-22 | Suspended | 0.02 U | 0.65 | 0.18 | 0.3 |
| PZ-120 | SMPZ-120-GW031711 | Na-22 | Total | 0.08 | NA | 0.38 | NA |
| PZ-120 | SMPZ-120-GW031711 | Nb-94 | Filtered | 0.4 U | 0.93 | 0.28 | 0.44 |
| PZ-120 | SMPZ-120-GW031711 | Nb-94 | Suspended | 0 U | 0.72 | 0.21 | 0.34 |
| PZ-120 | SMPZ-120-GW031711 | Nb-94 | Total | 0.4 | NA | 0.35 | NA |
| PZ-120 | SMPZ-120-GW031711 | Np-236 | Filtered | -0.54 U | 2.3 | 0.69 | 1.1 |
| PZ-120 | SMPZ-120-GW031711 | Np-236 | Suspended | 0.01 U | 0.79 | 0.23 | 0.38 |
| PZ-120 | SMPZ-120-GW031711 | Np-236 | Total | -0.53 | NA | 0.72 | NA |
| PZ-120 | SMPZ-120-GW031711 | Np-239 | Filtered | 1.6 U | 7.1 | 2.1 | 3.4 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-120 | SMPZ-120-GW031711 | Np-239 | Suspended | 0.5 U | 3.6 | 1.1 | 1.7 |
| PZ-120 | SMPZ-120-GW031711 | Np-239 | Total | 2.1 | NA | 2.4 | NA |
| PZ-120 | SMPZ-120-GW031711 | Pa-231 | Filtered | -4 U | 50 | 15 | 24 |
| PZ-120 | SMPZ-120-GW031711 | Pa-231 | Suspended | 6.7 U | 25 | 7.6 | 12 |
| PZ-120 | SMPZ-120-GW031711 | Pa-231 | Total | 3 | NA | 17 | NA |
| PZ-120 | SMPZ-120-GW031711 | Pb-212 | Filtered | 0.04 U | 2.6 | 0.69 | 1.3 |
| PZ-120 | SMPZ-120-GW031711 | Pb-212 | Suspended | -0.12 U | 1.1 | 0.45 | 0.56 |
| PZ-120 | SMPZ-120-GW031711 | Pb-212 | Total | -0.07 | NA | 0.82 | NA |
| PZ-120 | SMPZ-120-GW031711 | Pb-214 | Filtered | -0.08 U | 2.7 | 0.76 | 1.3 |
| PZ-120 | SMPZ-120-GW031711 | Pb-214 | Suspended | 0.02 U | 1.6 | 0.59 | 0.76 |
| PZ-120 | SMPZ-120-GW031711 | Pb-214 | Total | -0.07 | NA | 0.96 | NA |
| PZ-120 | SMPZ-120-GW031711 | Sb-125 | Filtered | -2.8 U | 12 | 3.6 | 5.9 |
| PZ-120 | SMPZ-120-GW031711 | Sb-125 | Suspended | 1 U | 5.4 | 1.6 | 2.6 |
| PZ-120 | SMPZ-120-GW031711 | Sb-125 | Total | -1.8 | NA | 4 | NA |
| PZ-120 | SMPZ-120-GW031711 | Sn-126 | Filtered | 0.47 U | 1.2 | 0.37 | 0.58 |
| PZ-120 | SMPZ-120-GW031711 | Sn-126 | Suspended | 0.3 U | 0.73 | 0.22 | 0.35 |
| PZ-120 | SMPZ-120-GW031711 | Sn-126 | Total | 0.77 | NA | 0.43 | NA |
| PZ-120 | SMPZ-120-GW031711 | Sr-90 | Filtered | 0.059 U | 0.13 | 0.039 | 0.072 |
| PZ-120 | SMPZ-120-GW031711 | Sr-90 | Suspended | 0.009 U | 0.13 | 0.036 | 0.074 |
| PZ-120 | SMPZ-120-GW031711 | Sr-90 | Total | 0.068 | NA | 0.053 | NA |
| PZ-120 | SMPZ-120-GW031711 | Te-125m | Filtered | -0.66 U | 2.8 | 0.83 | 1.4 |
| PZ-120 | SMPZ-120-GW031711 | Te-125m | Suspended | 0.23 U | 1.2 | 0.37 | 0.61 |
| PZ-120 | SMPZ-120-GW031711 | Te-125m | Total | -0.43 | NA | 0.91 | NA |
| PZ-120 | SMPZ-120-GW031711 | Th-231 | Filtered | 0.129 | 0.007 | 0.019 | 0.005 |
| PZ-120 | SMPZ-120-GW031711 | Th-231 | Suspended | 0.0026 U | 0.007 | 0.0026 | 0.006 |
| PZ-120 | SMPZ-120-GW031711 | Th-231 | Total | 0.132 | NA | 0.019 | NA |
| PZ-120 | SMPZ-120-GW031711 | Th-234 | Filtered | 5.6 U | 21 | 7.4 | 10 |
| PZ-120 | SMPZ-120-GW031711 | Th-234 | Suspended | 1.2 U | 7.5 | 2.7 | 3.7 |
| PZ-120 | SMPZ-120-GW031711 | Th-234 | Total | 6.8 | NA | 7.8 | NA |
| PZ-120 | SMPZ-120-GW031711 | Tl-208 | Filtered | 0.44 U | 1.3 | 0.45 | 0.61 |
| PZ-120 | SMPZ-120-GW031711 | Tl-208 | Suspended | -0.12 U | 0.79 | 0.27 | 0.38 |
| PZ-120 | SMPZ-120-GW031711 | Tl-208 | Total | 0.32 | NA | 0.52 | NA |
| PZ-120 | SMPZ-120-GW031711 | Tm-171 | Filtered | -40 U | 340 | 100 | 160 |
| PZ-120 | SMPZ-120-GW031711 | Tm-171 | Suspended | -5 U | 110 | 32 | 52 |
| PZ-120 | SMPZ-120-GW031711 | Tm-171 | Total | -50 | NA | 110 | NA |
| PZ-120 | SMPZ-120-GW031711 | U-233/234 | Filtered | 2.79 | 0.02 | 0.14 | 0.007 |
| PZ-120 | SMPZ-120-GW031711 | U-233/234 | Suspended | 0.006 | 0.0056 | 0.0059 | 0.0048 |
| PZ-120 | SMPZ-120-GW031711 | U-233/234 | Total | 2.79 | NA | 0.14 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| PZ-120 | SMPZ-120-GW031711 | U-235/236 | Filtered | 0.129 | 0.007 | 0.019 | 0.005 |
| PZ-120 | SMPZ-120-GW031711 | U-235/236 | Suspended | 0.0026 U | 0.007 | 0.0026 | 0.006 |
| PZ-120 | SMPZ-120-GW031711 | U-235/236 | Total | 0.132 | NA | 0.019 | NA |
| PZ-120 | SMPZ-120-GW031711 | U-238 | Filtered | 2.72 | 0.01 | 0.14 | 0.004 |
| PZ-120 | SMPZ-120-GW031711 | U-238 | Suspended | 0.0108 | 0.015 | 0.0069 | 0.0048 |
| PZ-120 | SMPZ-120-GW031711 | U-238 | Total | 2.73 | NA | 0.14 | NA |
| PZ-121 | SMPZ-121-GW031611 | Ac-227 | Filtered | 0.9 U | 5.7 | 1.7 | 2.7 |
| PZ-121 | SMPZ-121-GW031611 | Ac-227 | Suspended | -0.8 U | 3.4 | 1 | 1.7 |
| PZ-121 | SMPZ-121-GW031611 | Ac-227 | Total | 0.07 | NA | 2 | NA |
| PZ-121 | SMPZ-121-GW031611 | Ac-228 | Filtered | 1.8 U | 4.9 | 1.5 | 2.3 |
| PZ-121 | SMPZ-121-GW031611 | Ac-228 | Suspended | -1.1 U | 2.9 | 1.9 | 1.4 |
| PZ-121 | SMPZ-121-GW031611 | Ac-228 | Total | 0.7 | NA | 2.4 | NA |
| PZ-121 | SMPZ-121-GW031611 | Ag-108 | Filtered | 0.06 R | 0.08 | 0.025 | 0.037 |
| PZ-121 | SMPZ-121-GW031611 | Ag-108 | Suspended | -0.005 R | 0.051 | 0.015 | 0.025 |
| PZ-121 | SMPZ-121-GW031611 | Ag-108 | Total | 0.056 R | NA | 0.03 | NA |
| PZ-121 | SMPZ-121-GW031611 | Ag-108m | Filtered | 0.65 R | 0.86 | 0.27 | 0.4 |
| PZ-121 | SMPZ-121-GW031611 | Ag-108m | Suspended | -0.05 R | 0.55 | 0.16 | 0.27 |
| PZ-121 | SMPZ-121-GW031611 | Ag-108m | Total | 0.6 R | NA | 0.32 | NA |
| PZ-121 | SMPZ-121-GW031611 | Ba-133 | Filtered | -4 R | 14 | 4.2 | 6.7 |
| PZ-121 | SMPZ-121-GW031611 | Ba-133 | Suspended | 0.3 R | 6.2 | 1.8 | 3 |
| PZ-121 | SMPZ-121-GW031611 | Ba-133 | Total | -3.7 R | NA | 4.6 | NA |
| PZ-121 | SMPZ-121-GW031611 | Ba-137m | Filtered | -0.34 U | 1.4 | 0.41 | 0.65 |
| PZ-121 | SMPZ-121-GW031611 | Ba-137m | Suspended | 0.06 U | 0.7 | 0.21 | 0.34 |
| PZ-121 | SMPZ-121-GW031611 | Ba-137m | Total | -0.28 | NA | 0.46 | NA |
| PZ-121 | SMPZ-121-GW031611 | Bi-212 | Filtered | -5 U | 12 | 13 | 6 |
| PZ-121 | SMPZ-121-GW031611 | Bi-212 | Suspended | -0.9 U | 5.7 | 1.7 | 2.7 |
| PZ-121 | SMPZ-121-GW031611 | Bi-212 | Total | -6 | NA | 13 | NA |
| PZ-121 | SMPZ-121-GW031611 | Bi-214 | Filtered | 2.9 | 3 | 1 | 1.4 |
| PZ-121 | SMPZ-121-GW031611 | Bi-214 | Suspended | 0.008 U | 1.6 | 0.4 | 0.77 |
| PZ-121 | SMPZ-121-GW031611 | Bi-214 | Total | 2.9 | NA | 1.1 | NA |
| PZ-121 | SMPZ-121-GW031611 | Cd-113m | Filtered | 3000 U | 16000 | 4800 | 7700 |
| PZ-121 | SMPZ-121-GW031611 | Cd-113m | Suspended | 50 U | 5400 | 1600 | 2600 |
| PZ-121 | SMPZ-121-GW031611 | Cd-113m | Total | 3100 | NA | 5000 | NA |
| PZ-121 | SMPZ-121-GW031611 | Cf-249 | Filtered | 1.9 R | 7 | 2.1 | 3.3 |
| PZ-121 | SMPZ-121-GW031611 | Cf-249 | Suspended | 0.8 R | 2.5 | 0.76 | 1.2 |
| PZ-121 | SMPZ-121-GW031611 | Cf-249 | Total | 2.7 R | NA | 2.2 | NA |
| PZ-121 | SMPZ-121-GW031611 | Co-60 | Filtered | -0.03 U | 1.6 | 0.44 | 0.73 |
| PZ-121 | SMPZ-121-GW031611 | Co-60 | Suspended | 0.13 U | 0.74 | 0.21 | 0.34 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-121 | SMPZ-121-GW031611 | Co-60 | Total | 0.1 | NA | 0.49 | NA |
| PZ-121 | SMPZ-121-GW031611 | Cs-134 | Filtered | -0.29 U | 1.5 | 0.43 | 0.69 |
| PZ-121 | SMPZ-121-GW031611 | Cs-134 | Suspended | -0.12 U | 0.72 | 0.21 | 0.35 |
| PZ-121 | SMPZ-121-GW031611 | Cs-134 | Total | -0.41 | NA | 0.48 | NA |
| PZ-121 | SMPZ-121-GW031611 | Cs-137 | Filtered | -0.36 U | 1.5 | 0.43 | 0.68 |
| PZ-121 | SMPZ-121-GW031611 | Cs-137 | Suspended | 0.06 U | 0.74 | 0.22 | 0.36 |
| PZ-121 | SMPZ-121-GW031611 | Cs-137 | Total | -0.29 | NA | 0.48 | NA |
| PZ-121 | SMPZ-121-GW031611 | Eu-152 | Filtered | 0.3 U | 3.6 | 1 | 1.7 |
| PZ-121 | SMPZ-121-GW031611 | Eu-152 | Suspended | 0.08 U | 1.7 | 0.51 | 0.83 |
| PZ-121 | SMPZ-121-GW031611 | Eu-152 | Total | 0.4 | NA | 1.2 | NA |
| PZ-121 | SMPZ-121-GW031611 | Eu-154 | Filtered | 2 U | 13 | 3.7 | 5.9 |
| PZ-121 | SMPZ-121-GW031611 | Eu-154 | Suspended | -1.5 U | 6.3 | 1.9 | 3 |
| PZ-121 | SMPZ-121-GW031611 | Eu-154 | Total | 0.5 | NA | 4.1 | NA |
| PZ-121 | SMPZ-121-GW031611 | Eu-155 | Filtered | -0.57 U | 3 | 0.9 | 1.5 |
| PZ-121 | SMPZ-121-GW031611 | Eu-155 | Suspended | 0.03 U | 1.2 | 0.35 | 0.58 |
| PZ-121 | SMPZ-121-GW031611 | Eu-155 | Total | -0.54 | NA | 0.97 | NA |
| PZ-121 | SMPZ-121-GW031611 | gross_alpha | Filtered | 1.74 | 0.38 | 0.25 | 0.2 |
| PZ-121 | SMPZ-121-GW031611 | gross_alpha | Suspended | 0.63 | 0.65 | 0.23 | 0.34 |
| PZ-121 | SMPZ-121-GW031611 | gross_alpha | Total | 2.37 | NA | 0.34 | NA |
| PZ-121 | SMPZ-121-GW031611 | gross_beta | Filtered | 2.01 | 1.9 | 0.64 | 1.1 |
| PZ-121 | SMPZ-121-GW031611 | gross_beta | Suspended | 0.28 U | 0.74 | 0.22 | 0.43 |
| PZ-121 | SMPZ-121-GW031611 | gross_beta | Total | 2.28 | NA | 0.68 | NA |
| PZ-121 | SMPZ-121-GW031611 | H-3 | Total | 63 U | 140 | 44 | 70 |
| PZ-121 | SMPZ-121-GW031611 | Ho-166m | Filtered | -0.45 U | 2.4 | 0.68 | 1.1 |
| PZ-121 | SMPZ-121-GW031611 | Ho-166m | Suspended | 0.04 U | 1.1 | 0.33 | 0.54 |
| PZ-121 | SMPZ-121-GW031611 | Ho-166m | Total | -0.41 | NA | 0.76 | NA |
| PZ-121 | SMPZ-121-GW031611 | K-40 | Filtered | -16 U | 26 | 29 | 12 |
| PZ-121 | SMPZ-121-GW031611 | K-40 | Suspended | -6.1 U | 12 | 4.2 | 6 |
| PZ-121 | SMPZ-121-GW031611 | K-40 | Total | -22 | NA | 29 | NA |
| PZ-121 | SMPZ-121-GW031611 | Na-22 | Filtered | 0.2 U | 1.3 | 0.36 | 0.57 |
| PZ-121 | SMPZ-121-GW031611 | Na-22 | Suspended | 0.008 U | 0.61 | 0.17 | 0.28 |
| PZ-121 | SMPZ-121-GW031611 | Na-22 | Total | 0.21 | NA | 0.4 | NA |
| PZ-121 | SMPZ-121-GW031611 | Nb-94 | Filtered | -0.24 U | 1.4 | 0.41 | 0.66 |
| PZ-121 | SMPZ-121-GW031611 | Nb-94 | Suspended | 0.01 U | 0.59 | 0.17 | 0.28 |
| PZ-121 | SMPZ-121-GW031611 | Nb-94 | Total | -0.22 | NA | 0.45 | NA |
| PZ-121 | SMPZ-121-GW031611 | Np-236 | Filtered | 0.12 U | 2.8 | 0.84 | 1.4 |
| PZ-121 | SMPZ-121-GW031611 | Np-236 | Suspended | 0.45 U | 1.2 | 0.35 | 0.56 |
| PZ-121 | SMPZ-121-GW031611 | Np-236 | Total | 0.57 | NA | 0.91 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-121 | SMPZ-121-GW031611 | Np-239 | Filtered | -0.9 U | 8.2 | 2.4 | 3.9 |
| PZ-121 | SMPZ-121-GW031611 | Np-239 | Suspended | -0.8 U | 3.7 | 1.1 | 1.8 |
| PZ-121 | SMPZ-121-GW031611 | Np-239 | Total | -1.7 | NA | 2.7 | NA |
| PZ-121 | SMPZ-121-GW031611 | Pa-231 | Filtered | -9 U | 61 | 18 | 29 |
| PZ-121 | SMPZ-121-GW031611 | Pa-231 | Suspended | -0.3 U | 28 | 8.1 | 13 |
| PZ-121 | SMPZ-121-GW031611 | Pa-231 | Total | -9 | NA | 20 | NA |
| PZ-121 | SMPZ-121-GW031611 | Pb-212 | Filtered | -0.24 U | 2.4 | 0.87 | 1.1 |
| PZ-121 | SMPZ-121-GW031611 | Pb-212 | Suspended | -0.03 U | 1.1 | 0.37 | 0.55 |
| PZ-121 | SMPZ-121-GW031611 | Pb-212 | Total | -0.26 | NA | 0.95 | NA |
| PZ-121 | SMPZ-121-GW031611 | Pb-214 | Filtered | 0.11 U | 3.1 | 0.98 | 1.5 |
| PZ-121 | SMPZ-121-GW031611 | Pb-214 | Suspended | 0.34 U | 1.5 | 0.55 | 0.73 |
| PZ-121 | SMPZ-121-GW031611 | Pb-214 | Total | 0.5 | NA | 1.1 | NA |
| PZ-121 | SMPZ-121-GW031611 | Sb-125 | Filtered | -0.3 U | 13 | 3.9 | 6.4 |
| PZ-121 | SMPZ-121-GW031611 | Sb-125 | Suspended | -1.6 U | 5.8 | 1.7 | 2.8 |
| PZ-121 | SMPZ-121-GW031611 | Sb-125 | Total | -1.9 | NA | 4.2 | NA |
| PZ-121 | SMPZ-121-GW031611 | Sn-126 | Filtered | 0.66 | 1.3 | 0.39 | 0.58 |
| PZ-121 | SMPZ-121-GW031611 | Sn-126 | Suspended | 0.12 U | 0.75 | 0.22 | 0.36 |
| PZ-121 | SMPZ-121-GW031611 | Sn-126 | Total | 0.77 | NA | 0.45 | NA |
| PZ-121 | SMPZ-121-GW031611 | Sr-90 | Filtered | 0.05 U | 0.16 | 0.048 | 0.09 |
| PZ-121 | SMPZ-121-GW031611 | Sr-90 | Suspended | 0.011 U | 0.12 | 0.035 | 0.072 |
| PZ-121 | SMPZ-121-GW031611 | Sr-90 | Total | 0.061 | NA | 0.059 | NA |
| PZ-121 | SMPZ-121-GW031611 | Te-125m | Filtered | -0.07 U | 3.1 | 0.9 | 1.5 |
| PZ-121 | SMPZ-121-GW031611 | Te-125m | Suspended | -0.38 U | 1.3 | 0.4 | 0.65 |
| PZ-121 | SMPZ-121-GW031611 | Te-125m | Total | -0.45 | NA | 0.98 | NA |
| PZ-121 | SMPZ-121-GW031611 | Th-231 | Filtered | 0.0366 | 0.0071 | 0.0099 | 0.0054 |
| PZ-121 | SMPZ-121-GW031611 | Th-231 | Suspended | 0.0024 U | 0.0066 | 0.0024 | 0.0056 |
| PZ-121 | SMPZ-121-GW031611 | Th-231 | Total | 0.039 | NA | 0.01 | NA |
| PZ-121 | SMPZ-121-GW031611 | Th-234 | Filtered | -6.5 U | 21 | 8.1 | 10 |
| PZ-121 | SMPZ-121-GW031611 | Th-234 | Suspended | 1.8 U | 8.4 | 2.7 | 4.1 |
| PZ-121 | SMPZ-121-GW031611 | Th-234 | Total | -4.7 | NA | 8.5 | NA |
| PZ-121 | SMPZ-121-GW031611 | Tl-208 | Filtered | 0.75 | 1.4 | 0.43 | 0.65 |
| PZ-121 | SMPZ-121-GW031611 | Tl-208 | Suspended | 0.52 | 0.7 | 0.26 | 0.34 |
| PZ-121 | SMPZ-121-GW031611 | Tl-208 | Total | 1.26 | NA | 0.5 | NA |
| PZ-121 | SMPZ-121-GW031611 | Tm-171 | Filtered | 45 U | 330 | 99 | 160 |
| PZ-121 | SMPZ-121-GW031611 | Tm-171 | Suspended | 23 U | 110 | 33 | 53 |
| PZ-121 | SMPZ-121-GW031611 | Tm-171 | Total | 70 | NA | 100 | NA |
| PZ-121 | SMPZ-121-GW031611 | U-233/234 | Filtered | 0.622 | 0.014 | 0.045 | 0.004 |
| PZ-121 | SMPZ-121-GW031611 | U-233/234 | Suspended | 0.0108 | 0.018 | 0.0076 | 0.0064 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-121 | SMPZ-121-GW031611 | U-233/234 | Total | 0.633 | NA | 0.046 | NA |
| PZ-121 | SMPZ-121-GW031611 | U-235/236 | Filtered | 0.0366 | 0.0071 | 0.0099 | 0.0054 |
| PZ-121 | SMPZ-121-GW031611 | U-235/236 | Suspended | 0.0024 U | 0.0066 | 0.0024 | 0.0056 |
| PZ-121 | SMPZ-121-GW031611 | U-235/236 | Total | 0.039 | NA | 0.01 | NA |
| PZ-121 | SMPZ-121-GW031611 | U-238 | Filtered | 0.45 | 0.014 | 0.036 | 0.004 |
| PZ-121 | SMPZ-121-GW031611 | U-238 | Suspended | 0.0116 | 0.0053 | 0.0062 | 0.0045 |
| PZ-121 | SMPZ-121-GW031611 | U-238 | Total | 0.461 | NA | 0.037 | NA |
| PZ-122 | SMPZ-122-GW032511 | Ac-227 | Filtered | -7.2 L U | 9.8 | 3 | 4.8 |
| PZ-122 | SMPZ-122-GW032511 | Ac-227 | Suspended | 0.9 U | 4.2 | 1.2 | 2 |
| PZ-122 | SMPZ-122-GW032511 | Ac-227 | Total | -6.3 | NA | 3.3 | NA |
| PZ-122 | SMPZ-122-GW032511 | Ac-228 | Filtered | 3.1 | 3.6 | 1.1 | 1.7 |
| PZ-122 | SMPZ-122-GW032511 | Ac-228 | Suspended | 1.04 U | 2.5 | 0.76 | 1.2 |
| PZ-122 | SMPZ-122-GW032511 | Ac-228 | Total | 4.1 | NA | 1.4 | NA |
| PZ-122 | SMPZ-122-GW032511 | Ag-108 | Filtered | -0.006 U R | 0.092 | 0.027 | 0.044 |
| PZ-122 | SMPZ-122-GW032511 | Ag-108 | Suspended | -0.022 U R | 0.059 | 0.018 | 0.028 |
| PZ-122 | SMPZ-122-GW032511 | Ag-108 | Total | -0.028 R | NA | 0.032 | NA |
| PZ-122 | SMPZ-122-GW032511 | Ag-108m | Filtered | -0.06 U R | 0.98 | 0.29 | 0.47 |
| PZ-122 | SMPZ-122-GW032511 | Ag-108m | Suspended | -0.24 U R | 0.63 | 0.19 | 0.3 |
| PZ-122 | SMPZ-122-GW032511 | Ag-108m | Total | -0.31 R | NA | 0.35 | NA |
| PZ-122 | SMPZ-122-GW032511 | Ba-133 | Filtered | 2.8 U R | 10 | 3.1 | 5 |
| PZ-122 | SMPZ-122-GW032511 | Ba-133 | Suspended | 0.4 U R | 6.6 | 1.9 | 3.2 |
| PZ-122 | SMPZ-122-GW032511 | Ba-133 | Total | 3.3 R | NA | 3.7 | NA |
| PZ-122 | SMPZ-122-GW032511 | Ba-137m | Filtered | -0.21 U | 1.1 | 0.33 | 0.53 |
| PZ-122 | SMPZ-122-GW032511 | Ba-137m | Suspended | 0.14 U | 0.68 | 0.2 | 0.32 |
| PZ-122 | SMPZ-122-GW032511 | Ba-137m | Total | -0.07 | NA | 0.39 | NA |
| PZ-122 | SMPZ-122-GW032511 | Bi-212 | Filtered | 1 U | 8 | 2.3 | 3.8 |
| PZ-122 | SMPZ-122-GW032511 | Bi-212 | Suspended | 1.9 U | 5.8 | 1.7 | 2.7 |
| PZ-122 | SMPZ-122-GW032511 | Bi-212 | Total | 2.9 | NA | 2.9 | NA |
| PZ-122 | SMPZ-122-GW032511 | Bi-214 | Filtered | 0.13 U | 2.5 | 0.77 | 1.2 |
| PZ-122 | SMPZ-122-GW032511 | Bi-214 | Suspended | 1.06 | 1.7 | 0.63 | 0.82 |
| PZ-122 | SMPZ-122-GW032511 | Bi-214 | Total | 1.19 | NA | 1 | NA |
| PZ-122 | SMPZ-122-GW032511 | Cd-113m | Filtered | -2000 U | 14000 | 4200 | 6800 |
| PZ-122 | SMPZ-122-GW032511 | Cd-113m | Suspended | 100 U | 7800 | 2300 | 3800 |
| PZ-122 | SMPZ-122-GW032511 | Cd-113m | Total | -1800 | NA | 4700 | NA |
| PZ-122 | SMPZ-122-GW032511 | Cf-249 | Filtered | 1.1 U R | 5.2 | 1.5 | 2.5 |
| PZ-122 | SMPZ-122-GW032511 | Cf-249 | Suspended | -1.02 U R | 3 | 0.91 | 1.5 |
| PZ-122 | SMPZ-122-GW032511 | Cf-249 | Total | 0.07 R | NA | 1.8 | NA |
| PZ-122 | SMPZ-122-GW032511 | Co-60 | Filtered | 0.33 U | 1.1 | 0.33 | 0.51 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|-------|----------------|
| PZ-122 | SMPZ-122-GW032511 | Co-60 | Suspended | -0.11 U | 0.86 | 0.25 | 0.39 |
| PZ-122 | SMPZ-122-GW032511 | Co-60 | Total | 0.21 | NA | 0.41 | NA |
| PZ-122 | SMPZ-122-GW032511 | Cs-134 | Filtered | -0.23 U | 1.1 | 0.34 | 0.55 |
| PZ-122 | SMPZ-122-GW032511 | Cs-134 | Suspended | -0.11 U | 0.81 | 0.24 | 0.38 |
| PZ-122 | SMPZ-122-GW032511 | Cs-134 | Total | -0.34 SK | NA | 0.41 | NA |
| PZ-122 | SMPZ-122-GW032511 | Cs-137 | Filtered | -0.22 U | 1.2 | 0.35 | 0.56 |
| PZ-122 | SMPZ-122-GW032511 | Cs-137 | Suspended | 0.15 U | 0.72 | 0.21 | 0.34 |
| PZ-122 | SMPZ-122-GW032511 | Cs-137 | Total | -0.07 | NA | 0.41 | NA |
| PZ-122 | SMPZ-122-GW032511 | Eu-152 | Filtered | -0.26 U | 3.1 | 0.9 | 1.5 |
| PZ-122 | SMPZ-122-GW032511 | Eu-152 | Suspended | 0.002 U | 1.6 | 0.47 | 0.77 |
| PZ-122 | SMPZ-122-GW032511 | Eu-152 | Total | -0.3 | NA | 1 | NA |
| PZ-122 | SMPZ-122-GW032511 | Eu-154 | Filtered | 2 U | 8.8 | 2.6 | 4.1 |
| PZ-122 | SMPZ-122-GW032511 | Eu-154 | Suspended | 0.2 U J | 5.5 | 1.5 | 2.5 |
| PZ-122 | SMPZ-122-GW032511 | Eu-154 | Total | 2.2 | NA | 3 | NA |
| PZ-122 | SMPZ-122-GW032511 | Eu-155 | Filtered | -0.9 U | 3 | 0.9 | 1.5 |
| PZ-122 | SMPZ-122-GW032511 | Eu-155 | Suspended | 0.14 U | 1.4 | 0.42 | 0.7 |
| PZ-122 | SMPZ-122-GW032511 | Eu-155 | Total | -0.762 SK | NA | 0.996 | NA |
| PZ-122 | SMPZ-122-GW032511 | gross_alpha | Filtered | 10.9 | 0.45 | 0.78 | 0.22 |
| PZ-122 | SMPZ-122-GW032511 | gross_alpha | Suspended | 0.36 U | 1.8 | 0.5 | 0.98 |
| PZ-122 | SMPZ-122-GW032511 | gross_alpha | Total | 10.9 | NA | 1.1 | NA |
| PZ-122 | SMPZ-122-GW032511 | gross_beta | Filtered | 11.9 | 2.3 | 1.2 | 1.3 |
| PZ-122 | SMPZ-122-GW032511 | gross_beta | Suspended | 0.37 U | 0.97 | 0.3 | 0.57 |
| PZ-122 | SMPZ-122-GW032511 | gross_beta | Total | 12.3 | NA | 1.2 | NA |
| PZ-122 | SMPZ-122-GW032511 | H-3 | Total | 14 U | 120 | 34 | 56 |
| PZ-122 | SMPZ-122-GW032511 | Ho-166m | Filtered | -0.53 U | 1.8 | 0.52 | 0.83 |
| PZ-122 | SMPZ-122-GW032511 | Ho-166m | Suspended | 0 U | 1.6 | 0.45 | 0.74 |
| PZ-122 | SMPZ-122-GW032511 | Ho-166m | Total | -0.53 SK | NA | 0.69 | NA |
| PZ-122 | SMPZ-122-GW032511 | K-40 | Filtered | 1.8 U | 18 | 4.9 | 8.5 |
| PZ-122 | SMPZ-122-GW032511 | K-40 | Suspended | -3 U | 12 | 4.3 | 5.7 |
| PZ-122 | SMPZ-122-GW032511 | K-40 | Total | -1.2 | NA | 6.5 | NA |
| PZ-122 | SMPZ-122-GW032511 | Na-22 | Filtered | -0.08 U | 0.99 | 0.28 | 0.45 |
| PZ-122 | SMPZ-122-GW032511 | Na-22 | Suspended | -0.11 U | 0.82 | 0.23 | 0.37 |
| PZ-122 | SMPZ-122-GW032511 | Na-22 | Total | -0.19 | NA | 0.36 | NA |
| PZ-122 | SMPZ-122-GW032511 | Nb-94 | Filtered | -0.24 U | 1 | 0.3 | 0.48 |
| PZ-122 | SMPZ-122-GW032511 | Nb-94 | Suspended | 0.22 U | 0.64 | 0.19 | 0.3 |
| PZ-122 | SMPZ-122-GW032511 | Nb-94 | Total | -0.02 | NA | 0.36 | NA |
| PZ-122 | SMPZ-122-GW032511 | Np-236 | Filtered | -0.41 U | 2.5 | 0.74 | 1.2 |
| PZ-122 | SMPZ-122-GW032511 | Np-236 | Suspended | -0.14 U | 1.4 | 0.41 | 0.68 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| PZ-122 | SMPZ-122-GW032511 | Np-236 | Total | -0.55 SK | NA | 0.85 | NA |
| PZ-122 | SMPZ-122-GW032511 | Np-239 | Filtered | -0.02 U | 7.4 | 2.2 | 3.6 |
| PZ-122 | SMPZ-122-GW032511 | Np-239 | Suspended | 0.5 U | 3.8 | 1.1 | 1.8 |
| PZ-122 | SMPZ-122-GW032511 | Np-239 | Total | 0.5 | NA | 2.4 | NA |
| PZ-122 | SMPZ-122-GW032511 | Pa-231 | Filtered | -1 U | 39 | 11 | 19 |
| PZ-122 | SMPZ-122-GW032511 | Pa-231 | Suspended | -6.2 U | 29 | 8.6 | 14 |
| PZ-122 | SMPZ-122-GW032511 | Pa-231 | Total | -8 | NA | 14 | NA |
| PZ-122 | SMPZ-122-GW032511 | Pb-212 | Filtered | 0.07 U | 2.3 | 0.71 | 1.1 |
| PZ-122 | SMPZ-122-GW032511 | Pb-212 | Suspended | 0.45 U | 1.3 | 0.48 | 0.64 |
| PZ-122 | SMPZ-122-GW032511 | Pb-212 | Total | 0.52 | NA | 0.86 | NA |
| PZ-122 | SMPZ-122-GW032511 | Pb-214 | Filtered | 0.81 U | 2.4 | 0.85 | 1.2 |
| PZ-122 | SMPZ-122-GW032511 | Pb-214 | Suspended | 0.65 U | 1.6 | 0.62 | 0.76 |
| PZ-122 | SMPZ-122-GW032511 | Pb-214 | Total | 1.5 | NA | 1.1 | NA |
| PZ-122 | SMPZ-122-GW032511 | Sb-125 | Filtered | 3.9 U | 12 | 3.6 | 5.8 |
| PZ-122 | SMPZ-122-GW032511 | Sb-125 | Suspended | -1.2 U | 6.4 | 1.9 | 3.1 |
| PZ-122 | SMPZ-122-GW032511 | Sb-125 | Total | 2.7 SK | NA | 4.1 | NA |
| PZ-122 | SMPZ-122-GW032511 | Sn-126 | Filtered | 0.12 U | 1.3 | 0.37 | 0.6 |
| PZ-122 | SMPZ-122-GW032511 | Sn-126 | Suspended | 0.35 U | 0.78 | 0.24 | 0.37 |
| PZ-122 | SMPZ-122-GW032511 | Sn-126 | Total | 0.47 | NA | 0.44 | NA |
| PZ-122 | SMPZ-122-GW032511 | Sr-90 | Filtered | 0.105 | 0.14 | 0.044 | 0.079 |
| PZ-122 | SMPZ-122-GW032511 | Sr-90 | Suspended | -0.054 U | 0.12 | 0.034 | 0.071 |
| PZ-122 | SMPZ-122-GW032511 | Sr-90 | Total | 0.052 | NA | 0.056 | NA |
| PZ-122 | SMPZ-122-GW032511 | Te-125m | Filtered | 0.9 U | 2.8 | 0.83 | 1.3 |
| PZ-122 | SMPZ-122-GW032511 | Te-125m | Suspended | -0.27 U | 1.5 | 0.44 | 0.71 |
| PZ-122 | SMPZ-122-GW032511 | Te-125m | Total | 0.63 SK | NA | 0.94 | NA |
| PZ-122 | SMPZ-122-GW032511 | Th-231 | Filtered | 0.417 | 0.018 | 0.038 | 0.006 |
| PZ-122 | SMPZ-122-GW032511 | Th-231 | Suspended | 0 U | 0.0063 | 0.0019 | 0.0049 |
| PZ-122 | SMPZ-122-GW032511 | Th-231 | Total | 0.417 | NA | 0.038 | NA |
| PZ-122 | SMPZ-122-GW032511 | Th-234 | Filtered | 11.1 | 22 | 7.8 | 11 |
| PZ-122 | SMPZ-122-GW032511 | Th-234 | Suspended | -1.3 U | 8.4 | 3 | 4.1 |
| PZ-122 | SMPZ-122-GW032511 | Th-234 | Total | 9.9 | NA | 8.4 | NA |
| PZ-122 | SMPZ-122-GW032511 | Tl-208 | Filtered | 0.75 | 1.2 | 0.43 | 0.59 |
| PZ-122 | SMPZ-122-GW032511 | Tl-208 | Suspended | 0.97 | 0.79 | 0.31 | 0.37 |
| PZ-122 | SMPZ-122-GW032511 | Tl-208 | Total | 1.73 | NA | 0.53 | NA |
| PZ-122 | SMPZ-122-GW032511 | Tm-171 | Filtered | 177 | 320 | 99 | 160 |
| PZ-122 | SMPZ-122-GW032511 | Tm-171 | Suspended | -31 U | 130 | 38 | 62 |
| PZ-122 | SMPZ-122-GW032511 | Tm-171 | Total | 150 | NA | 110 | NA |
| PZ-122 | SMPZ-122-GW032511 | U-233/234 | Filtered | 8.68 | 0.01 | 0.39 | 0.004 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-122 | SMPZ-122-GW032511 | U-233/234 | Suspended | 0.0206 | 0.012 | 0.0079 | 0.0039 |
| PZ-122 | SMPZ-122-GW032511 | U-233/234 | Total | 8.7 | NA | 0.39 | NA |
| PZ-122 | SMPZ-122-GW032511 | U-235/236 | Filtered | 0.417 | 0.018 | 0.038 | 0.006 |
| PZ-122 | SMPZ-122-GW032511 | U-235/236 | Suspended | 0 U | 0.0063 | 0.0019 | 0.0049 |
| PZ-122 | SMPZ-122-GW032511 | U-235/236 | Total | 0.417 | NA | 0.038 | NA |
| PZ-122 | SMPZ-122-GW032511 | U-238 | Filtered | 8.17 | 0.006 | 0.37 | 0.004 |
| PZ-122 | SMPZ-122-GW032511 | U-238 | Suspended | 0.0152 | 0.0051 | 0.0065 | 0.0039 |
| PZ-122 | SMPZ-122-GW032511 | U-238 | Total | 8.19 | NA | 0.37 | NA |
| PZ-124 | SMPZ-124-GW033011 | Ac-227 | Filtered | -5.5 U | 10 | 3.1 | 5 |
| PZ-124 | SMPZ-124-GW033011 | Ac-227 | Suspended | -0.06 U | 3.3 | 0.97 | 1.6 |
| PZ-124 | SMPZ-124-GW033011 | Ac-227 | Total | -5.5 | NA | 3.2 | NA |
| PZ-124 | SMPZ-124-GW033011 | Ac-228 | Filtered | 4 | 3.3 | 1.1 | 1.5 |
| PZ-124 | SMPZ-124-GW033011 | Ac-228 | Suspended | 0.9 | 1.8 | 0.55 | 0.85 |
| PZ-124 | SMPZ-124-GW033011 | Ac-228 | Total | 4.9 | NA | 1.2 | NA |
| PZ-124 | SMPZ-124-GW033011 | Ag-108 | Filtered | 0.028 U R | 0.084 | 0.025 | 0.04 |
| PZ-124 | SMPZ-124-GW033011 | Ag-108 | Suspended | -0.006 U R | 0.038 | 0.011 | 0.018 |
| PZ-124 | SMPZ-124-GW033011 | Ag-108 | Total | 0.022 R | NA | 0.028 | NA |
| PZ-124 | SMPZ-124-GW033011 | Ag-108m | Filtered | 0.3 U R | 0.9 | 0.27 | 0.43 |
| PZ-124 | SMPZ-124-GW033011 | Ag-108m | Suspended | -0.06 U R | 0.41 | 0.12 | 0.19 |
| PZ-124 | SMPZ-124-GW033011 | Ag-108m | Total | 0.24 R | NA | 0.3 | NA |
| PZ-124 | SMPZ-124-GW033011 | Ba-133 | Filtered | -2.8 U R | 12 | 3.5 | 5.8 |
| PZ-124 | SMPZ-124-GW033011 | Ba-133 | Suspended | -0.8 U R | 4.5 | 1.3 | 2.2 |
| PZ-124 | SMPZ-124-GW033011 | Ba-133 | Total | -3.7 R | NA | 3.8 | NA |
| PZ-124 | SMPZ-124-GW033011 | Ba-137m | Filtered | -0.21 U | 1.3 | 0.37 | 0.6 |
| PZ-124 | SMPZ-124-GW033011 | Ba-137m | Suspended | 0.02 U | 0.51 | 0.15 | 0.24 |
| PZ-124 | SMPZ-124-GW033011 | Ba-137m | Total | -0.19 | NA | 0.4 | NA |
| PZ-124 | SMPZ-124-GW033011 | Bi-212 | Filtered | 4.1 | 8.3 | 2.5 | 3.9 |
| PZ-124 | SMPZ-124-GW033011 | Bi-212 | Suspended | 0.9 U | 3.9 | 1.2 | 1.8 |
| PZ-124 | SMPZ-124-GW033011 | Bi-212 | Total | 5 | NA | 2.8 | NA |
| PZ-124 | SMPZ-124-GW033011 | Bi-214 | Filtered | -0.8 U | 3.1 | 1.1 | 1.5 |
| PZ-124 | SMPZ-124-GW033011 | Bi-214 | Suspended | 0.57 | 1.2 | 0.42 | 0.56 |
| PZ-124 | SMPZ-124-GW033011 | Bi-214 | Total | -0.2 | NA | 1.2 | NA |
| PZ-124 | SMPZ-124-GW033011 | Cd-113m | Filtered | -2200 U | 14000 | 4200 | 6800 |
| PZ-124 | SMPZ-124-GW033011 | Cd-113m | Suspended | -200 U | 5200 | 1500 | 2500 |
| PZ-124 | SMPZ-124-GW033011 | Cd-113m | Total | -2400 | NA | 4500 | NA |
| PZ-124 | SMPZ-124-GW033011 | Cf-249 | Filtered | 0.05 U R | 5.5 | 1.6 | 2.7 |
| PZ-124 | SMPZ-124-GW033011 | Cf-249 | Suspended | -0.23 U R | 2.5 | 0.74 | 1.2 |
| PZ-124 | SMPZ-124-GW033011 | Cf-249 | Total | -0.2 R | NA | 1.8 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| PZ-124 | SMPZ-124-GW033011 | Co-60 | Filtered | 0.11 U | 1.1 | 0.31 | 0.5 |
| PZ-124 | SMPZ-124-GW033011 | Co-60 | Suspended | 0 U | 0.75 | 0.21 | 0.35 |
| PZ-124 | SMPZ-124-GW033011 | Co-60 | Total | 0.11 | NA | 0.37 | NA |
| PZ-124 | SMPZ-124-GW033011 | Cs-134 | Filtered | -0.25 U | 1.3 | 0.38 | 0.61 |
| PZ-124 | SMPZ-124-GW033011 | Cs-134 | Suspended | -0.36 U | 0.64 | 0.2 | 0.31 |
| PZ-124 | SMPZ-124-GW033011 | Cs-134 | Total | -0.6 | NA | 0.42 | NA |
| PZ-124 | SMPZ-124-GW033011 | Cs-137 | Filtered | -0.22 U | 1.3 | 0.39 | 0.63 |
| PZ-124 | SMPZ-124-GW033011 | Cs-137 | Suspended | 0.02 U | 0.54 | 0.16 | 0.26 |
| PZ-124 | SMPZ-124-GW033011 | Cs-137 | Total | -0.2 | NA | 0.42 | NA |
| PZ-124 | SMPZ-124-GW033011 | Eu-152 | Filtered | 1.45 U | 3.2 | 0.97 | 1.5 |
| PZ-124 | SMPZ-124-GW033011 | Eu-152 | Suspended | 0.3 U | 1.4 | 0.41 | 0.66 |
| PZ-124 | SMPZ-124-GW033011 | Eu-152 | Total | 1.8 | NA | 1.1 | NA |
| PZ-124 | SMPZ-124-GW033011 | Eu-154 | Filtered | 4.2 | 7.5 | 2.3 | 3.5 |
| PZ-124 | SMPZ-124-GW033011 | Eu-154 | Suspended | -1 U | 4.9 | 1.4 | 2.3 |
| PZ-124 | SMPZ-124-GW033011 | Eu-154 | Total | 3.1 | NA | 2.7 | NA |
| PZ-124 | SMPZ-124-GW033011 | Eu-155 | Filtered | -0.48 U | 3 | 0.9 | 1.5 |
| PZ-124 | SMPZ-124-GW033011 | Eu-155 | Suspended | -0.18 U | 1.1 | 0.32 | 0.52 |
| PZ-124 | SMPZ-124-GW033011 | Eu-155 | Total | -0.66 | NA | 0.95 | NA |
| PZ-124 | SMPZ-124-GW033011 | gross_alpha | Suspended | 0.53 | 0.7 | 0.23 | 0.39 |
| PZ-124 | SMPZ-124-GW033011 | gross_alpha | Total | 58.4 | NA | 3 | NA |
| PZ-124 | SMPZ-124-GW033011 | H-3 | Total | -47 U | 140 | 39 | 66 |
| PZ-124 | SMPZ-124-GW033011 | Ho-166m | Filtered | 0.46 U | 1.7 | 0.51 | 0.82 |
| PZ-124 | SMPZ-124-GW033011 | Ho-166m | Suspended | 0.18 U | 0.83 | 0.24 | 0.39 |
| PZ-124 | SMPZ-124-GW033011 | Ho-166m | Total | 0.65 | NA | 0.57 | NA |
| PZ-124 | SMPZ-124-GW033011 | K-40 | Filtered | 21.9 | 19 | 6.7 | 9 |
| PZ-124 | SMPZ-124-GW033011 | K-40 | Suspended | -4.7 U | 8.8 | 4.4 | 4.2 |
| PZ-124 | SMPZ-124-GW033011 | K-40 | Total | 17.2 | NA | 8 | NA |
| PZ-124 | SMPZ-124-GW033011 | Na-22 | Filtered | 0.1 U | 1.3 | 0.36 | 0.58 |
| PZ-124 | SMPZ-124-GW033011 | Na-22 | Suspended | -0.05 U | 0.54 | 0.15 | 0.25 |
| PZ-124 | SMPZ-124-GW033011 | Na-22 | Total | 0.05 | NA | 0.39 | NA |
| PZ-124 | SMPZ-124-GW033011 | Nb-94 | Filtered | 0.38 U | 1.1 | 0.32 | 0.5 |
| PZ-124 | SMPZ-124-GW033011 | Nb-94 | Suspended | 0.06 U | 0.51 | 0.15 | 0.24 |
| PZ-124 | SMPZ-124-GW033011 | Nb-94 | Total | 0.44 | NA | 0.35 | NA |
| PZ-124 | SMPZ-124-GW033011 | Np-236 | Filtered | -0.74 U | 2.6 | 0.79 | 1.3 |
| PZ-124 | SMPZ-124-GW033011 | Np-236 | Suspended | 0.07 U | 0.97 | 0.29 | 0.47 |
| PZ-124 | SMPZ-124-GW033011 | Np-236 | Total | -0.67 | NA | 0.84 | NA |
| PZ-124 | SMPZ-124-GW033011 | Np-239 | Filtered | -0.1 U | 7.4 | 2.2 | 3.6 |
| PZ-124 | SMPZ-124-GW033011 | Np-239 | Suspended | 0.54 U | 2.9 | 0.86 | 1.4 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| PZ-124 | SMPZ-124-GW033011 | Np-239 | Total | 0.4 | NA | 2.3 | NA |
| PZ-124 | SMPZ-124-GW033011 | Pa-231 | Filtered | -0.7 U | 52 | 15 | 25 |
| PZ-124 | SMPZ-124-GW033011 | Pa-231 | Suspended | 7.4 U | 20 | 6 | 9.7 |
| PZ-124 | SMPZ-124-GW033011 | Pa-231 | Total | 7 | NA | 16 | NA |
| PZ-124 | SMPZ-124-GW033011 | Pb-212 | Filtered | 1.26 | 2.3 | 0.75 | 1.1 |
| PZ-124 | SMPZ-124-GW033011 | Pb-212 | Suspended | 0.31 U | 0.69 | 0.24 | 0.33 |
| PZ-124 | SMPZ-124-GW033011 | Pb-212 | Total | 1.57 | NA | 0.78 | NA |
| PZ-124 | SMPZ-124-GW033011 | Pb-214 | Filtered | 0.91 U | 2.7 | 0.74 | 1.3 |
| PZ-124 | SMPZ-124-GW033011 | Pb-214 | Suspended | 0.57 | 0.98 | 0.37 | 0.47 |
| PZ-124 | SMPZ-124-GW033011 | Pb-214 | Total | 1.48 | NA | 0.83 | NA |
| PZ-124 | SMPZ-124-GW033011 | Sb-125 | Filtered | 2.5 U | 12 | 3.5 | 5.7 |
| PZ-124 | SMPZ-124-GW033011 | Sb-125 | Suspended | 0.7 U | 4.3 | 1.3 | 2.1 |
| PZ-124 | SMPZ-124-GW033011 | Sb-125 | Total | 3.2 | NA | 3.7 | NA |
| PZ-124 | SMPZ-124-GW033011 | Sn-126 | Filtered | 0.54 | 1.1 | 0.33 | 0.51 |
| PZ-124 | SMPZ-124-GW033011 | Sn-126 | Suspended | -0.0009 U | 0.61 | 0.18 | 0.29 |
| PZ-124 | SMPZ-124-GW033011 | Sn-126 | Total | 0.54 | NA | 0.37 | NA |
| PZ-124 | SMPZ-124-GW033011 | Te-125m | Filtered | 0.57 U | 2.7 | 0.81 | 1.3 |
| PZ-124 | SMPZ-124-GW033011 | Te-125m | Suspended | 0.16 U | 1 | 0.3 | 0.49 |
| PZ-124 | SMPZ-124-GW033011 | Te-125m | Total | 0.73 | NA | 0.86 | NA |
| PZ-124 | SMPZ-124-GW033011 | Th-231 | Filtered | 1.77 | 0.01 | 0.11 | 0.008 |
| PZ-124 | SMPZ-124-GW033011 | Th-231 | Suspended | 0.0025 U | 0.0068 | 0.0025 | 0.0053 |
| PZ-124 | SMPZ-124-GW033011 | Th-231 | Total | 1.77 | NA | 0.11 | NA |
| PZ-124 | SMPZ-124-GW033011 | Th-234 | Filtered | 19.5 | 23 | 8.3 | 11 |
| PZ-124 | SMPZ-124-GW033011 | Th-234 | Suspended | 1.1 U | 4.9 | 1.4 | 2.3 |
| PZ-124 | SMPZ-124-GW033011 | Th-234 | Total | 20.6 | NA | 8.4 | NA |
| PZ-124 | SMPZ-124-GW033011 | Tl-208 | Filtered | -0.22 U | 1.5 | 0.5 | 0.72 |
| PZ-124 | SMPZ-124-GW033011 | Tl-208 | Suspended | 0.03 U | 0.62 | 0.17 | 0.3 |
| PZ-124 | SMPZ-124-GW033011 | Tl-208 | Total | -0.19 | NA | 0.53 | NA |
| PZ-124 | SMPZ-124-GW033011 | Tm-171 | Filtered | 190 | 340 | 100 | 170 |
| PZ-124 | SMPZ-124-GW033011 | Tm-171 | Suspended | -0.4 U | 84 | 25 | 40 |
| PZ-124 | SMPZ-124-GW033011 | Tm-171 | Total | 180 | NA | 110 | NA |
| PZ-124 | SMPZ-124-GW033011 | U-233/234 | Filtered | 36.7 | 0.02 | 1.6 | 0.006 |
| PZ-124 | SMPZ-124-GW033011 | U-233/234 | Suspended | 0.0202 | 0.014 | 0.0083 | 0.0042 |
| PZ-124 | SMPZ-124-GW033011 | U-233/234 | Total | 36.7 | NA | 1.6 | NA |
| PZ-124 | SMPZ-124-GW033011 | U-235/236 | Filtered | 1.77 | 0.01 | 0.11 | 0.008 |
| PZ-124 | SMPZ-124-GW033011 | U-235/236 | Suspended | 0.0025 U | 0.0068 | 0.0025 | 0.0053 |
| PZ-124 | SMPZ-124-GW033011 | U-235/236 | Total | 1.77 | NA | 0.11 | NA |
| PZ-124 | SMPZ-124-GW033011 | U-238 | Filtered | 35.6 | 0.02 | 1.5 | 0.006 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-124 | SMPZ-124-GW033011 | U-238 | Suspended | 0.0124 | 0.0055 | 0.0064 | 0.0042 |
| PZ-124 | SMPZ-124-GW033011 | U-238 | Total | 35.6 | NA | 1.5 | NA |
| PZ-150 | SMPZ-150-GW032211 | Ac-227 | Filtered | 3 | 5.7 | 1.7 | 2.7 |
| PZ-150 | SMPZ-150-GW032211 | Ac-227 | Suspended | 0 U | 3 | 0.88 | 1.5 |
| PZ-150 | SMPZ-150-GW032211 | Ac-227 | Total | 3 | NA | 2 | NA |
| PZ-150 | SMPZ-150-GW032211 | Ac-228 | Filtered | -0.3 U | 5.1 | 1.5 | 2.4 |
| PZ-150 | SMPZ-150-GW032211 | Ac-228 | Suspended | 0 U | 2.4 | 0.69 | 1.1 |
| PZ-150 | SMPZ-150-GW032211 | Ac-228 | Total | -0.3 | NA | 1.6 | NA |
| PZ-150 | SMPZ-150-GW032211 | Ag-108 | Filtered | 0.005 U R | 0.089 | 0.025 | 0.041 |
| PZ-150 | SMPZ-150-GW032211 | Ag-108 | Suspended | -0.005 U R | 0.036 | 0.011 | 0.017 |
| PZ-150 | SMPZ-150-GW032211 | Ag-108 | Total | -0.0001 R | NA | 0.028 | NA |
| PZ-150 | SMPZ-150-GW032211 | Ag-108m | Filtered | 0.05 U R | 0.95 | 0.27 | 0.45 |
| PZ-150 | SMPZ-150-GW032211 | Ag-108m | Suspended | -0.06 U R | 0.39 | 0.11 | 0.19 |
| PZ-150 | SMPZ-150-GW032211 | Ag-108m | Total | -0.002 R | NA | 0.3 | NA |
| PZ-150 | SMPZ-150-GW032211 | Ba-133 | Filtered | -6.6 U R | 16 | 4.9 | 7.8 |
| PZ-150 | SMPZ-150-GW032211 | Ba-133 | Suspended | -0.24 U R | 3.1 | 0.91 | 1.5 |
| PZ-150 | SMPZ-150-GW032211 | Ba-133 | Total | -6.8 R | NA | 5 | NA |
| PZ-150 | SMPZ-150-GW032211 | Ba-137m | Filtered | 0.34 U | 1.4 | 0.4 | 0.64 |
| PZ-150 | SMPZ-150-GW032211 | Ba-137m | Suspended | 0.04 U | 0.44 | 0.13 | 0.21 |
| PZ-150 | SMPZ-150-GW032211 | Ba-137m | Total | 0.38 | NA | 0.42 | NA |
| PZ-150 | SMPZ-150-GW032211 | Bi-212 | Filtered | 5.9 | 11 | 3.2 | 4.9 |
| PZ-150 | SMPZ-150-GW032211 | Bi-212 | Suspended | -0.2 U | 3.6 | 1 | 1.7 |
| PZ-150 | SMPZ-150-GW032211 | Bi-212 | Total | 5.7 | NA | 3.4 | NA |
| PZ-150 | SMPZ-150-GW032211 | Bi-214 | Filtered | 2.1 | 3.4 | 1.4 | 1.6 |
| PZ-150 | SMPZ-150-GW032211 | Bi-214 | Suspended | 0.64 | 0.94 | 0.29 | 0.44 |
| PZ-150 | SMPZ-150-GW032211 | Bi-214 | Total | 2.8 | NA | 1.4 | NA |
| PZ-150 | SMPZ-150-GW032211 | Cd-113m | Filtered | -70 U | 16000 | 4700 | 7700 |
| PZ-150 | SMPZ-150-GW032211 | Cd-113m | Suspended | -500 U | 4100 | 1200 | 2000 |
| PZ-150 | SMPZ-150-GW032211 | Cd-113m | Total | -600 | NA | 4800 | NA |
| PZ-150 | SMPZ-150-GW032211 | Cf-249 | Filtered | -0.4 U R | 6.5 | 1.9 | 3.1 |
| PZ-150 | SMPZ-150-GW032211 | Cf-249 | Suspended | 0.59 U R | 1.9 | 0.56 | 0.89 |
| PZ-150 | SMPZ-150-GW032211 | Cf-249 | Total | 0.2 R | NA | 2 | NA |
| PZ-150 | SMPZ-150-GW032211 | Co-60 | Filtered | 0.33 U | 1.4 | 0.4 | 0.62 |
| PZ-150 | SMPZ-150-GW032211 | Co-60 | Suspended | 0.04 U | 0.48 | 0.13 | 0.21 |
| PZ-150 | SMPZ-150-GW032211 | Co-60 | Total | 0.37 | NA | 0.42 | NA |
| PZ-150 | SMPZ-150-GW032211 | Cs-134 | Filtered | -0.1 U | 1.3 | 0.38 | 0.62 |
| PZ-150 | SMPZ-150-GW032211 | Cs-134 | Suspended | 0.03 U | 0.47 | 0.14 | 0.22 |
| PZ-150 | SMPZ-150-GW032211 | Cs-134 | Total | -0.08 | NA | 0.4 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| PZ-150 | SMPZ-150-GW032211 | Cs-137 | Filtered | 0.36 U | 1.4 | 0.43 | 0.68 |
| PZ-150 | SMPZ-150-GW032211 | Cs-137 | Suspended | 0.04 U | 0.47 | 0.13 | 0.22 |
| PZ-150 | SMPZ-150-GW032211 | Cs-137 | Total | 0.4 | NA | 0.45 | NA |
| PZ-150 | SMPZ-150-GW032211 | Eu-152 | Filtered | -1 U | 4 | 1.2 | 1.9 |
| PZ-150 | SMPZ-150-GW032211 | Eu-152 | Suspended | 0.004 U | 1.1 | 0.33 | 0.55 |
| PZ-150 | SMPZ-150-GW032211 | Eu-152 | Total | -1 | NA | 1.2 | NA |
| PZ-150 | SMPZ-150-GW032211 | Eu-154 | Filtered | -0.1 U | 14 | 3.9 | 6.4 |
| PZ-150 | SMPZ-150-GW032211 | Eu-154 | Suspended | 0.4 U | 3.8 | 1.1 | 1.7 |
| PZ-150 | SMPZ-150-GW032211 | Eu-154 | Total | 0.3 | NA | 4 | NA |
| PZ-150 | SMPZ-150-GW032211 | Eu-155 | Filtered | -0.7 U | 4.1 | 1.2 | 2 |
| PZ-150 | SMPZ-150-GW032211 | Eu-155 | Suspended | 0.04 U | 0.68 | 0.2 | 0.32 |
| PZ-150 | SMPZ-150-GW032211 | Eu-155 | Total | -0.7 | NA | 1.2 | NA |
| PZ-150 | SMPZ-150-GW032211 | gross_alpha | Filtered | 1.63 | 0.52 | 0.29 | 0.27 |
| PZ-150 | SMPZ-150-GW032211 | gross_alpha | Suspended | 0.22 | 0.4 | 0.13 | 0.21 |
| PZ-150 | SMPZ-150-GW032211 | gross_alpha | Total | 1.86 | NA | 0.31 | NA |
| PZ-150 | SMPZ-150-GW032211 | gross_beta | Filtered | 5.11 | 2.6 | 0.997 | 1.5 |
| PZ-150 | SMPZ-150-GW032211 | gross_beta | Suspended | 0.08 U | 0.85 | 0.24 | 0.51 |
| PZ-150 | SMPZ-150-GW032211 | gross_beta | Total | 5.2 | NA | 1 | NA |
| PZ-150 | SMPZ-150-GW032211 | H-3 | Total | 22 U | 160 | 47 | 77 |
| PZ-150 | SMPZ-150-GW032211 | Ho-166m | Filtered | -0.05 U | 2.2 | 0.64 | 1 |
| PZ-150 | SMPZ-150-GW032211 | Ho-166m | Suspended | -0.03 U | 0.59 | 0.17 | 0.27 |
| PZ-150 | SMPZ-150-GW032211 | Ho-166m | Total | -0.08 | NA | 0.66 | NA |
| PZ-150 | SMPZ-150-GW032211 | K-40 | Filtered | 4.7 U | 23 | 7.3 | 11 |
| PZ-150 | SMPZ-150-GW032211 | K-40 | Suspended | -1.7 U | 8.2 | 3.5 | 3.8 |
| PZ-150 | SMPZ-150-GW032211 | K-40 | Total | 3 | NA | 8.1 | NA |
| PZ-150 | SMPZ-150-GW032211 | Na-22 | Filtered | 0.007 U | 1.6 | 0.43 | 0.71 |
| PZ-150 | SMPZ-150-GW032211 | Na-22 | Suspended | 0.004 U | 0.57 | 0.16 | 0.26 |
| PZ-150 | SMPZ-150-GW032211 | Na-22 | Total | 0.01 | NA | 0.46 | NA |
| PZ-150 | SMPZ-150-GW032211 | Nb-94 | Filtered | 0.01 U | 1.4 | 0.41 | 0.68 |
| PZ-150 | SMPZ-150-GW032211 | Nb-94 | Suspended | 0 U | 0.59 | 0.17 | 0.28 |
| PZ-150 | SMPZ-150-GW032211 | Nb-94 | Total | 0.01 | NA | 0.44 | NA |
| PZ-150 | SMPZ-150-GW032211 | Np-236 | Filtered | 0 U | 3.5 | 1 | 1.7 |
| PZ-150 | SMPZ-150-GW032211 | Np-236 | Suspended | 0.1 U | 0.72 | 0.21 | 0.35 |
| PZ-150 | SMPZ-150-GW032211 | Np-236 | Total | 0.1 | NA | 1.1 | NA |
| PZ-150 | SMPZ-150-GW032211 | Np-239 | Filtered | -0.5 U | 9.4 | 2.8 | 4.5 |
| PZ-150 | SMPZ-150-GW032211 | Np-239 | Suspended | -0.46 U | 2.4 | 0.71 | 1.2 |
| PZ-150 | SMPZ-150-GW032211 | Np-239 | Total | -1 | NA | 2.9 | NA |
| PZ-150 | SMPZ-150-GW032211 | Pa-231 | Filtered | 25 U | 64 | 19 | 31 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| PZ-150 | SMPZ-150-GW032211 | Pa-231 | Suspended | 0 U | 19 | 5.5 | 9 |
| PZ-150 | SMPZ-150-GW032211 | Pa-231 | Total | 25 | NA | 20 | NA |
| PZ-150 | SMPZ-150-GW032211 | Pb-212 | Filtered | 0.22 U | 2.7 | 0.87 | 1.3 |
| PZ-150 | SMPZ-150-GW032211 | Pb-212 | Suspended | 0.44 | 0.72 | 0.29 | 0.35 |
| PZ-150 | SMPZ-150-GW032211 | Pb-212 | Total | 0.66 | NA | 0.92 | NA |
| PZ-150 | SMPZ-150-GW032211 | Pb-214 | Filtered | -0.3 U | 3.6 | 1.2 | 1.8 |
| PZ-150 | SMPZ-150-GW032211 | Pb-214 | Suspended | 0.05 U | 0.94 | 0.26 | 0.45 |
| PZ-150 | SMPZ-150-GW032211 | Pb-214 | Total | -0.2 | NA | 1.2 | NA |
| PZ-150 | SMPZ-150-GW032211 | Sb-125 | Filtered | 3.1 U | 15 | 4.5 | 7.3 |
| PZ-150 | SMPZ-150-GW032211 | Sb-125 | Suspended | 0.33 U | 3.1 | 0.92 | 1.5 |
| PZ-150 | SMPZ-150-GW032211 | Sb-125 | Total | 3.4 | NA | 4.6 | NA |
| PZ-150 | SMPZ-150-GW032211 | Sn-126 | Filtered | 0.38 U | 1.5 | 0.44 | 0.71 |
| PZ-150 | SMPZ-150-GW032211 | Sn-126 | Suspended | 0.23 | 0.44 | 0.13 | 0.2 |
| PZ-150 | SMPZ-150-GW032211 | Sn-126 | Total | 0.61 | NA | 0.46 | NA |
| PZ-150 | SMPZ-150-GW032211 | Sr-90 | Filtered | 0.043 | 0.057 | 0.018 | 0.032 |
| PZ-150 | SMPZ-150-GW032211 | Sr-90 | Suspended | 0.063 U | 0.12 | 0.036 | 0.067 |
| PZ-150 | SMPZ-150-GW032211 | Sr-90 | Total | 0.063 | NA | 0.036 | NA |
| PZ-150 | SMPZ-150-GW032211 | Te-125m | Filtered | 0.7 U | 3.5 | 1 | 1.7 |
| PZ-150 | SMPZ-150-GW032211 | Te-125m | Suspended | 0.08 U | 0.72 | 0.21 | 0.35 |
| PZ-150 | SMPZ-150-GW032211 | Te-125m | Total | 0.8 | NA | 1.1 | NA |
| PZ-150 | SMPZ-150-GW032211 | Th-231 | Filtered | 0.07 | 0.007 | 0.014 | 0.005 |
| PZ-150 | SMPZ-150-GW032211 | Th-231 | Suspended | 0.0044 U | 0.012 | 0.0044 | 0.0092 |
| PZ-150 | SMPZ-150-GW032211 | Th-231 | Total | 0.075 | NA | 0.015 | NA |
| PZ-150 | SMPZ-150-GW032211 | Th-234 | Filtered | 3.8 U | 24 | 7.8 | 12 |
| PZ-150 | SMPZ-150-GW032211 | Th-234 | Suspended | 1.1 U | 5 | 1.5 | 2.4 |
| PZ-150 | SMPZ-150-GW032211 | Th-234 | Total | 4.9 | NA | 8 | NA |
| PZ-150 | SMPZ-150-GW032211 | Tl-208 | Filtered | 0.04 U | 1.8 | 0.58 | 0.84 |
| PZ-150 | SMPZ-150-GW032211 | Tl-208 | Suspended | 0.16 U | 0.5 | 0.14 | 0.23 |
| PZ-150 | SMPZ-150-GW032211 | Tl-208 | Total | 0.21 | NA | 0.6 | NA |
| PZ-150 | SMPZ-150-GW032211 | Tm-171 | Filtered | -30 U | 440 | 130 | 210 |
| PZ-150 | SMPZ-150-GW032211 | Tm-171 | Suspended | -7 U | 66 | 20 | 32 |
| PZ-150 | SMPZ-150-GW032211 | Tm-171 | Total | -30 | NA | 130 | NA |
| PZ-150 | SMPZ-150-GW032211 | U-233/234 | Filtered | 1.26 | 0.02 | 0.074 | 0.008 |
| PZ-150 | SMPZ-150-GW032211 | U-233/234 | Suspended | -0.0051 U | 0.0096 | 0.0071 | 0.0074 |
| PZ-150 | SMPZ-150-GW032211 | U-233/234 | Total | 1.25 | NA | 0.074 | NA |
| PZ-150 | SMPZ-150-GW032211 | U-235/236 | Filtered | 0.07 | 0.007 | 0.014 | 0.005 |
| PZ-150 | SMPZ-150-GW032211 | U-235/236 | Suspended | 0.0044 U | 0.012 | 0.0044 | 0.0092 |
| PZ-150 | SMPZ-150-GW032211 | U-235/236 | Total | 0.075 | NA | 0.015 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-150 | SMPZ-150-GW032211 | U-238 | Filtered | 1.08 | 0.014 | 0.066 | 0.004 |
| PZ-150 | SMPZ-150-GW032211 | U-238 | Suspended | 0.018 | 0.01 | 0.011 | 0.007 |
| PZ-150 | SMPZ-150-GW032211 | U-238 | Total | 1.09 | NA | 0.067 | NA |
| PZ-151 | SMPZ-151-GW032811 | Ac-227 | Filtered | -9.1 L U | 14 | 4.4 | 7.1 |
| PZ-151 | SMPZ-151-GW032811 | Ac-227 | Suspended | -3.5 U | 6.3 | 1.9 | 3 |
| PZ-151 | SMPZ-151-GW032811 | Ac-227 | Total | -12.6 L | NA | 4.8 | NA |
| PZ-151 | SMPZ-151-GW032811 | Ac-228 | Filtered | -0.2 U | 5.3 | 1.5 | 2.5 |
| PZ-151 | SMPZ-151-GW032811 | Ac-228 | Suspended | 2.1 | 3.6 | 1.1 | 1.6 |
| PZ-151 | SMPZ-151-GW032811 | Ac-228 | Total | 1.9 | NA | 1.9 | NA |
| PZ-151 | SMPZ-151-GW032811 | Ag-108 | Filtered | 0.035 U | 0.13 | 0.038 | 0.06 |
| PZ-151 | SMPZ-151-GW032811 | Ag-108 | Suspended | 0.018 U | 0.08 | 0.024 | 0.038 |
| PZ-151 | SMPZ-151-GW032811 | Ag-108 | Total | 0.053 | NA | 0.044 | NA |
| PZ-151 | SMPZ-151-GW032811 | Ag-108m | Filtered | 0.37 U | 1.4 | 0.4 | 0.65 |
| PZ-151 | SMPZ-151-GW032811 | Ag-108m | Suspended | 0.2 U | 0.86 | 0.25 | 0.41 |
| PZ-151 | SMPZ-151-GW032811 | Ag-108m | Total | 0.57 | NA | 0.48 | NA |
| PZ-151 | SMPZ-151-GW032811 | Ba-133 | Filtered | 1 U | 16 | 4.8 | 7.9 |
| PZ-151 | SMPZ-151-GW032811 | Ba-133 | Suspended | -0.2 U | 9.3 | 2.7 | 4.5 |
| PZ-151 | SMPZ-151-GW032811 | Ba-133 | Total | 0.8 | NA | 5.5 | NA |
| PZ-151 | SMPZ-151-GW032811 | Ba-137m | Filtered | -0.34 U | 1.8 | 0.54 | 0.87 |
| PZ-151 | SMPZ-151-GW032811 | Ba-137m | Suspended | -0.003 U | 1 | 0.3 | 0.49 |
| PZ-151 | SMPZ-151-GW032811 | Ba-137m | Total | -0.34 | NA | 0.62 | NA |
| PZ-151 | SMPZ-151-GW032811 | Bi-212 | Filtered | -2.2 U | 15 | 7.9 | 7.2 |
| PZ-151 | SMPZ-151-GW032811 | Bi-212 | Suspended | 2.7 U | 7.2 | 2.1 | 3.3 |
| PZ-151 | SMPZ-151-GW032811 | Bi-212 | Total | 0.5 | NA | 8.2 | NA |
| PZ-151 | SMPZ-151-GW032811 | Bi-214 | Filtered | 0.1 U | 3.9 | 1.2 | 1.9 |
| PZ-151 | SMPZ-151-GW032811 | Bi-214 | Suspended | 2.75 | 2.4 | 0.98 | 1.1 |
| PZ-151 | SMPZ-151-GW032811 | Bi-214 | Total | 2.9 | NA | 1.5 | NA |
| PZ-151 | SMPZ-151-GW032811 | Cd-113m | Filtered | 6800 U | 18000 | 5400 | 8700 |
| PZ-151 | SMPZ-151-GW032811 | Cd-113m | Suspended | -30 U | 11000 | 3100 | 5100 |
| PZ-151 | SMPZ-151-GW032811 | Cd-113m | Total | 6800 | NA | 6200 | NA |
| PZ-151 | SMPZ-151-GW032811 | Cf-249 | Filtered | 2.9 U | 8.2 | 2.5 | 4 |
| PZ-151 | SMPZ-151-GW032811 | Cf-249 | Suspended | 0.7 U | 4.2 | 1.2 | 2 |
| PZ-151 | SMPZ-151-GW032811 | Cf-249 | Total | 3.6 | NA | 2.8 | NA |
| PZ-151 | SMPZ-151-GW032811 | Co-60 | Filtered | -0.003 U | 1.5 | 0.42 | 0.69 |
| PZ-151 | SMPZ-151-GW032811 | Co-60 | Suspended | 0.002 U | 1.2 | 0.33 | 0.55 |
| PZ-151 | SMPZ-151-GW032811 | Co-60 | Total | -0.0004 | NA | 0.53 | NA |
| PZ-151 | SMPZ-151-GW032811 | Cs-134 | Filtered | -0.4 U | 1.9 | 0.57 | 0.92 |
| PZ-151 | SMPZ-151-GW032811 | Cs-134 | Suspended | 0.26 U | 0.92 | 0.27 | 0.43 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-----|------|----------------|
| PZ-151 | SMPZ-151-GW032811 | Cs-134 | Total | -0.14 | NA | 0.63 | NA |
| PZ-151 | SMPZ-151-GW032811 | Cs-137 | Filtered | -0.36 U | 1.9 | 0.57 | 0.92 |
| PZ-151 | SMPZ-151-GW032811 | Cs-137 | Suspended | -0.003 U | 1.1 | 0.31 | 0.52 |
| PZ-151 | SMPZ-151-GW032811 | Cs-137 | Total | -0.36 | NA | 0.65 | NA |
| PZ-151 | SMPZ-151-GW032811 | Eu-152 | Filtered | 1.2 U | 4.6 | 1.4 | 2.2 |
| PZ-151 | SMPZ-151-GW032811 | Eu-152 | Suspended | 0.51 U | 2.2 | 0.64 | 1 |
| PZ-151 | SMPZ-151-GW032811 | Eu-152 | Total | 1.7 | NA | 1.5 | NA |
| PZ-151 | SMPZ-151-GW032811 | Eu-154 | Filtered | -0.07 U | 17 | 4.9 | 8.1 |
| PZ-151 | SMPZ-151-GW032811 | Eu-154 | Suspended | -1.8 U | 9.9 | 2.9 | 4.6 |
| PZ-151 | SMPZ-151-GW032811 | Eu-154 | Total | -1.9 | NA | 5.7 | NA |
| PZ-151 | SMPZ-151-GW032811 | Eu-155 | Filtered | -1 U | 4.6 | 1.4 | 2.2 |
| PZ-151 | SMPZ-151-GW032811 | Eu-155 | Suspended | -0.15 U | 1.7 | 0.49 | 0.81 |
| PZ-151 | SMPZ-151-GW032811 | Eu-155 | Total | -1.2 | NA | 1.5 | NA |
| PZ-151 | SMPZ-151-GW032811 | H-3 | Total | 14 U | 150 | 44 | 72 |
| PZ-151 | SMPZ-151-GW032811 | Ho-166m | Filtered | 1.45 | 2.7 | 0.82 | 1.3 |
| PZ-151 | SMPZ-151-GW032811 | Ho-166m | Suspended | 0.31 U | 1.7 | 0.5 | 0.8 |
| PZ-151 | SMPZ-151-GW032811 | Ho-166m | Total | 1.76 | NA | 0.96 | NA |
| PZ-151 | SMPZ-151-GW032811 | K-40 | Filtered | 23.7 | 25 | 9.3 | 12 |
| PZ-151 | SMPZ-151-GW032811 | K-40 | Suspended | 12.9 | 15 | 4.7 | 6.8 |
| PZ-151 | SMPZ-151-GW032811 | K-40 | Total | 37 | NA | 10 | NA |
| PZ-151 | SMPZ-151-GW032811 | Na-22 | Filtered | 0.37 U | 1.8 | 0.54 | 0.86 |
| PZ-151 | SMPZ-151-GW032811 | Na-22 | Suspended | 0.009 U | 1.3 | 0.36 | 0.59 |
| PZ-151 | SMPZ-151-GW032811 | Na-22 | Total | 0.38 | NA | 0.65 | NA |
| PZ-151 | SMPZ-151-GW032811 | Nb-94 | Filtered | -0.05 U | 1.6 | 0.45 | 0.74 |
| PZ-151 | SMPZ-151-GW032811 | Nb-94 | Suspended | 0.02 U | 0.9 | 0.25 | 0.42 |
| PZ-151 | SMPZ-151-GW032811 | Nb-94 | Total | -0.02 | NA | 0.52 | NA |
| PZ-151 | SMPZ-151-GW032811 | Np-236 | Filtered | 0.06 U | 4.2 | 1.2 | 2 |
| PZ-151 | SMPZ-151-GW032811 | Np-236 | Suspended | 0.54 U | 1.5 | 0.44 | 0.69 |
| PZ-151 | SMPZ-151-GW032811 | Np-236 | Total | 0.6 | NA | 1.3 | NA |
| PZ-151 | SMPZ-151-GW032811 | Np-239 | Filtered | -3.3 U | 10 | 3.2 | 5.1 |
| PZ-151 | SMPZ-151-GW032811 | Np-239 | Suspended | -0.5 U | 5.3 | 1.6 | 2.5 |
| PZ-151 | SMPZ-151-GW032811 | Np-239 | Total | -3.8 | NA | 3.5 | NA |
| PZ-151 | SMPZ-151-GW032811 | Pa-231 | Filtered | 8 U | 79 | 24 | 38 |
| PZ-151 | SMPZ-151-GW032811 | Pa-231 | Suspended | -2.9 U | 34 | 9.9 | 16 |
| PZ-151 | SMPZ-151-GW032811 | Pa-231 | Total | 5 | NA | 26 | NA |
| PZ-151 | SMPZ-151-GW032811 | Pb-212 | Filtered | 0.4 U | 3.7 | 1.2 | 1.8 |
| PZ-151 | SMPZ-151-GW032811 | Pb-212 | Suspended | 0.63 U | 1.5 | 0.46 | 0.72 |
| PZ-151 | SMPZ-151-GW032811 | Pb-212 | Total | 1 | NA | 1.3 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| PZ-151 | SMPZ-151-GW032811 | Pb-214 | Filtered | 2.7 | 4.1 | 1.7 | 2 |
| PZ-151 | SMPZ-151-GW032811 | Pb-214 | Suspended | 0.71 U | 2 | 0.63 | 0.96 |
| PZ-151 | SMPZ-151-GW032811 | Pb-214 | Total | 3.4 | NA | 1.8 | NA |
| PZ-151 | SMPZ-151-GW032811 | Sb-125 | Filtered | 4.7 U | 17 | 5.1 | 8.2 |
| PZ-151 | SMPZ-151-GW032811 | Sb-125 | Suspended | 0.08 U | 8.1 | 2.4 | 3.9 |
| PZ-151 | SMPZ-151-GW032811 | Sb-125 | Total | 4.8 | NA | 5.6 | NA |
| PZ-151 | SMPZ-151-GW032811 | Sn-126 | Filtered | 0.62 U | 1.8 | 0.54 | 0.85 |
| PZ-151 | SMPZ-151-GW032811 | Sn-126 | Suspended | 0.45 U | 1.2 | 0.36 | 0.56 |
| PZ-151 | SMPZ-151-GW032811 | Sn-126 | Total | 1.06 | NA | 0.65 | NA |
| PZ-151 | SMPZ-151-GW032811 | Te-125m | Filtered | 1.1 U | 3.9 | 1.2 | 1.9 |
| PZ-151 | SMPZ-151-GW032811 | Te-125m | Suspended | 0.02 U | 1.9 | 0.55 | 0.9 |
| PZ-151 | SMPZ-151-GW032811 | Te-125m | Total | 1.1 | NA | 1.3 | NA |
| PZ-151 | SMPZ-151-GW032811 | Th-234 | Filtered | 15 U | 34 | 12 | 17 |
| PZ-151 | SMPZ-151-GW032811 | Th-234 | Suspended | 3 U | 11 | 4 | 5.5 |
| PZ-151 | SMPZ-151-GW032811 | Th-234 | Total | 18 | NA | 12 | NA |
| PZ-151 | SMPZ-151-GW032811 | Tl-208 | Filtered | 2.44 | 2.2 | 0.85 | 1 |
| PZ-151 | SMPZ-151-GW032811 | Tl-208 | Suspended | -0.24 U | 1.2 | 0.49 | 0.59 |
| PZ-151 | SMPZ-151-GW032811 | Tl-208 | Total | 2.21 | NA | 0.98 | NA |
| PZ-151 | SMPZ-151-GW032811 | Tm-171 | Filtered | -310 U | 510 | 160 | 250 |
| PZ-151 | SMPZ-151-GW032811 | Tm-171 | Suspended | -22 U | 130 | 39 | 63 |
| PZ-151 | SMPZ-151-GW032811 | Tm-171 | Total | -330 L | NA | 160 | NA |
| PZ-160 | SMPZ-160-GW032311 | Ac-227 | Filtered | -4.1 U | 8.6 | 2.6 | 4.2 |
| PZ-160 | SMPZ-160-GW032311 | Ac-227 | Suspended | 0.1 U | 5.5 | 1.6 | 2.7 |
| PZ-160 | SMPZ-160-GW032311 | Ac-227 | Total | -4 | NA | 3.1 | NA |
| PZ-160 | SMPZ-160-GW032311 | Ac-228 | Filtered | 2.5 | 3.9 | 1.2 | 1.8 |
| PZ-160 | SMPZ-160-GW032311 | Ac-228 | Suspended | 2 | 2.4 | 0.76 | 1.1 |
| PZ-160 | SMPZ-160-GW032311 | Ac-228 | Total | 4.5 | NA | 1.4 | NA |
| PZ-160 | SMPZ-160-GW032311 | Ag-108 | Filtered | 0.036 U R | 0.081 | 0.025 | 0.039 |
| PZ-160 | SMPZ-160-GW032311 | Ag-108 | Suspended | -0.004 U R | 0.045 | 0.013 | 0.022 |
| PZ-160 | SMPZ-160-GW032311 | Ag-108 | Total | 0.032 R | NA | 0.028 | NA |
| PZ-160 | SMPZ-160-GW032311 | Ag-108m | Filtered | 0.39 U R | 0.87 | 0.26 | 0.42 |
| PZ-160 | SMPZ-160-GW032311 | Ag-108m | Suspended | -0.05 U R | 0.49 | 0.14 | 0.23 |
| PZ-160 | SMPZ-160-GW032311 | Ag-108m | Total | 0.34 R | NA | 0.3 | NA |
| PZ-160 | SMPZ-160-GW032311 | Ba-133 | Filtered | -0.03 U R | 11 | 3.3 | 5.4 |
| PZ-160 | SMPZ-160-GW032311 | Ba-133 | Suspended | -1.4 U R | 5.9 | 1.8 | 2.8 |
| PZ-160 | SMPZ-160-GW032311 | Ba-133 | Total | -1.4 R | NA | 3.7 | NA |
| PZ-160 | SMPZ-160-GW032311 | Ba-137m | Filtered | 0 U | 1.3 | 0.38 | 0.63 |
| PZ-160 | SMPZ-160-GW032311 | Ba-137m | Suspended | 0 U | 0.76 | 0.22 | 0.37 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| PZ-160 | SMPZ-160-GW032311 | Ba-137m | Total | 0 | NA | 0.44 | NA |
| PZ-160 | SMPZ-160-GW032311 | Bi-212 | Filtered | -5 U | 10 | 69 | 5 |
| PZ-160 | SMPZ-160-GW032311 | Bi-212 | Suspended | -0.03 U | 6.2 | 1.8 | 2.9 |
| PZ-160 | SMPZ-160-GW032311 | Bi-212 | Total | -5 | NA | 69 | NA |
| PZ-160 | SMPZ-160-GW032311 | Bi-214 | Filtered | 0.6 U | 2.8 | 1.1 | 1.4 |
| PZ-160 | SMPZ-160-GW032311 | Bi-214 | Suspended | -0.7 U | 1.9 | 0.81 | 0.92 |
| PZ-160 | SMPZ-160-GW032311 | Bi-214 | Total | -0.08 | NA | 1.4 | NA |
| PZ-160 | SMPZ-160-GW032311 | Cd-113m | Filtered | 200 U | 13000 | 3700 | 6100 |
| PZ-160 | SMPZ-160-GW032311 | Cd-113m | Suspended | 3100 | 6000 | 1800 | 2900 |
| PZ-160 | SMPZ-160-GW032311 | Cd-113m | Total | 3300 | NA | 4200 | NA |
| PZ-160 | SMPZ-160-GW032311 | Cf-249 | Filtered | 2 U R | 4.7 | 1.4 | 2.3 |
| PZ-160 | SMPZ-160-GW032311 | Cf-249 | Suspended | 0.4 U R | 3.1 | 0.93 | 1.5 |
| PZ-160 | SMPZ-160-GW032311 | Cf-249 | Total | 2.4 R | NA | 1.7 | NA |
| PZ-160 | SMPZ-160-GW032311 | Co-60 | Filtered | -0.1 U | 1.2 | 0.33 | 0.54 |
| PZ-160 | SMPZ-160-GW032311 | Co-60 | Suspended | 0.13 U | 0.66 | 0.19 | 0.3 |
| PZ-160 | SMPZ-160-GW032311 | Co-60 | Total | 0.03 | NA | 0.38 | NA |
| PZ-160 | SMPZ-160-GW032311 | Cs-134 | Filtered | 0.17 U | 1.2 | 0.34 | 0.55 |
| PZ-160 | SMPZ-160-GW032311 | Cs-134 | Suspended | -0.08 U | 0.78 | 0.23 | 0.38 |
| PZ-160 | SMPZ-160-GW032311 | Cs-134 | Total | 0.09 | NA | 0.41 | NA |
| PZ-160 | SMPZ-160-GW032311 | Cs-137 | Filtered | 0 U | 1.4 | 0.4 | 0.66 |
| PZ-160 | SMPZ-160-GW032311 | Cs-137 | Suspended | 0 U | 0.81 | 0.23 | 0.39 |
| PZ-160 | SMPZ-160-GW032311 | Cs-137 | Total | 0 | NA | 0.47 | NA |
| PZ-160 | SMPZ-160-GW032311 | Eu-152 | Filtered | -0.25 U | 3.3 | 0.97 | 1.6 |
| PZ-160 | SMPZ-160-GW032311 | Eu-152 | Suspended | 0.22 U | 1.8 | 0.52 | 0.85 |
| PZ-160 | SMPZ-160-GW032311 | Eu-152 | Total | -0.02 | NA | 1.1 | NA |
| PZ-160 | SMPZ-160-GW032311 | Eu-154 | Filtered | -2.4 U | 11 | 3.1 | 5 |
| PZ-160 | SMPZ-160-GW032311 | Eu-154 | Suspended | -0.7 U | 5.7 | 1.7 | 2.7 |
| PZ-160 | SMPZ-160-GW032311 | Eu-154 | Total | -3.1 | NA | 3.5 | NA |
| PZ-160 | SMPZ-160-GW032311 | Eu-155 | Filtered | -0.008 U | 2.9 | 0.85 | 1.4 |
| PZ-160 | SMPZ-160-GW032311 | Eu-155 | Suspended | 0.16 U | 1.2 | 0.35 | 0.57 |
| PZ-160 | SMPZ-160-GW032311 | Eu-155 | Total | 0.16 | NA | 0.91 | NA |
| PZ-160 | SMPZ-160-GW032311 | gross_alpha | Filtered | 18.9 | 0.4 | 1.1 | 0.2 |
| PZ-160 | SMPZ-160-GW032311 | gross_alpha | Suspended | 0.68 | 0.77 | 0.27 | 0.4 |
| PZ-160 | SMPZ-160-GW032311 | gross_alpha | Total | 19.6 | NA | 1.1 | NA |
| PZ-160 | SMPZ-160-GW032311 | gross_beta | Filtered | 11.5 | 5.3 | 2.1 | 3 |
| PZ-160 | SMPZ-160-GW032311 | gross_beta | Suspended | 2.05 | 0.71 | 0.3 | 0.42 |
| PZ-160 | SMPZ-160-GW032311 | gross_beta | Total | 13.6 | NA | 2.1 | NA |
| PZ-160 | SMPZ-160-GW032311 | H-3 | Total | 87 U | 180 | 55 | 89 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-160 | SMPZ-160-GW032311 | Ho-166m | Filtered | -0.14 U | 1.8 | 0.52 | 0.85 |
| PZ-160 | SMPZ-160-GW032311 | Ho-166m | Suspended | -0.1 U | 1.1 | 0.31 | 0.51 |
| PZ-160 | SMPZ-160-GW032311 | Ho-166m | Total | -0.23 | NA | 0.61 | NA |
| PZ-160 | SMPZ-160-GW032311 | K-40 | Filtered | 16.3 | 15 | 4.8 | 7 |
| PZ-160 | SMPZ-160-GW032311 | K-40 | Suspended | -4.9 U | 11 | 4.7 | 5.1 |
| PZ-160 | SMPZ-160-GW032311 | K-40 | Total | 11.4 | NA | 6.7 | NA |
| PZ-160 | SMPZ-160-GW032311 | Na-22 | Filtered | -0.001 U | 1.1 | 0.31 | 0.52 |
| PZ-160 | SMPZ-160-GW032311 | Na-22 | Suspended | 0.02 U | 0.82 | 0.23 | 0.38 |
| PZ-160 | SMPZ-160-GW032311 | Na-22 | Total | 0.01 | NA | 0.39 | NA |
| PZ-160 | SMPZ-160-GW032311 | Nb-94 | Filtered | 0.39 U | 0.94 | 0.28 | 0.45 |
| PZ-160 | SMPZ-160-GW032311 | Nb-94 | Suspended | 0.0007 U | 0.61 | 0.17 | 0.29 |
| PZ-160 | SMPZ-160-GW032311 | Nb-94 | Total | 0.4 | NA | 0.33 | NA |
| PZ-160 | SMPZ-160-GW032311 | Np-236 | Filtered | 0.003 U | 2.5 | 0.73 | 1.2 |
| PZ-160 | SMPZ-160-GW032311 | Np-236 | Suspended | 0.54 U | 1.1 | 0.34 | 0.55 |
| PZ-160 | SMPZ-160-GW032311 | Np-236 | Total | 0.54 | NA | 0.81 | NA |
| PZ-160 | SMPZ-160-GW032311 | Np-239 | Filtered | 2.4 U | 7 | 2.1 | 3.4 |
| PZ-160 | SMPZ-160-GW032311 | Np-239 | Suspended | 0.8 U | 3.8 | 1.1 | 1.8 |
| PZ-160 | SMPZ-160-GW032311 | Np-239 | Total | 3.1 | NA | 2.4 | NA |
| PZ-160 | SMPZ-160-GW032311 | Pa-231 | Filtered | -0.2 U | 50 | 15 | 24 |
| PZ-160 | SMPZ-160-GW032311 | Pa-231 | Suspended | -4.1 U | 28 | 8.4 | 14 |
| PZ-160 | SMPZ-160-GW032311 | Pa-231 | Total | -4 | NA | 17 | NA |
| PZ-160 | SMPZ-160-GW032311 | Pb-212 | Filtered | 0.47 U | 2.3 | 0.68 | 1.1 |
| PZ-160 | SMPZ-160-GW032311 | Pb-212 | Suspended | 0.35 U | 1.2 | 0.42 | 0.56 |
| PZ-160 | SMPZ-160-GW032311 | Pb-212 | Total | 0.82 | NA | 0.8 | NA |
| PZ-160 | SMPZ-160-GW032311 | Pb-214 | Filtered | 1.18 U | 2.5 | 0.92 | 1.2 |
| PZ-160 | SMPZ-160-GW032311 | Pb-214 | Suspended | -0.47 U | 1.5 | 0.56 | 0.73 |
| PZ-160 | SMPZ-160-GW032311 | Pb-214 | Total | 0.7 | NA | 1.1 | NA |
| PZ-160 | SMPZ-160-GW032311 | Sb-125 | Filtered | 0.8 U | 12 | 3.4 | 5.6 |
| PZ-160 | SMPZ-160-GW032311 | Sb-125 | Suspended | -0.8 U | 5.5 | 1.6 | 2.7 |
| PZ-160 | SMPZ-160-GW032311 | Sb-125 | Total | 0.04 | NA | 3.8 | NA |
| PZ-160 | SMPZ-160-GW032311 | Sn-126 | Filtered | -0.02 U | 1.1 | 0.32 | 0.53 |
| PZ-160 | SMPZ-160-GW032311 | Sn-126 | Suspended | -0.04 U | 0.78 | 0.23 | 0.37 |
| PZ-160 | SMPZ-160-GW032311 | Sn-126 | Total | -0.06 | NA | 0.39 | NA |
| PZ-160 | SMPZ-160-GW032311 | Sr-90 | Filtered | 0.015 U | 0.048 | 0.015 | 0.026 |
| PZ-160 | SMPZ-160-GW032311 | Sr-90 | Suspended | 0.029 U | 0.058 | 0.018 | 0.033 |
| PZ-160 | SMPZ-160-GW032311 | Sr-90 | Total | 0.044 | NA | 0.023 | NA |
| PZ-160 | SMPZ-160-GW032311 | Te-125m | Filtered | 0.2 U | 2.7 | 0.8 | 1.3 |
| PZ-160 | SMPZ-160-GW032311 | Te-125m | Suspended | -0.19 U | 1.3 | 0.38 | 0.62 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-160 | SMPZ-160-GW032311 | Te-125m | Total | 0.01 | NA | 0.88 | NA |
| PZ-160 | SMPZ-160-GW032311 | Th-231 | Filtered | 0.472 | 0.007 | 0.041 | 0.006 |
| PZ-160 | SMPZ-160-GW032311 | Th-231 | Suspended | 0.0026 U | 0.0071 | 0.0026 | 0.0054 |
| PZ-160 | SMPZ-160-GW032311 | Th-231 | Total | 0.475 | NA | 0.041 | NA |
| PZ-160 | SMPZ-160-GW032311 | Th-234 | Filtered | 13.2 | 22 | 7.6 | 11 |
| PZ-160 | SMPZ-160-GW032311 | Th-234 | Suspended | 4.6 | 7.2 | 2.4 | 3.5 |
| PZ-160 | SMPZ-160-GW032311 | Th-234 | Total | 17.8 | NA | 8 | NA |
| PZ-160 | SMPZ-160-GW032311 | Tl-208 | Filtered | 0.7 | 1.4 | 0.53 | 0.67 |
| PZ-160 | SMPZ-160-GW032311 | Tl-208 | Suspended | -0.25 U | 0.83 | 0.38 | 0.4 |
| PZ-160 | SMPZ-160-GW032311 | Tl-208 | Total | 0.45 | NA | 0.65 | NA |
| PZ-160 | SMPZ-160-GW032311 | Tm-171 | Filtered | 90 U | 340 | 100 | 170 |
| PZ-160 | SMPZ-160-GW032311 | Tm-171 | Suspended | 21 U | 81 | 24 | 39 |
| PZ-160 | SMPZ-160-GW032311 | Tm-171 | Total | 110 | NA | 110 | NA |
| PZ-160 | SMPZ-160-GW032311 | U-233/234 | Filtered | 9.45 | 0.02 | 0.42 | 0.005 |
| PZ-160 | SMPZ-160-GW032311 | U-233/234 | Suspended | 0.0019 U | 0.0057 | 0.0051 | 0.0044 |
| PZ-160 | SMPZ-160-GW032311 | U-233/234 | Total | 9.46 | NA | 0.42 | NA |
| PZ-160 | SMPZ-160-GW032311 | U-235/236 | Filtered | 0.472 | 0.007 | 0.041 | 0.006 |
| PZ-160 | SMPZ-160-GW032311 | U-235/236 | Suspended | 0.0026 U | 0.0071 | 0.0026 | 0.0054 |
| PZ-160 | SMPZ-160-GW032311 | U-235/236 | Total | 0.475 | NA | 0.041 | NA |
| PZ-160 | SMPZ-160-GW032311 | U-238 | Filtered | 9.43 | 0.02 | 0.42 | 0.007 |
| PZ-160 | SMPZ-160-GW032311 | U-238 | Suspended | 0.0114 | 0.014 | 0.0069 | 0.0044 |
| PZ-160 | SMPZ-160-GW032311 | U-238 | Total | 9.44 | NA | 0.42 | NA |
| PZ-161 | SMPZ-161-GW032411 | Ac-227 | Filtered | 4.4 | 6 | 1.9 | 2.9 |
| PZ-161 | SMPZ-161-GW032411 | Ac-227 | Suspended | -0.37 U | 2.9 | 0.87 | 1.4 |
| PZ-161 | SMPZ-161-GW032411 | Ac-227 | Total | 4 | NA | 2.1 | NA |
| PZ-161 | SMPZ-161-GW032411 | Ac-228 | Filtered | 2.2 | 3.6 | 1.1 | 1.7 |
| PZ-161 | SMPZ-161-GW032411 | Ac-228 | Suspended | 1.24 | 1.6 | 0.52 | 0.76 |
| PZ-161 | SMPZ-161-GW032411 | Ac-228 | Total | 3.4 | NA | 1.2 | NA |
| PZ-161 | SMPZ-161-GW032411 | Ag-108 | Filtered | 0.03 U R | 0.079 | 0.024 | 0.038 |
| PZ-161 | SMPZ-161-GW032411 | Ag-108 | Suspended | -0.007 U R | 0.039 | 0.012 | 0.019 |
| PZ-161 | SMPZ-161-GW032411 | Ag-108 | Total | 0.024 R | NA | 0.026 | NA |
| PZ-161 | SMPZ-161-GW032411 | Ag-108m | Filtered | 0.33 U R | 0.85 | 0.25 | 0.4 |
| PZ-161 | SMPZ-161-GW032411 | Ag-108m | Suspended | -0.07 U R | 0.42 | 0.12 | 0.2 |
| PZ-161 | SMPZ-161-GW032411 | Ag-108m | Total | 0.26 R | NA | 0.28 | NA |
| PZ-161 | SMPZ-161-GW032411 | Ba-133 | Filtered | 2.1 U R | 11 | 3.2 | 5.2 |
| PZ-161 | SMPZ-161-GW032411 | Ba-133 | Suspended | -0.8 U R | 4.7 | 1.4 | 2.3 |
| PZ-161 | SMPZ-161-GW032411 | Ba-133 | Total | 1.3 R | NA | 3.5 | NA |
| PZ-161 | SMPZ-161-GW032411 | Ba-137m | Filtered | 0.32 U | 1 | 0.31 | 0.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| PZ-161 | SMPZ-161-GW032411 | Ba-137m | Suspended | -0.04 U | 0.55 | 0.16 | 0.26 |
| PZ-161 | SMPZ-161-GW032411 | Ba-137m | Total | 0.28 | NA | 0.35 | NA |
| PZ-161 | SMPZ-161-GW032411 | Bi-212 | Filtered | -0.7 U | 8.5 | 3.1 | 4 |
| PZ-161 | SMPZ-161-GW032411 | Bi-212 | Suspended | 1.96 | 3.2 | 0.99 | 1.5 |
| PZ-161 | SMPZ-161-GW032411 | Bi-212 | Total | 1.3 | NA | 3.2 | NA |
| PZ-161 | SMPZ-161-GW032411 | Bi-214 | Filtered | 2.69 | 2.6 | 0.78 | 1.2 |
| PZ-161 | SMPZ-161-GW032411 | Bi-214 | Suspended | 0.25 U | 1.4 | 0.38 | 0.67 |
| PZ-161 | SMPZ-161-GW032411 | Bi-214 | Total | 2.93 | NA | 0.87 | NA |
| PZ-161 | SMPZ-161-GW032411 | Cd-113m | Filtered | -1400 U | 14000 | 4100 | 6700 |
| PZ-161 | SMPZ-161-GW032411 | Cd-113m | Suspended | 1300 U | 5400 | 1600 | 2600 |
| PZ-161 | SMPZ-161-GW032411 | Cd-113m | Total | -100 | NA | 4400 | NA |
| PZ-161 | SMPZ-161-GW032411 | Cf-249 | Filtered | 0.2 U R | 4.3 | 1.2 | 2 |
| PZ-161 | SMPZ-161-GW032411 | Cf-249 | Suspended | -0.47 U R | 2.5 | 0.74 | 1.2 |
| PZ-161 | SMPZ-161-GW032411 | Cf-249 | Total | -0.3 R | NA | 1.4 | NA |
| PZ-161 | SMPZ-161-GW032411 | Co-60 | Filtered | 0.14 U | 1.1 | 0.3 | 0.48 |
| PZ-161 | SMPZ-161-GW032411 | Co-60 | Suspended | -0.1 U | 0.59 | 0.17 | 0.27 |
| PZ-161 | SMPZ-161-GW032411 | Co-60 | Total | 0.04 | NA | 0.35 | NA |
| PZ-161 | SMPZ-161-GW032411 | Cs-134 | Filtered | 0.34 U | 1.1 | 0.33 | 0.53 |
| PZ-161 | SMPZ-161-GW032411 | Cs-134 | Suspended | -0.02 U | 0.92 | 0.27 | 0.45 |
| PZ-161 | SMPZ-161-GW032411 | Cs-134 | Total | 0.32 | NA | 0.43 | NA |
| PZ-161 | SMPZ-161-GW032411 | Cs-137 | Filtered | 0.34 U | 1.1 | 0.33 | 0.53 |
| PZ-161 | SMPZ-161-GW032411 | Cs-137 | Suspended | -0.04 U | 0.59 | 0.17 | 0.28 |
| PZ-161 | SMPZ-161-GW032411 | Cs-137 | Total | 0.3 | NA | 0.37 | NA |
| PZ-161 | SMPZ-161-GW032411 | Eu-152 | Filtered | -0.22 U | 2.7 | 0.78 | 1.3 |
| PZ-161 | SMPZ-161-GW032411 | Eu-152 | Suspended | -0.38 U | 1.3 | 0.4 | 0.65 |
| PZ-161 | SMPZ-161-GW032411 | Eu-152 | Total | -0.6 | NA | 0.88 | NA |
| PZ-161 | SMPZ-161-GW032411 | Eu-154 | Filtered | -2 U | 9.4 | 2.8 | 4.4 |
| PZ-161 | SMPZ-161-GW032411 | Eu-154 | Suspended | -0.08 U | 4.5 | 1.3 | 2.1 |
| PZ-161 | SMPZ-161-GW032411 | Eu-154 | Total | -2.1 | NA | 3 | NA |
| PZ-161 | SMPZ-161-GW032411 | Eu-155 | Filtered | 0.08 U | 2.8 | 0.83 | 1.4 |
| PZ-161 | SMPZ-161-GW032411 | Eu-155 | Suspended | 0.22 U | 0.92 | 0.27 | 0.45 |
| PZ-161 | SMPZ-161-GW032411 | Eu-155 | Total | 0.3 | NA | 0.88 | NA |
| PZ-161 | SMPZ-161-GW032411 | gross_alpha | Filtered | 10.8 | 0.58 | 0.74 | 0.32 |
| PZ-161 | SMPZ-161-GW032411 | gross_alpha | Suspended | 0.29 | 0.37 | 0.13 | 0.19 |
| PZ-161 | SMPZ-161-GW032411 | gross_alpha | Total | 11.1 | NA | 0.75 | NA |
| PZ-161 | SMPZ-161-GW032411 | gross_beta | Filtered | 9.3 | 4.3 | 1.7 | 2.5 |
| PZ-161 | SMPZ-161-GW032411 | gross_beta | Suspended | 0.85 | 0.87 | 0.29 | 0.52 |
| PZ-161 | SMPZ-161-GW032411 | gross_beta | Total | 10.1 | NA | 1.7 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| PZ-161 | SMPZ-161-GW032411 | H-3 | Total | -72 U | 190 | 53 | 91 |
| PZ-161 | SMPZ-161-GW032411 | Ho-166m | Filtered | 0.67 U | 1.8 | 0.53 | 0.84 |
| PZ-161 | SMPZ-161-GW032411 | Ho-166m | Suspended | 0.19 U | 0.81 | 0.24 | 0.38 |
| PZ-161 | SMPZ-161-GW032411 | Ho-166m | Total | 0.86 | NA | 0.58 | NA |
| PZ-161 | SMPZ-161-GW032411 | K-40 | Filtered | 5.7 U | 17 | 4.3 | 8.1 |
| PZ-161 | SMPZ-161-GW032411 | K-40 | Suspended | 3.3 U | 7.6 | 2.2 | 3.6 |
| PZ-161 | SMPZ-161-GW032411 | K-40 | Total | 9 | NA | 4.8 | NA |
| PZ-161 | SMPZ-161-GW032411 | Na-22 | Filtered | -0.23 U | 1.2 | 0.36 | 0.58 |
| PZ-161 | SMPZ-161-GW032411 | Na-22 | Suspended | -0.02 U | 0.38 | 0.1 | 0.17 |
| PZ-161 | SMPZ-161-GW032411 | Na-22 | Total | -0.25 | NA | 0.38 | NA |
| PZ-161 | SMPZ-161-GW032411 | Nb-94 | Filtered | 0.67 K,S | 0.69 | 0.23 | 0.32 |
| PZ-161 | SMPZ-161-GW032411 | Nb-94 | Suspended | -0.14 U | 0.53 | 0.16 | 0.25 |
| PZ-161 | SMPZ-161-GW032411 | Nb-94 | Total | 0.53 | NA | 0.28 | NA |
| PZ-161 | SMPZ-161-GW032411 | Np-236 | Filtered | 0.65 U | 2.6 | 0.77 | 1.2 |
| PZ-161 | SMPZ-161-GW032411 | Np-236 | Suspended | 0.13 U | 0.77 | 0.23 | 0.37 |
| PZ-161 | SMPZ-161-GW032411 | Np-236 | Total | 0.78 | NA | 0.8 | NA |
| PZ-161 | SMPZ-161-GW032411 | Np-239 | Filtered | 1.6 U | 6.9 | 2.1 | 3.4 |
| PZ-161 | SMPZ-161-GW032411 | Np-239 | Suspended | 0.42 U | 2.9 | 0.85 | 1.4 |
| PZ-161 | SMPZ-161-GW032411 | Np-239 | Total | 2 | NA | 2.2 | NA |
| PZ-161 | SMPZ-161-GW032411 | Pa-231 | Filtered | -11 U | 53 | 16 | 26 |
| PZ-161 | SMPZ-161-GW032411 | Pa-231 | Suspended | 4.5 U | 19 | 5.7 | 9.2 |
| PZ-161 | SMPZ-161-GW032411 | Pa-231 | Total | -7 | NA | 17 | NA |
| PZ-161 | SMPZ-161-GW032411 | Pb-212 | Filtered | 0.88 U | 2.4 | 0.77 | 1.2 |
| PZ-161 | SMPZ-161-GW032411 | Pb-212 | Suspended | -0.19 U | 0.8 | 0.44 | 0.39 |
| PZ-161 | SMPZ-161-GW032411 | Pb-212 | Total | 0.69 | NA | 0.88 | NA |
| PZ-161 | SMPZ-161-GW032411 | Pb-214 | Filtered | 0.23 U | 2.7 | 0.73 | 1.3 |
| PZ-161 | SMPZ-161-GW032411 | Pb-214 | Suspended | 0.54 B | 0.97 | 0.36 | 0.46 |
| PZ-161 | SMPZ-161-GW032411 | Pb-214 | Total | 0.78 | NA | 0.81 | NA |
| PZ-161 | SMPZ-161-GW032411 | Sb-125 | Filtered | 3.3 U | 11 | 3.4 | 5.6 |
| PZ-161 | SMPZ-161-GW032411 | Sb-125 | Suspended | 0.9 U | 4.1 | 1.2 | 2 |
| PZ-161 | SMPZ-161-GW032411 | Sb-125 | Total | 4.2 | NA | 3.6 | NA |
| PZ-161 | SMPZ-161-GW032411 | Sn-126 | Filtered | 0.79 | 1.1 | 0.34 | 0.51 |
| PZ-161 | SMPZ-161-GW032411 | Sn-126 | Suspended | 0.1 U | 0.56 | 0.17 | 0.27 |
| PZ-161 | SMPZ-161-GW032411 | Sn-126 | Total | 0.9 | NA | 0.38 | NA |
| PZ-161 | SMPZ-161-GW032411 | Sr-90 | Filtered | 0.032 U | 0.079 | 0.024 | 0.045 |
| PZ-161 | SMPZ-161-GW032411 | Sr-90 | Suspended | 0.019 U | 0.072 | 0.021 | 0.041 |
| PZ-161 | SMPZ-161-GW032411 | Sr-90 | Total | 0.052 | NA | 0.032 | NA |
| PZ-161 | SMPZ-161-GW032411 | Te-125m | Filtered | 0.77 U | 2.6 | 0.79 | 1.3 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| PZ-161 | SMPZ-161-GW032411 | Te-125m | Suspended | 0.2 U | 0.94 | 0.28 | 0.45 |
| PZ-161 | SMPZ-161-GW032411 | Te-125m | Total | 0.97 | NA | 0.84 | NA |
| PZ-161 | SMPZ-161-GW032411 | Th-231 | Filtered | 0.234 | 0.008 | 0.028 | 0.006 |
| PZ-161 | SMPZ-161-GW032411 | Th-231 | Suspended | 0.0022 U | 0.0059 | 0.0022 | 0.0051 |
| PZ-161 | SMPZ-161-GW032411 | Th-231 | Total | 0.237 | NA | 0.028 | NA |
| PZ-161 | SMPZ-161-GW032411 | Th-234 | Filtered | 8.6 U | 23 | 8.2 | 11 |
| PZ-161 | SMPZ-161-GW032411 | Th-234 | Suspended | 1.7 U | 4.4 | 1.3 | 2.1 |
| PZ-161 | SMPZ-161-GW032411 | Th-234 | Total | 10.2 | NA | 8.3 | NA |
| PZ-161 | SMPZ-161-GW032411 | Tl-208 | Filtered | 0.9 | 1.5 | 0.64 | 0.72 |
| PZ-161 | SMPZ-161-GW032411 | Tl-208 | Suspended | 0.002 U | 0.55 | 0.15 | 0.26 |
| PZ-161 | SMPZ-161-GW032411 | Tl-208 | Total | 0.9 | NA | 0.66 | NA |
| PZ-161 | SMPZ-161-GW032411 | Tm-171 | Filtered | -10 U | 350 | 100 | 170 |
| PZ-161 | SMPZ-161-GW032411 | Tm-171 | Suspended | 18 U | 58 | 17 | 28 |
| PZ-161 | SMPZ-161-GW032411 | Tm-171 | Total | 8 | NA | 110 | NA |
| PZ-161 | SMPZ-161-GW032411 | U-233/234 | Filtered | 7.49 | 0.02 | 0.34 | 0.007 |
| PZ-161 | SMPZ-161-GW032411 | U-233/234 | Suspended | 0.0151 | 0.0048 | 0.0066 | 0.0037 |
| PZ-161 | SMPZ-161-GW032411 | U-233/234 | Total | 7.51 | NA | 0.34 | NA |
| PZ-161 | SMPZ-161-GW032411 | U-235/236 | Filtered | 0.234 | 0.008 | 0.028 | 0.006 |
| PZ-161 | SMPZ-161-GW032411 | U-235/236 | Suspended | 0.0022 U | 0.0059 | 0.0022 | 0.0046 |
| PZ-161 | SMPZ-161-GW032411 | U-235/236 | Total | 0.237 | NA | 0.028 | NA |
| PZ-161 | SMPZ-161-GW032411 | U-238 | Filtered | 6.03 | 0.006 | 0.28 | 0.005 |
| PZ-161 | SMPZ-161-GW032411 | U-238 | Suspended | 0.0126 | 0.012 | 0.0063 | 0.0037 |
| PZ-161 | SMPZ-161-GW032411 | U-238 | Total | 6.04 | NA | 0.28 | NA |
| RD-07 | SMRD-7-GW040411 | Ac-227 | Filtered | -5.9 R U | 5.6 | 1.8 | 2.7 |
| RD-07 | SMRD-7-GW040411 | Ac-227 | Suspended | -0.67 U | 3.1 | 0.92 | 1.5 |
| RD-07 | SMRD-7-GW040411 | Ac-227 | Total | -6.6 R | NA | 2 | NA |
| RD-07 | SMRD-7-GW040411 | Ac-228 | Filtered | 1.6 U | 3.6 | 1.1 | 1.7 |
| RD-07 | SMRD-7-GW040411 | Ac-228 | Suspended | 0.9 | 1.7 | 0.52 | 0.79 |
| RD-07 | SMRD-7-GW040411 | Ac-228 | Total | 2.5 | NA | 1.2 | NA |
| RD-07 | SMRD-7-GW040411 | Ag-108 | Filtered | -0.023 U R | 0.086 | 0.026 | 0.041 |
| RD-07 | SMRD-7-GW040411 | Ag-108 | Suspended | 0.0017 U R | 0.031 | 0.0089 | 0.015 |
| RD-07 | SMRD-7-GW040411 | Ag-108 | Total | -0.021 R | NA | 0.027 | NA |
| RD-07 | SMRD-7-GW040411 | Ag-108m | Filtered | -0.25 U R | 0.92 | 0.28 | 0.44 |
| RD-07 | SMRD-7-GW040411 | Ag-108m | Suspended | 0.019 U R | 0.33 | 0.096 | 0.16 |
| RD-07 | SMRD-7-GW040411 | Ag-108m | Total | -0.23 R | NA | 0.29 | NA |
| RD-07 | SMRD-7-GW040411 | Ba-133 | Filtered | -0.4 U R | 11 | 3.2 | 5.2 |
| RD-07 | SMRD-7-GW040411 | Ba-133 | Suspended | 0.02 U R | 3.7 | 1.1 | 1.8 |
| RD-07 | SMRD-7-GW040411 | Ba-133 | Total | -0.4 R | NA | 3.3 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-07 | SMRD-7-GW040411 | Ba-137m | Filtered | -0.4 U | 1.1 | 0.34 | 0.53 |
| RD-07 | SMRD-7-GW040411 | Ba-137m | Suspended | 0.21 U | 0.47 | 0.14 | 0.22 |
| RD-07 | SMRD-7-GW040411 | Ba-137m | Total | -0.19 | NA | 0.36 | NA |
| RD-07 | SMRD-7-GW040411 | Bi-212 | Filtered | 0.3 U | 8.9 | 2.5 | 4.3 |
| RD-07 | SMRD-7-GW040411 | Bi-212 | Suspended | 1.7 | 3.3 | 1 | 1.6 |
| RD-07 | SMRD-7-GW040411 | Bi-212 | Total | 2 | NA | 2.7 | NA |
| RD-07 | SMRD-7-GW040411 | Bi-214 | Filtered | 0.58 U | 2.6 | 0.95 | 1.2 |
| RD-07 | SMRD-7-GW040411 | Bi-214 | Suspended | 0.77 | 1.2 | 0.51 | 0.6 |
| RD-07 | SMRD-7-GW040411 | Bi-214 | Total | 1.4 | NA | 1.1 | NA |
| RD-07 | SMRD-7-GW040411 | Cd-113m | Filtered | 1300 U | 13000 | 3800 | 6300 |
| RD-07 | SMRD-7-GW040411 | Cd-113m | Suspended | 0 U | 5200 | 1500 | 2500 |
| RD-07 | SMRD-7-GW040411 | Cd-113m | Total | 1300 | NA | 4100 | NA |
| RD-07 | SMRD-7-GW040411 | Cf-249 | Filtered | -1.6 U R | 5.7 | 1.7 | 2.8 |
| RD-07 | SMRD-7-GW040411 | Cf-249 | Suspended | -0.21 U R | 2.4 | 0.7 | 1.1 |
| RD-07 | SMRD-7-GW040411 | Cf-249 | Total | -1.8 R | NA | 1.8 | NA |
| RD-07 | SMRD-7-GW040411 | Co-60 | Filtered | 0.51 | 1.1 | 0.33 | 0.5 |
| RD-07 | SMRD-7-GW040411 | Co-60 | Suspended | -0.01 U | 0.59 | 0.17 | 0.27 |
| RD-07 | SMRD-7-GW040411 | Co-60 | Total | 0.5 | NA | 0.37 | NA |
| RD-07 | SMRD-7-GW040411 | Cs-134 | Filtered | -0.29 U | 1.2 | 0.37 | 0.6 |
| RD-07 | SMRD-7-GW040411 | Cs-134 | Suspended | 0.5 | 0.57 | 0.14 | 0.27 |
| RD-07 | SMRD-7-GW040411 | Cs-134 | Total | 0.21 | NA | 0.4 | NA |
| RD-07 | SMRD-7-GW040411 | Cs-137 | Filtered | -0.42 U | 1.2 | 0.35 | 0.56 |
| RD-07 | SMRD-7-GW040411 | Cs-137 | Suspended | 0.22 U | 0.49 | 0.15 | 0.23 |
| RD-07 | SMRD-7-GW040411 | Cs-137 | Total | -0.2 | NA | 0.38 | NA |
| RD-07 | SMRD-7-GW040411 | Eu-152 | Filtered | -0.03 U | 2.9 | 0.86 | 1.4 |
| RD-07 | SMRD-7-GW040411 | Eu-152 | Suspended | 0.22 U | 1.3 | 0.39 | 0.64 |
| RD-07 | SMRD-7-GW040411 | Eu-152 | Total | 0.19 | NA | 0.95 | NA |
| RD-07 | SMRD-7-GW040411 | Eu-154 | Filtered | -0.3 U | 8.8 | 2.5 | 4.1 |
| RD-07 | SMRD-7-GW040411 | Eu-154 | Suspended | 0 U | 5.9 | 1.7 | 2.8 |
| RD-07 | SMRD-7-GW040411 | Eu-154 | Total | -0.3 | NA | 3 | NA |
| RD-07 | SMRD-7-GW040411 | Eu-155 | Filtered | -0.11 U | 2.9 | 0.87 | 1.4 |
| RD-07 | SMRD-7-GW040411 | Eu-155 | Suspended | 0.15 U | 0.96 | 0.29 | 0.47 |
| RD-07 | SMRD-7-GW040411 | Eu-155 | Total | 0.04 | NA | 0.92 | NA |
| RD-07 | SMRD-7-GW040411 | gross_alpha | Filtered | 16.5 | 0.34 | 0.96 | 0.17 |
| RD-07 | SMRD-7-GW040411 | gross_alpha | Suspended | 0.46 | 0.43 | 0.16 | 0.22 |
| RD-07 | SMRD-7-GW040411 | gross_alpha | Total | 17 | NA | 0.98 | NA |
| RD-07 | SMRD-7-GW040411 | gross_beta | Filtered | 3.54 | 2.7 | 0.98 | 1.6 |
| RD-07 | SMRD-7-GW040411 | gross_beta | Suspended | 0.76 | 0.76 | 0.25 | 0.45 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-07 | SMRD-7-GW040411 | gross_beta | Total | 4.3 | NA | 1 | NA |
| RD-07 | SMRD-7-GW040411 | H-3 | Total | 19 U | 130 | 38 | 61 |
| RD-07 | SMRD-7-GW040411 | Ho-166m | Filtered | -0.2 U | 2 | 0.58 | 0.95 |
| RD-07 | SMRD-7-GW040411 | Ho-166m | Suspended | 0.4 | 0.8 | 0.24 | 0.37 |
| RD-07 | SMRD-7-GW040411 | Ho-166m | Total | 0.2 | NA | 0.63 | NA |
| RD-07 | SMRD-7-GW040411 | K-40 | Filtered | -3.8 U | 16 | 5.4 | 7.8 |
| RD-07 | SMRD-7-GW040411 | K-40 | Suspended | -9 U | 9 | 12 | 4 |
| RD-07 | SMRD-7-GW040411 | K-40 | Total | -13 | NA | 14 | NA |
| RD-07 | SMRD-7-GW040411 | Na-22 | Filtered | 0.4 U | 1.1 | 0.31 | 0.49 |
| RD-07 | SMRD-7-GW040411 | Na-22 | Suspended | -0.07 U | 0.65 | 0.19 | 0.3 |
| RD-07 | SMRD-7-GW040411 | Na-22 | Total | 0.33 | NA | 0.37 | NA |
| RD-07 | SMRD-7-GW040411 | Nb-94 | Filtered | 0.14 U | 1.1 | 0.31 | 0.51 |
| RD-07 | SMRD-7-GW040411 | Nb-94 | Suspended | 0.32 | 0.44 | 0.14 | 0.21 |
| RD-07 | SMRD-7-GW040411 | Nb-94 | Total | 0.46 | NA | 0.34 | NA |
| RD-07 | SMRD-7-GW040411 | Np-236 | Filtered | -0.03 U | 2.6 | 0.76 | 1.3 |
| RD-07 | SMRD-7-GW040411 | Np-236 | Suspended | -0.16 U | 0.93 | 0.28 | 0.45 |
| RD-07 | SMRD-7-GW040411 | Np-236 | Total | -0.19 | NA | 0.81 | NA |
| RD-07 | SMRD-7-GW040411 | Np-239 | Filtered | 1.2 U | 6.7 | 2 | 3.3 |
| RD-07 | SMRD-7-GW040411 | Np-239 | Suspended | -1 U | 2.9 | 0.88 | 1.4 |
| RD-07 | SMRD-7-GW040411 | Np-239 | Total | 0.2 | NA | 2.2 | NA |
| RD-07 | SMRD-7-GW040411 | Pa-231 | Filtered | 19 U | 48 | 15 | 23 |
| RD-07 | SMRD-7-GW040411 | Pa-231 | Suspended | 6.6 U | 20 | 5.9 | 9.4 |
| RD-07 | SMRD-7-GW040411 | Pa-231 | Total | 26 | NA | 16 | NA |
| RD-07 | SMRD-7-GW040411 | Pb-212 | Filtered | 1.92 | 2.3 | 0.77 | 1.1 |
| RD-07 | SMRD-7-GW040411 | Pb-212 | Suspended | 0.27 U | 0.66 | 0.22 | 0.32 |
| RD-07 | SMRD-7-GW040411 | Pb-212 | Total | 2.18 | NA | 0.8 | NA |
| RD-07 | SMRD-7-GW040411 | Pb-214 | Filtered | 0.98 U | 2.4 | 0.89 | 1.1 |
| RD-07 | SMRD-7-GW040411 | Pb-214 | Suspended | 0.43 U | 0.96 | 0.36 | 0.46 |
| RD-07 | SMRD-7-GW040411 | Pb-214 | Total | 1.42 | NA | 0.96 | NA |
| RD-07 | SMRD-7-GW040411 | Sb-125 | Filtered | 0.2 U | 12 | 3.5 | 5.7 |
| RD-07 | SMRD-7-GW040411 | Sb-125 | Suspended | 0.9 U | 4.3 | 1.3 | 2.1 |
| RD-07 | SMRD-7-GW040411 | Sb-125 | Total | 1.1 | NA | 3.7 | NA |
| RD-07 | SMRD-7-GW040411 | Sn-126 | Filtered | -0.2 U | 1.3 | 0.38 | 0.62 |
| RD-07 | SMRD-7-GW040411 | Sn-126 | Suspended | 0.09 U | 0.59 | 0.17 | 0.28 |
| RD-07 | SMRD-7-GW040411 | Sn-126 | Total | -0.11 | NA | 0.42 | NA |
| RD-07 | SMRD-7-GW040411 | Sr-90 | Filtered | 0.057 | 0.097 | 0.03 | 0.055 |
| RD-07 | SMRD-7-GW040411 | Sr-90 | Suspended | -0.033 U | 0.066 | 0.018 | 0.037 |
| RD-07 | SMRD-7-GW040411 | Sr-90 | Total | 0.024 | NA | 0.035 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-07 | SMRD-7-GW040411 | Te-125m | Filtered | 0.04 U | 2.7 | 0.81 | 1.3 |
| RD-07 | SMRD-7-GW040411 | Te-125m | Suspended | 0.22 U | 1 | 0.3 | 0.49 |
| RD-07 | SMRD-7-GW040411 | Te-125m | Total | 0.25 | NA | 0.86 | NA |
| RD-07 | SMRD-7-GW040411 | Th-231 | Filtered | 0.436 | 0.007 | 0.038 | 0.006 |
| RD-07 | SMRD-7-GW040411 | Th-231 | Suspended | 0.0052 | 0.016 | 0.0045 | 0.0049 |
| RD-07 | SMRD-7-GW040411 | Th-231 | Total | 0.441 | NA | 0.039 | NA |
| RD-07 | SMRD-7-GW040411 | Th-234 | Filtered | 14.9 | 21 | 7.7 | 10 |
| RD-07 | SMRD-7-GW040411 | Th-234 | Suspended | 1.3 U | 4.9 | 1.5 | 2.4 |
| RD-07 | SMRD-7-GW040411 | Th-234 | Total | 16.2 | NA | 7.8 | NA |
| RD-07 | SMRD-7-GW040411 | Tl-208 | Filtered | 0.28 U | 1.3 | 0.48 | 0.64 |
| RD-07 | SMRD-7-GW040411 | Tl-208 | Suspended | 0.26 | 0.53 | 0.2 | 0.25 |
| RD-07 | SMRD-7-GW040411 | Tl-208 | Total | 0.54 | NA | 0.52 | NA |
| RD-07 | SMRD-7-GW040411 | Tm-171 | Filtered | -54 U | 260 | 77 | 130 |
| RD-07 | SMRD-7-GW040411 | Tm-171 | Suspended | 5 U | 86 | 25 | 42 |
| RD-07 | SMRD-7-GW040411 | Tm-171 | Total | -48 | NA | 81 | NA |
| RD-07 | SMRD-7-GW040411 | U-233/234 | Filtered | 11 | 0.01 | 0.49 | 0.004 |
| RD-07 | SMRD-7-GW040411 | U-233/234 | Suspended | 0.0181 | 0.013 | 0.0078 | 0.0039 |
| RD-07 | SMRD-7-GW040411 | U-233/234 | Total | 11 | NA | 0.49 | NA |
| RD-07 | SMRD-7-GW040411 | U-235/236 | Filtered | 0.435 | 0.007 | 0.038 | 0.005 |
| RD-07 | SMRD-7-GW040411 | U-235/236 | Suspended | 0.0052 | 0.016 | 0.0045 | 0.0049 |
| RD-07 | SMRD-7-GW040411 | U-235/236 | Total | 0.44 | NA | 0.038 | NA |
| RD-07 | SMRD-7-GW040411 | U-238 | Filtered | 8.76 | 0.006 | 0.39 | 0.004 |
| RD-07 | SMRD-7-GW040411 | U-238 | Suspended | 0.028 | 0.0051 | 0.0083 | 0.0039 |
| RD-07 | SMRD-7-GW040411 | U-238 | Total | 8.79 | NA | 0.39 | NA |
| RD-13 | SMRD-13-GW032911 | Ac-227 | Filtered | -6.3 L U | 9.9 | 3 | 4.8 |
| RD-13 | SMRD-13-GW032911 | Ac-227 | Suspended | -0.66 U | 3 | 0.89 | 1.4 |
| RD-13 | SMRD-13-GW032911 | Ac-227 | Total | -7 L | NA | 3.2 | NA |
| RD-13 | SMRD-13-GW032911 | Ac-228 | Filtered | 2.7 | 3.4 | 1.1 | 1.6 |
| RD-13 | SMRD-13-GW032911 | Ac-228 | Suspended | 1.59 | 1.7 | 0.54 | 0.77 |
| RD-13 | SMRD-13-GW032911 | Ac-228 | Total | 4.3 | NA | 1.2 | NA |
| RD-13 | SMRD-13-GW032911 | Ag-108 | Filtered | 0.034 U R | 0.086 | 0.026 | 0.041 |
| RD-13 | SMRD-13-GW032911 | Ag-108 | Suspended | 0.009 U R | 0.038 | 0.011 | 0.018 |
| RD-13 | SMRD-13-GW032911 | Ag-108 | Total | 0.043 R | NA | 0.028 | NA |
| RD-13 | SMRD-13-GW032911 | Ag-108m | Filtered | 0.36 U R | 0.92 | 0.28 | 0.44 |
| RD-13 | SMRD-13-GW032911 | Ag-108m | Suspended | 0.1 U R | 0.41 | 0.12 | 0.2 |
| RD-13 | SMRD-13-GW032911 | Ag-108m | Total | 0.46 R | NA | 0.3 | NA |
| RD-13 | SMRD-13-GW032911 | Am-241 | Filtered | 0.009 | 0.017 | 0.0055 | 0.0052 |
| RD-13 | SMRD-13-GW032911 | Am-241 | Suspended | 0.0006 U | 0.013 | 0.003 | 0.0046 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-13 | SMRD-13-GW032911 | Am-241 | Total | 0.0096 | NA | 0.0063 | NA |
| RD-13 | SMRD-13-GW032911 | Ba-133 | Filtered | -0.3 U R | 11 | 3.4 | 5.5 |
| RD-13 | SMRD-13-GW032911 | Ba-133 | Suspended | -0.3 U R | 4.6 | 1.3 | 2.2 |
| RD-13 | SMRD-13-GW032911 | Ba-133 | Total | -0.7 R | NA | 3.6 | NA |
| RD-13 | SMRD-13-GW032911 | Ba-137m | Filtered | 0.47 U | 1.1 | 0.33 | 0.52 |
| RD-13 | SMRD-13-GW032911 | Ba-137m | Suspended | 0.12 U | 0.48 | 0.14 | 0.23 |
| RD-13 | SMRD-13-GW032911 | Ba-137m | Total | 0.59 | NA | 0.36 | NA |
| RD-13 | SMRD-13-GW032911 | Bi-212 | Filtered | -1.1 U | 9.8 | 4.4 | 4.7 |
| RD-13 | SMRD-13-GW032911 | Bi-212 | Suspended | -0.9 U | 4.3 | 1.3 | 2 |
| RD-13 | SMRD-13-GW032911 | Bi-212 | Total | -2.1 | NA | 4.6 | NA |
| RD-13 | SMRD-13-GW032911 | Bi-214 | Filtered | 1.1 U | 2.5 | 0.77 | 1.2 |
| RD-13 | SMRD-13-GW032911 | Bi-214 | Suspended | 1.2 | 1.1 | 0.43 | 0.54 |
| RD-13 | SMRD-13-GW032911 | Bi-214 | Total | 2.3 | NA | 0.88 | NA |
| RD-13 | SMRD-13-GW032911 | C-14 | Total | 0.88 U R | 2.1 | 0.66 | 1 |
| RD-13 | SMRD-13-GW032911 | Cd-113m | Filtered | -2400 U | 14000 | 4200 | 6800 |
| RD-13 | SMRD-13-GW032911 | Cd-113m | Suspended | -500 U | 5500 | 1600 | 2700 |
| RD-13 | SMRD-13-GW032911 | Cd-113m | Total | -2900 | NA | 4500 | NA |
| RD-13 | SMRD-13-GW032911 | Cf-249 | Filtered | 0.4 U R | 5.7 | 1.7 | 2.8 |
| RD-13 | SMRD-13-GW032911 | Cf-249 | Suspended | 0.62 U R | 2 | 0.6 | 0.95 |
| RD-13 | SMRD-13-GW032911 | Cf-249 | Total | 1.1 R | NA | 1.8 | NA |
| RD-13 | SMRD-13-GW032911 | Cm-243/244 | Filtered | -0.0044 U | 0.033 | 0.0076 | 0.014 |
| RD-13 | SMRD-13-GW032911 | Cm-243/244 | Suspended | 0.0003 U | 0.01 | 0.0021 | 0.0032 |
| RD-13 | SMRD-13-GW032911 | Cm-243/244 | Total | -0.0041 | NA | 0.0079 | NA |
| RD-13 | SMRD-13-GW032911 | Cm-245/246 | Filtered | 0.0046 U J | 0.0063 | 0.0033 | 0.0054 |
| RD-13 | SMRD-13-GW032911 | Cm-245/246 | Suspended | 0.0149 | 0.022 | 0.0076 | 0.0081 |
| RD-13 | SMRD-13-GW032911 | Cm-245/246 | Total | 0.0195 J | NA | 0.0083 | NA |
| RD-13 | SMRD-13-GW032911 | Co-60 | Filtered | 0 U | 1.2 | 0.33 | 0.55 |
| RD-13 | SMRD-13-GW032911 | Co-60 | Suspended | -0.08 U | 0.6 | 0.17 | 0.27 |
| RD-13 | SMRD-13-GW032911 | Co-60 | Total | -0.08 | NA | 0.38 | NA |
| RD-13 | SMRD-13-GW032911 | Cs-134 | Filtered | 0.04 U | 1.1 | 0.33 | 0.55 |
| RD-13 | SMRD-13-GW032911 | Cs-134 | Suspended | 0.06 U | 0.42 | 0.12 | 0.2 |
| RD-13 | SMRD-13-GW032911 | Cs-134 | Total | 0.1 | NA | 0.35 | NA |
| RD-13 | SMRD-13-GW032911 | Cs-137 | Filtered | 0.49 U | 1.2 | 0.35 | 0.55 |
| RD-13 | SMRD-13-GW032911 | Cs-137 | Suspended | 0.13 U | 0.51 | 0.15 | 0.24 |
| RD-13 | SMRD-13-GW032911 | Cs-137 | Total | 0.62 | NA | 0.38 | NA |
| RD-13 | SMRD-13-GW032911 | Eu-152 | Filtered | 0.85 U | 3.2 | 0.95 | 1.5 |
| RD-13 | SMRD-13-GW032911 | Eu-152 | Suspended | 0.21 U | 1.4 | 0.41 | 0.66 |
| RD-13 | SMRD-13-GW032911 | Eu-152 | Total | 1.1 | NA | 1 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-13 | SMRD-13-GW032911 | Eu-154 | Filtered | -1.3 U | 9.3 | 2.7 | 4.4 |
| RD-13 | SMRD-13-GW032911 | Eu-154 | Suspended | 0.2 U | 4 | 1.1 | 1.9 |
| RD-13 | SMRD-13-GW032911 | Eu-154 | Total | -1.1 | NA | 3 | NA |
| RD-13 | SMRD-13-GW032911 | Eu-155 | Filtered | 0.17 U | 2.9 | 0.87 | 1.4 |
| RD-13 | SMRD-13-GW032911 | Eu-155 | Suspended | -0.17 U | 0.98 | 0.29 | 0.48 |
| RD-13 | SMRD-13-GW032911 | Eu-155 | Total | -0.0002 | NA | 0.92 | NA |
| RD-13 | SMRD-13-GW032911 | gross_alpha | Filtered | 5.68 J | 0.58 | 0.53 | 0.31 |
| RD-13 | SMRD-13-GW032911 | gross_alpha | Suspended | 0.32 | 0.43 | 0.15 | 0.22 |
| RD-13 | SMRD-13-GW032911 | gross_alpha | Total | 6 J | NA | 0.55 | NA |
| RD-13 | SMRD-13-GW032911 | gross_beta | Filtered | 5.09 R | 1.2 | 0.59 | 0.71 |
| RD-13 | SMRD-13-GW032911 | gross_beta | Suspended | -0.37 U | 0.86 | 0.23 | 0.51 |
| RD-13 | SMRD-13-GW032911 | gross_beta | Total | 4.72 R | NA | 0.64 | NA |
| RD-13 | SMRD-13-GW032911 | H-3 | Total | -7 U | 120 | 36 | 59 |
| RD-13 | SMRD-13-GW032911 | Ho-166m | Filtered | 0.32 U | 1.9 | 0.57 | 0.92 |
| RD-13 | SMRD-13-GW032911 | Ho-166m | Suspended | -0.12 U | 0.91 | 0.26 | 0.43 |
| RD-13 | SMRD-13-GW032911 | Ho-166m | Total | 0.2 | NA | 0.62 | NA |
| RD-13 | SMRD-13-GW032911 | I-129 | Filtered | -0.06 U | 0.66 | 0.2 | 0.33 |
| RD-13 | SMRD-13-GW032911 | I-129 | Suspended | 0.1 U | 0.48 | 0.14 | 0.24 |
| RD-13 | SMRD-13-GW032911 | I-129 | Total | 0.04 | NA | 0.24 | NA |
| RD-13 | SMRD-13-GW032911 | K-40 | Filtered | 1 U | 16 | 4.7 | 7.4 |
| RD-13 | SMRD-13-GW032911 | K-40 | Suspended | -3.2 U | 8.5 | 3.2 | 4 |
| RD-13 | SMRD-13-GW032911 | K-40 | Total | -2.2 | NA | 5.7 | NA |
| RD-13 | SMRD-13-GW032911 | Na-22 | Filtered | -0.005 U | 1.1 | 0.31 | 0.5 |
| RD-13 | SMRD-13-GW032911 | Na-22 | Suspended | 0.008 U | 0.61 | 0.17 | 0.28 |
| RD-13 | SMRD-13-GW032911 | Na-22 | Total | 0.002 | NA | 0.35 | NA |
| RD-13 | SMRD-13-GW032911 | Nb-94 | Filtered | 0.1 U | 1 | 0.3 | 0.49 |
| RD-13 | SMRD-13-GW032911 | Nb-94 | Suspended | -0.003 U | 0.53 | 0.15 | 0.25 |
| RD-13 | SMRD-13-GW032911 | Nb-94 | Total | 0.1 | NA | 0.34 | NA |
| RD-13 | SMRD-13-GW032911 | Np-236 | Filtered | 0.47 U | 2.7 | 0.8 | 1.3 |
| RD-13 | SMRD-13-GW032911 | Np-236 | Suspended | -0.17 U | 0.92 | 0.27 | 0.45 |
| RD-13 | SMRD-13-GW032911 | Np-236 | Total | 0.29 | NA | 0.85 | NA |
| RD-13 | SMRD-13-GW032911 | Np-237 | Filtered | 0.0021 U | 0.023 | 0.0046 | 0.0053 |
| RD-13 | SMRD-13-GW032911 | Np-237 | Suspended | -0.0018 U | 0.02 | 0.0018 | 0.0053 |
| RD-13 | SMRD-13-GW032911 | Np-237 | Total | 0.0003 | NA | 0.0049 | NA |
| RD-13 | SMRD-13-GW032911 | Np-239 | Filtered | 0.7 U | 7.2 | 2.1 | 3.5 |
| RD-13 | SMRD-13-GW032911 | Np-239 | Suspended | 0.16 U | 2.8 | 0.82 | 1.3 |
| RD-13 | SMRD-13-GW032911 | Np-239 | Total | 0.8 | NA | 2.3 | NA |
| RD-13 | SMRD-13-GW032911 | Pa-231 | Filtered | -8 U | 55 | 16 | 26 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-13 | SMRD-13-GW032911 | Pa-231 | Suspended | 8.9 | 16 | 4.9 | 7.6 |
| RD-13 | SMRD-13-GW032911 | Pa-231 | Total | 1 | NA | 17 | NA |
| RD-13 | SMRD-13-GW032911 | Pb-212 | Filtered | 0.32 U | 2.6 | 0.93 | 1.3 |
| RD-13 | SMRD-13-GW032911 | Pb-212 | Suspended | -0.05 U | 0.87 | 0.29 | 0.42 |
| RD-13 | SMRD-13-GW032911 | Pb-212 | Total | 0.28 | NA | 0.97 | NA |
| RD-13 | SMRD-13-GW032911 | Pb-214 | Filtered | 1.5 | 2.6 | 1 | 1.2 |
| RD-13 | SMRD-13-GW032911 | Pb-214 | Suspended | 0.49 | 0.86 | 0.27 | 0.41 |
| RD-13 | SMRD-13-GW032911 | Pb-214 | Total | 2 | NA | 1 | NA |
| RD-13 | SMRD-13-GW032911 | Pu-238 | Filtered | 0.0023 U | 0.021 | 0.0051 | 0.0075 |
| RD-13 | SMRD-13-GW032911 | Pu-238 | Suspended | 0.0025 U | 0.015 | 0.0039 | 0.0053 |
| RD-13 | SMRD-13-GW032911 | Pu-238 | Total | 0.0048 | NA | 0.0064 | NA |
| RD-13 | SMRD-13-GW032911 | Pu-239/240 | Filtered | 0.0068 | 0.0061 | 0.0039 | 0.0053 |
| RD-13 | SMRD-13-GW032911 | Pu-239/240 | Suspended | -0.0011 U | 0.015 | 0.0029 | 0.0053 |
| RD-13 | SMRD-13-GW032911 | Pu-239/240 | Total | 0.0057 | NA | 0.0049 | NA |
| RD-13 | SMRD-13-GW032911 | Pu-242 | Filtered | -0.0023 U | 0.017 | 0.0023 | 0.0053 |
| RD-13 | SMRD-13-GW032911 | Pu-242 | Suspended | -0.0036 U | 0.021 | 0.0044 | 0.0084 |
| RD-13 | SMRD-13-GW032911 | Pu-242 | Total | -0.0059 | NA | 0.005 | NA |
| RD-13 | SMRD-13-GW032911 | Ra-226 | Filtered | 1.05 | 0.099 | 0.092 | 0.053 |
| RD-13 | SMRD-13-GW032911 | Ra-226 | Suspended | 0.038 U | 0.22 | 0.061 | 0.12 |
| RD-13 | SMRD-13-GW032911 | Ra-226 | Total | 1.09 | NA | 0.11 | NA |
| RD-13 | SMRD-13-GW032911 | Sb-125 | Filtered | -1.1 U | 12 | 3.6 | 5.9 |
| RD-13 | SMRD-13-GW032911 | Sb-125 | Suspended | -1.9 U | 4.5 | 1.4 | 2.2 |
| RD-13 | SMRD-13-GW032911 | Sb-125 | Total | -3 | NA | 3.8 | NA |
| RD-13 | SMRD-13-GW032911 | Sn-126 | Filtered | 0 U | 1.4 | 0.4 | 0.65 |
| RD-13 | SMRD-13-GW032911 | Sn-126 | Suspended | 0.36 | 0.57 | 0.18 | 0.27 |
| RD-13 | SMRD-13-GW032911 | Sn-126 | Total | 0.36 | NA | 0.43 | NA |
| RD-13 | SMRD-13-GW032911 | Sr-90 | Filtered | 0.054 U | 0.12 | 0.035 | 0.066 |
| RD-13 | SMRD-13-GW032911 | Sr-90 | Suspended | 0.008 U | 0.068 | 0.019 | 0.04 |
| RD-13 | SMRD-13-GW032911 | Sr-90 | Total | 0.062 | NA | 0.04 | NA |
| RD-13 | SMRD-13-GW032911 | Tc-99 | Filtered | -0.22 U | 1.2 | 0.37 | 0.61 |
| RD-13 | SMRD-13-GW032911 | Tc-99 | Suspended | -0.17 U | 1.5 | 0.46 | 0.75 |
| RD-13 | SMRD-13-GW032911 | Tc-99 | Total | -0.39 | NA | 0.59 | NA |
| RD-13 | SMRD-13-GW032911 | Te-125m | Filtered | -0.25 U | 2.8 | 0.83 | 1.4 |
| RD-13 | SMRD-13-GW032911 | Te-125m | Suspended | -0.44 U | 1 | 0.32 | 0.51 |
| RD-13 | SMRD-13-GW032911 | Te-125m | Total | -0.69 | NA | 0.89 | NA |
| RD-13 | SMRD-13-GW032911 | Th-231 | Filtered | 0.123 | 0.008 | 0.019 | 0.006 |
| RD-13 | SMRD-13-GW032911 | Th-231 | Suspended | 0.0023 U | 0.0063 | 0.0023 | 0.0049 |
| RD-13 | SMRD-13-GW032911 | Th-231 | Total | 0.125 | NA | 0.02 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-13 | SMRD-13-GW032911 | Th-234 | Filtered | 18.5 | 22 | 8 | 11 |
| RD-13 | SMRD-13-GW032911 | Th-234 | Suspended | 0.8 U | 4.8 | 1.4 | 2.3 |
| RD-13 | SMRD-13-GW032911 | Th-234 | Total | 19.3 | NA | 8.2 | NA |
| RD-13 | SMRD-13-GW032911 | Tl-208 | Filtered | 0.38 U | 1.4 | 0.51 | 0.68 |
| RD-13 | SMRD-13-GW032911 | Tl-208 | Suspended | -0.17 U | 0.64 | 0.42 | 0.31 |
| RD-13 | SMRD-13-GW032911 | Tl-208 | Total | 0.2 | NA | 0.66 | NA |
| RD-13 | SMRD-13-GW032911 | Tm-171 | Filtered | 24 U | 310 | 91 | 150 |
| RD-13 | SMRD-13-GW032911 | Tm-171 | Suspended | 11 U | 64 | 19 | 31 |
| RD-13 | SMRD-13-GW032911 | Tm-171 | Total | 36 | NA | 93 | NA |
| RD-13 | SMRD-13-GW032911 | U-233/234 | Filtered | 2.57 | 0.02 | 0.13 | 0.007 |
| RD-13 | SMRD-13-GW032911 | U-233/234 | Suspended | 0 U | 0.018 | 0.0059 | 0.0068 |
| RD-13 | SMRD-13-GW032911 | U-233/234 | Total | 2.57 | NA | 0.13 | NA |
| RD-13 | SMRD-13-GW032911 | U-235/236 | Filtered | 0.123 | 0.008 | 0.019 | 0.006 |
| RD-13 | SMRD-13-GW032911 | U-235/236 | Suspended | 0.0023 U | 0.0063 | 0.0023 | 0.0049 |
| RD-13 | SMRD-13-GW032911 | U-235/236 | Total | 0.125 | NA | 0.02 | NA |
| RD-13 | SMRD-13-GW032911 | U-238 | Filtered | 2.06 | 0.006 | 0.11 | 0.005 |
| RD-13 | SMRD-13-GW032911 | U-238 | Suspended | -0.0018 U | 0.013 | 0.004 | 0.0039 |
| RD-13 | SMRD-13-GW032911 | U-238 | Total | 2.06 | NA | 0.11 | NA |
| RD-14 | SMRD-14-GW032111 | Ac-227 | Filtered | -1.9 U | 8.3 | 2.5 | 4 |
| RD-14 | SMRD-14-GW032111 | Ac-227 | Suspended | -3.5 L U | 4.8 | 1.5 | 2.3 |
| RD-14 | SMRD-14-GW032111 | Ac-227 | Total | -5.4 | NA | 2.9 | NA |
| RD-14 | SMRD-14-GW032111 | Ac-228 | Filtered | 2.1 | 4.1 | 1.2 | 1.9 |
| RD-14 | SMRD-14-GW032111 | Ac-228 | Suspended | -0.6 U | 2.8 | 1.2 | 1.3 |
| RD-14 | SMRD-14-GW032111 | Ac-228 | Total | 1.5 | NA | 1.7 | NA |
| RD-14 | SMRD-14-GW032111 | Ag-108 | Filtered | -0.016 U R | 0.11 | 0.031 | 0.05 |
| RD-14 | SMRD-14-GW032111 | Ag-108 | Suspended | -0.003 U R | 0.049 | 0.014 | 0.023 |
| RD-14 | SMRD-14-GW032111 | Ag-108 | Total | -0.019 R | NA | 0.034 | NA |
| RD-14 | SMRD-14-GW032111 | Ag-108m | Filtered | -0.18 U R | 1.1 | 0.33 | 0.54 |
| RD-14 | SMRD-14-GW032111 | Ag-108m | Suspended | -0.03 U R | 0.52 | 0.15 | 0.25 |
| RD-14 | SMRD-14-GW032111 | Ag-108m | Total | -0.2 R | NA | 0.37 | NA |
| RD-14 | SMRD-14-GW032111 | Ba-133 | Filtered | -3.5 U R | 12 | 3.7 | 5.9 |
| RD-14 | SMRD-14-GW032111 | Ba-133 | Suspended | -1.5 U R | 6 | 1.8 | 2.9 |
| RD-14 | SMRD-14-GW032111 | Ba-133 | Total | -5 R | NA | 4.1 | NA |
| RD-14 | SMRD-14-GW032111 | Ba-137m | Filtered | 0.03 U | 1.4 | 0.39 | 0.64 |
| RD-14 | SMRD-14-GW032111 | Ba-137m | Suspended | 0.22 U | 0.6 | 0.18 | 0.29 |
| RD-14 | SMRD-14-GW032111 | Ba-137m | Total | 0.25 | NA | 0.43 | NA |
| RD-14 | SMRD-14-GW032111 | Bi-212 | Filtered | -0.2 U | 10 | 2.9 | 4.8 |
| RD-14 | SMRD-14-GW032111 | Bi-212 | Suspended | 2.8 | 5.5 | 1.7 | 2.6 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-14 | SMRD-14-GW032111 | Bi-212 | Total | 2.6 | NA | 3.4 | NA |
| RD-14 | SMRD-14-GW032111 | Bi-214 | Filtered | 1.86 | 2.5 | 0.79 | 1.2 |
| RD-14 | SMRD-14-GW032111 | Bi-214 | Suspended | 0.14 U | 1.7 | 0.63 | 0.83 |
| RD-14 | SMRD-14-GW032111 | Bi-214 | Total | 2 | NA | 1 | NA |
| RD-14 | SMRD-14-GW032111 | Cd-113m | Filtered | 1300 U | 13000 | 3800 | 6200 |
| RD-14 | SMRD-14-GW032111 | Cd-113m | Suspended | 0 U | 7000 | 2100 | 3400 |
| RD-14 | SMRD-14-GW032111 | Cd-113m | Total | 1300 | NA | 4400 | NA |
| RD-14 | SMRD-14-GW032111 | Cf-249 | Filtered | -0.2 U R | 6.8 | 2 | 3.2 |
| RD-14 | SMRD-14-GW032111 | Cf-249 | Suspended | 1.14 U R | 2.6 | 0.8 | 1.3 |
| RD-14 | SMRD-14-GW032111 | Cf-249 | Total | 1 R | NA | 2.1 | NA |
| RD-14 | SMRD-14-GW032111 | Co-60 | Filtered | -0.002 U | 1.5 | 0.42 | 0.7 |
| RD-14 | SMRD-14-GW032111 | Co-60 | Suspended | -0.005 U | 0.65 | 0.18 | 0.3 |
| RD-14 | SMRD-14-GW032111 | Co-60 | Total | -0.007 | NA | 0.46 | NA |
| RD-14 | SMRD-14-GW032111 | Cs-134 | Filtered | 0.22 U | 1 | 0.29 | 0.46 |
| RD-14 | SMRD-14-GW032111 | Cs-134 | Suspended | 0.07 U | 0.63 | 0.18 | 0.3 |
| RD-14 | SMRD-14-GW032111 | Cs-134 | Total | 0.29 | NA | 0.35 | NA |
| RD-14 | SMRD-14-GW032111 | Cs-137 | Filtered | 0.03 U | 1.4 | 0.41 | 0.68 |
| RD-14 | SMRD-14-GW032111 | Cs-137 | Suspended | 0.23 U | 0.64 | 0.19 | 0.3 |
| RD-14 | SMRD-14-GW032111 | Cs-137 | Total | 0.26 | NA | 0.45 | NA |
| RD-14 | SMRD-14-GW032111 | Eu-152 | Filtered | 1.36 U | 3.2 | 0.96 | 1.5 |
| RD-14 | SMRD-14-GW032111 | Eu-152 | Suspended | 0 U | 1.8 | 0.53 | 0.88 |
| RD-14 | SMRD-14-GW032111 | Eu-152 | Total | 1.4 | NA | 1.1 | NA |
| RD-14 | SMRD-14-GW032111 | Eu-154 | Filtered | -1.9 U | 13 | 3.6 | 5.9 |
| RD-14 | SMRD-14-GW032111 | Eu-154 | Suspended | -1.1 U | 6.2 | 1.8 | 2.9 |
| RD-14 | SMRD-14-GW032111 | Eu-154 | Total | -3 | NA | 4.1 | NA |
| RD-14 | SMRD-14-GW032111 | Eu-155 | Filtered | 0.53 U | 2.9 | 0.87 | 1.4 |
| RD-14 | SMRD-14-GW032111 | Eu-155 | Suspended | 0.23 U | 1.2 | 0.36 | 0.58 |
| RD-14 | SMRD-14-GW032111 | Eu-155 | Total | 0.75 | NA | 0.94 | NA |
| RD-14 | SMRD-14-GW032111 | gross_alpha | Filtered | 3.91 | 0.36 | 0.39 | 0.18 |
| RD-14 | SMRD-14-GW032111 | gross_alpha | Suspended | 0.22 U | 0.52 | 0.16 | 0.28 |
| RD-14 | SMRD-14-GW032111 | gross_alpha | Total | 4.13 | NA | 0.42 | NA |
| RD-14 | SMRD-14-GW032111 | gross_beta | Filtered | 3.84 | 2.7 | 0.99 | 1.6 |
| RD-14 | SMRD-14-GW032111 | gross_beta | Suspended | 0.52 | 0.78 | 0.25 | 0.46 |
| RD-14 | SMRD-14-GW032111 | gross_beta | Total | 4.4 | NA | 1 | NA |
| RD-14 | SMRD-14-GW032111 | H-3 | Total | 52 U | 140 | 43 | 69 |
| RD-14 | SMRD-14-GW032111 | Ho-166m | Filtered | -0.22 U | 2.1 | 0.59 | 0.96 |
| RD-14 | SMRD-14-GW032111 | Ho-166m | Suspended | -0.005 U | 1.1 | 0.32 | 0.52 |
| RD-14 | SMRD-14-GW032111 | Ho-166m | Total | -0.23 | NA | 0.67 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-14 | SMRD-14-GW032111 | K-40 | Filtered | -4.6 U | 20 | 9.1 | 9.5 |
| RD-14 | SMRD-14-GW032111 | K-40 | Suspended | 2.1 U | 12 | 3.2 | 5.7 |
| RD-14 | SMRD-14-GW032111 | K-40 | Total | -2.5 | NA | 9.7 | NA |
| RD-14 | SMRD-14-GW032111 | Na-22 | Filtered | -0.29 U | 1.6 | 0.46 | 0.72 |
| RD-14 | SMRD-14-GW032111 | Na-22 | Suspended | -0.08 U | 0.75 | 0.22 | 0.35 |
| RD-14 | SMRD-14-GW032111 | Na-22 | Total | -0.37 | NA | 0.5 | NA |
| RD-14 | SMRD-14-GW032111 | Nb-94 | Filtered | -0.16 U | 1.3 | 0.37 | 0.6 |
| RD-14 | SMRD-14-GW032111 | Nb-94 | Suspended | -0.06 U | 0.7 | 0.21 | 0.34 |
| RD-14 | SMRD-14-GW032111 | Nb-94 | Total | -0.23 | NA | 0.42 | NA |
| RD-14 | SMRD-14-GW032111 | Np-236 | Filtered | -0.8 U | 2.5 | 0.75 | 1.2 |
| RD-14 | SMRD-14-GW032111 | Np-236 | Suspended | -0.1 U | 1.2 | 0.36 | 0.59 |
| RD-14 | SMRD-14-GW032111 | Np-236 | Total | -0.9 | NA | 0.83 | NA |
| RD-14 | SMRD-14-GW032111 | Np-239 | Filtered | -1.7 U | 6.7 | 2 | 3.2 |
| RD-14 | SMRD-14-GW032111 | Np-239 | Suspended | -1 U | 3.9 | 1.2 | 1.9 |
| RD-14 | SMRD-14-GW032111 | Np-239 | Total | -2.7 | NA | 2.3 | NA |
| RD-14 | SMRD-14-GW032111 | Pa-231 | Filtered | 7 U | 56 | 16 | 27 |
| RD-14 | SMRD-14-GW032111 | Pa-231 | Suspended | -3.8 U | 28 | 8.3 | 13 |
| RD-14 | SMRD-14-GW032111 | Pa-231 | Total | 3 | NA | 18 | NA |
| RD-14 | SMRD-14-GW032111 | Pb-212 | Filtered | 1.63 | 2.1 | 0.74 | 1 |
| RD-14 | SMRD-14-GW032111 | Pb-212 | Suspended | 0.35 U | 1.2 | 0.4 | 0.57 |
| RD-14 | SMRD-14-GW032111 | Pb-212 | Total | 1.97 | NA | 0.84 | NA |
| RD-14 | SMRD-14-GW032111 | Pb-214 | Filtered | 4.8 | 2.2 | 1.1 | 1 |
| RD-14 | SMRD-14-GW032111 | Pb-214 | Suspended | -0.56 U | 1.4 | 0.66 | 0.68 |
| RD-14 | SMRD-14-GW032111 | Pb-214 | Total | 4.2 | NA | 1.3 | NA |
| RD-14 | SMRD-14-GW032111 | Sb-125 | Filtered | -2.7 U | 12 | 3.7 | 6 |
| RD-14 | SMRD-14-GW032111 | Sb-125 | Suspended | 0.5 U | 5.3 | 1.6 | 2.6 |
| RD-14 | SMRD-14-GW032111 | Sb-125 | Total | -2.2 | NA | 4 | NA |
| RD-14 | SMRD-14-GW032111 | Sn-126 | Filtered | 0 U | 1.4 | 0.4 | 0.65 |
| RD-14 | SMRD-14-GW032111 | Sn-126 | Suspended | 0.2 U | 0.78 | 0.23 | 0.37 |
| RD-14 | SMRD-14-GW032111 | Sn-126 | Total | 0.2 | NA | 0.46 | NA |
| RD-14 | SMRD-14-GW032111 | Sr-90 | Filtered | 0.086 | 0.07 | 0.023 | 0.04 |
| RD-14 | SMRD-14-GW032111 | Sr-90 | Suspended | -0.013 U | 0.11 | 0.03 | 0.061 |
| RD-14 | SMRD-14-GW032111 | Sr-90 | Total | -0.013 | NA | 0.03 | NA |
| RD-14 | SMRD-14-GW032111 | Te-125m | Filtered | -0.63 U | 2.9 | 0.85 | 1.4 |
| RD-14 | SMRD-14-GW032111 | Te-125m | Suspended | 0.12 U | 1.2 | 0.36 | 0.59 |
| RD-14 | SMRD-14-GW032111 | Te-125m | Total | -0.51 | NA | 0.93 | NA |
| RD-14 | SMRD-14-GW032111 | Th-231 | Filtered | 0.116 | 0.007 | 0.019 | 0.006 |
| RD-14 | SMRD-14-GW032111 | Th-231 | Suspended | 0.001 U | 0.032 | 0.0061 | 0.0099 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-14 | SMRD-14-GW032111 | Th-231 | Total | 0.117 | NA | 0.02 | NA |
| RD-14 | SMRD-14-GW032111 | Th-234 | Filtered | 11.2 | 22 | 7.3 | 11 |
| RD-14 | SMRD-14-GW032111 | Th-234 | Suspended | 3 U | 9 | 3.2 | 4.4 |
| RD-14 | SMRD-14-GW032111 | Th-234 | Total | 14.1 | NA | 8 | NA |
| RD-14 | SMRD-14-GW032111 | Tl-208 | Filtered | 0.11 U | 1.6 | 0.43 | 0.76 |
| RD-14 | SMRD-14-GW032111 | Tl-208 | Suspended | 0.0009 U | 0.77 | 0.26 | 0.37 |
| RD-14 | SMRD-14-GW032111 | Tl-208 | Total | 0.11 | NA | 0.51 | NA |
| RD-14 | SMRD-14-GW032111 | Tm-171 | Filtered | 28 U | 310 | 92 | 150 |
| RD-14 | SMRD-14-GW032111 | Tm-171 | Suspended | 0 U | 110 | 34 | 56 |
| RD-14 | SMRD-14-GW032111 | Tm-171 | Total | 28 | NA | 98 | NA |
| RD-14 | SMRD-14-GW032111 | U-233/234 | Filtered | 3.11 | 0.01 | 0.15 | 0.005 |
| RD-14 | SMRD-14-GW032111 | U-233/234 | Suspended | 0.011 | 0.01 | 0.011 | 0.008 |
| RD-14 | SMRD-14-GW032111 | U-233/234 | Total | 3.12 | NA | 0.16 | NA |
| RD-14 | SMRD-14-GW032111 | U-235/236 | Filtered | 0.116 | 0.007 | 0.019 | 0.006 |
| RD-14 | SMRD-14-GW032111 | U-235/236 | Suspended | 0.001 U | 0.032 | 0.0061 | 0.0099 |
| RD-14 | SMRD-14-GW032111 | U-235/236 | Total | 0.117 | NA | 0.02 | NA |
| RD-14 | SMRD-14-GW032111 | U-238 | Filtered | 2.72 | 0.01 | 0.14 | 0.005 |
| RD-14 | SMRD-14-GW032111 | U-238 | Suspended | 0.025 | 0.032 | 0.014 | 0.011 |
| RD-14 | SMRD-14-GW032111 | U-238 | Total | 2.74 | NA | 0.14 | NA |
| RD-15 | SMRD-15-GW032911 | Ac-227 | Filtered | -9.1 L U | 10 | 3.1 | 4.9 |
| RD-15 | SMRD-15-GW032911 | Ac-227 | Suspended | 0 U | 5.2 | 1.6 | 2.6 |
| RD-15 | SMRD-15-GW032911 | Ac-227 | Total | -9.1 L | NA | 3.5 | NA |
| RD-15 | SMRD-15-GW032911 | Ac-228 | Filtered | 2 | 3.5 | 1.1 | 1.7 |
| RD-15 | SMRD-15-GW032911 | Ac-228 | Suspended | -0.15 U | 2.9 | 0.82 | 1.4 |
| RD-15 | SMRD-15-GW032911 | Ac-228 | Total | 1.9 | NA | 1.4 | NA |
| RD-15 | SMRD-15-GW032911 | Ag-108 | Filtered | 0.022 U R | 0.081 | 0.024 | 0.039 |
| RD-15 | SMRD-15-GW032911 | Ag-108 | Suspended | -0.005 U R | 0.053 | 0.016 | 0.025 |
| RD-15 | SMRD-15-GW032911 | Ag-108 | Total | 0.017 R | NA | 0.029 | NA |
| RD-15 | SMRD-15-GW032911 | Ag-108m | Filtered | 0.24 U R | 0.87 | 0.26 | 0.42 |
| RD-15 | SMRD-15-GW032911 | Ag-108m | Suspended | -0.05 U R | 0.57 | 0.17 | 0.27 |
| RD-15 | SMRD-15-GW032911 | Ag-108m | Total | 0.19 R | NA | 0.31 | NA |
| RD-15 | SMRD-15-GW032911 | Ba-133 | Filtered | -5.3 U R | 10 | 3.1 | 5 |
| RD-15 | SMRD-15-GW032911 | Ba-133 | Suspended | 0.4 U R | 6 | 1.8 | 2.9 |
| RD-15 | SMRD-15-GW032911 | Ba-133 | Total | -4.9 R | NA | 3.6 | NA |
| RD-15 | SMRD-15-GW032911 | Ba-137m | Filtered | 0 U | 1.1 | 0.32 | 0.53 |
| RD-15 | SMRD-15-GW032911 | Ba-137m | Suspended | 0.06 U | 0.54 | 0.16 | 0.26 |
| RD-15 | SMRD-15-GW032911 | Ba-137m | Total | 0.06 | NA | 0.36 | NA |
| RD-15 | SMRD-15-GW032911 | Bi-212 | Filtered | 0.6 U | 9.5 | 2.6 | 4.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|------|-------|----------------|
| RD-15 | SMRD-15-GW032911 | Bi-212 | Suspended | 2 U | 5.6 | 1.7 | 2.7 |
| RD-15 | SMRD-15-GW032911 | Bi-212 | Total | 2.6 | NA | 3.1 | NA |
| RD-15 | SMRD-15-GW032911 | Bi-214 | Filtered | -0.244 U | 2.6 | 0.998 | 1.2 |
| RD-15 | SMRD-15-GW032911 | Bi-214 | Suspended | 1.43 | 1.6 | 0.62 | 0.77 |
| RD-15 | SMRD-15-GW032911 | Bi-214 | Total | 1.2 | NA | 1.2 | NA |
| RD-15 | SMRD-15-GW032911 | Cd-113m | Filtered | 60 U | 9900 | 2900 | 4700 |
| RD-15 | SMRD-15-GW032911 | Cd-113m | Suspended | 1300 U | 6600 | 2000 | 3200 |
| RD-15 | SMRD-15-GW032911 | Cd-113m | Total | 1400 | NA | 3500 | NA |
| RD-15 | SMRD-15-GW032911 | Cf-249 | Filtered | -0.008 U R | 4.3 | 1.2 | 2.1 |
| RD-15 | SMRD-15-GW032911 | Cf-249 | Suspended | 0.19 U R | 2.9 | 0.86 | 1.4 |
| RD-15 | SMRD-15-GW032911 | Cf-249 | Total | 0.2 R | NA | 1.5 | NA |
| RD-15 | SMRD-15-GW032911 | Co-60 | Filtered | 0.23 U | 0.99 | 0.29 | 0.45 |
| RD-15 | SMRD-15-GW032911 | Co-60 | Suspended | 0.05 U | 0.72 | 0.21 | 0.34 |
| RD-15 | SMRD-15-GW032911 | Co-60 | Total | 0.28 | NA | 0.35 | NA |
| RD-15 | SMRD-15-GW032911 | Cs-134 | Filtered | 0.46 SK | 0.91 | 0.28 | 0.43 |
| RD-15 | SMRD-15-GW032911 | Cs-134 | Suspended | 0.15 U | 0.68 | 0.2 | 0.33 |
| RD-15 | SMRD-15-GW032911 | Cs-134 | Total | 0.61 SK | NA | 0.34 | NA |
| RD-15 | SMRD-15-GW032911 | Cs-137 | Filtered | 0 U | 1.2 | 0.34 | 0.56 |
| RD-15 | SMRD-15-GW032911 | Cs-137 | Suspended | 0.06 U | 0.57 | 0.17 | 0.27 |
| RD-15 | SMRD-15-GW032911 | Cs-137 | Total | 0.06 | NA | 0.38 | NA |
| RD-15 | SMRD-15-GW032911 | Eu-152 | Filtered | 0.75 U | 3 | 0.88 | 1.4 |
| RD-15 | SMRD-15-GW032911 | Eu-152 | Suspended | -0.28 U | 1.8 | 0.52 | 0.85 |
| RD-15 | SMRD-15-GW032911 | Eu-152 | Total | 0.5 | NA | 1 | NA |
| RD-15 | SMRD-15-GW032911 | Eu-154 | Filtered | -2.4 U | 10 | 3 | 4.9 |
| RD-15 | SMRD-15-GW032911 | Eu-154 | Suspended | 0.006 U | 6.1 | 1.8 | 2.9 |
| RD-15 | SMRD-15-GW032911 | Eu-154 | Total | -2.4 | NA | 3.5 | NA |
| RD-15 | SMRD-15-GW032911 | Eu-155 | Filtered | -0.16 U | 2.6 | 0.77 | 1.3 |
| RD-15 | SMRD-15-GW032911 | Eu-155 | Suspended | 0.34 U | 1.3 | 0.4 | 0.65 |
| RD-15 | SMRD-15-GW032911 | Eu-155 | Total | 0.19 | NA | 0.86 | NA |
| RD-15 | SMRD-15-GW032911 | gross_alpha | Filtered | 9.72 | 0.59 | 0.72 | 0.32 |
| RD-15 | SMRD-15-GW032911 | gross_alpha | Suspended | 0.59 | 0.96 | 0.31 | 0.52 |
| RD-15 | SMRD-15-GW032911 | gross_alpha | Total | 10.3 | NA | 0.79 | NA |
| RD-15 | SMRD-15-GW032911 | gross_beta | Filtered | 6.11 | 1.8 | 0.78 | 1 |
| RD-15 | SMRD-15-GW032911 | gross_beta | Suspended | -0.02 U | 0.81 | 0.23 | 0.48 |
| RD-15 | SMRD-15-GW032911 | gross_beta | Total | 6.09 | NA | 0.81 | NA |
| RD-15 | SMRD-15-GW032911 | H-3 | Total | 3 U | 140 | 41 | 67 |
| RD-15 | SMRD-15-GW032911 | Ho-166m | Filtered | 0.42 U | 1.8 | 0.52 | 0.84 |
| RD-15 | SMRD-15-GW032911 | Ho-166m | Suspended | -0.15 U | 1.2 | 0.35 | 0.58 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-15 | SMRD-15-GW032911 | Ho-166m | Total | 0.27 | NA | 0.63 | NA |
| RD-15 | SMRD-15-GW032911 | K-40 | Filtered | 5 U | 16 | 5.7 | 7.6 |
| RD-15 | SMRD-15-GW032911 | K-40 | Suspended | -3.2 U | 12 | 4.2 | 5.8 |
| RD-15 | SMRD-15-GW032911 | K-40 | Total | 1.8 | NA | 7.1 | NA |
| RD-15 | SMRD-15-GW032911 | Na-22 | Filtered | -0.02 U | 1.2 | 0.34 | 0.55 |
| RD-15 | SMRD-15-GW032911 | Na-22 | Suspended | -0.07 U | 0.69 | 0.2 | 0.32 |
| RD-15 | SMRD-15-GW032911 | Na-22 | Total | -0.09 | NA | 0.39 | NA |
| RD-15 | SMRD-15-GW032911 | Nb-94 | Filtered | -0.17 U | 1.1 | 0.32 | 0.52 |
| RD-15 | SMRD-15-GW032911 | Nb-94 | Suspended | -0.002 U | 0.65 | 0.19 | 0.31 |
| RD-15 | SMRD-15-GW032911 | Nb-94 | Total | -0.17 | NA | 0.37 | NA |
| RD-15 | SMRD-15-GW032911 | Np-236 | Filtered | 0.75 U | 2.1 | 0.63 | 1 |
| RD-15 | SMRD-15-GW032911 | Np-236 | Suspended | 0 U | 1.2 | 0.37 | 0.6 |
| RD-15 | SMRD-15-GW032911 | Np-236 | Total | 0.75 | NA | 0.73 | NA |
| RD-15 | SMRD-15-GW032911 | Np-239 | Filtered | 0.2 U | 7.4 | 2.2 | 3.6 |
| RD-15 | SMRD-15-GW032911 | Np-239 | Suspended | -0.34 U | 2.7 | 0.81 | 1.3 |
| RD-15 | SMRD-15-GW032911 | Np-239 | Total | -0.1 | NA | 2.3 | NA |
| RD-15 | SMRD-15-GW032911 | Pa-231 | Filtered | 0.9 U | 46 | 13 | 22 |
| RD-15 | SMRD-15-GW032911 | Pa-231 | Suspended | 6.2 U | 27 | 8.1 | 13 |
| RD-15 | SMRD-15-GW032911 | Pa-231 | Total | 7 | NA | 16 | NA |
| RD-15 | SMRD-15-GW032911 | Pb-212 | Filtered | 0.46 U | 2.3 | 0.7 | 1.1 |
| RD-15 | SMRD-15-GW032911 | Pb-212 | Suspended | 0.29 U | 1.2 | 0.43 | 0.56 |
| RD-15 | SMRD-15-GW032911 | Pb-212 | Total | 0.75 | NA | 0.82 | NA |
| RD-15 | SMRD-15-GW032911 | Pb-214 | Filtered | -0.5 U | 2.7 | 1 | 1.3 |
| RD-15 | SMRD-15-GW032911 | Pb-214 | Suspended | 0.8 | 1.2 | 0.41 | 0.58 |
| RD-15 | SMRD-15-GW032911 | Pb-214 | Total | 0.3 | NA | 1.1 | NA |
| RD-15 | SMRD-15-GW032911 | Sb-125 | Filtered | 0 U | 12 | 3.6 | 5.9 |
| RD-15 | SMRD-15-GW032911 | Sb-125 | Suspended | 0 U | 5.8 | 1.7 | 2.8 |
| RD-15 | SMRD-15-GW032911 | Sb-125 | Total | 0 | NA | 4 | NA |
| RD-15 | SMRD-15-GW032911 | Sn-126 | Filtered | 0.56 | 1.1 | 0.33 | 0.51 |
| RD-15 | SMRD-15-GW032911 | Sn-126 | Suspended | 0.18 U | 0.84 | 0.25 | 0.41 |
| RD-15 | SMRD-15-GW032911 | Sn-126 | Total | 0.74 | NA | 0.41 | NA |
| RD-15 | SMRD-15-GW032911 | Sr-90 | Filtered | 0.071 U | 0.18 | 0.055 | 0.099 |
| RD-15 | SMRD-15-GW032911 | Sr-90 | Suspended | -0.03 U | 0.059 | 0.016 | 0.033 |
| RD-15 | SMRD-15-GW032911 | Sr-90 | Total | 0.04 | NA | 0.058 | NA |
| RD-15 | SMRD-15-GW032911 | Te-125m | Filtered | 0 U | 2.8 | 0.83 | 1.4 |
| RD-15 | SMRD-15-GW032911 | Te-125m | Suspended | 0 U | 1.3 | 0.4 | 0.65 |
| RD-15 | SMRD-15-GW032911 | Te-125m | Total | 0 | NA | 0.92 | NA |
| RD-15 | SMRD-15-GW032911 | Th-231 | Filtered | 0.221 | 0.007 | 0.025 | 0.006 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-15 | SMRD-15-GW032911 | Th-231 | Suspended | 0.0023 U | 0.0061 | 0.0023 | 0.0047 |
| RD-15 | SMRD-15-GW032911 | Th-231 | Total | 0.223 | NA | 0.025 | NA |
| RD-15 | SMRD-15-GW032911 | Th-234 | Filtered | 4.8 U | 20 | 6.4 | 9.8 |
| RD-15 | SMRD-15-GW032911 | Th-234 | Suspended | -0.1 U | 8.2 | 2.3 | 4 |
| RD-15 | SMRD-15-GW032911 | Th-234 | Total | 4.7 | NA | 6.8 | NA |
| RD-15 | SMRD-15-GW032911 | Tl-208 | Filtered | 0.77 | 1.3 | 0.44 | 0.62 |
| RD-15 | SMRD-15-GW032911 | Tl-208 | Suspended | 0.28 U | 0.76 | 0.27 | 0.36 |
| RD-15 | SMRD-15-GW032911 | Tl-208 | Total | 1.05 | NA | 0.52 | NA |
| RD-15 | SMRD-15-GW032911 | Tm-171 | Filtered | 220 | 340 | 100 | 160 |
| RD-15 | SMRD-15-GW032911 | Tm-171 | Suspended | 24 U | 120 | 35 | 57 |
| RD-15 | SMRD-15-GW032911 | Tm-171 | Total | 240 | NA | 110 | NA |
| RD-15 | SMRD-15-GW032911 | U-233/234 | Filtered | 4.11 | 0.02 | 0.2 | 0.007 |
| RD-15 | SMRD-15-GW032911 | U-233/234 | Suspended | 0.0245 | 0.012 | 0.0083 | 0.0038 |
| RD-15 | SMRD-15-GW032911 | U-233/234 | Total | 4.13 | NA | 0.2 | NA |
| RD-15 | SMRD-15-GW032911 | U-235/236 | Filtered | 0.221 | 0.007 | 0.025 | 0.006 |
| RD-15 | SMRD-15-GW032911 | U-235/236 | Suspended | 0.0023 U | 0.0061 | 0.0023 | 0.0047 |
| RD-15 | SMRD-15-GW032911 | U-235/236 | Total | 0.223 | NA | 0.025 | NA |
| RD-15 | SMRD-15-GW032911 | U-238 | Filtered | 4.03 | 0.005 | 0.19 | 0.005 |
| RD-15 | SMRD-15-GW032911 | U-238 | Suspended | 0.0326 | 0.012 | 0.009 | 0.0038 |
| RD-15 | SMRD-15-GW032911 | U-238 | Total | 4.06 | NA | 0.19 | NA |
| RD-16 | SMRD-16-GW042011 | Ac-227 | Filtered | -5.4 U | 9.6 | 2.9 | 4.7 |
| RD-16 | SMRD-16-GW042011 | Ac-227 | Suspended | 0 U | 5.5 | 1.6 | 2.7 |
| RD-16 | SMRD-16-GW042011 | Ac-227 | Total | -5.4 | NA | 3.3 | NA |
| RD-16 | SMRD-16-GW042011 | Ac-228 | Filtered | 6.8 | 3.6 | 1.2 | 1.7 |
| RD-16 | SMRD-16-GW042011 | Ac-228 | Suspended | -0.03 U | 2.3 | 0.64 | 1 |
| RD-16 | SMRD-16-GW042011 | Ac-228 | Total | 6.7 | NA | 1.3 | NA |
| RD-16 | SMRD-16-GW042011 | Ag-108 | Filtered | -0.032 U R | 0.094 | 0.028 | 0.045 |
| RD-16 | SMRD-16-GW042011 | Ag-108 | Suspended | 0.017 U R | 0.044 | 0.013 | 0.021 |
| RD-16 | SMRD-16-GW042011 | Ag-108 | Total | -0.016 R | NA | 0.031 | NA |
| RD-16 | SMRD-16-GW042011 | Ag-108m | Filtered | -0.35 U R | 1 | 0.3 | 0.49 |
| RD-16 | SMRD-16-GW042011 | Ag-108m | Suspended | 0.18 U R | 0.48 | 0.14 | 0.22 |
| RD-16 | SMRD-16-GW042011 | Ag-108m | Total | -0.17 R | NA | 0.34 | NA |
| RD-16 | SMRD-16-GW042011 | Ba-133 | Filtered | 0.4 U R | 9 | 2.6 | 4.3 |
| RD-16 | SMRD-16-GW042011 | Ba-133 | Suspended | -1.1 U R | 5.7 | 1.7 | 2.7 |
| RD-16 | SMRD-16-GW042011 | Ba-133 | Total | -0.7 R | NA | 3.1 | NA |
| RD-16 | SMRD-16-GW042011 | Ba-137m | Filtered | 0.27 U | 1.1 | 0.32 | 0.51 |
| RD-16 | SMRD-16-GW042011 | Ba-137m | Suspended | -0.02 U | 0.67 | 0.19 | 0.31 |
| RD-16 | SMRD-16-GW042011 | Ba-137m | Total | 0.25 | NA | 0.37 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-16 | SMRD-16-GW042011 | Bi-212 | Filtered | 5.2 | 7.9 | 2.5 | 3.7 |
| RD-16 | SMRD-16-GW042011 | Bi-212 | Suspended | 0.9 U | 4.9 | 1.4 | 2.3 |
| RD-16 | SMRD-16-GW042011 | Bi-212 | Total | 6.1 | NA | 2.8 | NA |
| RD-16 | SMRD-16-GW042011 | Bi-214 | Filtered | 1.3 | 2.6 | 0.86 | 1.2 |
| RD-16 | SMRD-16-GW042011 | Bi-214 | Suspended | 0.88 | 1.4 | 0.48 | 0.65 |
| RD-16 | SMRD-16-GW042011 | Bi-214 | Total | 2.18 | NA | 0.99 | NA |
| RD-16 | SMRD-16-GW042011 | Cd-113m | Filtered | -2000 U | 14000 | 4100 | 6700 |
| RD-16 | SMRD-16-GW042011 | Cd-113m | Suspended | 500 U | 6200 | 1800 | 3000 |
| RD-16 | SMRD-16-GW042011 | Cd-113m | Total | -1500 | NA | 4500 | NA |
| RD-16 | SMRD-16-GW042011 | Cf-249 | Filtered | -0.04 U R | 5.1 | 1.5 | 2.4 |
| RD-16 | SMRD-16-GW042011 | Cf-249 | Suspended | -0.18 U R | 2.9 | 0.83 | 1.4 |
| RD-16 | SMRD-16-GW042011 | Cf-249 | Total | -0.2 R | NA | 1.7 | NA |
| RD-16 | SMRD-16-GW042011 | Co-60 | Filtered | -0.14 U | 1.2 | 0.35 | 0.56 |
| RD-16 | SMRD-16-GW042011 | Co-60 | Suspended | -0.06 U | 0.79 | 0.22 | 0.36 |
| RD-16 | SMRD-16-GW042011 | Co-60 | Total | -0.2 | NA | 0.41 | NA |
| RD-16 | SMRD-16-GW042011 | Cs-134 | Filtered | -0.21 U | 1.1 | 0.34 | 0.55 |
| RD-16 | SMRD-16-GW042011 | Cs-134 | Suspended | -0.24 U | 0.73 | 0.22 | 0.35 |
| RD-16 | SMRD-16-GW042011 | Cs-134 | Total | -0.44 | NA | 0.4 | NA |
| RD-16 | SMRD-16-GW042011 | Cs-137 | Filtered | 0.28 U | 1.1 | 0.34 | 0.54 |
| RD-16 | SMRD-16-GW042011 | Cs-137 | Suspended | -0.02 U | 0.71 | 0.2 | 0.33 |
| RD-16 | SMRD-16-GW042011 | Cs-137 | Total | 0.26 | NA | 0.39 | NA |
| RD-16 | SMRD-16-GW042011 | Eu-152 | Filtered | 0.02 U | 3.2 | 0.93 | 1.5 |
| RD-16 | SMRD-16-GW042011 | Eu-152 | Suspended | -0.65 U | 1.7 | 0.5 | 0.79 |
| RD-16 | SMRD-16-GW042011 | Eu-152 | Total | -0.6 | NA | 1.1 | NA |
| RD-16 | SMRD-16-GW042011 | Eu-154 | Filtered | 3.2 U | 9.2 | 2.8 | 4.4 |
| RD-16 | SMRD-16-GW042011 | Eu-154 | Suspended | 2.3 | 5.1 | 1.6 | 2.3 |
| RD-16 | SMRD-16-GW042011 | Eu-154 | Total | 5.5 | NA | 3.2 | NA |
| RD-16 | SMRD-16-GW042011 | Eu-155 | Filtered | -0.36 U | 2.8 | 0.84 | 1.4 |
| RD-16 | SMRD-16-GW042011 | Eu-155 | Suspended | 0.06 U | 1.1 | 0.31 | 0.51 |
| RD-16 | SMRD-16-GW042011 | Eu-155 | Total | -0.3 | NA | 0.9 | NA |
| RD-16 | SMRD-16-GW042011 | gross_alpha | Filtered | 1.75 | 0.48 | 0.29 | 0.24 |
| RD-16 | SMRD-16-GW042011 | gross_alpha | Suspended | 0.48 | 0.6 | 0.2 | 0.32 |
| RD-16 | SMRD-16-GW042011 | gross_alpha | Total | 2.23 | NA | 0.36 | NA |
| RD-16 | SMRD-16-GW042011 | gross_beta | Filtered | 3.4 | 2.9 | 0.98 | 1.7 |
| RD-16 | SMRD-16-GW042011 | gross_beta | Suspended | 0.2 U | 0.72 | 0.21 | 0.42 |
| RD-16 | SMRD-16-GW042011 | gross_beta | Total | 3.6 | NA | 1 | NA |
| RD-16 | SMRD-16-GW042011 | H-3 | Total | -20 U | 160 | 46 | 77 |
| RD-16 | SMRD-16-GW042011 | Ho-166m | Filtered | 0.08 U | 1.7 | 0.5 | 0.81 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-16 | SMRD-16-GW042011 | Ho-166m | Suspended | -0.03 U | 0.95 | 0.27 | 0.44 |
| RD-16 | SMRD-16-GW042011 | Ho-166m | Total | 0.05 | NA | 0.56 | NA |
| RD-16 | SMRD-16-GW042011 | K-40 | Filtered | -0.2 U | 18 | 4.5 | 8.3 |
| RD-16 | SMRD-16-GW042011 | K-40 | Suspended | -3.2 U | 12 | 5.8 | 5.5 |
| RD-16 | SMRD-16-GW042011 | K-40 | Total | -3.4 | NA | 7.3 | NA |
| RD-16 | SMRD-16-GW042011 | Na-22 | Filtered | -0.23 U | 1.3 | 0.38 | 0.6 |
| RD-16 | SMRD-16-GW042011 | Na-22 | Suspended | -0.06 U | 0.67 | 0.18 | 0.3 |
| RD-16 | SMRD-16-GW042011 | Na-22 | Total | -0.29 | NA | 0.42 | NA |
| RD-16 | SMRD-16-GW042011 | Nb-94 | Filtered | 0 U | 1.1 | 0.32 | 0.52 |
| RD-16 | SMRD-16-GW042011 | Nb-94 | Suspended | 0.004 U | 0.66 | 0.19 | 0.31 |
| RD-16 | SMRD-16-GW042011 | Nb-94 | Total | 0.004 | NA | 0.37 | NA |
| RD-16 | SMRD-16-GW042011 | Np-236 | Filtered | 0 U | 2.6 | 0.76 | 1.2 |
| RD-16 | SMRD-16-GW042011 | Np-236 | Suspended | 0.17 U | 0.98 | 0.29 | 0.47 |
| RD-16 | SMRD-16-GW042011 | Np-236 | Total | 0.17 | NA | 0.81 | NA |
| RD-16 | SMRD-16-GW042011 | Np-239 | Filtered | -0.2 U | 6.4 | 1.9 | 3.1 |
| RD-16 | SMRD-16-GW042011 | Np-239 | Suspended | -0.95 U | 3.2 | 0.96 | 1.5 |
| RD-16 | SMRD-16-GW042011 | Np-239 | Total | -1.2 | NA | 2.1 | NA |
| RD-16 | SMRD-16-GW042011 | Pa-231 | Filtered | 0.2 U | 48 | 14 | 23 |
| RD-16 | SMRD-16-GW042011 | Pa-231 | Suspended | -5.6 U | 28 | 8.4 | 14 |
| RD-16 | SMRD-16-GW042011 | Pa-231 | Total | -5 | NA | 16 | NA |
| RD-16 | SMRD-16-GW042011 | Pb-212 | Filtered | 0.32 U | 2.4 | 0.81 | 1.2 |
| RD-16 | SMRD-16-GW042011 | Pb-212 | Suspended | 0.85 | 1 | 0.37 | 0.5 |
| RD-16 | SMRD-16-GW042011 | Pb-212 | Total | 1.17 | NA | 0.89 | NA |
| RD-16 | SMRD-16-GW042011 | Pb-214 | Filtered | 1.7 | 2.6 | 1 | 1.3 |
| RD-16 | SMRD-16-GW042011 | Pb-214 | Suspended | 0.24 U | 1.5 | 0.39 | 0.7 |
| RD-16 | SMRD-16-GW042011 | Pb-214 | Total | 2 | NA | 1.1 | NA |
| RD-16 | SMRD-16-GW042011 | Sb-125 | Filtered | 2.6 U | 11 | 3.2 | 5.2 |
| RD-16 | SMRD-16-GW042011 | Sb-125 | Suspended | 0.2 U | 5.3 | 1.6 | 2.6 |
| RD-16 | SMRD-16-GW042011 | Sb-125 | Total | 2.7 | NA | 3.6 | NA |
| RD-16 | SMRD-16-GW042011 | Sn-126 | Filtered | -0.28 U | 1.3 | 0.38 | 0.62 |
| RD-16 | SMRD-16-GW042011 | Sn-126 | Suspended | 0.21 U | 0.76 | 0.23 | 0.36 |
| RD-16 | SMRD-16-GW042011 | Sn-126 | Total | -0.07 | NA | 0.44 | NA |
| RD-16 | SMRD-16-GW042011 | Sr-90 | Filtered | 0.03 U | 0.11 | 0.032 | 0.062 |
| RD-16 | SMRD-16-GW042011 | Sr-90 | Suspended | -0.006 U | 0.061 | 0.018 | 0.033 |
| RD-16 | SMRD-16-GW042011 | Sr-90 | Total | 0.098 | NA | 0.045 | NA |
| RD-16 | SMRD-16-GW042011 | Te-125m | Filtered | 0.59 U | 2.5 | 0.75 | 1.2 |
| RD-16 | SMRD-16-GW042011 | Te-125m | Suspended | 0.04 U | 1.2 | 0.36 | 0.59 |
| RD-16 | SMRD-16-GW042011 | Te-125m | Total | 0.63 | NA | 0.83 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-16 | SMRD-16-GW042011 | Th-231 | Filtered | 0.0386 | 0.0065 | 0.0098 | 0.005 |
| RD-16 | SMRD-16-GW042011 | Th-231 | Suspended | 0.0024 U | 0.0066 | 0.0024 | 0.0051 |
| RD-16 | SMRD-16-GW042011 | Th-231 | Total | 0.041 | NA | 0.01 | NA |
| RD-16 | SMRD-16-GW042011 | Th-234 | Filtered | -4.8 U | 20 | 7.5 | 9.8 |
| RD-16 | SMRD-16-GW042011 | Th-234 | Suspended | 5.3 | 6.4 | 2.1 | 3.1 |
| RD-16 | SMRD-16-GW042011 | Th-234 | Total | 0.5 | NA | 7.8 | NA |
| RD-16 | SMRD-16-GW042011 | Tl-208 | Filtered | 0.94 | 1.3 | 0.53 | 0.65 |
| RD-16 | SMRD-16-GW042011 | Tl-208 | Suspended | -0.18 U | 0.82 | 0.36 | 0.39 |
| RD-16 | SMRD-16-GW042011 | Tl-208 | Total | 0.77 | NA | 0.64 | NA |
| RD-16 | SMRD-16-GW042011 | Tm-171 | Filtered | 103 U | 240 | 74 | 120 |
| RD-16 | SMRD-16-GW042011 | Tm-171 | Suspended | -2 U | 93 | 27 | 45 |
| RD-16 | SMRD-16-GW042011 | Tm-171 | Total | 101 | NA | 79 | NA |
| RD-16 | SMRD-16-GW042011 | U-233/234 | Filtered | 1.01 | 0.005 | 0.061 | 0.004 |
| RD-16 | SMRD-16-GW042011 | U-233/234 | Suspended | 0.0364 | 0.0053 | 0.0097 | 0.0041 |
| RD-16 | SMRD-16-GW042011 | U-233/234 | Total | 1.04 | NA | 0.062 | NA |
| RD-16 | SMRD-16-GW042011 | U-235/236 | Filtered | 0.0386 | 0.0065 | 0.0098 | 0.005 |
| RD-16 | SMRD-16-GW042011 | U-235/236 | Suspended | 0.0024 U | 0.0066 | 0.0024 | 0.0051 |
| RD-16 | SMRD-16-GW042011 | U-235/236 | Total | 0.041 | NA | 0.01 | NA |
| RD-16 | SMRD-16-GW042011 | U-238 | Filtered | 0.824 | 0.013 | 0.053 | 0.004 |
| RD-16 | SMRD-16-GW042011 | U-238 | Suspended | 0.0136 | 0.0053 | 0.0065 | 0.0041 |
| RD-16 | SMRD-16-GW042011 | U-238 | Total | 0.837 | NA | 0.053 | NA |
| RD-17 | SMRD-17-GW032511 | Ac-227 | Filtered | 0.1 U | 14 | 4.2 | 6.9 |
| RD-17 | SMRD-17-GW032511 | Ac-227 | Suspended | 0.78 U | 5.7 | 0.76 | 2.8 |
| RD-17 | SMRD-17-GW032511 | Ac-227 | Total | 0.9 | NA | 4.2 | NA |
| RD-17 | SMRD-17-GW032511 | Ac-228 | Filtered | 4 | 8.6 | 1.5 | 4 |
| RD-17 | SMRD-17-GW032511 | Ac-228 | Suspended | 1.8 | 3.4 | 0.54 | 1.6 |
| RD-17 | SMRD-17-GW032511 | Ac-228 | Total | 5.8 | NA | 1.6 | NA |
| RD-17 | SMRD-17-GW032511 | Ag-108 | Filtered | -0.031 U R | 0.13 | 0.038 | 0.061 |
| RD-17 | SMRD-17-GW032511 | Ag-108 | Suspended | -0.008 U R | 0.064 | 0.019 | 0.031 |
| RD-17 | SMRD-17-GW032511 | Ag-108 | Total | -0.038 R | NA | 0.042 | NA |
| RD-17 | SMRD-17-GW032511 | Ag-108m | Filtered | -0.33 U R | 1.4 | 0.41 | 0.66 |
| RD-17 | SMRD-17-GW032511 | Ag-108m | Suspended | -0.08 U R | 0.69 | 0.2 | 0.33 |
| RD-17 | SMRD-17-GW032511 | Ag-108m | Total | -0.41 R | NA | 0.46 | NA |
| RD-17 | SMRD-17-GW032511 | Am-241 | Filtered | 0.004 U | 0.0054 | 0.0028 | 0.0046 |
| RD-17 | SMRD-17-GW032511 | Am-241 | Suspended | -0.0083 U | 0.027 | 0.0062 | 0.012 |
| RD-17 | SMRD-17-GW032511 | Am-241 | Total | -0.0043 | NA | 0.0068 | NA |
| RD-17 | SMRD-17-GW032511 | Ba-133 | Filtered | -0.46 U R | 1.6 | 0.48 | 0.77 |
| RD-17 | SMRD-17-GW032511 | Ba-133 | Suspended | 0.035 U R | 0.78 | 0.029 | 0.38 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-17 | SMRD-17-GW032511 | Ba-133 | Total | -0.43 R | NA | 0.48 | NA |
| RD-17 | SMRD-17-GW032511 | Ba-137m | Filtered | -0.23 U | 1.5 | 0.43 | 0.7 |
| RD-17 | SMRD-17-GW032511 | Ba-137m | Suspended | -0.11 U | 0.62 | 0.18 | 0.29 |
| RD-17 | SMRD-17-GW032511 | Ba-137m | Total | -0.34 | NA | 0.47 | NA |
| RD-17 | SMRD-17-GW032511 | Bi-212 | Filtered | 8.8 | 13 | 6 | 6 |
| RD-17 | SMRD-17-GW032511 | Bi-212 | Suspended | 1.8 U | 6.1 | 1.2 | 2.9 |
| RD-17 | SMRD-17-GW032511 | Bi-212 | Total | 10.6 | NA | 6.1 | NA |
| RD-17 | SMRD-17-GW032511 | Bi-214 | Filtered | 2.8 | 3.1 | 1.1 | 1.5 |
| RD-17 | SMRD-17-GW032511 | Bi-214 | Suspended | 0.79 | 1.6 | 0.54 | 0.77 |
| RD-17 | SMRD-17-GW032511 | Bi-214 | Total | 3.6 | NA | 1.2 | NA |
| RD-17 | SMRD-17-GW032511 | C-14 | Total | 0.88 U R | 2.3 | 0.69 | 1.1 |
| RD-17 | SMRD-17-GW032511 | Cd-113m | Filtered | 1300 U | 4100 | 1200 | 2000 |
| RD-17 | SMRD-17-GW032511 | Cd-113m | Suspended | -330 U | 1800 | 520 | 850 |
| RD-17 | SMRD-17-GW032511 | Cd-113m | Total | 1000 | NA | 1300 | NA |
| RD-17 | SMRD-17-GW032511 | Cf-249 | Filtered | 0.69 U R | 6.6 | 0.58 | 3.2 |
| RD-17 | SMRD-17-GW032511 | Cf-249 | Suspended | 0.19 U R | 3 | 0.14 | 1.4 |
| RD-17 | SMRD-17-GW032511 | Cf-249 | Total | 0.88 R | NA | 0.6 | NA |
| RD-17 | SMRD-17-GW032511 | Cm-243/244 | Filtered | 0.002 U | 0.0053 | 0.002 | 0.0045 |
| RD-17 | SMRD-17-GW032511 | Cm-243/244 | Suspended | 0 U | 0.0046 | 0.0017 | 0.0039 |
| RD-17 | SMRD-17-GW032511 | Cm-243/244 | Total | 0.002 | NA | 0.0026 | NA |
| RD-17 | SMRD-17-GW032511 | Cm-245/246 | Filtered | 0.0005 U J | 0.016 | 0.0032 | 0.0049 |
| RD-17 | SMRD-17-GW032511 | Cm-245/246 | Suspended | 0.0264 | 0.014 | 0.0081 | 0.0045 |
| RD-17 | SMRD-17-GW032511 | Cm-245/246 | Total | 0.0268 J | NA | 0.0087 | NA |
| RD-17 | SMRD-17-GW032511 | Co-60 | Filtered | 0.04 U | 1.5 | 0.41 | 0.68 |
| RD-17 | SMRD-17-GW032511 | Co-60 | Suspended | 0.013 U | 0.63 | 0.086 | 0.29 |
| RD-17 | SMRD-17-GW032511 | Co-60 | Total | 0.06 | NA | 0.42 | NA |
| RD-17 | SMRD-17-GW032511 | Cs-134 | Filtered | -0.036 U | 1.6 | 0.029 | 0.77 |
| RD-17 | SMRD-17-GW032511 | Cs-134 | Suspended | 0.85 SK | 0.62 | 0.3 | 0.29 |
| RD-17 | SMRD-17-GW032511 | Cs-134 | Total | 0.82 | NA | 0.3 | NA |
| RD-17 | SMRD-17-GW032511 | Cs-137 | Filtered | -0.24 U | 1.6 | 0.45 | 0.74 |
| RD-17 | SMRD-17-GW032511 | Cs-137 | Suspended | -0.11 U | 0.65 | 0.19 | 0.31 |
| RD-17 | SMRD-17-GW032511 | Cs-137 | Total | -0.36 | NA | 0.49 | NA |
| RD-17 | SMRD-17-GW032511 | Eu-152 | Filtered | 0.5 U | 3.8 | 1 | 1.8 |
| RD-17 | SMRD-17-GW032511 | Eu-152 | Suspended | 0.89 | 0.97 | 0.36 | 0.45 |
| RD-17 | SMRD-17-GW032511 | Eu-152 | Total | 1.4 | NA | 1.1 | NA |
| RD-17 | SMRD-17-GW032511 | Eu-154 | Filtered | -0.7 U | 9.3 | 1.1 | 4.4 |
| RD-17 | SMRD-17-GW032511 | Eu-154 | Suspended | 0.06 U | 4.4 | 0.34 | 2.1 |
| RD-17 | SMRD-17-GW032511 | Eu-154 | Total | -0.7 | NA | 1.2 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-17 | SMRD-17-GW032511 | Eu-155 | Filtered | 0.6 U | 3.8 | 1.1 | 1.8 |
| RD-17 | SMRD-17-GW032511 | Eu-155 | Suspended | -0.03 U | 1.2 | 0.36 | 0.59 |
| RD-17 | SMRD-17-GW032511 | Eu-155 | Total | 0.6 | NA | 1.2 | NA |
| RD-17 | SMRD-17-GW032511 | gross_alpha | Filtered | 5.87 | 0.58 | 0.51 | 0.32 |
| RD-17 | SMRD-17-GW032511 | gross_alpha | Suspended | 0.67 | 0.44 | 0.18 | 0.23 |
| RD-17 | SMRD-17-GW032511 | gross_alpha | Total | 6.54 | NA | 0.54 | NA |
| RD-17 | SMRD-17-GW032511 | gross_beta | Filtered | 7.1 | 4.2 | 1.5 | 2.5 |
| RD-17 | SMRD-17-GW032511 | gross_beta | Suspended | -0.09 U | 0.68 | 0.19 | 0.4 |
| RD-17 | SMRD-17-GW032511 | gross_beta | Total | 7 | NA | 1.5 | NA |
| RD-17 | SMRD-17-GW032511 | H-3 | Total | -9 U | 140 | 42 | 69 |
| RD-17 | SMRD-17-GW032511 | Ho-166m | Filtered | 1.4 SK | 2 | 0.79 | 0.94 |
| RD-17 | SMRD-17-GW032511 | Ho-166m | Suspended | 0.17 U | 1 | 0.27 | 0.48 |
| RD-17 | SMRD-17-GW032511 | Ho-166m | Total | 1.57 | NA | 0.83 | NA |
| RD-17 | SMRD-17-GW032511 | I-129 | Filtered | 0.18 U | 0.57 | 0.17 | 0.28 |
| RD-17 | SMRD-17-GW032511 | I-129 | Suspended | -0.18 U | 0.49 | 0.15 | 0.24 |
| RD-17 | SMRD-17-GW032511 | I-129 | Total | 0.003 | NA | 0.23 | NA |
| RD-17 | SMRD-17-GW032511 | K-40 | Filtered | 9.7 U | 23 | 6.4 | 11 |
| RD-17 | SMRD-17-GW032511 | K-40 | Suspended | -4.8 U | 10 | 4.4 | 4.8 |
| RD-17 | SMRD-17-GW032511 | K-40 | Total | 4.9 | NA | 7.8 | NA |
| RD-17 | SMRD-17-GW032511 | Na-22 | Filtered | -1 U | 2 | 21 | 0.9 |
| RD-17 | SMRD-17-GW032511 | Na-22 | Suspended | 0.07 U | 0.7 | 0.2 | 0.33 |
| RD-17 | SMRD-17-GW032511 | Na-22 | Total | -0.9 | NA | 21 | NA |
| RD-17 | SMRD-17-GW032511 | Nb-94 | Filtered | 0.18 U | 1.4 | 0.4 | 0.65 |
| RD-17 | SMRD-17-GW032511 | Nb-94 | Suspended | 0.09 U | 0.66 | 0.19 | 0.32 |
| RD-17 | SMRD-17-GW032511 | Nb-94 | Total | 0.27 | NA | 0.44 | NA |
| RD-17 | SMRD-17-GW032511 | Np-236 | Filtered | -0.07 U | 3.1 | 0.92 | 1.5 |
| RD-17 | SMRD-17-GW032511 | Np-236 | Suspended | 0.17 U | 1.2 | 0.35 | 0.57 |
| RD-17 | SMRD-17-GW032511 | Np-236 | Total | 0.1 | NA | 0.98 | NA |
| RD-17 | SMRD-17-GW032511 | Np-237 | Filtered | 0.0023 U | 0.026 | 0.0052 | 0.0057 |
| RD-17 | SMRD-17-GW032511 | Np-237 | Suspended | 0 U | 0.011 | 0.0028 | 0.0058 |
| RD-17 | SMRD-17-GW032511 | Np-237 | Total | 0.0023 | NA | 0.0059 | NA |
| RD-17 | SMRD-17-GW032511 | Np-239 | Filtered | 0.06 U | 6.9 | 2 | 3.3 |
| RD-17 | SMRD-17-GW032511 | Np-239 | Suspended | 0.39 U | 3.2 | 0.94 | 1.5 |
| RD-17 | SMRD-17-GW032511 | Np-239 | Total | 0.5 | NA | 2.2 | NA |
| RD-17 | SMRD-17-GW032511 | Pa-231 | Filtered | 18 U | 54 | 16 | 26 |
| RD-17 | SMRD-17-GW032511 | Pa-231 | Suspended | 2.5 U | 26 | 7.8 | 13 |
| RD-17 | SMRD-17-GW032511 | Pa-231 | Total | 21 | NA | 18 | NA |
| RD-17 | SMRD-17-GW032511 | Pb-212 | Filtered | 0.74 U | 2.8 | 0.82 | 1.4 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-17 | SMRD-17-GW032511 | Pb-212 | Suspended | 0.69 | 1.3 | 0.34 | 0.63 |
| RD-17 | SMRD-17-GW032511 | Pb-212 | Total | 1.43 | NA | 0.89 | NA |
| RD-17 | SMRD-17-GW032511 | Pb-214 | Filtered | 3.5 | 2.9 | 1.1 | 1.4 |
| RD-17 | SMRD-17-GW032511 | Pb-214 | Suspended | 1.04 | 1.5 | 0.55 | 0.72 |
| RD-17 | SMRD-17-GW032511 | Pb-214 | Total | 4.5 | NA | 1.2 | NA |
| RD-17 | SMRD-17-GW032511 | Pu-238 | Filtered | 0.0022 U | 0.024 | 0.0059 | 0.009 |
| RD-17 | SMRD-17-GW032511 | Pu-238 | Suspended | 0.0231 | 0.02 | 0.0079 | 0.0082 |
| RD-17 | SMRD-17-GW032511 | Pu-238 | Total | 0.0253 | NA | 0.0099 | NA |
| RD-17 | SMRD-17-GW032511 | Pu-239/240 | Filtered | -0.0045 U | 0.021 | 0.0032 | 0.0074 |
| RD-17 | SMRD-17-GW032511 | Pu-239/240 | Suspended | 0 U | 0.0039 | 0.0016 | 0.0038 |
| RD-17 | SMRD-17-GW032511 | Pu-239/240 | Total | -0.0045 | NA | 0.0036 | NA |
| RD-17 | SMRD-17-GW032511 | Pu-242 | Filtered | -0.0045 U | 0.021 | 0.0032 | 0.0074 |
| RD-17 | SMRD-17-GW032511 | Pu-242 | Suspended | 0.0072 | 0.011 | 0.0039 | 0.0034 |
| RD-17 | SMRD-17-GW032511 | Pu-242 | Total | 0.0027 | NA | 0.005 | NA |
| RD-17 | SMRD-17-GW032511 | Ra-226 | Filtered | 0.95 | 0.12 | 0.11 | 0.06 |
| RD-17 | SMRD-17-GW032511 | Ra-226 | Suspended | 0.06 U | 0.22 | 0.062 | 0.12 |
| RD-17 | SMRD-17-GW032511 | Ra-226 | Total | 1.01 | NA | 0.12 | NA |
| RD-17 | SMRD-17-GW032511 | Sb-125 | Filtered | 0.6 U | 3.9 | 1.3 | 1.8 |
| RD-17 | SMRD-17-GW032511 | Sb-125 | Suspended | 0.073 U | 1.8 | 0.046 | 0.89 |
| RD-17 | SMRD-17-GW032511 | Sb-125 | Total | 0.7 | NA | 1.3 | NA |
| RD-17 | SMRD-17-GW032511 | Sn-126 | Filtered | 0.009 U | 1.6 | 0.46 | 0.75 |
| RD-17 | SMRD-17-GW032511 | Sn-126 | Suspended | 0.19 U | 0.62 | 0.18 | 0.29 |
| RD-17 | SMRD-17-GW032511 | Sn-126 | Total | 0.19 | NA | 0.49 | NA |
| RD-17 | SMRD-17-GW032511 | Sr-90 | Filtered | 0.035 U | 0.088 | 0.026 | 0.05 |
| RD-17 | SMRD-17-GW032511 | Sr-90 | Suspended | 0.044 | 0.06 | 0.019 | 0.034 |
| RD-17 | SMRD-17-GW032511 | Sr-90 | Total | 0.08 | NA | 0.033 | NA |
| RD-17 | SMRD-17-GW032511 | Tc-99 | Filtered | -0.17 U | 1.3 | 0.38 | 0.62 |
| RD-17 | SMRD-17-GW032511 | Tc-99 | Suspended | 0.05 U | 1.3 | 0.38 | 0.62 |
| RD-17 | SMRD-17-GW032511 | Tc-99 | Total | -0.11 | NA | 0.53 | NA |
| RD-17 | SMRD-17-GW032511 | Te-125m | Filtered | 0.14 U | 0.89 | 0.29 | 0.43 |
| RD-17 | SMRD-17-GW032511 | Te-125m | Suspended | 0.017 U | 0.43 | 0.011 | 0.2 |
| RD-17 | SMRD-17-GW032511 | Te-125m | Total | 0.16 | NA | 0.29 | NA |
| RD-17 | SMRD-17-GW032511 | Th-231 | Filtered | 0.091 | 0.016 | 0.016 | 0.005 |
| RD-17 | SMRD-17-GW032511 | Th-231 | Suspended | 0.0045 U | 0.006 | 0.0032 | 0.0046 |
| RD-17 | SMRD-17-GW032511 | Th-231 | Total | 0.096 | NA | 0.016 | NA |
| RD-17 | SMRD-17-GW032511 | Th-234 | Filtered | 5.4 U | 18 | 5.7 | 8.9 |
| RD-17 | SMRD-17-GW032511 | Th-234 | Suspended | 1.3 U | 6.1 | 0.77 | 3 |
| RD-17 | SMRD-17-GW032511 | Th-234 | Total | 6.7 | NA | 5.7 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-17 | SMRD-17-GW032511 | Tl-208 | Filtered | 0.42 U | 1.7 | 0.55 | 0.83 |
| RD-17 | SMRD-17-GW032511 | Tl-208 | Suspended | 0.57 | 0.83 | 0.3 | 0.4 |
| RD-17 | SMRD-17-GW032511 | Tl-208 | Total | 0.99 | NA | 0.62 | NA |
| RD-17 | SMRD-17-GW032511 | Tm-171 | Filtered | 330 | 330 | 120 | 160 |
| RD-17 | SMRD-17-GW032511 | Tm-171 | Suspended | 17 U | 130 | 37 | 61 |
| RD-17 | SMRD-17-GW032511 | Tm-171 | Total | 350 | NA | 130 | NA |
| RD-17 | SMRD-17-GW032511 | U-233/234 | Filtered | 2.04 | 0.02 | 0.11 | 0.006 |
| RD-17 | SMRD-17-GW032511 | U-233/234 | Suspended | 0.0175 | 0.012 | 0.0073 | 0.0037 |
| RD-17 | SMRD-17-GW032511 | U-233/234 | Total | 2.06 | NA | 0.11 | NA |
| RD-17 | SMRD-17-GW032511 | U-235/236 | Filtered | 0.091 | 0.016 | 0.016 | 0.005 |
| RD-17 | SMRD-17-GW032511 | U-235/236 | Suspended | 0.0045 U | 0.006 | 0.0032 | 0.0046 |
| RD-17 | SMRD-17-GW032511 | U-235/236 | Total | 0.096 | NA | 0.016 | NA |
| RD-17 | SMRD-17-GW032511 | U-238 | Filtered | 1.59 | 0.005 | 0.087 | 0.004 |
| RD-17 | SMRD-17-GW032511 | U-238 | Suspended | 0.0143 | 0.0048 | 0.0062 | 0.0037 |
| RD-17 | SMRD-17-GW032511 | U-238 | Total | 1.61 | NA | 0.087 | NA |
| RD-18 | SMRD-18-GW032211 | Ac-227 | Filtered | -8.1 L U | 9.5 | 3 | 4.7 |
| RD-18 | SMRD-18-GW032211 | Ac-227 | Suspended | -1.1 U | 3.8 | 1.1 | 1.8 |
| RD-18 | SMRD-18-GW032211 | Ac-227 | Total | -9.3 L | NA | 3.2 | NA |
| RD-18 | SMRD-18-GW032211 | Ac-228 | Filtered | 3.7 | 3.5 | 1.1 | 1.6 |
| RD-18 | SMRD-18-GW032211 | Ac-228 | Suspended | 0.4 U | 2.6 | 0.69 | 1.3 |
| RD-18 | SMRD-18-GW032211 | Ac-228 | Total | 4.1 | NA | 1.3 | NA |
| RD-18 | SMRD-18-GW032211 | Ag-108 | Filtered | 0.004 U R | 0.073 | 0.021 | 0.035 |
| RD-18 | SMRD-18-GW032211 | Ag-108 | Suspended | -0.011 U R | 0.051 | 0.015 | 0.024 |
| RD-18 | SMRD-18-GW032211 | Ag-108 | Total | -0.007 R | NA | 0.026 | NA |
| RD-18 | SMRD-18-GW032211 | Ag-108m | Filtered | 0.05 U R | 0.79 | 0.23 | 0.37 |
| RD-18 | SMRD-18-GW032211 | Ag-108m | Suspended | -0.12 U R | 0.55 | 0.16 | 0.26 |
| RD-18 | SMRD-18-GW032211 | Ag-108m | Total | -0.07 R | NA | 0.28 | NA |
| RD-18 | SMRD-18-GW032211 | Ba-133 | Filtered | 0.5 U R | 9 | 2.6 | 4.3 |
| RD-18 | SMRD-18-GW032211 | Ba-133 | Suspended | -0.7 U R | 6.2 | 1.8 | 3 |
| RD-18 | SMRD-18-GW032211 | Ba-133 | Total | -0.3 R | NA | 3.2 | NA |
| RD-18 | SMRD-18-GW032211 | Ba-137m | Filtered | 0.04 U | 0.92 | 0.27 | 0.43 |
| RD-18 | SMRD-18-GW032211 | Ba-137m | Suspended | -0.06 U | 0.7 | 0.21 | 0.34 |
| RD-18 | SMRD-18-GW032211 | Ba-137m | Total | -0.01 | NA | 0.34 | NA |
| RD-18 | SMRD-18-GW032211 | Bi-212 | Filtered | -4 U | 9 | 280 | 4 |
| RD-18 | SMRD-18-GW032211 | Bi-212 | Suspended | -1.9 U | 5.5 | 1.7 | 2.6 |
| RD-18 | SMRD-18-GW032211 | Bi-212 | Total | -6 | NA | 280 | NA |
| RD-18 | SMRD-18-GW032211 | Bi-214 | Filtered | -0.05 U | 2.7 | 0.88 | 1.3 |
| RD-18 | SMRD-18-GW032211 | Bi-214 | Suspended | 0.58 U | 1.6 | 0.53 | 0.76 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-18 | SMRD-18-GW032211 | Bi-214 | Total | 0.5 | NA | 1 | NA |
| RD-18 | SMRD-18-GW032211 | Cd-113m | Filtered | -300 U | 11000 | 3200 | 5300 |
| RD-18 | SMRD-18-GW032211 | Cd-113m | Suspended | -1500 U | 7400 | 2200 | 3600 |
| RD-18 | SMRD-18-GW032211 | Cd-113m | Total | -1800 | NA | 3900 | NA |
| RD-18 | SMRD-18-GW032211 | Cf-249 | Filtered | 0.4 U R | 5.5 | 1.6 | 2.6 |
| RD-18 | SMRD-18-GW032211 | Cf-249 | Suspended | -0.06 U R | 3.4 | 0.99 | 1.6 |
| RD-18 | SMRD-18-GW032211 | Cf-249 | Total | 0.3 R | NA | 1.9 | NA |
| RD-18 | SMRD-18-GW032211 | Co-60 | Filtered | -0.31 U | 1.2 | 0.35 | 0.55 |
| RD-18 | SMRD-18-GW032211 | Co-60 | Suspended | 0.01 U | 0.67 | 0.19 | 0.31 |
| RD-18 | SMRD-18-GW032211 | Co-60 | Total | -0.3 | NA | 0.4 | NA |
| RD-18 | SMRD-18-GW032211 | Cs-134 | Filtered | -0.31 U | 1.3 | 0.38 | 0.61 |
| RD-18 | SMRD-18-GW032211 | Cs-134 | Suspended | 0.12 U | 0.63 | 0.19 | 0.3 |
| RD-18 | SMRD-18-GW032211 | Cs-134 | Total | -0.19 | NA | 0.42 | NA |
| RD-18 | SMRD-18-GW032211 | Cs-137 | Filtered | 0.05 U | 0.97 | 0.28 | 0.46 |
| RD-18 | SMRD-18-GW032211 | Cs-137 | Suspended | -0.06 U | 0.74 | 0.22 | 0.35 |
| RD-18 | SMRD-18-GW032211 | Cs-137 | Total | -0.01 | NA | 0.35 | NA |
| RD-18 | SMRD-18-GW032211 | Eu-152 | Filtered | 1.17 U | 2.6 | 0.78 | 1.2 |
| RD-18 | SMRD-18-GW032211 | Eu-152 | Suspended | -0.53 U | 1.8 | 0.54 | 0.87 |
| RD-18 | SMRD-18-GW032211 | Eu-152 | Total | 0.64 | NA | 0.95 | NA |
| RD-18 | SMRD-18-GW032211 | Eu-154 | Filtered | -0.3 U | 8.3 | 2.4 | 3.9 |
| RD-18 | SMRD-18-GW032211 | Eu-154 | Suspended | 1.2 U | 5.5 | 1.6 | 2.6 |
| RD-18 | SMRD-18-GW032211 | Eu-154 | Total | 0.9 | NA | 2.9 | NA |
| RD-18 | SMRD-18-GW032211 | Eu-155 | Filtered | -0.76 U | 3.1 | 0.93 | 1.5 |
| RD-18 | SMRD-18-GW032211 | Eu-155 | Suspended | 0.16 U | 1.2 | 0.36 | 0.6 |
| RD-18 | SMRD-18-GW032211 | Eu-155 | Total | -0.6 | NA | 1 | NA |
| RD-18 | SMRD-18-GW032211 | gross_alpha | Filtered | 7.71 | 0.38 | 0.61 | 0.18 |
| RD-18 | SMRD-18-GW032211 | gross_alpha | Suspended | 2.75 | 0.42 | 0.33 | 0.22 |
| RD-18 | SMRD-18-GW032211 | gross_alpha | Total | 10.5 | NA | 0.69 | NA |
| RD-18 | SMRD-18-GW032211 | gross_beta | Filtered | 4.89 | 2 | 0.83 | 1.2 |
| RD-18 | SMRD-18-GW032211 | gross_beta | Suspended | 0.3 U | 0.87 | 0.26 | 0.52 |
| RD-18 | SMRD-18-GW032211 | gross_beta | Total | 5.19 | NA | 0.87 | NA |
| RD-18 | SMRD-18-GW032211 | H-3 | Total | -18 U | 150 | 44 | 74 |
| RD-18 | SMRD-18-GW032211 | Ho-166m | Filtered | 0.21 U | 1.7 | 0.5 | 0.82 |
| RD-18 | SMRD-18-GW032211 | Ho-166m | Suspended | -0.33 U | 1.2 | 0.36 | 0.57 |
| RD-18 | SMRD-18-GW032211 | Ho-166m | Total | -0.12 | NA | 0.62 | NA |
| RD-18 | SMRD-18-GW032211 | K-40 | Filtered | -0.8 U | 17 | 4.4 | 8.2 |
| RD-18 | SMRD-18-GW032211 | K-40 | Suspended | 5.6 U | 12 | 3.3 | 5.7 |
| RD-18 | SMRD-18-GW032211 | K-40 | Total | 4.8 | NA | 5.5 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-18 | SMRD-18-GW032211 | Na-22 | Filtered | 0.01 U | 1.1 | 0.31 | 0.51 |
| RD-18 | SMRD-18-GW032211 | Na-22 | Suspended | 0.02 U | 0.72 | 0.2 | 0.33 |
| RD-18 | SMRD-18-GW032211 | Na-22 | Total | 0.04 | NA | 0.37 | NA |
| RD-18 | SMRD-18-GW032211 | Nb-94 | Filtered | 0.25 U | 1 | 0.3 | 0.49 |
| RD-18 | SMRD-18-GW032211 | Nb-94 | Suspended | 0.12 U | 0.61 | 0.18 | 0.29 |
| RD-18 | SMRD-18-GW032211 | Nb-94 | Total | 0.37 | NA | 0.35 | NA |
| RD-18 | SMRD-18-GW032211 | Np-236 | Filtered | -1.19 U | 2.8 | 0.84 | 1.4 |
| RD-18 | SMRD-18-GW032211 | Np-236 | Suspended | -0.2 U | 1.2 | 0.37 | 0.6 |
| RD-18 | SMRD-18-GW032211 | Np-236 | Total | -1.39 | NA | 0.92 | NA |
| RD-18 | SMRD-18-GW032211 | Np-239 | Filtered | -2.1 U | 7.3 | 2.2 | 3.6 |
| RD-18 | SMRD-18-GW032211 | Np-239 | Suspended | 0.5 U | 3.9 | 1.1 | 1.9 |
| RD-18 | SMRD-18-GW032211 | Np-239 | Total | -1.6 | NA | 2.5 | NA |
| RD-18 | SMRD-18-GW032211 | Pa-231 | Filtered | 3 U | 50 | 15 | 24 |
| RD-18 | SMRD-18-GW032211 | Pa-231 | Suspended | 9.9 U | 25 | 7.5 | 12 |
| RD-18 | SMRD-18-GW032211 | Pa-231 | Total | 13 | NA | 17 | NA |
| RD-18 | SMRD-18-GW032211 | Pb-212 | Filtered | -0.17 U | 2.3 | 0.73 | 1.1 |
| RD-18 | SMRD-18-GW032211 | Pb-212 | Suspended | -0.1 U | 1.2 | 0.43 | 0.58 |
| RD-18 | SMRD-18-GW032211 | Pb-212 | Total | -0.27 | NA | 0.85 | NA |
| RD-18 | SMRD-18-GW032211 | Pb-214 | Filtered | -0.6 U | 2.8 | 1 | 1.3 |
| RD-18 | SMRD-18-GW032211 | Pb-214 | Suspended | -0.79 U | 1.5 | 0.69 | 0.75 |
| RD-18 | SMRD-18-GW032211 | Pb-214 | Total | -1.4 | NA | 1.2 | NA |
| RD-18 | SMRD-18-GW032211 | Sb-125 | Filtered | 0.03 U | 9 | 2.6 | 4.4 |
| RD-18 | SMRD-18-GW032211 | Sb-125 | Suspended | 0.2 U | 6.1 | 1.8 | 3 |
| RD-18 | SMRD-18-GW032211 | Sb-125 | Total | 0.2 | NA | 3.2 | NA |
| RD-18 | SMRD-18-GW032211 | Sn-126 | Filtered | 0.46 U | 1.2 | 0.37 | 0.6 |
| RD-18 | SMRD-18-GW032211 | Sn-126 | Suspended | 0.15 U | 0.76 | 0.23 | 0.37 |
| RD-18 | SMRD-18-GW032211 | Sn-126 | Total | 0.61 | NA | 0.44 | NA |
| RD-18 | SMRD-18-GW032211 | Sr-90 | Filtered | 0.004 U | 0.054 | 0.016 | 0.029 |
| RD-18 | SMRD-18-GW032211 | Sr-90 | Suspended | 0.028 U | 0.054 | 0.017 | 0.031 |
| RD-18 | SMRD-18-GW032211 | Sr-90 | Total | 0.028 | NA | 0.017 | NA |
| RD-18 | SMRD-18-GW032211 | Te-125m | Filtered | 0.008 U | 2.1 | 0.61 | 1 |
| RD-18 | SMRD-18-GW032211 | Te-125m | Suspended | 0.04 U | 1.4 | 0.42 | 0.69 |
| RD-18 | SMRD-18-GW032211 | Te-125m | Total | 0.04 | NA | 0.74 | NA |
| RD-18 | SMRD-18-GW032211 | Th-231 | Filtered | 0.124 | 0.007 | 0.018 | 0.005 |
| RD-18 | SMRD-18-GW032211 | Th-231 | Suspended | 0.0053 U | 0.029 | 0.0072 | 0.0092 |
| RD-18 | SMRD-18-GW032211 | Th-231 | Total | 0.129 | NA | 0.02 | NA |
| RD-18 | SMRD-18-GW032211 | Th-234 | Filtered | 4 U | 20 | 6.1 | 9.7 |
| RD-18 | SMRD-18-GW032211 | Th-234 | Suspended | 3.1 U | 8.5 | 2.7 | 4.2 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-18 | SMRD-18-GW032211 | Th-234 | Total | 7.1 | NA | 6.6 | NA |
| RD-18 | SMRD-18-GW032211 | Tl-208 | Filtered | 0.86 | 1.3 | 0.44 | 0.61 |
| RD-18 | SMRD-18-GW032211 | Tl-208 | Suspended | 0.18 U | 0.74 | 0.25 | 0.35 |
| RD-18 | SMRD-18-GW032211 | Tl-208 | Total | 1.04 | NA | 0.51 | NA |
| RD-18 | SMRD-18-GW032211 | Tm-171 | Filtered | 7 U | 370 | 110 | 180 |
| RD-18 | SMRD-18-GW032211 | Tm-171 | Suspended | 27 U | 100 | 31 | 50 |
| RD-18 | SMRD-18-GW032211 | Tm-171 | Total | 30 | NA | 110 | NA |
| RD-18 | SMRD-18-GW032211 | U-233/234 | Filtered | 3.3 | 0.006 | 0.16 | 0.004 |
| RD-18 | SMRD-18-GW032211 | U-233/234 | Suspended | 0.077 | 0.024 | 0.019 | 0.007 |
| RD-18 | SMRD-18-GW032211 | U-233/234 | Total | 3.38 | NA | 0.16 | NA |
| RD-18 | SMRD-18-GW032211 | U-235/236 | Filtered | 0.124 | 0.007 | 0.018 | 0.005 |
| RD-18 | SMRD-18-GW032211 | U-235/236 | Suspended | 0.0053 U | 0.029 | 0.0072 | 0.0092 |
| RD-18 | SMRD-18-GW032211 | U-235/236 | Total | 0.129 | NA | 0.02 | NA |
| RD-18 | SMRD-18-GW032211 | U-238 | Filtered | 2.61 | 0.005 | 0.13 | 0.004 |
| RD-18 | SMRD-18-GW032211 | U-238 | Suspended | 0.057 | 0.024 | 0.017 | 0.007 |
| RD-18 | SMRD-18-GW032211 | U-238 | Total | 2.67 | NA | 0.13 | NA |
| RD-19 | SMRD-19-GW031711 | Ac-227 | Filtered | -6.9 L U | 10 | 3.2 | 5 |
| RD-19 | SMRD-19-GW031711 | Ac-227 | Suspended | -1.3 U | 4.4 | 1.3 | 2.1 |
| RD-19 | SMRD-19-GW031711 | Ac-227 | Total | -8.2 L | NA | 3.4 | NA |
| RD-19 | SMRD-19-GW031711 | Ac-228 | Filtered | 4.2 | 3.3 | 1.1 | 1.5 |
| RD-19 | SMRD-19-GW031711 | Ac-228 | Suspended | 0.31 U | 2.7 | 0.71 | 1.3 |
| RD-19 | SMRD-19-GW031711 | Ac-228 | Total | 4.5 | NA | 1.3 | NA |
| RD-19 | SMRD-19-GW031711 | Ag-108 | Filtered | -0.011 R | 0.086 | 0.025 | 0.041 |
| RD-19 | SMRD-19-GW031711 | Ag-108 | Suspended | 0.015 R | 0.048 | 0.014 | 0.023 |
| RD-19 | SMRD-19-GW031711 | Ag-108 | Total | 0.004 R | NA | 0.029 | NA |
| RD-19 | SMRD-19-GW031711 | Ag-108m | Filtered | -0.12 R | 0.92 | 0.27 | 0.44 |
| RD-19 | SMRD-19-GW031711 | Ag-108m | Suspended | 0.16 R | 0.52 | 0.15 | 0.25 |
| RD-19 | SMRD-19-GW031711 | Ag-108m | Total | 0.05 R | NA | 0.31 | NA |
| RD-19 | SMRD-19-GW031711 | Am-241 | Filtered | 0.0257 | 0.022 | 0.0091 | 0.0077 |
| RD-19 | SMRD-19-GW031711 | Am-241 | Suspended | -0.007 U | 0.026 | 0.006 | 0.011 |
| RD-19 | SMRD-19-GW031711 | Am-241 | Total | 0.019 | NA | 0.011 | NA |
| RD-19 | SMRD-19-GW031711 | Ba-133 | Filtered | -3.7 R | 11 | 3.2 | 5.2 |
| RD-19 | SMRD-19-GW031711 | Ba-133 | Suspended | 2.1 R | 5.7 | 1.7 | 2.8 |
| RD-19 | SMRD-19-GW031711 | Ba-133 | Total | -1.6 R | NA | 3.6 | NA |
| RD-19 | SMRD-19-GW031711 | Ba-137m | Filtered | -0.04 U | 1.1 | 0.32 | 0.52 |
| RD-19 | SMRD-19-GW031711 | Ba-137m | Suspended | 0.18 U | 0.65 | 0.19 | 0.31 |
| RD-19 | SMRD-19-GW031711 | Ba-137m | Total | 0.14 | NA | 0.37 | NA |
| RD-19 | SMRD-19-GW031711 | Bi-212 | Filtered | -0.03 U | 9.3 | 2.6 | 4.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-19 | SMRD-19-GW031711 | Bi-212 | Suspended | -0.3 U | 4.8 | 1.4 | 2.3 |
| RD-19 | SMRD-19-GW031711 | Bi-212 | Total | -0.3 | NA | 2.9 | NA |
| RD-19 | SMRD-19-GW031711 | Bi-214 | Filtered | 4.1 | 2.8 | 1.1 | 1.4 |
| RD-19 | SMRD-19-GW031711 | Bi-214 | Suspended | 0.58 U | 1.8 | 0.75 | 0.89 |
| RD-19 | SMRD-19-GW031711 | Bi-214 | Total | 4.7 | NA | 1.4 | NA |
| RD-19 | SMRD-19-GW031711 | C-14 | Total | 1.17 R | 2.1 | 0.66 | 1 |
| RD-19 | SMRD-19-GW031711 | Cd-113m | Filtered | 200 U | 14000 | 4200 | 6800 |
| RD-19 | SMRD-19-GW031711 | Cd-113m | Suspended | -1000 U | 6900 | 2000 | 3300 |
| RD-19 | SMRD-19-GW031711 | Cd-113m | Total | -800 | NA | 4600 | NA |
| RD-19 | SMRD-19-GW031711 | Cf-249 | Filtered | -0.006 R | 5.5 | 1.6 | 2.7 |
| RD-19 | SMRD-19-GW031711 | Cf-249 | Suspended | -0.19 R | 2.4 | 0.71 | 1.2 |
| RD-19 | SMRD-19-GW031711 | Cf-249 | Total | -0.2 R | NA | 1.8 | NA |
| RD-19 | SMRD-19-GW031711 | Cm-243/244 | Filtered | 0.0275 | 0.025 | 0.0098 | 0.0092 |
| RD-19 | SMRD-19-GW031711 | Cm-243/244 | Suspended | 0 U | 0.0046 | 0.0017 | 0.004 |
| RD-19 | SMRD-19-GW031711 | Cm-243/244 | Total | 0.0275 | NA | 0.0099 | NA |
| RD-19 | SMRD-19-GW031711 | Cm-245/246 | Filtered | 0.0218 J | 0.016 | 0.0078 | 0.0049 |
| RD-19 | SMRD-19-GW031711 | Cm-245/246 | Suspended | 0.0138 | 0.017 | 0.0064 | 0.0065 |
| RD-19 | SMRD-19-GW031711 | Cm-245/246 | Total | 0.036 J | NA | 0.01 | NA |
| RD-19 | SMRD-19-GW031711 | Co-60 | Filtered | 0.05 U | 0.94 | 0.26 | 0.43 |
| RD-19 | SMRD-19-GW031711 | Co-60 | Suspended | 0.27 U | 0.66 | 0.2 | 0.3 |
| RD-19 | SMRD-19-GW031711 | Co-60 | Total | 0.32 | NA | 0.33 | NA |
| RD-19 | SMRD-19-GW031711 | Cs-134 | Filtered | 0.003 U | 1.2 | 0.35 | 0.58 |
| RD-19 | SMRD-19-GW031711 | Cs-134 | Suspended | 0.02 U | 0.73 | 0.22 | 0.35 |
| RD-19 | SMRD-19-GW031711 | Cs-134 | Total | 0.02 | NA | 0.41 | NA |
| RD-19 | SMRD-19-GW031711 | Cs-137 | Filtered | -0.04 U | 1.2 | 0.33 | 0.55 |
| RD-19 | SMRD-19-GW031711 | Cs-137 | Suspended | 0.19 U | 0.68 | 0.2 | 0.33 |
| RD-19 | SMRD-19-GW031711 | Cs-137 | Total | 0.15 | NA | 0.39 | NA |
| RD-19 | SMRD-19-GW031711 | Eu-152 | Filtered | 0.009 U | 3.1 | 0.91 | 1.5 |
| RD-19 | SMRD-19-GW031711 | Eu-152 | Suspended | 0.32 U | 1.7 | 0.52 | 0.85 |
| RD-19 | SMRD-19-GW031711 | Eu-152 | Total | 0.3 | NA | 1 | NA |
| RD-19 | SMRD-19-GW031711 | Eu-154 | Filtered | -0.6 U | 9 | 2.6 | 4.2 |
| RD-19 | SMRD-19-GW031711 | Eu-154 | Suspended | 0 U | 6.3 | 1.8 | 3 |
| RD-19 | SMRD-19-GW031711 | Eu-154 | Total | -0.6 | NA | 3.2 | NA |
| RD-19 | SMRD-19-GW031711 | Eu-155 | Filtered | 0.49 U | 3 | 0.89 | 1.5 |
| RD-19 | SMRD-19-GW031711 | Eu-155 | Suspended | 0.46 U | 1.2 | 0.37 | 0.6 |
| RD-19 | SMRD-19-GW031711 | Eu-155 | Total | 0.95 | NA | 0.97 | NA |
| RD-19 | SMRD-19-GW031711 | gross_alpha | Filtered | 20.8 | 0.4 | 1.2 | 0.2 |
| RD-19 | SMRD-19-GW031711 | gross_alpha | Suspended | 0.03 U | 0.55 | 0.14 | 0.29 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-19 | SMRD-19-GW031711 | gross_alpha | Total | 20.8 | NA | 1.2 | NA |
| RD-19 | SMRD-19-GW031711 | gross_beta | Filtered | 8 | 3.9 | 1.6 | 2.2 |
| RD-19 | SMRD-19-GW031711 | gross_beta | Suspended | 0.34 U | 0.84 | 0.26 | 0.5 |
| RD-19 | SMRD-19-GW031711 | gross_beta | Total | 8.4 | NA | 1.6 | NA |
| RD-19 | SMRD-19-GW031711 | H-3 | Total | -12 U | 150 | 43 | 72 |
| RD-19 | SMRD-19-GW031711 | Ho-166m | Filtered | -0.05 U | 1.6 | 0.47 | 0.77 |
| RD-19 | SMRD-19-GW031711 | Ho-166m | Suspended | -0.39 U | 1.1 | 0.34 | 0.54 |
| RD-19 | SMRD-19-GW031711 | Ho-166m | Total | -0.44 | NA | 0.58 | NA |
| RD-19 | SMRD-19-GW031711 | I-129 | Filtered | -0.09 U | 0.59 | 0.18 | 0.29 |
| RD-19 | SMRD-19-GW031711 | I-129 | Suspended | 0.003 U | 0.47 | 0.14 | 0.23 |
| RD-19 | SMRD-19-GW031711 | I-129 | Total | -0.08 | NA | 0.23 | NA |
| RD-19 | SMRD-19-GW031711 | K-40 | Filtered | 11.1 | 15 | 4.4 | 7.1 |
| RD-19 | SMRD-19-GW031711 | K-40 | Suspended | 1 U | 12 | 3.5 | 5.7 |
| RD-19 | SMRD-19-GW031711 | K-40 | Total | 12.1 | NA | 5.7 | NA |
| RD-19 | SMRD-19-GW031711 | Na-22 | Filtered | -0.21 U | 1.2 | 0.36 | 0.58 |
| RD-19 | SMRD-19-GW031711 | Na-22 | Suspended | -0.04 U | 0.69 | 0.2 | 0.32 |
| RD-19 | SMRD-19-GW031711 | Na-22 | Total | -0.25 | NA | 0.41 | NA |
| RD-19 | SMRD-19-GW031711 | Nb-94 | Filtered | 0.3 U | 1.1 | 0.32 | 0.51 |
| RD-19 | SMRD-19-GW031711 | Nb-94 | Suspended | -0.13 U | 0.68 | 0.2 | 0.32 |
| RD-19 | SMRD-19-GW031711 | Nb-94 | Total | 0.16 | NA | 0.37 | NA |
| RD-19 | SMRD-19-GW031711 | Np-236 | Filtered | -0.73 U | 2.8 | 0.83 | 1.3 |
| RD-19 | SMRD-19-GW031711 | Np-236 | Suspended | -0.09 U | 1.2 | 0.36 | 0.59 |
| RD-19 | SMRD-19-GW031711 | Np-236 | Total | -0.82 | NA | 0.9 | NA |
| RD-19 | SMRD-19-GW031711 | Np-237 | Filtered | 0 U | 0.034 | 0.0061 | 0.008 |
| RD-19 | SMRD-19-GW031711 | Np-237 | Suspended | 0 U | 0.0087 | 0.0023 | 0.0054 |
| RD-19 | SMRD-19-GW031711 | Np-237 | Total | 0 | NA | 0.0065 | NA |
| RD-19 | SMRD-19-GW031711 | Np-239 | Filtered | 1.3 U | 7.1 | 2.1 | 3.5 |
| RD-19 | SMRD-19-GW031711 | Np-239 | Suspended | 0.4 U | 3.7 | 1.1 | 1.8 |
| RD-19 | SMRD-19-GW031711 | Np-239 | Total | 1.7 | NA | 2.4 | NA |
| RD-19 | SMRD-19-GW031711 | Pa-231 | Filtered | 21 U | 48 | 15 | 23 |
| RD-19 | SMRD-19-GW031711 | Pa-231 | Suspended | 0.09 U | 26 | 7.6 | 13 |
| RD-19 | SMRD-19-GW031711 | Pa-231 | Total | 21 | NA | 16 | NA |
| RD-19 | SMRD-19-GW031711 | Pb-212 | Filtered | 0.8 U | 2.4 | 0.74 | 1.2 |
| RD-19 | SMRD-19-GW031711 | Pb-212 | Suspended | 0.22 U | 1.2 | 0.44 | 0.59 |
| RD-19 | SMRD-19-GW031711 | Pb-212 | Total | 1.01 | NA | 0.86 | NA |
| RD-19 | SMRD-19-GW031711 | Pb-214 | Filtered | 2.4 | 2.6 | 1 | 1.3 |
| RD-19 | SMRD-19-GW031711 | Pb-214 | Suspended | 0.02 U | 1.5 | 0.51 | 0.72 |
| RD-19 | SMRD-19-GW031711 | Pb-214 | Total | 2.5 | NA | 1.2 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-19 | SMRD-19-GW031711 | Pu-238 | Filtered | 0.0023 U | 0.024 | 0.006 | 0.0091 |
| RD-19 | SMRD-19-GW031711 | Pu-238 | Suspended | 0.0228 | 0.021 | 0.0083 | 0.0081 |
| RD-19 | SMRD-19-GW031711 | Pu-238 | Total | 0.025 | NA | 0.01 | NA |
| RD-19 | SMRD-19-GW031711 | Pu-239/240 | Filtered | -0.0045 U | 0.027 | 0.0056 | 0.011 |
| RD-19 | SMRD-19-GW031711 | Pu-239/240 | Suspended | 0.0035 U | 0.0047 | 0.0025 | 0.0046 |
| RD-19 | SMRD-19-GW031711 | Pu-239/240 | Total | -0.001 | NA | 0.0061 | NA |
| RD-19 | SMRD-19-GW031711 | Pu-242 | Filtered | 0.0023 U | 0.017 | 0.0039 | 0.0053 |
| RD-19 | SMRD-19-GW031711 | Pu-242 | Suspended | 0.0018 U | 0.013 | 0.0032 | 0.0041 |
| RD-19 | SMRD-19-GW031711 | Pu-242 | Total | 0.004 | NA | 0.005 | NA |
| RD-19 | SMRD-19-GW031711 | Ra-226 | Filtered | 1.29 | 0.11 | 0.12 | 0.06 |
| RD-19 | SMRD-19-GW031711 | Ra-226 | Suspended | 0.102 | 0.17 | 0.056 | 0.09 |
| RD-19 | SMRD-19-GW031711 | Ra-226 | Total | 1.39 | NA | 0.13 | NA |
| RD-19 | SMRD-19-GW031711 | Sb-125 | Filtered | -0.3 U | 9.5 | 2.8 | 4.6 |
| RD-19 | SMRD-19-GW031711 | Sb-125 | Suspended | 0.09 U | 5.5 | 1.6 | 2.7 |
| RD-19 | SMRD-19-GW031711 | Sb-125 | Total | -0.2 | NA | 3.2 | NA |
| RD-19 | SMRD-19-GW031711 | Sn-126 | Filtered | 0.14 U | 1.3 | 0.37 | 0.6 |
| RD-19 | SMRD-19-GW031711 | Sn-126 | Suspended | 0.18 U | 0.66 | 0.2 | 0.31 |
| RD-19 | SMRD-19-GW031711 | Sn-126 | Total | 0.32 | NA | 0.42 | NA |
| RD-19 | SMRD-19-GW031711 | Sr-90 | Filtered | 0.112 | 0.16 | 0.049 | 0.088 |
| RD-19 | SMRD-19-GW031711 | Sr-90 | Suspended | 0.066 U | 0.12 | 0.038 | 0.073 |
| RD-19 | SMRD-19-GW031711 | Sr-90 | Total | 0.179 | NA | 0.062 | NA |
| RD-19 | SMRD-19-GW031711 | Tc-99 | Filtered | -0.14 U | 1.4 | 0.41 | 0.68 |
| RD-19 | SMRD-19-GW031711 | Tc-99 | Suspended | 0.24 U | 1.7 | 0.5 | 0.82 |
| RD-19 | SMRD-19-GW031711 | Tc-99 | Total | 0.09 | NA | 0.65 | NA |
| RD-19 | SMRD-19-GW031711 | Te-125m | Filtered | -0.07 U | 2.2 | 0.65 | 1.1 |
| RD-19 | SMRD-19-GW031711 | Te-125m | Suspended | 0.02 U | 1.3 | 0.37 | 0.61 |
| RD-19 | SMRD-19-GW031711 | Te-125m | Total | -0.05 | NA | 0.75 | NA |
| RD-19 | SMRD-19-GW031711 | Th-231 | Filtered | 0.598 | 0.009 | 0.05 | 0.007 |
| RD-19 | SMRD-19-GW031711 | Th-231 | Suspended | 0.005 U | 0.0068 | 0.0035 | 0.0052 |
| RD-19 | SMRD-19-GW031711 | Th-231 | Total | 0.605 | NA | 0.051 | NA |
| RD-19 | SMRD-19-GW031711 | Th-234 | Filtered | 0.9 U | 21 | 6.6 | 10 |
| RD-19 | SMRD-19-GW031711 | Th-234 | Suspended | -0.4 U | 8.7 | 2.9 | 4.3 |
| RD-19 | SMRD-19-GW031711 | Th-234 | Total | 0.5 | NA | 7.3 | NA |
| RD-19 | SMRD-19-GW031711 | Tl-208 | Filtered | 0.78 | 1.3 | 0.41 | 0.61 |
| RD-19 | SMRD-19-GW031711 | Tl-208 | Suspended | -0.31 U | 0.82 | 0.38 | 0.39 |
| RD-19 | SMRD-19-GW031711 | Tl-208 | Total | 0.47 | NA | 0.56 | NA |
| RD-19 | SMRD-19-GW031711 | Tm-171 | Filtered | 7 U | 310 | 92 | 150 |
| RD-19 | SMRD-19-GW031711 | Tm-171 | Suspended | 8 U | 110 | 32 | 53 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-19 | SMRD-19-GW031711 | Tm-171 | Total | 15 | NA | 98 | NA |
| RD-19 | SMRD-19-GW031711 | U-233/234 | Filtered | 14 | 0.02 | 0.62 | 0.008 |
| RD-19 | SMRD-19-GW031711 | U-233/234 | Suspended | 0.0275 | 0.0054 | 0.0088 | 0.0042 |
| RD-19 | SMRD-19-GW031711 | U-233/234 | Total | 14.1 | NA | 0.62 | NA |
| RD-19 | SMRD-19-GW031711 | U-235/236 | Filtered | 0.598 | 0.009 | 0.05 | 0.007 |
| RD-19 | SMRD-19-GW031711 | U-235/236 | Suspended | 0.005 U | 0.0068 | 0.0035 | 0.0052 |
| RD-19 | SMRD-19-GW031711 | U-235/236 | Total | 0.603 | NA | 0.051 | NA |
| RD-19 | SMRD-19-GW031711 | U-238 | Filtered | 13.2 | 0.02 | 0.58 | 0.005 |
| RD-19 | SMRD-19-GW031711 | U-238 | Suspended | 0.0021 U | 0.0054 | 0.0045 | 0.0042 |
| RD-19 | SMRD-19-GW031711 | U-238 | Total | 13.2 | NA | 0.58 | NA |
| RD-20 | SMRD-20-GW032211 | Ac-227 | Filtered | -8.8 L U | 10 | 3.2 | 5 |
| RD-20 | SMRD-20-GW032211 | Ac-227 | Suspended | 0.1 U | 4.1 | 1.2 | 2 |
| RD-20 | SMRD-20-GW032211 | Ac-227 | Total | -8.7 L | NA | 3.4 | NA |
| RD-20 | SMRD-20-GW032211 | Ac-228 | Filtered | 3.1 | 3.9 | 1.2 | 1.8 |
| RD-20 | SMRD-20-GW032211 | Ac-228 | Suspended | 1.65 | 2.3 | 0.71 | 1.1 |
| RD-20 | SMRD-20-GW032211 | Ac-228 | Total | 4.7 | NA | 1.4 | NA |
| RD-20 | SMRD-20-GW032211 | Ag-108 | Filtered | 0.005 U R | 0.056 | 0.016 | 0.026 |
| RD-20 | SMRD-20-GW032211 | Ag-108 | Suspended | -0.006 U R | 0.051 | 0.015 | 0.025 |
| RD-20 | SMRD-20-GW032211 | Ag-108 | Total | -0.0005 R | NA | 0.022 | NA |
| RD-20 | SMRD-20-GW032211 | Ag-108m | Filtered | 0.06 U R | 0.6 | 0.17 | 0.28 |
| RD-20 | SMRD-20-GW032211 | Ag-108m | Suspended | -0.06 U R | 0.55 | 0.16 | 0.26 |
| RD-20 | SMRD-20-GW032211 | Ag-108m | Total | -0.006 R | NA | 0.24 | NA |
| RD-20 | SMRD-20-GW032211 | Ba-133 | Filtered | -0.8 U R | 12 | 3.4 | 5.6 |
| RD-20 | SMRD-20-GW032211 | Ba-133 | Suspended | -0.6 U R | 5.8 | 1.7 | 2.8 |
| RD-20 | SMRD-20-GW032211 | Ba-133 | Total | -1.4 R | NA | 3.8 | NA |
| RD-20 | SMRD-20-GW032211 | Ba-137m | Filtered | -0.19 U | 1.1 | 0.31 | 0.5 |
| RD-20 | SMRD-20-GW032211 | Ba-137m | Suspended | 0.2 U | 0.68 | 0.2 | 0.32 |
| RD-20 | SMRD-20-GW032211 | Ba-137m | Total | 0.008 | NA | 0.37 | NA |
| RD-20 | SMRD-20-GW032211 | Bi-212 | Filtered | -1.2 U | 9.1 | 4.1 | 4.3 |
| RD-20 | SMRD-20-GW032211 | Bi-212 | Suspended | 0.6 U | 5.4 | 1.5 | 2.6 |
| RD-20 | SMRD-20-GW032211 | Bi-212 | Total | -0.6 | NA | 4.4 | NA |
| RD-20 | SMRD-20-GW032211 | Bi-214 | Filtered | 1.42 | 2.6 | 0.86 | 1.2 |
| RD-20 | SMRD-20-GW032211 | Bi-214 | Suspended | 0.1 U | 1.8 | 0.67 | 0.86 |
| RD-20 | SMRD-20-GW032211 | Bi-214 | Total | 1.5 | NA | 1.1 | NA |
| RD-20 | SMRD-20-GW032211 | Cd-113m | Filtered | 400 U | 14000 | 4100 | 6700 |
| RD-20 | SMRD-20-GW032211 | Cd-113m | Suspended | 2000 U | 6700 | 2000 | 3200 |
| RD-20 | SMRD-20-GW032211 | Cd-113m | Total | 2400 | NA | 4500 | NA |
| RD-20 | SMRD-20-GW032211 | Cf-249 | Filtered | -0.7 U R | 5.6 | 1.7 | 2.7 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-20 | SMRD-20-GW032211 | Cf-249 | Suspended | -0.07 U R | 3.2 | 0.93 | 1.5 |
| RD-20 | SMRD-20-GW032211 | Cf-249 | Total | -0.8 R | NA | 1.9 | NA |
| RD-20 | SMRD-20-GW032211 | Co-60 | Filtered | -0.0009 U | 1.3 | 0.38 | 0.63 |
| RD-20 | SMRD-20-GW032211 | Co-60 | Suspended | -0.09 U | 0.8 | 0.23 | 0.37 |
| RD-20 | SMRD-20-GW032211 | Co-60 | Total | -0.09 | NA | 0.45 | NA |
| RD-20 | SMRD-20-GW032211 | Cs-134 | Filtered | 0.05 U | 0.73 | 0.21 | 0.34 |
| RD-20 | SMRD-20-GW032211 | Cs-134 | Suspended | 0.02 U | 1 | 0.31 | 0.5 |
| RD-20 | SMRD-20-GW032211 | Cs-134 | Total | 0.07 | NA | 0.37 | NA |
| RD-20 | SMRD-20-GW032211 | Cs-137 | Filtered | -0.2 U | 1.1 | 0.33 | 0.53 |
| RD-20 | SMRD-20-GW032211 | Cs-137 | Suspended | 0.21 U | 0.72 | 0.21 | 0.34 |
| RD-20 | SMRD-20-GW032211 | Cs-137 | Total | 0.01 | NA | 0.39 | NA |
| RD-20 | SMRD-20-GW032211 | Eu-152 | Filtered | -0.31 U | 3.3 | 0.97 | 1.6 |
| RD-20 | SMRD-20-GW032211 | Eu-152 | Suspended | 0.04 U | 1.7 | 0.5 | 0.82 |
| RD-20 | SMRD-20-GW032211 | Eu-152 | Total | -0.3 | NA | 1.1 | NA |
| RD-20 | SMRD-20-GW032211 | Eu-154 | Filtered | -1.2 U | 8.5 | 2.5 | 4 |
| RD-20 | SMRD-20-GW032211 | Eu-154 | Suspended | 0.3 U | 6.2 | 1.8 | 2.9 |
| RD-20 | SMRD-20-GW032211 | Eu-154 | Total | -0.8 | NA | 3 | NA |
| RD-20 | SMRD-20-GW032211 | Eu-155 | Filtered | 0.7 U | 3 | 0.89 | 1.4 |
| RD-20 | SMRD-20-GW032211 | Eu-155 | Suspended | 0.11 U | 1.2 | 0.34 | 0.56 |
| RD-20 | SMRD-20-GW032211 | Eu-155 | Total | 0.82 | NA | 0.95 | NA |
| RD-20 | SMRD-20-GW032211 | gross_alpha | Filtered | 9.41 | 0.4 | 0.69 | 0.19 |
| RD-20 | SMRD-20-GW032211 | gross_alpha | Suspended | 0.15 U | 0.34 | 0.1 | 0.17 |
| RD-20 | SMRD-20-GW032211 | gross_alpha | Total | 9.56 | NA | 0.7 | NA |
| RD-20 | SMRD-20-GW032211 | gross_beta | Filtered | 5 | 4.1 | 1.4 | 2.4 |
| RD-20 | SMRD-20-GW032211 | gross_beta | Suspended | 0.76 | 0.73 | 0.25 | 0.43 |
| RD-20 | SMRD-20-GW032211 | gross_beta | Total | 5.8 | NA | 1.5 | NA |
| RD-20 | SMRD-20-GW032211 | H-3 | Total | -9 U | 170 | 49 | 81 |
| RD-20 | SMRD-20-GW032211 | Ho-166m | Filtered | -0.5 U | 2 | 0.59 | 0.95 |
| RD-20 | SMRD-20-GW032211 | Ho-166m | Suspended | 0.09 U | 1.3 | 0.37 | 0.6 |
| RD-20 | SMRD-20-GW032211 | Ho-166m | Total | -0.4 | NA | 0.69 | NA |
| RD-20 | SMRD-20-GW032211 | K-40 | Filtered | -2.9 U | 17 | 4.9 | 8.1 |
| RD-20 | SMRD-20-GW032211 | K-40 | Suspended | 5.9 | 10 | 3.4 | 4.9 |
| RD-20 | SMRD-20-GW032211 | K-40 | Total | 3 | NA | 6 | NA |
| RD-20 | SMRD-20-GW032211 | Na-22 | Filtered | -0.06 U | 0.91 | 0.25 | 0.41 |
| RD-20 | SMRD-20-GW032211 | Na-22 | Suspended | 0.05 U | 0.63 | 0.18 | 0.29 |
| RD-20 | SMRD-20-GW032211 | Na-22 | Total | -0.02 | NA | 0.31 | NA |
| RD-20 | SMRD-20-GW032211 | Nb-94 | Filtered | 0.46 | 0.97 | 0.29 | 0.46 |
| RD-20 | SMRD-20-GW032211 | Nb-94 | Suspended | -0.14 U | 0.7 | 0.21 | 0.33 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-20 | SMRD-20-GW032211 | Nb-94 | Total | 0.32 | NA | 0.36 | NA |
| RD-20 | SMRD-20-GW032211 | Np-236 | Filtered | 0.03 U | 2.1 | 0.62 | 1 |
| RD-20 | SMRD-20-GW032211 | Np-236 | Suspended | -0.37 U | 1.2 | 0.35 | 0.57 |
| RD-20 | SMRD-20-GW032211 | Np-236 | Total | -0.34 | NA | 0.71 | NA |
| RD-20 | SMRD-20-GW032211 | Np-239 | Filtered | -0.1 U | 7.3 | 2.2 | 3.5 |
| RD-20 | SMRD-20-GW032211 | Np-239 | Suspended | 0.6 U | 3.8 | 1.1 | 1.8 |
| RD-20 | SMRD-20-GW032211 | Np-239 | Total | 0.5 | NA | 2.4 | NA |
| RD-20 | SMRD-20-GW032211 | Pa-231 | Filtered | 3 U | 49 | 15 | 24 |
| RD-20 | SMRD-20-GW032211 | Pa-231 | Suspended | -0.6 U | 29 | 8.5 | 14 |
| RD-20 | SMRD-20-GW032211 | Pa-231 | Total | 2 | NA | 17 | NA |
| RD-20 | SMRD-20-GW032211 | Pb-212 | Filtered | 1.05 U | 2.3 | 0.59 | 1.1 |
| RD-20 | SMRD-20-GW032211 | Pb-212 | Suspended | -0.05 U | 1 | 0.32 | 0.5 |
| RD-20 | SMRD-20-GW032211 | Pb-212 | Total | 1 | NA | 0.68 | NA |
| RD-20 | SMRD-20-GW032211 | Pb-214 | Filtered | 1.2 U | 2.7 | 1.1 | 1.3 |
| RD-20 | SMRD-20-GW032211 | Pb-214 | Suspended | 0.009 U | 1.5 | 0.55 | 0.74 |
| RD-20 | SMRD-20-GW032211 | Pb-214 | Total | 1.2 | NA | 1.3 | NA |
| RD-20 | SMRD-20-GW032211 | Sb-125 | Filtered | 2.9 U | 12 | 3.5 | 5.6 |
| RD-20 | SMRD-20-GW032211 | Sb-125 | Suspended | 0.09 U | 5.4 | 1.6 | 2.6 |
| RD-20 | SMRD-20-GW032211 | Sb-125 | Total | 3 | NA | 3.8 | NA |
| RD-20 | SMRD-20-GW032211 | Sn-126 | Filtered | 0.51 U | 1.2 | 0.36 | 0.57 |
| RD-20 | SMRD-20-GW032211 | Sn-126 | Suspended | 0.02 U | 0.75 | 0.22 | 0.36 |
| RD-20 | SMRD-20-GW032211 | Sn-126 | Total | 0.53 | NA | 0.42 | NA |
| RD-20 | SMRD-20-GW032211 | Sr-90 | Filtered | 0.009 U | 0.048 | 0.014 | 0.027 |
| RD-20 | SMRD-20-GW032211 | Sr-90 | Suspended | 0 U | 0.12 | 0.035 | 0.069 |
| RD-20 | SMRD-20-GW032211 | Sr-90 | Total | 0 | NA | 0.035 | NA |
| RD-20 | SMRD-20-GW032211 | Te-125m | Filtered | 0.66 U | 2.7 | 0.8 | 1.3 |
| RD-20 | SMRD-20-GW032211 | Te-125m | Suspended | 0.02 U | 1.2 | 0.36 | 0.6 |
| RD-20 | SMRD-20-GW032211 | Te-125m | Total | 0.68 | NA | 0.88 | NA |
| RD-20 | SMRD-20-GW032211 | Th-231 | Filtered | 0.201 | 0.007 | 0.024 | 0.005 |
| RD-20 | SMRD-20-GW032211 | Th-231 | Suspended | 0 U | 0.013 | 0.004 | 0.01 |
| RD-20 | SMRD-20-GW032211 | Th-231 | Total | 0.201 | NA | 0.025 | NA |
| RD-20 | SMRD-20-GW032211 | Th-234 | Filtered | -5 U | 25 | 11 | 12 |
| RD-20 | SMRD-20-GW032211 | Th-234 | Suspended | 0.8 U | 7.2 | 2.2 | 3.5 |
| RD-20 | SMRD-20-GW032211 | Th-234 | Total | -4 | NA | 12 | NA |
| RD-20 | SMRD-20-GW032211 | Tl-208 | Filtered | 0.54 U | 1.4 | 0.52 | 0.68 |
| RD-20 | SMRD-20-GW032211 | Tl-208 | Suspended | -0.44 U | 0.88 | 0.68 | 0.42 |
| RD-20 | SMRD-20-GW032211 | Tl-208 | Total | 0.09 | NA | 0.85 | NA |
| RD-20 | SMRD-20-GW032211 | Tm-171 | Filtered | -41 U | 320 | 96 | 160 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|-------|----------------|
| RD-20 | SMRD-20-GW032211 | Tm-171 | Suspended | 3 U | 120 | 36 | 59 |
| RD-20 | SMRD-20-GW032211 | Tm-171 | Total | -40 | NA | 100 | NA |
| RD-20 | SMRD-20-GW032211 | U-233/234 | Filtered | 3.86 | 0.006 | 0.19 | 0.004 |
| RD-20 | SMRD-20-GW032211 | U-233/234 | Suspended | 0.024 | 0.011 | 0.013 | 0.008 |
| RD-20 | SMRD-20-GW032211 | U-233/234 | Total | 3.89 | NA | 0.19 | NA |
| RD-20 | SMRD-20-GW032211 | U-235/236 | Filtered | 0.201 | 0.007 | 0.024 | 0.005 |
| RD-20 | SMRD-20-GW032211 | U-235/236 | Suspended | 0 U | 0.013 | 0.004 | 0.01 |
| RD-20 | SMRD-20-GW032211 | U-235/236 | Total | 0.201 | NA | 0.025 | NA |
| RD-20 | SMRD-20-GW032211 | U-238 | Filtered | 3.16 | 0.006 | 0.16 | 0.004 |
| RD-20 | SMRD-20-GW032211 | U-238 | Suspended | 0.006 U | 0.026 | 0.01 | 0.008 |
| RD-20 | SMRD-20-GW032211 | U-238 | Total | 3.17 | NA | 0.16 | NA |
| RD-21 | SMRD-21-GW040111 | Ac-227 | Filtered | -0.2 U | 11 | 3.2 | 5.2 |
| RD-21 | SMRD-21-GW040111 | Ac-227 | Suspended | -3.4 L U | 4.6 | 1.4 | 2.2 |
| RD-21 | SMRD-21-GW040111 | Ac-227 | Total | -3.7 | NA | 3.5 | NA |
| RD-21 | SMRD-21-GW040111 | Ac-228 | Filtered | 2.1 | 3.5 | 1.1 | 1.6 |
| RD-21 | SMRD-21-GW040111 | Ac-228 | Suspended | -1.2 U | 3.2 | 1.8 | 1.5 |
| RD-21 | SMRD-21-GW040111 | Ac-228 | Total | 0.9 | NA | 2.1 | NA |
| RD-21 | SMRD-21-GW040111 | Ag-108 | Filtered | 0.02 U R | 0.083 | 0.025 | 0.04 |
| RD-21 | SMRD-21-GW040111 | Ag-108 | Suspended | -0.004 U R | 0.048 | 0.014 | 0.023 |
| RD-21 | SMRD-21-GW040111 | Ag-108 | Total | 0.016 R | NA | 0.028 | NA |
| RD-21 | SMRD-21-GW040111 | Ag-108m | Filtered | 0.22 U R | 0.89 | 0.26 | 0.43 |
| RD-21 | SMRD-21-GW040111 | Ag-108m | Suspended | -0.04 U R | 0.51 | 0.15 | 0.25 |
| RD-21 | SMRD-21-GW040111 | Ag-108m | Total | 0.17 R | NA | 0.3 | NA |
| RD-21 | SMRD-21-GW040111 | Ba-133 | Filtered | -0.4 U R | 10 | 3 | 5 |
| RD-21 | SMRD-21-GW040111 | Ba-133 | Suspended | -0.05 U R | 5.9 | 1.7 | 2.9 |
| RD-21 | SMRD-21-GW040111 | Ba-133 | Total | -0.4 R | NA | 3.5 | NA |
| RD-21 | SMRD-21-GW040111 | Ba-137m | Filtered | 0.25 U | 0.98 | 0.29 | 0.46 |
| RD-21 | SMRD-21-GW040111 | Ba-137m | Suspended | 0.21 U | 0.71 | 0.21 | 0.34 |
| RD-21 | SMRD-21-GW040111 | Ba-137m | Total | 0.46 | NA | 0.36 | NA |
| RD-21 | SMRD-21-GW040111 | Bi-212 | Filtered | -5 U | 8 | 19 | 4 |
| RD-21 | SMRD-21-GW040111 | Bi-212 | Suspended | 4.2 | 5.6 | 1.8 | 2.7 |
| RD-21 | SMRD-21-GW040111 | Bi-212 | Total | -1 | NA | 19 | NA |
| RD-21 | SMRD-21-GW040111 | Bi-214 | Filtered | 1.61 | 2.5 | 0.9 | 1.2 |
| RD-21 | SMRD-21-GW040111 | Bi-214 | Suspended | 1.31 | 1.7 | 0.67 | 0.8 |
| RD-21 | SMRD-21-GW040111 | Bi-214 | Total | 2.9 | NA | 1.1 | NA |
| RD-21 | SMRD-21-GW040111 | Cd-113m | Filtered | -800 U | 11000 | 3300 | 5400 |
| RD-21 | SMRD-21-GW040111 | Cd-113m | Suspended | -1900 U | 7200 | 2100 | 3500 |
| RD-21 | SMRD-21-GW040111 | Cd-113m | Total | -2700 | NA | 3900 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-21 | SMRD-21-GW040111 | Cf-249 | Filtered | -1.3 U R | 5.3 | 1.6 | 2.6 |
| RD-21 | SMRD-21-GW040111 | Cf-249 | Suspended | 0.44 U R | 3.1 | 0.92 | 1.5 |
| RD-21 | SMRD-21-GW040111 | Cf-249 | Total | -0.9 R | NA | 1.8 | NA |
| RD-21 | SMRD-21-GW040111 | Co-60 | Filtered | -0.05 U | 1.1 | 0.31 | 0.51 |
| RD-21 | SMRD-21-GW040111 | Co-60 | Suspended | 0.12 U | 0.69 | 0.2 | 0.32 |
| RD-21 | SMRD-21-GW040111 | Co-60 | Total | 0.07 | NA | 0.37 | NA |
| RD-21 | SMRD-21-GW040111 | Cs-134 | Filtered | 0.02 U | 0.9 | 0.26 | 0.43 |
| RD-21 | SMRD-21-GW040111 | Cs-134 | Suspended | -0.21 U | 0.78 | 0.23 | 0.38 |
| RD-21 | SMRD-21-GW040111 | Cs-134 | Total | -0.19 | NA | 0.35 | NA |
| RD-21 | SMRD-21-GW040111 | Cs-137 | Filtered | 0.26 U | 1 | 0.31 | 0.49 |
| RD-21 | SMRD-21-GW040111 | Cs-137 | Suspended | 0.22 U | 0.75 | 0.22 | 0.36 |
| RD-21 | SMRD-21-GW040111 | Cs-137 | Total | 0.48 | NA | 0.38 | NA |
| RD-21 | SMRD-21-GW040111 | Eu-152 | Filtered | -0.17 U | 2.5 | 0.72 | 1.2 |
| RD-21 | SMRD-21-GW040111 | Eu-152 | Suspended | -0.34 U | 1.8 | 0.55 | 0.89 |
| RD-21 | SMRD-21-GW040111 | Eu-152 | Total | -0.51 | NA | 0.9 | NA |
| RD-21 | SMRD-21-GW040111 | Eu-154 | Filtered | -0.09 U | 9.7 | 2.8 | 4.6 |
| RD-21 | SMRD-21-GW040111 | Eu-154 | Suspended | -0.3 U | 5.7 | 1.6 | 2.7 |
| RD-21 | SMRD-21-GW040111 | Eu-154 | Total | -0.4 | NA | 3.3 | NA |
| RD-21 | SMRD-21-GW040111 | Eu-155 | Filtered | 0.91 U | 2.2 | 0.67 | 1.1 |
| RD-21 | SMRD-21-GW040111 | Eu-155 | Suspended | 0.52 U | 1.3 | 0.4 | 0.64 |
| RD-21 | SMRD-21-GW040111 | Eu-155 | Total | 1.43 | NA | 0.78 | NA |
| RD-21 | SMRD-21-GW040111 | gross_alpha | Filtered | 9.71 | 0.49 | 0.68 | 0.26 |
| RD-21 | SMRD-21-GW040111 | gross_alpha | Suspended | 0.56 | 0.68 | 0.23 | 0.36 |
| RD-21 | SMRD-21-GW040111 | gross_alpha | Total | 10.3 | NA | 0.72 | NA |
| RD-21 | SMRD-21-GW040111 | gross_beta | Filtered | 3.2 | 3.2 | 1.1 | 1.9 |
| RD-21 | SMRD-21-GW040111 | gross_beta | Suspended | 0.14 U | 0.86 | 0.25 | 0.51 |
| RD-21 | SMRD-21-GW040111 | gross_beta | Total | 3.4 | NA | 1.1 | NA |
| RD-21 | SMRD-21-GW040111 | H-3 | Total | 4 U | 120 | 34 | 57 |
| RD-21 | SMRD-21-GW040111 | Ho-166m | Filtered | -0.45 U | 1.8 | 0.54 | 0.87 |
| RD-21 | SMRD-21-GW040111 | Ho-166m | Suspended | 0.43 U | 1.1 | 0.33 | 0.52 |
| RD-21 | SMRD-21-GW040111 | Ho-166m | Total | -0.01 | NA | 0.64 | NA |
| RD-21 | SMRD-21-GW040111 | K-40 | Filtered | 14.4 | 14 | 4.9 | 6.7 |
| RD-21 | SMRD-21-GW040111 | K-40 | Suspended | 4.9 U | 13 | 4.4 | 6.1 |
| RD-21 | SMRD-21-GW040111 | K-40 | Total | 19.3 | NA | 6.6 | NA |
| RD-21 | SMRD-21-GW040111 | Na-22 | Filtered | 0 U | 1.8 | 0.53 | 0.88 |
| RD-21 | SMRD-21-GW040111 | Na-22 | Suspended | -0.01 U | 0.78 | 0.22 | 0.37 |
| RD-21 | SMRD-21-GW040111 | Na-22 | Total | -0.01 | NA | 0.58 | NA |
| RD-21 | SMRD-21-GW040111 | Nb-94 | Filtered | 0.17 U | 0.92 | 0.27 | 0.44 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-21 | SMRD-21-GW040111 | Nb-94 | Suspended | -0.15 U | 0.74 | 0.22 | 0.36 |
| RD-21 | SMRD-21-GW040111 | Nb-94 | Total | 0.02 | NA | 0.35 | NA |
| RD-21 | SMRD-21-GW040111 | Np-236 | Filtered | 0.02 U | 2.6 | 0.76 | 1.2 |
| RD-21 | SMRD-21-GW040111 | Np-236 | Suspended | -0.05 U | 1.2 | 0.35 | 0.57 |
| RD-21 | SMRD-21-GW040111 | Np-236 | Total | -0.03 | NA | 0.83 | NA |
| RD-21 | SMRD-21-GW040111 | Np-239 | Filtered | -0.6 U | 6.8 | 2 | 3.3 |
| RD-21 | SMRD-21-GW040111 | Np-239 | Suspended | 0.7 U | 3.6 | 1.1 | 1.8 |
| RD-21 | SMRD-21-GW040111 | Np-239 | Total | 0.07 | NA | 2.3 | NA |
| RD-21 | SMRD-21-GW040111 | Pa-231 | Filtered | -0.7 U | 48 | 14 | 23 |
| RD-21 | SMRD-21-GW040111 | Pa-231 | Suspended | 5.3 U | 26 | 7.9 | 13 |
| RD-21 | SMRD-21-GW040111 | Pa-231 | Total | 5 | NA | 16 | NA |
| RD-21 | SMRD-21-GW040111 | Pb-212 | Filtered | 0.28 U | 2.4 | 0.85 | 1.2 |
| RD-21 | SMRD-21-GW040111 | Pb-212 | Suspended | 0.44 U | 0.99 | 0.31 | 0.48 |
| RD-21 | SMRD-21-GW040111 | Pb-212 | Total | 0.72 | NA | 0.9 | NA |
| RD-21 | SMRD-21-GW040111 | Pb-214 | Filtered | 0.97 U | 2.5 | 0.7 | 1.2 |
| RD-21 | SMRD-21-GW040111 | Pb-214 | Suspended | 0.07 U | 1.4 | 0.38 | 0.68 |
| RD-21 | SMRD-21-GW040111 | Pb-214 | Total | 1.04 | NA | 0.8 | NA |
| RD-21 | SMRD-21-GW040111 | Sb-125 | Filtered | 3.4 U | 11 | 3.2 | 5.2 |
| RD-21 | SMRD-21-GW040111 | Sb-125 | Suspended | 1.8 U | 5.4 | 1.6 | 2.6 |
| RD-21 | SMRD-21-GW040111 | Sb-125 | Total | 5.2 | NA | 3.6 | NA |
| RD-21 | SMRD-21-GW040111 | Sn-126 | Filtered | 0.44 | 0.93 | 0.28 | 0.44 |
| RD-21 | SMRD-21-GW040111 | Sn-126 | Suspended | 0.29 U | 0.75 | 0.23 | 0.36 |
| RD-21 | SMRD-21-GW040111 | Sn-126 | Total | 0.73 | NA | 0.36 | NA |
| RD-21 | SMRD-21-GW040111 | Sr-90 | Filtered | 0.097 | 0.11 | 0.035 | 0.063 |
| RD-21 | SMRD-21-GW040111 | Sr-90 | Suspended | -0.004 U | 0.054 | 0.015 | 0.03 |
| RD-21 | SMRD-21-GW040111 | Sr-90 | Total | 0.093 | NA | 0.039 | NA |
| RD-21 | SMRD-21-GW040111 | Te-125m | Filtered | 0.79 U | 2.5 | 0.74 | 1.2 |
| RD-21 | SMRD-21-GW040111 | Te-125m | Suspended | 0.41 U | 1.2 | 0.37 | 0.6 |
| RD-21 | SMRD-21-GW040111 | Te-125m | Total | 1.19 | NA | 0.83 | NA |
| RD-21 | SMRD-21-GW040111 | Th-231 | Filtered | 0.285 | 0.006 | 0.029 | 0.005 |
| RD-21 | SMRD-21-GW040111 | Th-231 | Suspended | 0.003 U | 0.016 | 0.004 | 0.0051 |
| RD-21 | SMRD-21-GW040111 | Th-231 | Total | 0.288 | NA | 0.029 | NA |
| RD-21 | SMRD-21-GW040111 | Th-234 | Filtered | -0.04 U | 20 | 6.3 | 9.6 |
| RD-21 | SMRD-21-GW040111 | Th-234 | Suspended | 1.5 U | 9.1 | 3.1 | 4.5 |
| RD-21 | SMRD-21-GW040111 | Th-234 | Total | 1.4 | NA | 7 | NA |
| RD-21 | SMRD-21-GW040111 | Tl-208 | Filtered | 0.61 U | 1.3 | 0.48 | 0.64 |
| RD-21 | SMRD-21-GW040111 | Tl-208 | Suspended | 0.59 | 0.7 | 0.23 | 0.33 |
| RD-21 | SMRD-21-GW040111 | Tl-208 | Total | 1.2 | NA | 0.54 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|--------|--------|----------------|
| RD-21 | SMRD-21-GW040111 | Tm-171 | Filtered | 0 U | 360 | 110 | 170 |
| RD-21 | SMRD-21-GW040111 | Tm-171 | Suspended | 22 U | 120 | 35 | 57 |
| RD-21 | SMRD-21-GW040111 | Tm-171 | Total | 20 | NA | 110 | NA |
| RD-21 | SMRD-21-GW040111 | U-233/234 | Filtered | 5.97 | 0.02 | 0.27 | 0.006 |
| RD-21 | SMRD-21-GW040111 | U-233/234 | Suspended | 0.0124 | 0.019 | 0.0079 | 0.0071 |
| RD-21 | SMRD-21-GW040111 | U-233/234 | Total | 5.98 | NA | 0.27 | NA |
| RD-21 | SMRD-21-GW040111 | U-235/236 | Filtered | 0.285 | 0.006 | 0.028 | 0.005 |
| RD-21 | SMRD-21-GW040111 | U-235/236 | Suspended | 0.003 U | 0.016 | 0.004 | 0.0051 |
| RD-21 | SMRD-21-GW040111 | U-235/236 | Total | 0.287 | NA | 0.029 | NA |
| RD-21 | SMRD-21-GW040111 | U-238 | Filtered | 5.07 | 0.01 | 0.23 | 0.004 |
| RD-21 | SMRD-21-GW040111 | U-238 | Suspended | 0.0178 | 0.0053 | 0.0072 | 0.0041 |
| RD-21 | SMRD-21-GW040111 | U-238 | Total | 5.09 | NA | 0.23 | NA |
| RD-22 | SMRD-22-GW033111 | Ac-227 | Filtered | 0.3 U | 8.1 | 2.4 | 3.9 |
| RD-22 | SMRD-22-GW033111 | Ac-227 | Suspended | -0.9 U | 3.2 | 0.97 | 1.6 |
| RD-22 | SMRD-22-GW033111 | Ac-227 | Total | -0.6 | NA | 2.6 | NA |
| RD-22 | SMRD-22-GW033111 | Ac-228 | Filtered | 3.4 | 3.7 | 1.2 | 1.7 |
| RD-22 | SMRD-22-GW033111 | Ac-228 | Suspended | 0.1 U | 2.3 | 0.65 | 1.1 |
| RD-22 | SMRD-22-GW033111 | Ac-228 | Total | 3.5 | NA | 1.4 | NA |
| RD-22 | SMRD-22-GW033111 | Ag-108 | Filtered | -0.0007 U R | 0.094 | 0.027 | 0.045 |
| RD-22 | SMRD-22-GW033111 | Ag-108 | Suspended | 0.006 U R | 0.038 | 0.011 | 0.018 |
| RD-22 | SMRD-22-GW033111 | Ag-108 | Total | 0.006 R | NA | 0.029 | NA |
| RD-22 | SMRD-22-GW033111 | Ag-108m | Filtered | -0.008 U R | 1 | 0.29 | 0.48 |
| RD-22 | SMRD-22-GW033111 | Ag-108m | Suspended | 0.07 U R | 0.41 | 0.12 | 0.19 |
| RD-22 | SMRD-22-GW033111 | Ag-108m | Total | 0.06 R | NA | 0.31 | NA |
| RD-22 | SMRD-22-GW033111 | Ba-133 | Filtered | -2.2 U R | 13 | 3.9 | 6.3 |
| RD-22 | SMRD-22-GW033111 | Ba-133 | Suspended | 0.5 U R | 4.8 | 1.4 | 2.3 |
| RD-22 | SMRD-22-GW033111 | Ba-133 | Total | -1.7 R | NA | 4.1 | NA |
| RD-22 | SMRD-22-GW033111 | Ba-137m | Filtered | 0.05 U | 1.5 | 0.44 | 0.72 |
| RD-22 | SMRD-22-GW033111 | Ba-137m | Suspended | -0.09 U | 0.55 | 0.16 | 0.26 |
| RD-22 | SMRD-22-GW033111 | Ba-137m | Total | -0.04 | NA | 0.47 | NA |
| RD-22 | SMRD-22-GW033111 | Bi-212 | Filtered | 3.3 U | 8.9 | 2.7 | 4.1 |
| RD-22 | SMRD-22-GW033111 | Bi-212 | Suspended | 0.9 U | 4 | 1.2 | 1.9 |
| RD-22 | SMRD-22-GW033111 | Bi-212 | Total | 4.2 | NA | 2.9 | NA |
| RD-22 | SMRD-22-GW033111 | Bi-214 | Filtered | 2.54 | 2.7 | 0.96 | 1.3 |
| RD-22 | SMRD-22-GW033111 | Bi-214 | Suspended | 0.05 U | 1.5 | 0.4 | 0.71 |
| RD-22 | SMRD-22-GW033111 | Bi-214 | Total | 2.6 | NA | 1 | NA |
| RD-22 | SMRD-22-GW033111 | Cd-113m | Filtered | 700 U | 14000 | 4200 | 6900 |
| RD-22 | SMRD-22-GW033111 | Cd-113m | Suspended | 200 U | 5300 | 1600 | 2600 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-22 | SMRD-22-GW033111 | Cd-113m | Total | 900 | NA | 4500 | NA |
| RD-22 | SMRD-22-GW033111 | Cf-249 | Filtered | -0.5 U R | 6.2 | 1.8 | 3 |
| RD-22 | SMRD-22-GW033111 | Cf-249 | Suspended | 0.32 U R | 2.3 | 0.67 | 1.1 |
| RD-22 | SMRD-22-GW033111 | Cf-249 | Total | -0.2 R | NA | 1.9 | NA |
| RD-22 | SMRD-22-GW033111 | Co-60 | Filtered | 0.36 U | 1.1 | 0.33 | 0.51 |
| RD-22 | SMRD-22-GW033111 | Co-60 | Suspended | 0.03 U | 0.57 | 0.16 | 0.26 |
| RD-22 | SMRD-22-GW033111 | Co-60 | Total | 0.39 | NA | 0.37 | NA |
| RD-22 | SMRD-22-GW033111 | Cs-134 | Filtered | 0.17 U | 1.3 | 0.38 | 0.61 |
| RD-22 | SMRD-22-GW033111 | Cs-134 | Suspended | 0.15 U | 0.59 | 0.18 | 0.28 |
| RD-22 | SMRD-22-GW033111 | Cs-134 | Total | 0.31 | NA | 0.42 | NA |
| RD-22 | SMRD-22-GW033111 | Cs-137 | Filtered | 0.05 U | 1.6 | 0.47 | 0.76 |
| RD-22 | SMRD-22-GW033111 | Cs-137 | Suspended | -0.1 U | 0.59 | 0.17 | 0.28 |
| RD-22 | SMRD-22-GW033111 | Cs-137 | Total | -0.05 | NA | 0.5 | NA |
| RD-22 | SMRD-22-GW033111 | Eu-152 | Filtered | -0.44 U | 3.3 | 0.98 | 1.6 |
| RD-22 | SMRD-22-GW033111 | Eu-152 | Suspended | 0.37 U | 1.3 | 0.39 | 0.63 |
| RD-22 | SMRD-22-GW033111 | Eu-152 | Total | -0.07 | NA | 1.1 | NA |
| RD-22 | SMRD-22-GW033111 | Eu-154 | Filtered | -2.5 U | 11 | 3.3 | 5.3 |
| RD-22 | SMRD-22-GW033111 | Eu-154 | Suspended | -1.2 U | 5.1 | 1.5 | 2.4 |
| RD-22 | SMRD-22-GW033111 | Eu-154 | Total | -3.6 | NA | 3.7 | NA |
| RD-22 | SMRD-22-GW033111 | Eu-155 | Filtered | -0.71 U | 3.2 | 0.95 | 1.5 |
| RD-22 | SMRD-22-GW033111 | Eu-155 | Suspended | 0.19 U | 0.98 | 0.29 | 0.48 |
| RD-22 | SMRD-22-GW033111 | Eu-155 | Total | -0.519 | NA | 0.996 | NA |
| RD-22 | SMRD-22-GW033111 | gross_alpha | Filtered | 4.85 | 0.68 | 0.54 | 0.35 |
| RD-22 | SMRD-22-GW033111 | gross_alpha | Suspended | 0.08 U | 0.42 | 0.11 | 0.22 |
| RD-22 | SMRD-22-GW033111 | gross_alpha | Total | 3.07 | NA | 0.37 | NA |
| RD-22 | SMRD-22-GW033111 | gross_beta | Filtered | 4.02 | 2.8 | 0.98 | 1.7 |
| RD-22 | SMRD-22-GW033111 | gross_beta | Suspended | 0.24 U | 0.82 | 0.24 | 0.49 |
| RD-22 | SMRD-22-GW033111 | gross_beta | Total | 4.3 | NA | 1 | NA |
| RD-22 | SMRD-22-GW033111 | H-3 | Total | -29 U | 170 | 49 | 82 |
| RD-22 | SMRD-22-GW033111 | Ho-166m | Filtered | 0.72 SK | 1.4 | 0.44 | 0.67 |
| RD-22 | SMRD-22-GW033111 | Ho-166m | Suspended | 0.29 U | 0.85 | 0.25 | 0.4 |
| RD-22 | SMRD-22-GW033111 | Ho-166m | Total | 1.01 SK | NA | 0.51 | NA |
| RD-22 | SMRD-22-GW033111 | K-40 | Filtered | 14.7 | 16 | 5.5 | 7.5 |
| RD-22 | SMRD-22-GW033111 | K-40 | Suspended | 4.7 | 7.4 | 2.1 | 3.5 |
| RD-22 | SMRD-22-GW033111 | K-40 | Total | 19.4 | NA | 5.9 | NA |
| RD-22 | SMRD-22-GW033111 | Na-22 | Filtered | -0.15 U | 1.4 | 0.39 | 0.64 |
| RD-22 | SMRD-22-GW033111 | Na-22 | Suspended | -0.08 U | 0.64 | 0.18 | 0.3 |
| RD-22 | SMRD-22-GW033111 | Na-22 | Total | -0.22 | NA | 0.44 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-22 | SMRD-22-GW033111 | Nb-94 | Filtered | 0.22 U | 1.1 | 0.31 | 0.5 |
| RD-22 | SMRD-22-GW033111 | Nb-94 | Suspended | 0.11 U | 0.54 | 0.16 | 0.25 |
| RD-22 | SMRD-22-GW033111 | Nb-94 | Total | 0.32 | NA | 0.35 | NA |
| RD-22 | SMRD-22-GW033111 | Np-236 | Filtered | 0.28 U | 2.9 | 0.85 | 1.4 |
| RD-22 | SMRD-22-GW033111 | Np-236 | Suspended | -0.05 U | 0.93 | 0.28 | 0.45 |
| RD-22 | SMRD-22-GW033111 | Np-236 | Total | 0.24 | NA | 0.89 | NA |
| RD-22 | SMRD-22-GW033111 | Np-239 | Filtered | 1.7 U | 7.7 | 2.3 | 3.7 |
| RD-22 | SMRD-22-GW033111 | Np-239 | Suspended | -0.24 U | 3.1 | 0.91 | 1.5 |
| RD-22 | SMRD-22-GW033111 | Np-239 | Total | 1.5 | NA | 2.5 | NA |
| RD-22 | SMRD-22-GW033111 | Pa-231 | Filtered | 7 U | 52 | 15 | 25 |
| RD-22 | SMRD-22-GW033111 | Pa-231 | Suspended | 8.4 U | 19 | 5.8 | 9.2 |
| RD-22 | SMRD-22-GW033111 | Pa-231 | Total | 16 | NA | 16 | NA |
| RD-22 | SMRD-22-GW033111 | Pb-212 | Filtered | -0.46 U | 2.7 | 0.86 | 1.3 |
| RD-22 | SMRD-22-GW033111 | Pb-212 | Suspended | -0.07 U | 0.88 | 0.31 | 0.43 |
| RD-22 | SMRD-22-GW033111 | Pb-212 | Total | -0.53 | NA | 0.91 | NA |
| RD-22 | SMRD-22-GW033111 | Pb-214 | Filtered | 2.94 | 2.5 | 0.96 | 1.2 |
| RD-22 | SMRD-22-GW033111 | Pb-214 | Suspended | 0.4 U | 1.1 | 0.31 | 0.53 |
| RD-22 | SMRD-22-GW033111 | Pb-214 | Total | 3.3 | NA | 1 | NA |
| RD-22 | SMRD-22-GW033111 | Sb-125 | Filtered | -0.8 U | 13 | 3.9 | 6.4 |
| RD-22 | SMRD-22-GW033111 | Sb-125 | Suspended | -0.5 U | 4.3 | 1.3 | 2.1 |
| RD-22 | SMRD-22-GW033111 | Sb-125 | Total | -1.3 | NA | 4.1 | NA |
| RD-22 | SMRD-22-GW033111 | Sn-126 | Filtered | 0.15 U | 1.4 | 0.41 | 0.67 |
| RD-22 | SMRD-22-GW033111 | Sn-126 | Suspended | 0.35 B | 0.55 | 0.17 | 0.26 |
| RD-22 | SMRD-22-GW033111 | Sn-126 | Total | 0.5 | NA | 0.44 | NA |
| RD-22 | SMRD-22-GW033111 | Sr-90 | Filtered | -0.006 U | 0.18 | 0.051 | 0.1 |
| RD-22 | SMRD-22-GW033111 | Sr-90 | Suspended | -0.006 U | 0.062 | 0.018 | 0.035 |
| RD-22 | SMRD-22-GW033111 | Sr-90 | Total | -0.012 | NA | 0.054 | NA |
| RD-22 | SMRD-22-GW033111 | Te-125m | Filtered | -0.19 U | 3 | 0.9 | 1.5 |
| RD-22 | SMRD-22-GW033111 | Te-125m | Suspended | -0.12 U | 0.99 | 0.29 | 0.48 |
| RD-22 | SMRD-22-GW033111 | Te-125m | Total | -0.3 | NA | 0.95 | NA |
| RD-22 | SMRD-22-GW033111 | Th-231 | Filtered | 0.0242 | 0.0065 | 0.0077 | 0.005 |
| RD-22 | SMRD-22-GW033111 | Th-231 | Suspended | 0.0025 U | 0.0067 | 0.0025 | 0.0052 |
| RD-22 | SMRD-22-GW033111 | Th-231 | Total | 0.0267 | NA | 0.0081 | NA |
| RD-22 | SMRD-22-GW033111 | Th-234 | Filtered | 14.3 | 21 | 7.3 | 10 |
| RD-22 | SMRD-22-GW033111 | Th-234 | Suspended | -1 U | 5.2 | 1.5 | 2.5 |
| RD-22 | SMRD-22-GW033111 | Th-234 | Total | 13.3 | NA | 7.5 | NA |
| RD-22 | SMRD-22-GW033111 | Tl-208 | Filtered | -0.07 U | 1.4 | 0.52 | 0.67 |
| RD-22 | SMRD-22-GW033111 | Tl-208 | Suspended | 0.02 U | 0.58 | 0.16 | 0.28 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-22 | SMRD-22-GW033111 | Tl-208 | Total | -0.05 | NA | 0.54 | NA |
| RD-22 | SMRD-22-GW033111 | Tm-171 | Filtered | 50 U | 360 | 110 | 170 |
| RD-22 | SMRD-22-GW033111 | Tm-171 | Suspended | 53 | 83 | 26 | 40 |
| RD-22 | SMRD-22-GW033111 | Tm-171 | Total | 110 | NA | 110 | NA |
| RD-22 | SMRD-22-GW033111 | U-233/234 | Filtered | 1.12 | 0.016 | 0.067 | 0.006 |
| RD-22 | SMRD-22-GW033111 | U-233/234 | Suspended | 0.0134 | 0.0054 | 0.007 | 0.0042 |
| RD-22 | SMRD-22-GW033111 | U-233/234 | Total | 1.13 | NA | 0.067 | NA |
| RD-22 | SMRD-22-GW033111 | U-235/236 | Filtered | 0.0242 | 0.0065 | 0.0077 | 0.005 |
| RD-22 | SMRD-22-GW033111 | U-235/236 | Suspended | 0.0025 U | 0.0067 | 0.0025 | 0.0052 |
| RD-22 | SMRD-22-GW033111 | U-235/236 | Total | 0.0267 | NA | 0.0081 | NA |
| RD-22 | SMRD-22-GW033111 | U-238 | Filtered | 0.518 | 0.013 | 0.039 | 0.004 |
| RD-22 | SMRD-22-GW033111 | U-238 | Suspended | 0.0041 U | 0.0054 | 0.0049 | 0.0042 |
| RD-22 | SMRD-22-GW033111 | U-238 | Total | 0.522 | NA | 0.039 | NA |
| RD-23 | SMRD-23-GW040111 | Ac-227 | Filtered | -2.5 U | 8.2 | 2.5 | 4 |
| RD-23 | SMRD-23-GW040111 | Ac-227 | Suspended | 0.3 U | 5.6 | 1.7 | 2.7 |
| RD-23 | SMRD-23-GW040111 | Ac-227 | Total | -2.2 | NA | 3 | NA |
| RD-23 | SMRD-23-GW040111 | Ac-228 | Filtered | 2.3 | 3.9 | 1.2 | 1.8 |
| RD-23 | SMRD-23-GW040111 | Ac-228 | Suspended | -0.26 U | 2.8 | 0.92 | 1.3 |
| RD-23 | SMRD-23-GW040111 | Ac-228 | Total | 2 | NA | 1.5 | NA |
| RD-23 | SMRD-23-GW040111 | Ag-108 | Filtered | -0.029 U R | 0.087 | 0.026 | 0.041 |
| RD-23 | SMRD-23-GW040111 | Ag-108 | Suspended | 0.008 U R | 0.054 | 0.016 | 0.026 |
| RD-23 | SMRD-23-GW040111 | Ag-108 | Total | -0.02 R | NA | 0.03 | NA |
| RD-23 | SMRD-23-GW040111 | Ag-108m | Filtered | -0.31 U R | 0.93 | 0.28 | 0.44 |
| RD-23 | SMRD-23-GW040111 | Ag-108m | Suspended | 0.09 U R | 0.58 | 0.17 | 0.28 |
| RD-23 | SMRD-23-GW040111 | Ag-108m | Total | -0.22 R | NA | 0.33 | NA |
| RD-23 | SMRD-23-GW040111 | Ba-133 | Filtered | -4 U R | 13 | 3.8 | 6.1 |
| RD-23 | SMRD-23-GW040111 | Ba-133 | Suspended | 0.007 U R | 6 | 1.8 | 2.9 |
| RD-23 | SMRD-23-GW040111 | Ba-133 | Total | -4 R | NA | 4.2 | NA |
| RD-23 | SMRD-23-GW040111 | Ba-137m | Filtered | 0.22 U | 0.89 | 0.26 | 0.41 |
| RD-23 | SMRD-23-GW040111 | Ba-137m | Suspended | -0.13 U | 0.69 | 0.2 | 0.33 |
| RD-23 | SMRD-23-GW040111 | Ba-137m | Total | 0.09 | NA | 0.33 | NA |
| RD-23 | SMRD-23-GW040111 | Bi-212 | Filtered | 2 U | 9 | 2.7 | 4.2 |
| RD-23 | SMRD-23-GW040111 | Bi-212 | Suspended | 3.1 | 5.1 | 1.6 | 2.4 |
| RD-23 | SMRD-23-GW040111 | Bi-212 | Total | 5.1 | NA | 3.1 | NA |
| RD-23 | SMRD-23-GW040111 | Bi-214 | Filtered | 1.38 | 2.6 | 0.91 | 1.3 |
| RD-23 | SMRD-23-GW040111 | Bi-214 | Suspended | 0.5 U | 1.6 | 0.52 | 0.77 |
| RD-23 | SMRD-23-GW040111 | Bi-214 | Total | 1.9 | NA | 1.1 | NA |
| RD-23 | SMRD-23-GW040111 | Cd-113m | Filtered | 2900 U | 14000 | 4200 | 6900 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-23 | SMRD-23-GW040111 | Cd-113m | Suspended | -800 U | 7400 | 2200 | 3600 |
| RD-23 | SMRD-23-GW040111 | Cd-113m | Total | 2100 | NA | 4800 | NA |
| RD-23 | SMRD-23-GW040111 | Cf-249 | Filtered | -1.5 U R | 5.8 | 1.7 | 2.8 |
| RD-23 | SMRD-23-GW040111 | Cf-249 | Suspended | 0.4 U R | 3.1 | 0.92 | 1.5 |
| RD-23 | SMRD-23-GW040111 | Cf-249 | Total | -1.1 R | NA | 2 | NA |
| RD-23 | SMRD-23-GW040111 | Co-60 | Filtered | -0.19 U | 1.3 | 0.38 | 0.62 |
| RD-23 | SMRD-23-GW040111 | Co-60 | Suspended | 0.44 | 0.66 | 0.21 | 0.3 |
| RD-23 | SMRD-23-GW040111 | Co-60 | Total | 0.24 | NA | 0.44 | NA |
| RD-23 | SMRD-23-GW040111 | Cs-134 | Filtered | 0.28 U | 1.2 | 0.35 | 0.56 |
| RD-23 | SMRD-23-GW040111 | Cs-134 | Suspended | -0.15 U | 0.83 | 0.25 | 0.4 |
| RD-23 | SMRD-23-GW040111 | Cs-134 | Total | 0.13 | NA | 0.43 | NA |
| RD-23 | SMRD-23-GW040111 | Cs-137 | Filtered | 0.23 U | 0.94 | 0.28 | 0.44 |
| RD-23 | SMRD-23-GW040111 | Cs-137 | Suspended | -0.14 U | 0.73 | 0.22 | 0.35 |
| RD-23 | SMRD-23-GW040111 | Cs-137 | Total | 0.09 | NA | 0.35 | NA |
| RD-23 | SMRD-23-GW040111 | Eu-152 | Filtered | -0.7 U | 3.4 | 1 | 1.7 |
| RD-23 | SMRD-23-GW040111 | Eu-152 | Suspended | -0.73 U | 1.8 | 0.53 | 0.85 |
| RD-23 | SMRD-23-GW040111 | Eu-152 | Total | -1.5 | NA | 1.2 | NA |
| RD-23 | SMRD-23-GW040111 | Eu-154 | Filtered | -0.6 U | 10 | 2.9 | 4.7 |
| RD-23 | SMRD-23-GW040111 | Eu-154 | Suspended | -0.6 U | 4.6 | 1.3 | 2.1 |
| RD-23 | SMRD-23-GW040111 | Eu-154 | Total | -1.2 | NA | 3.2 | NA |
| RD-23 | SMRD-23-GW040111 | Eu-155 | Filtered | 0.74 U | 3.2 | 0.95 | 1.5 |
| RD-23 | SMRD-23-GW040111 | Eu-155 | Suspended | -0.21 U | 1.2 | 0.37 | 0.6 |
| RD-23 | SMRD-23-GW040111 | Eu-155 | Total | 0.5 | NA | 1 | NA |
| RD-23 | SMRD-23-GW040111 | gross_alpha | Filtered | 2.23 | 0.5 | 0.3 | 0.27 |
| RD-23 | SMRD-23-GW040111 | gross_alpha | Suspended | 0.53 | 0.54 | 0.19 | 0.29 |
| RD-23 | SMRD-23-GW040111 | gross_alpha | Total | 2.76 | NA | 0.36 | NA |
| RD-23 | SMRD-23-GW040111 | gross_beta | Filtered | 2.64 | 2.2 | 0.77 | 1.3 |
| RD-23 | SMRD-23-GW040111 | gross_beta | Suspended | 0.07 U | 0.85 | 0.24 | 0.51 |
| RD-23 | SMRD-23-GW040111 | gross_beta | Total | 2.72 | NA | 0.81 | NA |
| RD-23 | SMRD-23-GW040111 | H-3 | Total | 18 U | 130 | 39 | 64 |
| RD-23 | SMRD-23-GW040111 | Ho-166m | Filtered | 0.005 U | 2.1 | 0.6 | 0.99 |
| RD-23 | SMRD-23-GW040111 | Ho-166m | Suspended | -0.2 U | 1.1 | 0.34 | 0.54 |
| RD-23 | SMRD-23-GW040111 | Ho-166m | Total | -0.2 | NA | 0.69 | NA |
| RD-23 | SMRD-23-GW040111 | K-40 | Filtered | -9 U | 18 | 11 | 9 |
| RD-23 | SMRD-23-GW040111 | K-40 | Suspended | -5.4 U | 11 | 4.9 | 5.2 |
| RD-23 | SMRD-23-GW040111 | K-40 | Total | -14 | NA | 12 | NA |
| RD-23 | SMRD-23-GW040111 | Na-22 | Filtered | -0.19 U | 1.3 | 0.38 | 0.6 |
| RD-23 | SMRD-23-GW040111 | Na-22 | Suspended | -0.005 U | 0.79 | 0.22 | 0.37 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-23 | SMRD-23-GW040111 | Na-22 | Total | -0.19 | NA | 0.44 | NA |
| RD-23 | SMRD-23-GW040111 | Nb-94 | Filtered | -0.05 U | 1.1 | 0.31 | 0.52 |
| RD-23 | SMRD-23-GW040111 | Nb-94 | Suspended | 0.003 U | 0.68 | 0.2 | 0.33 |
| RD-23 | SMRD-23-GW040111 | Nb-94 | Total | -0.05 | NA | 0.37 | NA |
| RD-23 | SMRD-23-GW040111 | Np-236 | Filtered | 0.53 U | 2.6 | 0.77 | 1.2 |
| RD-23 | SMRD-23-GW040111 | Np-236 | Suspended | -0.01 U | 1.2 | 0.34 | 0.57 |
| RD-23 | SMRD-23-GW040111 | Np-236 | Total | 0.52 | NA | 0.84 | NA |
| RD-23 | SMRD-23-GW040111 | Np-239 | Filtered | 0.7 U | 7.4 | 2.2 | 3.6 |
| RD-23 | SMRD-23-GW040111 | Np-239 | Suspended | 0.4 U | 3.7 | 1.1 | 1.8 |
| RD-23 | SMRD-23-GW040111 | Np-239 | Total | 1.1 | NA | 2.5 | NA |
| RD-23 | SMRD-23-GW040111 | Pa-231 | Filtered | -13 U | 56 | 17 | 27 |
| RD-23 | SMRD-23-GW040111 | Pa-231 | Suspended | -5.8 U | 29 | 8.7 | 14 |
| RD-23 | SMRD-23-GW040111 | Pa-231 | Total | -19 | NA | 19 | NA |
| RD-23 | SMRD-23-GW040111 | Pb-212 | Filtered | 0.14 U | 2.3 | 0.73 | 1.1 |
| RD-23 | SMRD-23-GW040111 | Pb-212 | Suspended | 0.16 U | 1.1 | 0.33 | 0.52 |
| RD-23 | SMRD-23-GW040111 | Pb-212 | Total | 0.29 | NA | 0.8 | NA |
| RD-23 | SMRD-23-GW040111 | Pb-214 | Filtered | 2.06 | 2.3 | 0.84 | 1.1 |
| RD-23 | SMRD-23-GW040111 | Pb-214 | Suspended | 0.32 U | 1.4 | 0.5 | 0.7 |
| RD-23 | SMRD-23-GW040111 | Pb-214 | Total | 2.38 | NA | 0.98 | NA |
| RD-23 | SMRD-23-GW040111 | Sb-125 | Filtered | 0.3 U | 12 | 3.5 | 5.8 |
| RD-23 | SMRD-23-GW040111 | Sb-125 | Suspended | 1 U | 5.5 | 1.6 | 2.7 |
| RD-23 | SMRD-23-GW040111 | Sb-125 | Total | 1.4 | NA | 3.9 | NA |
| RD-23 | SMRD-23-GW040111 | Sn-126 | Filtered | 0.38 U | 1.2 | 0.34 | 0.54 |
| RD-23 | SMRD-23-GW040111 | Sn-126 | Suspended | 0.29 U | 0.76 | 0.23 | 0.36 |
| RD-23 | SMRD-23-GW040111 | Sn-126 | Total | 0.67 | NA | 0.41 | NA |
| RD-23 | SMRD-23-GW040111 | Sr-90 | Filtered | 0.011 | 0.1 | 0.03 | 0.058 |
| RD-23 | SMRD-23-GW040111 | Sr-90 | Suspended | 0.001 U | 0.059 | 0.016 | 0.035 |
| RD-23 | SMRD-23-GW040111 | Sr-90 | Total | 0.012 | NA | 0.034 | NA |
| RD-23 | SMRD-23-GW040111 | Te-125m | Filtered | 0.08 U | 2.8 | 0.81 | 1.3 |
| RD-23 | SMRD-23-GW040111 | Te-125m | Suspended | 0.24 U | 1.3 | 0.38 | 0.62 |
| RD-23 | SMRD-23-GW040111 | Te-125m | Total | 0.32 | NA | 0.9 | NA |
| RD-23 | SMRD-23-GW040111 | Th-231 | Filtered | 0.0315 | 0.0071 | 0.0092 | 0.0061 |
| RD-23 | SMRD-23-GW040111 | Th-231 | Suspended | 0.0025 U | 0.0067 | 0.0025 | 0.0052 |
| RD-23 | SMRD-23-GW040111 | Th-231 | Total | 0.034 | NA | 0.0095 | NA |
| RD-23 | SMRD-23-GW040111 | Th-234 | Filtered | 1.4 U | 21 | 7.2 | 10 |
| RD-23 | SMRD-23-GW040111 | Th-234 | Suspended | -0.2 U | 7.5 | 2.4 | 3.7 |
| RD-23 | SMRD-23-GW040111 | Th-234 | Total | 1.2 | NA | 7.6 | NA |
| RD-23 | SMRD-23-GW040111 | Tl-208 | Filtered | 0.4 U | 1.3 | 0.42 | 0.62 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-23 | SMRD-23-GW040111 | Tl-208 | Suspended | 0.67 | 0.71 | 0.29 | 0.34 |
| RD-23 | SMRD-23-GW040111 | Tl-208 | Total | 1.07 | NA | 0.51 | NA |
| RD-23 | SMRD-23-GW040111 | Tm-171 | Filtered | -61 U | 310 | 92 | 150 |
| RD-23 | SMRD-23-GW040111 | Tm-171 | Suspended | 28 U | 110 | 34 | 55 |
| RD-23 | SMRD-23-GW040111 | Tm-171 | Total | -33 | NA | 98 | NA |
| RD-23 | SMRD-23-GW040111 | U-233/234 | Filtered | 0.819 | 0.014 | 0.054 | 0.004 |
| RD-23 | SMRD-23-GW040111 | U-233/234 | Suspended | -0.0099 U | 0.026 | 0.0065 | 0.011 |
| RD-23 | SMRD-23-GW040111 | U-233/234 | Total | 0.809 | NA | 0.055 | NA |
| RD-23 | SMRD-23-GW040111 | U-235/236 | Filtered | 0.0314 | 0.0071 | 0.0092 | 0.0054 |
| RD-23 | SMRD-23-GW040111 | U-235/236 | Suspended | 0.0025 U | 0.0067 | 0.0025 | 0.0052 |
| RD-23 | SMRD-23-GW040111 | U-235/236 | Total | 0.0339 | NA | 0.0095 | NA |
| RD-23 | SMRD-23-GW040111 | U-238 | Filtered | 0.65 | 0.014 | 0.046 | 0.004 |
| RD-23 | SMRD-23-GW040111 | U-238 | Suspended | -0.0012 U | 0.017 | 0.005 | 0.0059 |
| RD-23 | SMRD-23-GW040111 | U-238 | Total | 0.649 | NA | 0.046 | NA |
| RD-24 | SMRD-24-GW032411 | Ac-227 | Filtered | 0.1 U | 12 | 3.5 | 5.7 |
| RD-24 | SMRD-24-GW032411 | Ac-227 | Suspended | -1.3 U | 4.4 | 1.3 | 2.1 |
| RD-24 | SMRD-24-GW032411 | Ac-227 | Total | -1.2 | NA | 3.7 | NA |
| RD-24 | SMRD-24-GW032411 | Ac-228 | Filtered | 3.6 | 4.1 | 1.3 | 1.9 |
| RD-24 | SMRD-24-GW032411 | Ac-228 | Suspended | 0.59 U | 2.6 | 0.76 | 1.2 |
| RD-24 | SMRD-24-GW032411 | Ac-228 | Total | 4.2 | NA | 1.5 | NA |
| RD-24 | SMRD-24-GW032411 | Ag-108 | Filtered | 0.035 R | 0.066 | 0.02 | 0.031 |
| RD-24 | SMRD-24-GW032411 | Ag-108 | Suspended | -0.004 U R | 0.047 | 0.014 | 0.022 |
| RD-24 | SMRD-24-GW032411 | Ag-108 | Total | 0.03 R | NA | 0.024 | NA |
| RD-24 | SMRD-24-GW032411 | Ag-108m | Filtered | 0.37 R | 0.71 | 0.22 | 0.34 |
| RD-24 | SMRD-24-GW032411 | Ag-108m | Suspended | -0.05 U R | 0.5 | 0.15 | 0.24 |
| RD-24 | SMRD-24-GW032411 | Ag-108m | Total | 0.33 R | NA | 0.26 | NA |
| RD-24 | SMRD-24-GW032411 | Ba-133 | Filtered | -2.1 U R | 12 | 3.5 | 5.8 |
| RD-24 | SMRD-24-GW032411 | Ba-133 | Suspended | -1 U R | 6.9 | 2 | 3.3 |
| RD-24 | SMRD-24-GW032411 | Ba-133 | Total | -3.1 R | NA | 4.1 | NA |
| RD-24 | SMRD-24-GW032411 | Ba-137m | Filtered | -0.17 U | 1.1 | 0.33 | 0.53 |
| RD-24 | SMRD-24-GW032411 | Ba-137m | Suspended | 0.05 U | 0.65 | 0.19 | 0.31 |
| RD-24 | SMRD-24-GW032411 | Ba-137m | Total | -0.12 | NA | 0.38 | NA |
| RD-24 | SMRD-24-GW032411 | Bi-212 | Filtered | -0.1 U | 9.9 | 2.9 | 4.7 |
| RD-24 | SMRD-24-GW032411 | Bi-212 | Suspended | 3.5 | 5.4 | 1.7 | 2.5 |
| RD-24 | SMRD-24-GW032411 | Bi-212 | Total | 3.4 | NA | 3.4 | NA |
| RD-24 | SMRD-24-GW032411 | Bi-214 | Filtered | 1.15 | 2.4 | 0.76 | 1.1 |
| RD-24 | SMRD-24-GW032411 | Bi-214 | Suspended | 0.21 U | 1.8 | 0.47 | 0.87 |
| RD-24 | SMRD-24-GW032411 | Bi-214 | Total | 1.36 | NA | 0.9 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-24 | SMRD-24-GW032411 | Cd-113m | Filtered | -1300 U | 13000 | 4000 | 6500 |
| RD-24 | SMRD-24-GW032411 | Cd-113m | Suspended | 200 U | 7300 | 2100 | 3500 |
| RD-24 | SMRD-24-GW032411 | Cd-113m | Total | -1100 | NA | 4500 | NA |
| RD-24 | SMRD-24-GW032411 | Cf-249 | Filtered | -0.8 U R | 5.4 | 1.6 | 2.6 |
| RD-24 | SMRD-24-GW032411 | Cf-249 | Suspended | 0.71 U R | 3.1 | 0.92 | 1.5 |
| RD-24 | SMRD-24-GW032411 | Cf-249 | Total | -0.08 R | NA | 1.8 | NA |
| RD-24 | SMRD-24-GW032411 | Co-60 | Filtered | -0.02 U | 1 | 0.29 | 0.48 |
| RD-24 | SMRD-24-GW032411 | Co-60 | Suspended | 0.15 U | 0.74 | 0.21 | 0.33 |
| RD-24 | SMRD-24-GW032411 | Co-60 | Total | 0.13 | NA | 0.36 | NA |
| RD-24 | SMRD-24-GW032411 | Cs-134 | Filtered | 0.02 U | 1.1 | 0.31 | 0.52 |
| RD-24 | SMRD-24-GW032411 | Cs-134 | Suspended | -0.11 U | 0.81 | 0.24 | 0.38 |
| RD-24 | SMRD-24-GW032411 | Cs-134 | Total | -0.1 | NA | 0.39 | NA |
| RD-24 | SMRD-24-GW032411 | Cs-137 | Filtered | -0.18 U | 1.2 | 0.35 | 0.56 |
| RD-24 | SMRD-24-GW032411 | Cs-137 | Suspended | 0.05 U | 0.69 | 0.2 | 0.32 |
| RD-24 | SMRD-24-GW032411 | Cs-137 | Total | -0.13 | NA | 0.4 | NA |
| RD-24 | SMRD-24-GW032411 | Eu-152 | Filtered | -0.33 U | 3.3 | 0.97 | 1.6 |
| RD-24 | SMRD-24-GW032411 | Eu-152 | Suspended | 0.39 U | 1.8 | 0.52 | 0.84 |
| RD-24 | SMRD-24-GW032411 | Eu-152 | Total | 0.06 | NA | 1.1 | NA |
| RD-24 | SMRD-24-GW032411 | Eu-154 | Filtered | -1.6 U | 6.9 | 2 | 3.2 |
| RD-24 | SMRD-24-GW032411 | Eu-154 | Suspended | 0 U | 6 | 1.7 | 2.8 |
| RD-24 | SMRD-24-GW032411 | Eu-154 | Total | -1.6 | NA | 2.6 | NA |
| RD-24 | SMRD-24-GW032411 | Eu-155 | Filtered | 0.54 U | 2.9 | 0.87 | 1.4 |
| RD-24 | SMRD-24-GW032411 | Eu-155 | Suspended | 0.21 U | 1.4 | 0.43 | 0.7 |
| RD-24 | SMRD-24-GW032411 | Eu-155 | Total | 0.76 | NA | 0.97 | NA |
| RD-24 | SMRD-24-GW032411 | gross_alpha | Filtered | 4.32 | 0.66 | 0.48 | 0.36 |
| RD-24 | SMRD-24-GW032411 | gross_alpha | Suspended | 1.01 | 0.48 | 0.22 | 0.25 |
| RD-24 | SMRD-24-GW032411 | gross_alpha | Total | 5.33 | NA | 0.53 | NA |
| RD-24 | SMRD-24-GW032411 | gross_beta | Filtered | 3.45 | 1.5 | 0.62 | 0.89 |
| RD-24 | SMRD-24-GW032411 | gross_beta | Suspended | 2.36 | 0.87 | 0.35 | 0.52 |
| RD-24 | SMRD-24-GW032411 | gross_beta | Total | 5.8 | NA | 0.71 | NA |
| RD-24 | SMRD-24-GW032411 | H-3 | Total | 54 U | 140 | 43 | 68 |
| RD-24 | SMRD-24-GW032411 | Ho-166m | Filtered | -0.09 U | 1.8 | 0.54 | 0.88 |
| RD-24 | SMRD-24-GW032411 | Ho-166m | Suspended | -0.05 U | 1.1 | 0.32 | 0.53 |
| RD-24 | SMRD-24-GW032411 | Ho-166m | Total | -0.13 | NA | 0.63 | NA |
| RD-24 | SMRD-24-GW032411 | K-40 | Filtered | -0.5 U | 16 | 4.9 | 7.4 |
| RD-24 | SMRD-24-GW032411 | K-40 | Suspended | 2.8 U | 11 | 3.1 | 5 |
| RD-24 | SMRD-24-GW032411 | K-40 | Total | 2.3 | NA | 5.8 | NA |
| RD-24 | SMRD-24-GW032411 | Na-22 | Filtered | -0.01 U | 1.1 | 0.32 | 0.53 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-24 | SMRD-24-GW032411 | Na-22 | Suspended | 0 U | 1.1 | 0.31 | 0.51 |
| RD-24 | SMRD-24-GW032411 | Na-22 | Total | -0.01 | NA | 0.44 | NA |
| RD-24 | SMRD-24-GW032411 | Nb-94 | Filtered | -0.37 U | 1 | 0.3 | 0.48 |
| RD-24 | SMRD-24-GW032411 | Nb-94 | Suspended | 0.003 U | 0.66 | 0.19 | 0.31 |
| RD-24 | SMRD-24-GW032411 | Nb-94 | Total | -0.37 | NA | 0.36 | NA |
| RD-24 | SMRD-24-GW032411 | Np-236 | Filtered | 0.5 U | 2.3 | 0.68 | 1.1 |
| RD-24 | SMRD-24-GW032411 | Np-236 | Suspended | 0.05 U | 1.3 | 0.39 | 0.65 |
| RD-24 | SMRD-24-GW032411 | Np-236 | Total | 0.55 | NA | 0.79 | NA |
| RD-24 | SMRD-24-GW032411 | Np-239 | Filtered | 1.2 U | 7 | 2.1 | 3.4 |
| RD-24 | SMRD-24-GW032411 | Np-239 | Suspended | -0.8 U | 3.9 | 1.2 | 1.9 |
| RD-24 | SMRD-24-GW032411 | Np-239 | Total | 0.5 | NA | 2.4 | NA |
| RD-24 | SMRD-24-GW032411 | Pa-231 | Filtered | 7 U | 45 | 13 | 22 |
| RD-24 | SMRD-24-GW032411 | Pa-231 | Suspended | -0.01 U | 26 | 7.7 | 13 |
| RD-24 | SMRD-24-GW032411 | Pa-231 | Total | 7 | NA | 15 | NA |
| RD-24 | SMRD-24-GW032411 | Pb-212 | Filtered | 0.41 U | 2.4 | 0.78 | 1.2 |
| RD-24 | SMRD-24-GW032411 | Pb-212 | Suspended | -0.002 U | 1.2 | 0.36 | 0.58 |
| RD-24 | SMRD-24-GW032411 | Pb-212 | Total | 0.4 | NA | 0.86 | NA |
| RD-24 | SMRD-24-GW032411 | Pb-214 | Filtered | 2.3 | 2.3 | 0.86 | 1.1 |
| RD-24 | SMRD-24-GW032411 | Pb-214 | Suspended | 0.14 U | 1.6 | 0.44 | 0.79 |
| RD-24 | SMRD-24-GW032411 | Pb-214 | Total | 2.44 | NA | 0.97 | NA |
| RD-24 | SMRD-24-GW032411 | Sb-125 | Filtered | -2.2 U | 12 | 3.5 | 5.6 |
| RD-24 | SMRD-24-GW032411 | Sb-125 | Suspended | -0.09 U | 4.7 | 1.4 | 2.3 |
| RD-24 | SMRD-24-GW032411 | Sb-125 | Total | -2.3 | NA | 3.7 | NA |
| RD-24 | SMRD-24-GW032411 | Sn-126 | Filtered | 0.43 U | 1.1 | 0.33 | 0.52 |
| RD-24 | SMRD-24-GW032411 | Sn-126 | Suspended | 0.08 U | 0.78 | 0.23 | 0.37 |
| RD-24 | SMRD-24-GW032411 | Sn-126 | Total | 0.51 | NA | 0.4 | NA |
| RD-24 | SMRD-24-GW032411 | Sr-90 | Filtered | 0.12 | 0.075 | 0.026 | 0.042 |
| RD-24 | SMRD-24-GW032411 | Sr-90 | Suspended | -0.003 U | 0.062 | 0.018 | 0.035 |
| RD-24 | SMRD-24-GW032411 | Sr-90 | Total | 0.117 | NA | 0.031 | NA |
| RD-24 | SMRD-24-GW032411 | Te-125m | Filtered | -0.51 U | 2.7 | 0.8 | 1.3 |
| RD-24 | SMRD-24-GW032411 | Te-125m | Suspended | -0.02 U | 1.1 | 0.32 | 0.52 |
| RD-24 | SMRD-24-GW032411 | Te-125m | Total | -0.53 | NA | 0.86 | NA |
| RD-24 | SMRD-24-GW032411 | Th-231 | Filtered | 0.088 | 0.016 | 0.015 | 0.005 |
| RD-24 | SMRD-24-GW032411 | Th-231 | Suspended | 0.0023 U | 0.0061 | 0.0023 | 0.0052 |
| RD-24 | SMRD-24-GW032411 | Th-231 | Total | 0.09 | NA | 0.015 | NA |
| RD-24 | SMRD-24-GW032411 | Th-234 | Filtered | 10.5 U | 22 | 7.6 | 11 |
| RD-24 | SMRD-24-GW032411 | Th-234 | Suspended | 0.2 U | 8.1 | 2.5 | 3.9 |
| RD-24 | SMRD-24-GW032411 | Th-234 | Total | 10.7 | NA | 7.9 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-24 | SMRD-24-GW032411 | Tl-208 | Filtered | -0.15 U | 1.3 | 0.41 | 0.61 |
| RD-24 | SMRD-24-GW032411 | Tl-208 | Suspended | 0.21 U | 0.92 | 0.25 | 0.44 |
| RD-24 | SMRD-24-GW032411 | Tl-208 | Total | 0.06 | NA | 0.48 | NA |
| RD-24 | SMRD-24-GW032411 | Tm-171 | Filtered | -10 U | 360 | 110 | 180 |
| RD-24 | SMRD-24-GW032411 | Tm-171 | Suspended | -24 U | 140 | 41 | 67 |
| RD-24 | SMRD-24-GW032411 | Tm-171 | Total | -40 | NA | 120 | NA |
| RD-24 | SMRD-24-GW032411 | U-233/234 | Filtered | 1.51 | 0.016 | 0.083 | 0.006 |
| RD-24 | SMRD-24-GW032411 | U-233/234 | Suspended | 0.0101 | 0.0049 | 0.006 | 0.0038 |
| RD-24 | SMRD-24-GW032411 | U-233/234 | Total | 1.52 | NA | 0.083 | NA |
| RD-24 | SMRD-24-GW032411 | U-235/236 | Filtered | 0.088 | 0.016 | 0.015 | 0.005 |
| RD-24 | SMRD-24-GW032411 | U-235/236 | Suspended | 0.0022 U | 0.0061 | 0.0023 | 0.0047 |
| RD-24 | SMRD-24-GW032411 | U-235/236 | Total | 0.09 | NA | 0.015 | NA |
| RD-24 | SMRD-24-GW032411 | U-238 | Filtered | 1.23 | 0.005 | 0.071 | 0.004 |
| RD-24 | SMRD-24-GW032411 | U-238 | Suspended | 0.0072 | 0.0049 | 0.0051 | 0.0038 |
| RD-24 | SMRD-24-GW032411 | U-238 | Total | 1.23 | NA | 0.071 | NA |
| RD-27 | SMRD-27-GW031711 | Ac-227 | Filtered | 0 U | 9.6 | 2.8 | 4.7 |
| RD-27 | SMRD-27-GW031711 | Ac-227 | Suspended | 0.66 U | 2.4 | 0.72 | 1.2 |
| RD-27 | SMRD-27-GW031711 | Ac-227 | Total | 0.7 | NA | 2.9 | NA |
| RD-27 | SMRD-27-GW031711 | Ac-228 | Filtered | 3.4 | 4.7 | 1.5 | 2.2 |
| RD-27 | SMRD-27-GW031711 | Ac-228 | Suspended | 5.06 | 1.7 | 0.96 | 0.76 |
| RD-27 | SMRD-27-GW031711 | Ac-228 | Total | 8.4 | NA | 1.8 | NA |
| RD-27 | SMRD-27-GW031711 | Ag-108 | Filtered | 0.017 R | 0.094 | 0.028 | 0.044 |
| RD-27 | SMRD-27-GW031711 | Ag-108 | Suspended | 0.016 R | 0.04 | 0.012 | 0.019 |
| RD-27 | SMRD-27-GW031711 | Ag-108 | Total | 0.034 R | NA | 0.03 | NA |
| RD-27 | SMRD-27-GW031711 | Ag-108m | Filtered | 0.18 R | 1 | 0.3 | 0.48 |
| RD-27 | SMRD-27-GW031711 | Ag-108m | Suspended | 0.18 R | 0.43 | 0.13 | 0.2 |
| RD-27 | SMRD-27-GW031711 | Ag-108m | Total | 0.36 R | NA | 0.32 | NA |
| RD-27 | SMRD-27-GW031711 | Ba-133 | Filtered | 3.2 R | 12 | 3.7 | 5.9 |
| RD-27 | SMRD-27-GW031711 | Ba-133 | Suspended | -0.2 R | 5.7 | 1.7 | 2.8 |
| RD-27 | SMRD-27-GW031711 | Ba-133 | Total | 3 R | NA | 4 | NA |
| RD-27 | SMRD-27-GW031711 | Ba-137m | Filtered | 0.77 | 1.2 | 0.38 | 0.57 |
| RD-27 | SMRD-27-GW031711 | Ba-137m | Suspended | 0.01 U | 0.64 | 0.19 | 0.31 |
| RD-27 | SMRD-27-GW031711 | Ba-137m | Total | 0.79 | NA | 0.42 | NA |
| RD-27 | SMRD-27-GW031711 | Bi-212 | Filtered | 2.1 U | 9.5 | 2.8 | 4.4 |
| RD-27 | SMRD-27-GW031711 | Bi-212 | Suspended | 0.3 U | 5.5 | 1.5 | 2.6 |
| RD-27 | SMRD-27-GW031711 | Bi-212 | Total | 2.4 | NA | 3.2 | NA |
| RD-27 | SMRD-27-GW031711 | Bi-214 | Filtered | 2.27 | 2.4 | 0.78 | 1.1 |
| RD-27 | SMRD-27-GW031711 | Bi-214 | Suspended | 1.22 | 1.6 | 0.56 | 0.76 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-27 | SMRD-27-GW031711 | Bi-214 | Total | 3.49 | NA | 0.96 | NA |
| RD-27 | SMRD-27-GW031711 | Cd-113m | Filtered | -2000 U | 15000 | 4400 | 7100 |
| RD-27 | SMRD-27-GW031711 | Cd-113m | Suspended | -900 U | 7400 | 2200 | 3600 |
| RD-27 | SMRD-27-GW031711 | Cd-113m | Total | -2900 | NA | 4900 | NA |
| RD-27 | SMRD-27-GW031711 | Cf-249 | Filtered | -2.3 R | 6.2 | 1.9 | 3 |
| RD-27 | SMRD-27-GW031711 | Cf-249 | Suspended | -0.38 R | 3.1 | 0.92 | 1.5 |
| RD-27 | SMRD-27-GW031711 | Cf-249 | Total | -2.7 R | NA | 2.1 | NA |
| RD-27 | SMRD-27-GW031711 | Co-60 | Filtered | 0.009 U | 1.5 | 0.42 | 0.7 |
| RD-27 | SMRD-27-GW031711 | Co-60 | Suspended | 0 U | 0.72 | 0.2 | 0.33 |
| RD-27 | SMRD-27-GW031711 | Co-60 | Total | 0.009 | NA | 0.47 | NA |
| RD-27 | SMRD-27-GW031711 | Cs-134 | Filtered | -0.35 U | 1.4 | 0.41 | 0.66 |
| RD-27 | SMRD-27-GW031711 | Cs-134 | Suspended | 0.26 U | 0.63 | 0.19 | 0.3 |
| RD-27 | SMRD-27-GW031711 | Cs-134 | Total | -0.08 | NA | 0.45 | NA |
| RD-27 | SMRD-27-GW031711 | Cs-137 | Filtered | 0.82 | 1.3 | 0.4 | 0.6 |
| RD-27 | SMRD-27-GW031711 | Cs-137 | Suspended | 0.01 U | 0.68 | 0.2 | 0.32 |
| RD-27 | SMRD-27-GW031711 | Cs-137 | Total | 0.83 | NA | 0.44 | NA |
| RD-27 | SMRD-27-GW031711 | Eu-152 | Filtered | 0.03 U | 3.5 | 1 | 1.7 |
| RD-27 | SMRD-27-GW031711 | Eu-152 | Suspended | 0.03 U | 1.7 | 0.5 | 0.82 |
| RD-27 | SMRD-27-GW031711 | Eu-152 | Total | 0.06 | NA | 1.1 | NA |
| RD-27 | SMRD-27-GW031711 | Eu-154 | Filtered | -1.9 U | 13 | 3.7 | 5.9 |
| RD-27 | SMRD-27-GW031711 | Eu-154 | Suspended | -1.4 U | 5.8 | 1.7 | 2.7 |
| RD-27 | SMRD-27-GW031711 | Eu-154 | Total | -3.4 | NA | 4.1 | NA |
| RD-27 | SMRD-27-GW031711 | Eu-155 | Filtered | 0.18 U | 2.4 | 0.69 | 1.1 |
| RD-27 | SMRD-27-GW031711 | Eu-155 | Suspended | -0.16 U | 1.2 | 0.34 | 0.56 |
| RD-27 | SMRD-27-GW031711 | Eu-155 | Total | 0.02 | NA | 0.77 | NA |
| RD-27 | SMRD-27-GW031711 | gross_alpha | Filtered | 4.43 | 0.55 | 0.43 | 0.3 |
| RD-27 | SMRD-27-GW031711 | gross_alpha | Suspended | 2.37 | 1 | 0.5 | 0.51 |
| RD-27 | SMRD-27-GW031711 | gross_alpha | Total | 6.8 | NA | 0.66 | NA |
| RD-27 | SMRD-27-GW031711 | gross_beta | Filtered | 5.56 | 1.9 | 0.83 | 1.1 |
| RD-27 | SMRD-27-GW031711 | gross_beta | Suspended | 1.46 | 0.79 | 0.3 | 0.46 |
| RD-27 | SMRD-27-GW031711 | gross_beta | Total | 7.02 | NA | 0.88 | NA |
| RD-27 | SMRD-27-GW031711 | H-3 | Total | 12 U | 140 | 41 | 67 |
| RD-27 | SMRD-27-GW031711 | Ho-166m | Filtered | 0.56 U | 2 | 0.58 | 0.91 |
| RD-27 | SMRD-27-GW031711 | Ho-166m | Suspended | 0.29 U | 1.1 | 0.33 | 0.53 |
| RD-27 | SMRD-27-GW031711 | Ho-166m | Total | 0.85 | NA | 0.67 | NA |
| RD-27 | SMRD-27-GW031711 | K-40 | Filtered | 18.4 | 17 | 6.2 | 7.6 |
| RD-27 | SMRD-27-GW031711 | K-40 | Suspended | -7.1 U | 11 | 6.4 | 5.1 |
| RD-27 | SMRD-27-GW031711 | K-40 | Total | 11.3 | NA | 8.9 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-27 | SMRD-27-GW031711 | Na-22 | Filtered | 0.18 U | 1.5 | 0.42 | 0.68 |
| RD-27 | SMRD-27-GW031711 | Na-22 | Suspended | 0.09 U | 0.68 | 0.2 | 0.31 |
| RD-27 | SMRD-27-GW031711 | Na-22 | Total | 0.27 | NA | 0.47 | NA |
| RD-27 | SMRD-27-GW031711 | Nb-94 | Filtered | 0.01 U | 1.2 | 0.33 | 0.54 |
| RD-27 | SMRD-27-GW031711 | Nb-94 | Suspended | 0.04 U | 0.6 | 0.17 | 0.29 |
| RD-27 | SMRD-27-GW031711 | Nb-94 | Total | 0.05 | NA | 0.37 | NA |
| RD-27 | SMRD-27-GW031711 | Np-236 | Filtered | 0.39 U | 2.7 | 0.79 | 1.3 |
| RD-27 | SMRD-27-GW031711 | Np-236 | Suspended | -0.24 U | 1.1 | 0.33 | 0.54 |
| RD-27 | SMRD-27-GW031711 | Np-236 | Total | 0.16 | NA | 0.86 | NA |
| RD-27 | SMRD-27-GW031711 | Np-239 | Filtered | -2.4 U | 7.6 | 2.3 | 3.7 |
| RD-27 | SMRD-27-GW031711 | Np-239 | Suspended | 0.3 U | 3.7 | 1.1 | 1.8 |
| RD-27 | SMRD-27-GW031711 | Np-239 | Total | -2.1 | NA | 2.5 | NA |
| RD-27 | SMRD-27-GW031711 | Pa-231 | Filtered | 0.7 U | 45 | 13 | 21 |
| RD-27 | SMRD-27-GW031711 | Pa-231 | Suspended | 6.7 U | 25 | 7.5 | 12 |
| RD-27 | SMRD-27-GW031711 | Pa-231 | Total | 7 | NA | 15 | NA |
| RD-27 | SMRD-27-GW031711 | Pb-212 | Filtered | 0.98 | 2 | 0.69 | 0.97 |
| RD-27 | SMRD-27-GW031711 | Pb-212 | Suspended | 0.29 U | 1.1 | 0.35 | 0.52 |
| RD-27 | SMRD-27-GW031711 | Pb-212 | Total | 1.27 | NA | 0.77 | NA |
| RD-27 | SMRD-27-GW031711 | Pb-214 | Filtered | 0.87 U | 2.8 | 0.81 | 1.4 |
| RD-27 | SMRD-27-GW031711 | Pb-214 | Suspended | 0.14 U | 1.5 | 0.53 | 0.72 |
| RD-27 | SMRD-27-GW031711 | Pb-214 | Total | 1.01 | NA | 0.97 | NA |
| RD-27 | SMRD-27-GW031711 | Sb-125 | Filtered | 0.02 U | 12 | 3.5 | 5.8 |
| RD-27 | SMRD-27-GW031711 | Sb-125 | Suspended | 0.8 U | 5.4 | 1.6 | 2.6 |
| RD-27 | SMRD-27-GW031711 | Sb-125 | Total | 0.8 | NA | 3.9 | NA |
| RD-27 | SMRD-27-GW031711 | Sn-126 | Filtered | -0.18 U | 1.5 | 0.45 | 0.73 |
| RD-27 | SMRD-27-GW031711 | Sn-126 | Suspended | 0.16 U | 0.73 | 0.22 | 0.35 |
| RD-27 | SMRD-27-GW031711 | Sn-126 | Total | -0.02 | NA | 0.5 | NA |
| RD-27 | SMRD-27-GW031711 | Sr-90 | Filtered | -0.094 U | 0.19 | 0.052 | 0.11 |
| RD-27 | SMRD-27-GW031711 | Sr-90 | Suspended | 0.084 | 0.14 | 0.043 | 0.081 |
| RD-27 | SMRD-27-GW031711 | Sr-90 | Total | -0.009 | NA | 0.067 | NA |
| RD-27 | SMRD-27-GW031711 | Te-125m | Filtered | 0.003 U | 2.8 | 0.81 | 1.3 |
| RD-27 | SMRD-27-GW031711 | Te-125m | Suspended | 0.18 U | 1.3 | 0.37 | 0.61 |
| RD-27 | SMRD-27-GW031711 | Te-125m | Total | 0.19 | NA | 0.89 | NA |
| RD-27 | SMRD-27-GW031711 | Th-231 | Filtered | 0.052 | 0.006 | 0.011 | 0.005 |
| RD-27 | SMRD-27-GW031711 | Th-231 | Suspended | 0 U | 0.0078 | 0.0029 | 0.0067 |
| RD-27 | SMRD-27-GW031711 | Th-231 | Total | 0.052 | NA | 0.011 | NA |
| RD-27 | SMRD-27-GW031711 | Th-234 | Filtered | -1.8 U | 20 | 6.3 | 9.9 |
| RD-27 | SMRD-27-GW031711 | Th-234 | Suspended | -0.7 U | 7.7 | 2.3 | 3.8 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-27 | SMRD-27-GW031711 | Th-234 | Total | -2.5 | NA | 6.7 | NA |
| RD-27 | SMRD-27-GW031711 | Tl-208 | Filtered | -0.08 U | 1.5 | 0.47 | 0.7 |
| RD-27 | SMRD-27-GW031711 | Tl-208 | Suspended | 0.14 U | 0.72 | 0.25 | 0.35 |
| RD-27 | SMRD-27-GW031711 | Tl-208 | Total | 0.06 | NA | 0.53 | NA |
| RD-27 | SMRD-27-GW031711 | Tm-171 | Filtered | 52 U | 310 | 92 | 150 |
| RD-27 | SMRD-27-GW031711 | Tm-171 | Suspended | 37 U | 100 | 31 | 50 |
| RD-27 | SMRD-27-GW031711 | Tm-171 | Total | 89 | NA | 97 | NA |
| RD-27 | SMRD-27-GW031711 | U-233/234 | Filtered | 1.74 | 0.017 | 0.092 | 0.007 |
| RD-27 | SMRD-27-GW031711 | U-233/234 | Suspended | 0.0058 U | 0.022 | 0.0077 | 0.0077 |
| RD-27 | SMRD-27-GW031711 | U-233/234 | Total | 1.75 | NA | 0.093 | NA |
| RD-27 | SMRD-27-GW031711 | U-235/236 | Filtered | 0.052 | 0.006 | 0.011 | 0.005 |
| RD-27 | SMRD-27-GW031711 | U-235/236 | Suspended | 0 U | 0.0078 | 0.0029 | 0.0067 |
| RD-27 | SMRD-27-GW031711 | U-235/236 | Total | 0.052 | NA | 0.011 | NA |
| RD-27 | SMRD-27-GW031711 | U-238 | Filtered | 1.26 | 0.015 | 0.071 | 0.005 |
| RD-27 | SMRD-27-GW031711 | U-238 | Suspended | 0.0155 | 0.0063 | 0.0074 | 0.0054 |
| RD-27 | SMRD-27-GW031711 | U-238 | Total | 1.27 | NA | 0.072 | NA |
| RD-29 | SMRD-29-GW032511 | Ac-227 | Filtered | -9.5 L U | 10 | 3.2 | 5.1 |
| RD-29 | SMRD-29-GW032511 | Ac-227 | Suspended | -2.2 U | 4.3 | 1.3 | 2.1 |
| RD-29 | SMRD-29-GW032511 | Ac-227 | Total | -11.7 R | NA | 3.5 | NA |
| RD-29 | SMRD-29-GW032511 | Ac-228 | Filtered | 2.8 | 3.7 | 1.2 | 1.7 |
| RD-29 | SMRD-29-GW032511 | Ac-228 | Suspended | 0.53 U | 2.7 | 0.69 | 1.3 |
| RD-29 | SMRD-29-GW032511 | Ac-228 | Total | 3.4 | NA | 1.3 | NA |
| RD-29 | SMRD-29-GW032511 | Ag-108 | Filtered | -0.01 U R | 0.084 | 0.025 | 0.04 |
| RD-29 | SMRD-29-GW032511 | Ag-108 | Suspended | -0.002 U R | 0.052 | 0.015 | 0.025 |
| RD-29 | SMRD-29-GW032511 | Ag-108 | Total | -0.012 R | NA | 0.029 | NA |
| RD-29 | SMRD-29-GW032511 | Ag-108m | Filtered | -0.11 U R | 0.9 | 0.27 | 0.43 |
| RD-29 | SMRD-29-GW032511 | Ag-108m | Suspended | -0.02 U R | 0.56 | 0.16 | 0.27 |
| RD-29 | SMRD-29-GW032511 | Ag-108m | Total | -0.13 R | NA | 0.31 | NA |
| RD-29 | SMRD-29-GW032511 | Am-241 | Filtered | 0.0203 | 0.017 | 0.0075 | 0.0053 |
| RD-29 | SMRD-29-GW032511 | Am-241 | Suspended | -0.002 U | 0.018 | 0.0038 | 0.007 |
| RD-29 | SMRD-29-GW032511 | Am-241 | Total | 0.0183 | NA | 0.0084 | NA |
| RD-29 | SMRD-29-GW032511 | Ba-133 | Filtered | -2.8 U R | 12 | 3.5 | 5.6 |
| RD-29 | SMRD-29-GW032511 | Ba-133 | Suspended | 2.7 R | 5.5 | 1.7 | 2.7 |
| RD-29 | SMRD-29-GW032511 | Ba-133 | Total | -0.08 R | NA | 3.8 | NA |
| RD-29 | SMRD-29-GW032511 | Ba-137m | Filtered | -0.009 U | 1.1 | 0.31 | 0.52 |
| RD-29 | SMRD-29-GW032511 | Ba-137m | Suspended | -0.004 U | 0.71 | 0.21 | 0.34 |
| RD-29 | SMRD-29-GW032511 | Ba-137m | Total | -0.01 | NA | 0.38 | NA |
| RD-29 | SMRD-29-GW032511 | Bi-212 | Filtered | -1.2 U | 9.4 | 4.4 | 4.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|--------|--------|----------------|
| RD-29 | SMRD-29-GW032511 | Bi-212 | Suspended | 1.8 U | 6 | 1.8 | 2.9 |
| RD-29 | SMRD-29-GW032511 | Bi-212 | Total | 0.6 | NA | 4.7 | NA |
| RD-29 | SMRD-29-GW032511 | Bi-214 | Filtered | 1.3 | 2.8 | 1.1 | 1.3 |
| RD-29 | SMRD-29-GW032511 | Bi-214 | Suspended | 1 | 1.5 | 0.55 | 0.73 |
| RD-29 | SMRD-29-GW032511 | Bi-214 | Total | 2.3 | NA | 1.2 | NA |
| RD-29 | SMRD-29-GW032511 | C-14 | Total | 1.21 R | 2.2 | 0.68 | 1.1 |
| RD-29 | SMRD-29-GW032511 | Cd-113m | Filtered | 2500 U | 13000 | 3800 | 6100 |
| RD-29 | SMRD-29-GW032511 | Cd-113m | Suspended | 600 U | 6900 | 2000 | 3300 |
| RD-29 | SMRD-29-GW032511 | Cd-113m | Total | 3100 | NA | 4300 | NA |
| RD-29 | SMRD-29-GW032511 | Cf-249 | Filtered | 0 U R | 5.3 | 1.6 | 2.6 |
| RD-29 | SMRD-29-GW032511 | Cf-249 | Suspended | -1.12 U R | 3.2 | 0.98 | 1.6 |
| RD-29 | SMRD-29-GW032511 | Cf-249 | Total | -1.1 R | NA | 1.8 | NA |
| RD-29 | SMRD-29-GW032511 | Cm-243/244 | Filtered | -0.0221 L U | 0.045 | 0.0094 | 0.019 |
| RD-29 | SMRD-29-GW032511 | Cm-243/244 | Suspended | 0 U | 0.0044 | 0.0016 | 0.0038 |
| RD-29 | SMRD-29-GW032511 | Cm-243/244 | Total | -0.0221 L | NA | 0.0096 | NA |
| RD-29 | SMRD-29-GW032511 | Cm-245/246 | Filtered | 0.0166 J | 0.0056 | 0.0059 | 0.0048 |
| RD-29 | SMRD-29-GW032511 | Cm-245/246 | Suspended | 0.0251 | 0.0052 | 0.0071 | 0.0045 |
| RD-29 | SMRD-29-GW032511 | Cm-245/246 | Total | 0.0417 J | NA | 0.0092 | NA |
| RD-29 | SMRD-29-GW032511 | Co-60 | Filtered | 0.13 U | 1.1 | 0.31 | 0.51 |
| RD-29 | SMRD-29-GW032511 | Co-60 | Suspended | -0.09 U | 0.8 | 0.23 | 0.38 |
| RD-29 | SMRD-29-GW032511 | Co-60 | Total | 0.03 | NA | 0.39 | NA |
| RD-29 | SMRD-29-GW032511 | Cs-134 | Filtered | -0.18 U | 1.2 | 0.36 | 0.59 |
| RD-29 | SMRD-29-GW032511 | Cs-134 | Suspended | 0.15 U | 0.79 | 0.23 | 0.38 |
| RD-29 | SMRD-29-GW032511 | Cs-134 | Total | -0.03 SK | NA | 0.43 | NA |
| RD-29 | SMRD-29-GW032511 | Cs-137 | Filtered | -0.009 U | 1.1 | 0.33 | 0.55 |
| RD-29 | SMRD-29-GW032511 | Cs-137 | Suspended | -0.004 U | 0.75 | 0.22 | 0.36 |
| RD-29 | SMRD-29-GW032511 | Cs-137 | Total | -0.01 | NA | 0.4 | NA |
| RD-29 | SMRD-29-GW032511 | Eu-152 | Filtered | 0.07 U | 2.7 | 0.78 | 1.3 |
| RD-29 | SMRD-29-GW032511 | Eu-152 | Suspended | -0.42 U | 1.7 | 0.5 | 0.81 |
| RD-29 | SMRD-29-GW032511 | Eu-152 | Total | -0.34 | NA | 0.93 | NA |
| RD-29 | SMRD-29-GW032511 | Eu-154 | Filtered | -2.3 U | 10 | 2.9 | 4.7 |
| RD-29 | SMRD-29-GW032511 | Eu-154 | Suspended | 3.3 J | 5.3 | 1.6 | 2.5 |
| RD-29 | SMRD-29-GW032511 | Eu-154 | Total | 1 | NA | 3.4 | NA |
| RD-29 | SMRD-29-GW032511 | Eu-155 | Filtered | -0.3 U | 3 | 0.9 | 1.5 |
| RD-29 | SMRD-29-GW032511 | Eu-155 | Suspended | 0.6 U | 1.3 | 0.4 | 0.64 |
| RD-29 | SMRD-29-GW032511 | Eu-155 | Total | 0.29 SK | NA | 0.99 | NA |
| RD-29 | SMRD-29-GW032511 | gross_alpha | Filtered | 14 | 0.42 | 0.86 | 0.22 |
| RD-29 | SMRD-29-GW032511 | gross_alpha | Suspended | 0.86 | 0.89 | 0.32 | 0.46 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-29 | SMRD-29-GW032511 | gross_alpha | Total | 14.8 | NA | 0.92 | NA |
| RD-29 | SMRD-29-GW032511 | gross_beta | Filtered | 6.39 | 1.3 | 0.64 | 0.74 |
| RD-29 | SMRD-29-GW032511 | gross_beta | Suspended | 1.8 | 1 | 0.39 | 0.61 |
| RD-29 | SMRD-29-GW032511 | gross_beta | Total | 8.2 | NA | 0.75 | NA |
| RD-29 | SMRD-29-GW032511 | H-3 | Total | 16 U | 110 | 34 | 55 |
| RD-29 | SMRD-29-GW032511 | Ho-166m | Filtered | -0.37 U | 1.8 | 0.54 | 0.86 |
| RD-29 | SMRD-29-GW032511 | Ho-166m | Suspended | 0.32 U | 1.2 | 0.34 | 0.55 |
| RD-29 | SMRD-29-GW032511 | Ho-166m | Total | -0.06 SK | NA | 0.64 | NA |
| RD-29 | SMRD-29-GW032511 | I-129 | Filtered | -0.09 U | 0.55 | 0.17 | 0.27 |
| RD-29 | SMRD-29-GW032511 | I-129 | Suspended | -0.08 U | 0.41 | 0.12 | 0.2 |
| RD-29 | SMRD-29-GW032511 | I-129 | Total | -0.16 | NA | 0.21 | NA |
| RD-29 | SMRD-29-GW032511 | K-40 | Filtered | 15.2 | 13 | 3.5 | 6.2 |
| RD-29 | SMRD-29-GW032511 | K-40 | Suspended | 5.8 U | 12 | 4 | 5.9 |
| RD-29 | SMRD-29-GW032511 | K-40 | Total | 21 | NA | 5.3 | NA |
| RD-29 | SMRD-29-GW032511 | Na-22 | Filtered | -0.16 U | 1.1 | 0.32 | 0.51 |
| RD-29 | SMRD-29-GW032511 | Na-22 | Suspended | 0.03 U | 0.76 | 0.22 | 0.35 |
| RD-29 | SMRD-29-GW032511 | Na-22 | Total | -0.13 | NA | 0.39 | NA |
| RD-29 | SMRD-29-GW032511 | Nb-94 | Filtered | -0.14 U | 1.1 | 0.33 | 0.55 |
| RD-29 | SMRD-29-GW032511 | Nb-94 | Suspended | 0.17 U | 0.63 | 0.19 | 0.3 |
| RD-29 | SMRD-29-GW032511 | Nb-94 | Total | 0.03 | NA | 0.38 | NA |
| RD-29 | SMRD-29-GW032511 | Np-236 | Filtered | -0.54 U | 2.5 | 0.74 | 1.2 |
| RD-29 | SMRD-29-GW032511 | Np-236 | Suspended | 0.57 | 1.1 | 0.32 | 0.51 |
| RD-29 | SMRD-29-GW032511 | Np-236 | Total | 0.03 SK | NA | 0.81 | NA |
| RD-29 | SMRD-29-GW032511 | Np-237 | Filtered | -0.0024 U | 0.026 | 0.0024 | 0.0058 |
| RD-29 | SMRD-29-GW032511 | Np-237 | Suspended | -0.0019 U | 0.021 | 0.0019 | 0.0055 |
| RD-29 | SMRD-29-GW032511 | Np-237 | Total | -0.0043 | NA | 0.003 | NA |
| RD-29 | SMRD-29-GW032511 | Np-239 | Filtered | 0.6 U | 6.9 | 2 | 3.3 |
| RD-29 | SMRD-29-GW032511 | Np-239 | Suspended | 0 U | 3.8 | 1.1 | 1.9 |
| RD-29 | SMRD-29-GW032511 | Np-239 | Total | 0.6 | NA | 2.3 | NA |
| RD-29 | SMRD-29-GW032511 | Pa-231 | Filtered | 0.3 U | 50 | 15 | 24 |
| RD-29 | SMRD-29-GW032511 | Pa-231 | Suspended | -0.5 U | 25 | 7.3 | 12 |
| RD-29 | SMRD-29-GW032511 | Pa-231 | Total | -0.1 | NA | 16 | NA |
| RD-29 | SMRD-29-GW032511 | Pb-212 | Filtered | 1.97 | 2.2 | 0.68 | 1.1 |
| RD-29 | SMRD-29-GW032511 | Pb-212 | Suspended | 0.86 | 1.1 | 0.37 | 0.52 |
| RD-29 | SMRD-29-GW032511 | Pb-212 | Total | 2.84 | NA | 0.78 | NA |
| RD-29 | SMRD-29-GW032511 | Pb-214 | Filtered | 1.01 U | 2.3 | 0.84 | 1.1 |
| RD-29 | SMRD-29-GW032511 | Pb-214 | Suspended | 0.82 | 1.4 | 0.57 | 0.69 |
| RD-29 | SMRD-29-GW032511 | Pb-214 | Total | 1.8 | NA | 1 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-29 | SMRD-29-GW032511 | Pu-238 | Filtered | 0.0152 | 0.028 | 0.0091 | 0.01 |
| RD-29 | SMRD-29-GW032511 | Pu-238 | Suspended | 0.0209 | 0.011 | 0.0061 | 0.0035 |
| RD-29 | SMRD-29-GW032511 | Pu-238 | Total | 0.036 | NA | 0.011 | NA |
| RD-29 | SMRD-29-GW032511 | Pu-239/240 | Filtered | 0.003 U | 0.0082 | 0.003 | 0.0071 |
| RD-29 | SMRD-29-GW032511 | Pu-239/240 | Suspended | 0.0045 | 0.004 | 0.0026 | 0.0039 |
| RD-29 | SMRD-29-GW032511 | Pu-239/240 | Total | 0.0075 | NA | 0.004 | NA |
| RD-29 | SMRD-29-GW032511 | Pu-242 | Filtered | -0.003 U | 0.022 | 0.003 | 0.0071 |
| RD-29 | SMRD-29-GW032511 | Pu-242 | Suspended | 0.003 U | 0.004 | 0.0021 | 0.0039 |
| RD-29 | SMRD-29-GW032511 | Pu-242 | Total | 0 | NA | 0.0037 | NA |
| RD-29 | SMRD-29-GW032511 | Ra-226 | Filtered | 0.381 | 0.11 | 0.067 | 0.052 |
| RD-29 | SMRD-29-GW032511 | Ra-226 | Suspended | 0.139 | 0.19 | 0.062 | 0.1 |
| RD-29 | SMRD-29-GW032511 | Ra-226 | Total | 0.52 | NA | 0.092 | NA |
| RD-29 | SMRD-29-GW032511 | Sb-125 | Filtered | 0.2 U | 12 | 3.6 | 5.9 |
| RD-29 | SMRD-29-GW032511 | Sb-125 | Suspended | 1.1 U | 4.9 | 1.5 | 2.4 |
| RD-29 | SMRD-29-GW032511 | Sb-125 | Total | 1.2 SK | NA | 3.9 | NA |
| RD-29 | SMRD-29-GW032511 | Sn-126 | Filtered | 0.27 U | 1.1 | 0.32 | 0.51 |
| RD-29 | SMRD-29-GW032511 | Sn-126 | Suspended | -0.07 U | 0.83 | 0.24 | 0.4 |
| RD-29 | SMRD-29-GW032511 | Sn-126 | Total | 0.2 | NA | 0.4 | NA |
| RD-29 | SMRD-29-GW032511 | Sr-90 | Filtered | 0.094 | 0.14 | 0.042 | 0.077 |
| RD-29 | SMRD-29-GW032511 | Sr-90 | Suspended | 0.078 | 0.12 | 0.037 | 0.068 |
| RD-29 | SMRD-29-GW032511 | Sr-90 | Total | 0.173 | NA | 0.056 | NA |
| RD-29 | SMRD-29-GW032511 | Tc-99 | Filtered | -0.27 U | 1.4 | 0.42 | 0.68 |
| RD-29 | SMRD-29-GW032511 | Tc-99 | Suspended | -0.55 U | 1.6 | 0.46 | 0.76 |
| RD-29 | SMRD-29-GW032511 | Tc-99 | Total | -0.81 | NA | 0.62 | NA |
| RD-29 | SMRD-29-GW032511 | Te-125m | Filtered | 0.04 U | 2.8 | 0.82 | 1.4 |
| RD-29 | SMRD-29-GW032511 | Te-125m | Suspended | 0.25 U | 1.1 | 0.34 | 0.55 |
| RD-29 | SMRD-29-GW032511 | Te-125m | Total | 0.29 SK | NA | 0.89 | NA |
| RD-29 | SMRD-29-GW032511 | Th-231 | Filtered | 0.347 | 0.026 | 0.035 | 0.01 |
| RD-29 | SMRD-29-GW032511 | Th-231 | Suspended | 0.0048 | 0.014 | 0.0042 | 0.0045 |
| RD-29 | SMRD-29-GW032511 | Th-231 | Total | 0.352 | NA | 0.035 | NA |
| RD-29 | SMRD-29-GW032511 | Th-234 | Filtered | 3.5 U | 21 | 6.9 | 10 |
| RD-29 | SMRD-29-GW032511 | Th-234 | Suspended | 3.6 U | 8.6 | 2.7 | 4.2 |
| RD-29 | SMRD-29-GW032511 | Th-234 | Total | 7.1 | NA | 7.4 | NA |
| RD-29 | SMRD-29-GW032511 | Tl-208 | Filtered | 0.34 U | 1.4 | 0.47 | 0.67 |
| RD-29 | SMRD-29-GW032511 | Tl-208 | Suspended | 0.37 | 0.77 | 0.28 | 0.37 |
| RD-29 | SMRD-29-GW032511 | Tl-208 | Total | 0.71 | NA | 0.55 | NA |
| RD-29 | SMRD-29-GW032511 | Tm-171 | Filtered | 90 U | 350 | 110 | 170 |
| RD-29 | SMRD-29-GW032511 | Tm-171 | Suspended | 52 U | 110 | 35 | 55 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-29 | SMRD-29-GW032511 | Tm-171 | Total | 140 | NA | 110 | NA |
| RD-29 | SMRD-29-GW032511 | U-233/234 | Filtered | 8.75 | 0.01 | 0.39 | 0.005 |
| RD-29 | SMRD-29-GW032511 | U-233/234 | Suspended | 0.0149 | 0.0047 | 0.0066 | 0.0036 |
| RD-29 | SMRD-29-GW032511 | U-233/234 | Total | 8.76 | NA | 0.39 | NA |
| RD-29 | SMRD-29-GW032511 | U-235/236 | Filtered | 0.347 | 0.026 | 0.035 | 0.01 |
| RD-29 | SMRD-29-GW032511 | U-235/236 | Suspended | 0.0048 | 0.014 | 0.0042 | 0.0045 |
| RD-29 | SMRD-29-GW032511 | U-235/236 | Total | 0.352 | NA | 0.035 | NA |
| RD-29 | SMRD-29-GW032511 | U-238 | Filtered | 8.04 | 0.006 | 0.36 | 0.005 |
| RD-29 | SMRD-29-GW032511 | U-238 | Suspended | 0.0208 | 0.0047 | 0.007 | 0.0036 |
| RD-29 | SMRD-29-GW032511 | U-238 | Total | 8.06 | NA | 0.36 | NA |
| RD-33A | SMRD-33A-GW033111 | Ac-227 | Filtered | 10.3 | 4.8 | 1.8 | 2.3 |
| RD-33A | SMRD-33A-GW033111 | Ac-227 | Suspended | 0.1 U | 5.3 | 1.6 | 2.6 |
| RD-33A | SMRD-33A-GW033111 | Ac-227 | Total | 10.4 | NA | 2.4 | NA |
| RD-33A | SMRD-33A-GW033111 | Ac-228 | Filtered | 5.7 | 4.8 | 1.6 | 2.2 |
| RD-33A | SMRD-33A-GW033111 | Ac-228 | Suspended | 0.74 U | 2.8 | 0.75 | 1.4 |
| RD-33A | SMRD-33A-GW033111 | Ac-228 | Total | 6.5 | NA | 1.8 | NA |
| RD-33A | SMRD-33A-GW033111 | Ag-108 | Filtered | 0.012 U R | 0.11 | 0.033 | 0.054 |
| RD-33A | SMRD-33A-GW033111 | Ag-108 | Suspended | 0.0009 U R | 0.053 | 0.015 | 0.025 |
| RD-33A | SMRD-33A-GW033111 | Ag-108 | Total | 0.013 R | NA | 0.036 | NA |
| RD-33A | SMRD-33A-GW033111 | Ag-108m | Filtered | 0.13 U R | 1.2 | 0.36 | 0.58 |
| RD-33A | SMRD-33A-GW033111 | Ag-108m | Suspended | 0.01 U R | 0.57 | 0.17 | 0.27 |
| RD-33A | SMRD-33A-GW033111 | Ag-108m | Total | 0.14 R | NA | 0.39 | NA |
| RD-33A | SMRD-33A-GW033111 | Ba-133 | Filtered | -5.9 U R | 16 | 4.9 | 7.9 |
| RD-33A | SMRD-33A-GW033111 | Ba-133 | Suspended | -0.8 U R | 6 | 1.8 | 2.9 |
| RD-33A | SMRD-33A-GW033111 | Ba-133 | Total | -6.8 R | NA | 5.2 | NA |
| RD-33A | SMRD-33A-GW033111 | Ba-137m | Filtered | 0.35 U | 1.4 | 0.42 | 0.67 |
| RD-33A | SMRD-33A-GW033111 | Ba-137m | Suspended | -0.11 U | 0.73 | 0.22 | 0.35 |
| RD-33A | SMRD-33A-GW033111 | Ba-137m | Total | 0.24 | NA | 0.47 | NA |
| RD-33A | SMRD-33A-GW033111 | Bi-212 | Filtered | 3.5 U | 12 | 3.6 | 5.7 |
| RD-33A | SMRD-33A-GW033111 | Bi-212 | Suspended | -0.09 U | 6.2 | 1.8 | 3 |
| RD-33A | SMRD-33A-GW033111 | Bi-212 | Total | 3.4 | NA | 4 | NA |
| RD-33A | SMRD-33A-GW033111 | Bi-214 | Filtered | 3.9 | 4 | 1.8 | 1.9 |
| RD-33A | SMRD-33A-GW033111 | Bi-214 | Suspended | 2.03 | 1.8 | 0.79 | 0.87 |
| RD-33A | SMRD-33A-GW033111 | Bi-214 | Total | 6 | NA | 1.9 | NA |
| RD-33A | SMRD-33A-GW033111 | Cd-113m | Filtered | 1800 U | 18000 | 5300 | 8700 |
| RD-33A | SMRD-33A-GW033111 | Cd-113m | Suspended | -1100 U | 6900 | 2100 | 3300 |
| RD-33A | SMRD-33A-GW033111 | Cd-113m | Total | 700 | NA | 5700 | NA |
| RD-33A | SMRD-33A-GW033111 | Cf-249 | Filtered | -0.2 U R | 7.5 | 2.2 | 3.6 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-33A | SMRD-33A-GW033111 | Cf-249 | Suspended | -0.21 U R | 3.1 | 0.91 | 1.5 |
| RD-33A | SMRD-33A-GW033111 | Cf-249 | Total | -0.4 R | NA | 2.4 | NA |
| RD-33A | SMRD-33A-GW033111 | Co-60 | Filtered | 0 U | 1.8 | 0.51 | 0.84 |
| RD-33A | SMRD-33A-GW033111 | Co-60 | Suspended | -0.003 U | 0.64 | 0.18 | 0.29 |
| RD-33A | SMRD-33A-GW033111 | Co-60 | Total | -0.003 | NA | 0.54 | NA |
| RD-33A | SMRD-33A-GW033111 | Cs-134 | Filtered | -0.28 U | 1.8 | 0.52 | 0.84 |
| RD-33A | SMRD-33A-GW033111 | Cs-134 | Suspended | -0.21 U | 0.76 | 0.23 | 0.37 |
| RD-33A | SMRD-33A-GW033111 | Cs-134 | Total | -0.49 | NA | 0.57 | NA |
| RD-33A | SMRD-33A-GW033111 | Cs-137 | Filtered | 0.37 U | 1.5 | 0.45 | 0.71 |
| RD-33A | SMRD-33A-GW033111 | Cs-137 | Suspended | -0.12 U | 0.78 | 0.23 | 0.37 |
| RD-33A | SMRD-33A-GW033111 | Cs-137 | Total | 0.25 | NA | 0.5 | NA |
| RD-33A | SMRD-33A-GW033111 | Eu-152 | Filtered | 0.2 U | 4 | 1.2 | 1.9 |
| RD-33A | SMRD-33A-GW033111 | Eu-152 | Suspended | -0.38 U | 1.9 | 0.55 | 0.9 |
| RD-33A | SMRD-33A-GW033111 | Eu-152 | Total | -0.1 | NA | 1.3 | NA |
| RD-33A | SMRD-33A-GW033111 | Eu-154 | Filtered | -1.9 U | 12 | 3.5 | 5.6 |
| RD-33A | SMRD-33A-GW033111 | Eu-154 | Suspended | -1.5 U | 6.3 | 1.9 | 3 |
| RD-33A | SMRD-33A-GW033111 | Eu-154 | Total | -3.4 | NA | 4 | NA |
| RD-33A | SMRD-33A-GW033111 | Eu-155 | Filtered | 1.3 U | 3.8 | 1.2 | 1.9 |
| RD-33A | SMRD-33A-GW033111 | Eu-155 | Suspended | -0.25 U | 1.4 | 0.43 | 0.7 |
| RD-33A | SMRD-33A-GW033111 | Eu-155 | Total | 1 | NA | 1.2 | NA |
| RD-33A | SMRD-33A-GW033111 | gross_alpha | Filtered | 5.02 | 0.43 | 0.45 | 0.22 |
| RD-33A | SMRD-33A-GW033111 | gross_alpha | Suspended | 0.14 U | 0.42 | 0.12 | 0.22 |
| RD-33A | SMRD-33A-GW033111 | gross_alpha | Total | 3.8 | NA | 0.42 | NA |
| RD-33A | SMRD-33A-GW033111 | gross_beta | Filtered | 4.02 | 1.8 | 0.7 | 1.1 |
| RD-33A | SMRD-33A-GW033111 | gross_beta | Suspended | 0.28 U | 0.83 | 0.25 | 0.5 |
| RD-33A | SMRD-33A-GW033111 | gross_beta | Total | 4.3 | NA | 0.75 | NA |
| RD-33A | SMRD-33A-GW033111 | H-3 | Total | -9 U | 140 | 42 | 69 |
| RD-33A | SMRD-33A-GW033111 | Ho-166m | Filtered | 0.59 U | 2.2 | 0.64 | 1 |
| RD-33A | SMRD-33A-GW033111 | Ho-166m | Suspended | 0.14 U | 0.87 | 0.25 | 0.41 |
| RD-33A | SMRD-33A-GW033111 | Ho-166m | Total | 0.72 | NA | 0.69 | NA |
| RD-33A | SMRD-33A-GW033111 | K-40 | Filtered | 21.2 | 20 | 6.6 | 9.4 |
| RD-33A | SMRD-33A-GW033111 | K-40 | Suspended | 0.07 U | 12 | 3.5 | 5.9 |
| RD-33A | SMRD-33A-GW033111 | K-40 | Total | 21.2 | NA | 7.5 | NA |
| RD-33A | SMRD-33A-GW033111 | Na-22 | Filtered | -0.15 U | 1.7 | 0.49 | 0.79 |
| RD-33A | SMRD-33A-GW033111 | Na-22 | Suspended | -0.07 U | 0.79 | 0.23 | 0.37 |
| RD-33A | SMRD-33A-GW033111 | Na-22 | Total | -0.22 | NA | 0.54 | NA |
| RD-33A | SMRD-33A-GW033111 | Nb-94 | Filtered | 0.06 U | 1.4 | 0.41 | 0.67 |
| RD-33A | SMRD-33A-GW033111 | Nb-94 | Suspended | 0.03 U | 0.7 | 0.2 | 0.33 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-33A | SMRD-33A-GW033111 | Nb-94 | Total | 0.1 | NA | 0.45 | NA |
| RD-33A | SMRD-33A-GW033111 | Np-236 | Filtered | 0.2 U | 3.6 | 1.1 | 1.7 |
| RD-33A | SMRD-33A-GW033111 | Np-236 | Suspended | 0.18 U | 1.2 | 0.37 | 0.6 |
| RD-33A | SMRD-33A-GW033111 | Np-236 | Total | 0.4 | NA | 1.1 | NA |
| RD-33A | SMRD-33A-GW033111 | Np-239 | Filtered | 0.5 U | 9 | 2.6 | 4.3 |
| RD-33A | SMRD-33A-GW033111 | Np-239 | Suspended | -0.6 U | 3.9 | 1.2 | 1.9 |
| RD-33A | SMRD-33A-GW033111 | Np-239 | Total | -0.2 | NA | 2.9 | NA |
| RD-33A | SMRD-33A-GW033111 | Pa-231 | Filtered | 21 U | 67 | 20 | 32 |
| RD-33A | SMRD-33A-GW033111 | Pa-231 | Suspended | 0.05 U | 20 | 5.9 | 9.7 |
| RD-33A | SMRD-33A-GW033111 | Pa-231 | Total | 21 | NA | 21 | NA |
| RD-33A | SMRD-33A-GW033111 | Pb-212 | Filtered | 1.19 U | 2.8 | 0.91 | 1.3 |
| RD-33A | SMRD-33A-GW033111 | Pb-212 | Suspended | 0.23 U | 0.98 | 0.29 | 0.47 |
| RD-33A | SMRD-33A-GW033111 | Pb-212 | Total | 1.42 | NA | 0.95 | NA |
| RD-33A | SMRD-33A-GW033111 | Pb-214 | Filtered | 2.8 | 3.5 | 1.4 | 1.7 |
| RD-33A | SMRD-33A-GW033111 | Pb-214 | Suspended | 0.44 U | 1.5 | 0.42 | 0.72 |
| RD-33A | SMRD-33A-GW033111 | Pb-214 | Total | 3.3 | NA | 1.5 | NA |
| RD-33A | SMRD-33A-GW033111 | Sb-125 | Filtered | -4.9 U | 16 | 4.7 | 7.6 |
| RD-33A | SMRD-33A-GW033111 | Sb-125 | Suspended | 0.7 U | 5.8 | 1.7 | 2.8 |
| RD-33A | SMRD-33A-GW033111 | Sb-125 | Total | -4.2 | NA | 5 | NA |
| RD-33A | SMRD-33A-GW033111 | Sn-126 | Filtered | 0.002 U | 1.3 | 0.37 | 0.61 |
| RD-33A | SMRD-33A-GW033111 | Sn-126 | Suspended | 0.65 B | 0.7 | 0.22 | 0.33 |
| RD-33A | SMRD-33A-GW033111 | Sn-126 | Total | 0.65 | NA | 0.43 | NA |
| RD-33A | SMRD-33A-GW033111 | Sr-90 | Filtered | -0.023 U | 0.14 | 0.04 | 0.081 |
| RD-33A | SMRD-33A-GW033111 | Sr-90 | Suspended | 0.001 U | 0.063 | 0.018 | 0.036 |
| RD-33A | SMRD-33A-GW033111 | Sr-90 | Total | -0.022 | NA | 0.044 | NA |
| RD-33A | SMRD-33A-GW033111 | Te-125m | Filtered | -1.1 U | 3.6 | 1.1 | 1.8 |
| RD-33A | SMRD-33A-GW033111 | Te-125m | Suspended | 0.17 U | 1.3 | 0.4 | 0.65 |
| RD-33A | SMRD-33A-GW033111 | Te-125m | Total | -1 | NA | 1.2 | NA |
| RD-33A | SMRD-33A-GW033111 | Th-231 | Filtered | 0.071 | 0.006 | 0.013 | 0.005 |
| RD-33A | SMRD-33A-GW033111 | Th-231 | Suspended | -0.0021 U | 0.017 | 0.0021 | 0.0055 |
| RD-33A | SMRD-33A-GW033111 | Th-231 | Total | 0.069 | NA | 0.013 | NA |
| RD-33A | SMRD-33A-GW033111 | Th-234 | Filtered | 14.2 | 28 | 9.8 | 14 |
| RD-33A | SMRD-33A-GW033111 | Th-234 | Suspended | 2.1 U | 8.7 | 2.7 | 4.2 |
| RD-33A | SMRD-33A-GW033111 | Th-234 | Total | 16 | NA | 10 | NA |
| RD-33A | SMRD-33A-GW033111 | Tl-208 | Filtered | 1.65 | 1.7 | 0.65 | 0.83 |
| RD-33A | SMRD-33A-GW033111 | Tl-208 | Suspended | 0.52 | 0.78 | 0.29 | 0.37 |
| RD-33A | SMRD-33A-GW033111 | Tl-208 | Total | 2.18 | NA | 0.72 | NA |
| RD-33A | SMRD-33A-GW033111 | Tm-171 | Filtered | 140 U | 430 | 130 | 210 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-33A | SMRD-33A-GW033111 | Tm-171 | Suspended | 44 U | 110 | 35 | 56 |
| RD-33A | SMRD-33A-GW033111 | Tm-171 | Total | 180 | NA | 130 | NA |
| RD-33A | SMRD-33A-GW033111 | U-233/234 | Filtered | 1.92 | 0.01 | 0.1 | 0.004 |
| RD-33A | SMRD-33A-GW033111 | U-233/234 | Suspended | 0.0083 | 0.0057 | 0.0063 | 0.0044 |
| RD-33A | SMRD-33A-GW033111 | U-233/234 | Total | 1.93 | NA | 0.1 | NA |
| RD-33A | SMRD-33A-GW033111 | U-235/236 | Filtered | 0.071 | 0.006 | 0.013 | 0.005 |
| RD-33A | SMRD-33A-GW033111 | U-235/236 | Suspended | -0.0021 U | 0.017 | 0.0021 | 0.0055 |
| RD-33A | SMRD-33A-GW033111 | U-235/236 | Total | 0.069 | NA | 0.013 | NA |
| RD-33A | SMRD-33A-GW033111 | U-238 | Filtered | 1.17 | 0.005 | 0.068 | 0.004 |
| RD-33A | SMRD-33A-GW033111 | U-238 | Suspended | 0.0052 K | 0.014 | 0.0058 | 0.0044 |
| RD-33A | SMRD-33A-GW033111 | U-238 | Total | 1.17 | NA | 0.068 | NA |
| RD-33B | SMRD-33B-GW032211 | Ac-227 | Filtered | 1.7 U | 13 | 3.8 | 6.2 |
| RD-33B | SMRD-33B-GW032211 | Ac-227 | Suspended | 0.068 U | 4.8 | 0.054 | 2.3 |
| RD-33B | SMRD-33B-GW032211 | Ac-227 | Total | 1.8 | NA | 3.8 | NA |
| RD-33B | SMRD-33B-GW032211 | Ac-228 | Filtered | 2.5 U | 6.6 | 1 | 3.1 |
| RD-33B | SMRD-33B-GW032211 | Ac-228 | Suspended | 1.36 | 2.9 | 0.5 | 1.3 |
| RD-33B | SMRD-33B-GW032211 | Ac-228 | Total | 3.8 | NA | 1.1 | NA |
| RD-33B | SMRD-33B-GW032211 | Ag-108 | Filtered | 0.008 U R | 0.099 | 0.02 | 0.047 |
| RD-33B | SMRD-33B-GW032211 | Ag-108 | Suspended | -0.021 U R | 0.058 | 0.017 | 0.028 |
| RD-33B | SMRD-33B-GW032211 | Ag-108 | Total | -0.014 R | NA | 0.027 | NA |
| RD-33B | SMRD-33B-GW032211 | Ag-108m | Filtered | 0.08 U R | 1.1 | 0.22 | 0.5 |
| RD-33B | SMRD-33B-GW032211 | Ag-108m | Suspended | -0.23 U R | 0.62 | 0.19 | 0.3 |
| RD-33B | SMRD-33B-GW032211 | Ag-108m | Total | -0.14 R | NA | 0.29 | NA |
| RD-33B | SMRD-33B-GW032211 | Am-241 | Filtered | 0.0159 | 0.017 | 0.0068 | 0.0053 |
| RD-33B | SMRD-33B-GW032211 | Am-241 | Suspended | -0.0046 U | 0.029 | 0.0073 | 0.013 |
| RD-33B | SMRD-33B-GW032211 | Am-241 | Total | 0.0112 | NA | 0.01 | NA |
| RD-33B | SMRD-33B-GW032211 | Ba-133 | Filtered | -0.21 U R | 1.4 | 0.41 | 0.67 |
| RD-33B | SMRD-33B-GW032211 | Ba-133 | Suspended | -0.3 U R | 0.65 | 0.2 | 0.31 |
| RD-33B | SMRD-33B-GW032211 | Ba-133 | Total | -0.51 R | NA | 0.46 | NA |
| RD-33B | SMRD-33B-GW032211 | Ba-137m | Filtered | 0.11 U | 0.99 | 0.29 | 0.46 |
| RD-33B | SMRD-33B-GW032211 | Ba-137m | Suspended | -0.05 U | 0.55 | 0.16 | 0.26 |
| RD-33B | SMRD-33B-GW032211 | Ba-137m | Total | 0.06 | NA | 0.33 | NA |
| RD-33B | SMRD-33B-GW032211 | Bi-212 | Filtered | 2 U | 11 | 2.2 | 5.1 |
| RD-33B | SMRD-33B-GW032211 | Bi-212 | Suspended | 1.06 U | 4.8 | 0.96 | 2.3 |
| RD-33B | SMRD-33B-GW032211 | Bi-212 | Total | 3.1 | NA | 2.4 | NA |
| RD-33B | SMRD-33B-GW032211 | Bi-214 | Filtered | 2.38 | 3 | 0.91 | 1.5 |
| RD-33B | SMRD-33B-GW032211 | Bi-214 | Suspended | 1.98 | 1.4 | 0.47 | 0.67 |
| RD-33B | SMRD-33B-GW032211 | Bi-214 | Total | 4.4 | NA | 1 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-33B | SMRD-33B-GW032211 | C-14 | Total | 0.79 U R | 2.2 | 0.66 | 1.1 |
| RD-33B | SMRD-33B-GW032211 | Cd-113m | Filtered | -30 U | 3900 | 1200 | 1900 |
| RD-33B | SMRD-33B-GW032211 | Cd-113m | Suspended | 550 U | 1300 | 400 | 630 |
| RD-33B | SMRD-33B-GW032211 | Cd-113m | Total | 500 | NA | 1200 | NA |
| RD-33B | SMRD-33B-GW032211 | Cf-249 | Filtered | -1.6 U R | 6.3 | 1.9 | 3 |
| RD-33B | SMRD-33B-GW032211 | Cf-249 | Suspended | -0.78 U R | 2.4 | 0.72 | 1.2 |
| RD-33B | SMRD-33B-GW032211 | Cf-249 | Total | -2.4 R | NA | 2 | NA |
| RD-33B | SMRD-33B-GW032211 | Cm-243/244 | Filtered | -0.0044 U | 0.024 | 0.0045 | 0.009 |
| RD-33B | SMRD-33B-GW032211 | Cm-243/244 | Suspended | 0 U | 0.0047 | 0.0017 | 0.0041 |
| RD-33B | SMRD-33B-GW032211 | Cm-243/244 | Total | -0.0044 | NA | 0.0048 | NA |
| RD-33B | SMRD-33B-GW032211 | Cm-245/246 | Filtered | 0.0092 J | 0.0062 | 0.0046 | 0.0054 |
| RD-33B | SMRD-33B-GW032211 | Cm-245/246 | Suspended | 0.009 | 0.014 | 0.0052 | 0.0044 |
| RD-33B | SMRD-33B-GW032211 | Cm-245/246 | Total | 0.0182 J | NA | 0.0069 | NA |
| RD-33B | SMRD-33B-GW032211 | Co-60 | Filtered | -0.13 U | 1.4 | 0.4 | 0.65 |
| RD-33B | SMRD-33B-GW032211 | Co-60 | Suspended | 0.08 U | 0.59 | 0.17 | 0.27 |
| RD-33B | SMRD-33B-GW032211 | Co-60 | Total | -0.05 | NA | 0.43 | NA |
| RD-33B | SMRD-33B-GW032211 | Cs-134 | Filtered | 0.38 U | 1.3 | 0.27 | 0.64 |
| RD-33B | SMRD-33B-GW032211 | Cs-134 | Suspended | 0.23 U | 0.62 | 0.17 | 0.3 |
| RD-33B | SMRD-33B-GW032211 | Cs-134 | Total | 0.6 | NA | 0.31 | NA |
| RD-33B | SMRD-33B-GW032211 | Cs-137 | Filtered | 0.12 U | 1 | 0.3 | 0.49 |
| RD-33B | SMRD-33B-GW032211 | Cs-137 | Suspended | -0.06 U | 0.58 | 0.17 | 0.28 |
| RD-33B | SMRD-33B-GW032211 | Cs-137 | Total | 0.06 | NA | 0.35 | NA |
| RD-33B | SMRD-33B-GW032211 | Eu-152 | Filtered | -0.32 U | 3.1 | 0.9 | 1.5 |
| RD-33B | SMRD-33B-GW032211 | Eu-152 | Suspended | 0.31 U | 1.1 | 0.33 | 0.52 |
| RD-33B | SMRD-33B-GW032211 | Eu-152 | Total | -0.01 | NA | 0.95 | NA |
| RD-33B | SMRD-33B-GW032211 | Eu-154 | Filtered | 0.46 U | 6.6 | 0.65 | 3.1 |
| RD-33B | SMRD-33B-GW032211 | Eu-154 | Suspended | 0.013 U | 3.2 | 0.068 | 1.5 |
| RD-33B | SMRD-33B-GW032211 | Eu-154 | Total | 0.47 | NA | 0.65 | NA |
| RD-33B | SMRD-33B-GW032211 | Eu-155 | Filtered | -0.86 U | 3.3 | 0.98 | 1.6 |
| RD-33B | SMRD-33B-GW032211 | Eu-155 | Suspended | 0.28 U | 0.99 | 0.3 | 0.48 |
| RD-33B | SMRD-33B-GW032211 | Eu-155 | Total | -0.6 | NA | 1 | NA |
| RD-33B | SMRD-33B-GW032211 | gross_alpha | Filtered | 2.19 | 0.54 | 0.31 | 0.3 |
| RD-33B | SMRD-33B-GW032211 | gross_alpha | Suspended | 0.23 U | 0.47 | 0.14 | 0.25 |
| RD-33B | SMRD-33B-GW032211 | gross_alpha | Total | 2.42 | NA | 0.34 | NA |
| RD-33B | SMRD-33B-GW032211 | gross_beta | Filtered | 6.27 | 2.5 | 0.997 | 1.5 |
| RD-33B | SMRD-33B-GW032211 | gross_beta | Suspended | 1.22 | 0.77 | 0.28 | 0.46 |
| RD-33B | SMRD-33B-GW032211 | gross_beta | Total | 7.5 | NA | 1 | NA |
| RD-33B | SMRD-33B-GW032211 | H-3 | Total | 32 U | 140 | 41 | 67 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-33B | SMRD-33B-GW032211 | Ho-166m | Filtered | 0.35 U | 1.3 | 0.3 | 0.6 |
| RD-33B | SMRD-33B-GW032211 | Ho-166m | Suspended | 0.16 U | 0.81 | 0.14 | 0.38 |
| RD-33B | SMRD-33B-GW032211 | Ho-166m | Total | 0.51 | NA | 0.33 | NA |
| RD-33B | SMRD-33B-GW032211 | I-129 | Filtered | 0.14 U | 0.58 | 0.17 | 0.29 |
| RD-33B | SMRD-33B-GW032211 | I-129 | Suspended | -0.13 U | 0.49 | 0.15 | 0.24 |
| RD-33B | SMRD-33B-GW032211 | I-129 | Total | 0.002 | NA | 0.23 | NA |
| RD-33B | SMRD-33B-GW032211 | K-40 | Filtered | -5.3 U | 17 | 8 | 8.1 |
| RD-33B | SMRD-33B-GW032211 | K-40 | Suspended | 1 U | 8 | 2.5 | 3.8 |
| RD-33B | SMRD-33B-GW032211 | K-40 | Total | -4.3 | NA | 8.4 | NA |
| RD-33B | SMRD-33B-GW032211 | Na-22 | Filtered | 0.09 U | 1.4 | 0.39 | 0.64 |
| RD-33B | SMRD-33B-GW032211 | Na-22 | Suspended | 0.02 U | 0.63 | 0.18 | 0.29 |
| RD-33B | SMRD-33B-GW032211 | Na-22 | Total | 0.11 | NA | 0.43 | NA |
| RD-33B | SMRD-33B-GW032211 | Nb-94 | Filtered | 0 U | 1.1 | 0.23 | 0.51 |
| RD-33B | SMRD-33B-GW032211 | Nb-94 | Suspended | -0.11 U | 0.5 | 0.15 | 0.24 |
| RD-33B | SMRD-33B-GW032211 | Nb-94 | Total | -0.11 | NA | 0.28 | NA |
| RD-33B | SMRD-33B-GW032211 | Np-236 | Filtered | 0.12 U | 2.8 | 0.83 | 1.4 |
| RD-33B | SMRD-33B-GW032211 | Np-236 | Suspended | 0.02 U | 0.97 | 0.29 | 0.47 |
| RD-33B | SMRD-33B-GW032211 | Np-236 | Total | 0.14 | NA | 0.88 | NA |
| RD-33B | SMRD-33B-GW032211 | Np-237 | Filtered | -0.0022 U | 0.024 | 0.0022 | 0.0059 |
| RD-33B | SMRD-33B-GW032211 | Np-237 | Suspended | 0 U | 0.011 | 0.003 | 0.0056 |
| RD-33B | SMRD-33B-GW032211 | Np-237 | Total | -0.0022 | NA | 0.0037 | NA |
| RD-33B | SMRD-33B-GW032211 | Np-239 | Filtered | 0.2 U | 7.7 | 2.3 | 3.7 |
| RD-33B | SMRD-33B-GW032211 | Np-239 | Suspended | 0.05 U | 2.9 | 0.86 | 1.4 |
| RD-33B | SMRD-33B-GW032211 | Np-239 | Total | 0.3 | NA | 2.4 | NA |
| RD-33B | SMRD-33B-GW032211 | Pa-231 | Filtered | -7 U | 56 | 17 | 27 |
| RD-33B | SMRD-33B-GW032211 | Pa-231 | Suspended | 0.8 U | 19 | 3.2 | 9.3 |
| RD-33B | SMRD-33B-GW032211 | Pa-231 | Total | -7 | NA | 17 | NA |
| RD-33B | SMRD-33B-GW032211 | Pb-212 | Filtered | 1.41 | 2.7 | 0.98 | 1.3 |
| RD-33B | SMRD-33B-GW032211 | Pb-212 | Suspended | -0.04 U | 0.78 | 0.24 | 0.38 |
| RD-33B | SMRD-33B-GW032211 | Pb-212 | Total | 1.4 | NA | 1 | NA |
| RD-33B | SMRD-33B-GW032211 | Pb-214 | Filtered | 0.91 U | 2.4 | 0.81 | 1.2 |
| RD-33B | SMRD-33B-GW032211 | Pb-214 | Suspended | 1.22 | 1.1 | 0.43 | 0.51 |
| RD-33B | SMRD-33B-GW032211 | Pb-214 | Total | 2.13 | NA | 0.91 | NA |
| RD-33B | SMRD-33B-GW032211 | Pu-238 | Filtered | 0.0106 | 0.02 | 0.0064 | 0.007 |
| RD-33B | SMRD-33B-GW032211 | Pu-238 | Suspended | 0.0262 | 0.017 | 0.0076 | 0.0062 |
| RD-33B | SMRD-33B-GW032211 | Pu-238 | Total | 0.0368 | NA | 0.0099 | NA |
| RD-33B | SMRD-33B-GW032211 | Pu-239/240 | Filtered | 0 U | 0.016 | 0.003 | 0.005 |
| RD-33B | SMRD-33B-GW032211 | Pu-239/240 | Suspended | 0.0031 U | 0.0042 | 0.0022 | 0.004 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-33B | SMRD-33B-GW032211 | Pu-239/240 | Total | 0.0031 | NA | 0.0037 | NA |
| RD-33B | SMRD-33B-GW032211 | Pu-242 | Filtered | 0.0021 U | 0.0058 | 0.0021 | 0.005 |
| RD-33B | SMRD-33B-GW032211 | Pu-242 | Suspended | 0.0015 U | 0.014 | 0.0036 | 0.0051 |
| RD-33B | SMRD-33B-GW032211 | Pu-242 | Total | 0.0037 | NA | 0.0042 | NA |
| RD-33B | SMRD-33B-GW032211 | Ra-226 | Filtered | 0.832 | 0.1 | 0.096 | 0.052 |
| RD-33B | SMRD-33B-GW032211 | Ra-226 | Suspended | 0.133 | 0.2 | 0.065 | 0.11 |
| RD-33B | SMRD-33B-GW032211 | Ra-226 | Total | 0.97 | NA | 0.12 | NA |
| RD-33B | SMRD-33B-GW032211 | Sb-125 | Filtered | 0.67 U | 3.3 | 0.98 | 1.6 |
| RD-33B | SMRD-33B-GW032211 | Sb-125 | Suspended | 0.36 U | 1.4 | 0.41 | 0.65 |
| RD-33B | SMRD-33B-GW032211 | Sb-125 | Total | 1 | NA | 1.1 | NA |
| RD-33B | SMRD-33B-GW032211 | Sn-126 | Filtered | 0.42 U | 1.2 | 0.37 | 0.59 |
| RD-33B | SMRD-33B-GW032211 | Sn-126 | Suspended | 0.19 U | 0.58 | 0.17 | 0.28 |
| RD-33B | SMRD-33B-GW032211 | Sn-126 | Total | 0.62 | NA | 0.41 | NA |
| RD-33B | SMRD-33B-GW032211 | Sr-90 | Filtered | 0.017 U | 0.1 | 0.03 | 0.057 |
| RD-33B | SMRD-33B-GW032211 | Sr-90 | Suspended | 0.035 U | 0.067 | 0.02 | 0.038 |
| RD-33B | SMRD-33B-GW032211 | Sr-90 | Total | 0.052 | NA | 0.036 | NA |
| RD-33B | SMRD-33B-GW032211 | Tc-99 | Filtered | -0.22 U | 1.4 | 0.44 | 0.72 |
| RD-33B | SMRD-33B-GW032211 | Tc-99 | Suspended | 0.2 U | 1.7 | 0.49 | 0.81 |
| RD-33B | SMRD-33B-GW032211 | Tc-99 | Total | -0.02 | NA | 0.66 | NA |
| RD-33B | SMRD-33B-GW032211 | Te-125m | Filtered | 0.15 U | 0.76 | 0.23 | 0.36 |
| RD-33B | SMRD-33B-GW032211 | Te-125m | Suspended | 0.082 U | 0.31 | 0.095 | 0.15 |
| RD-33B | SMRD-33B-GW032211 | Te-125m | Total | 0.24 | NA | 0.24 | NA |
| RD-33B | SMRD-33B-GW032211 | Th-231 | Filtered | 0.0073 | 0.0066 | 0.0042 | 0.0051 |
| RD-33B | SMRD-33B-GW032211 | Th-231 | Suspended | 0 U | 0.006 | 0.0018 | 0.0046 |
| RD-33B | SMRD-33B-GW032211 | Th-231 | Total | 0.0073 | NA | 0.0046 | NA |
| RD-33B | SMRD-33B-GW032211 | Th-234 | Filtered | 5.9 U | 15 | 5 | 7.2 |
| RD-33B | SMRD-33B-GW032211 | Th-234 | Suspended | 0.5 U | 3.4 | 0.9 | 1.7 |
| RD-33B | SMRD-33B-GW032211 | Th-234 | Total | 6.4 | NA | 5.1 | NA |
| RD-33B | SMRD-33B-GW032211 | Tl-208 | Filtered | 0.76 | 1.6 | 0.63 | 0.76 |
| RD-33B | SMRD-33B-GW032211 | Tl-208 | Suspended | 0.28 | 0.56 | 0.24 | 0.27 |
| RD-33B | SMRD-33B-GW032211 | Tl-208 | Total | 1.03 | NA | 0.67 | NA |
| RD-33B | SMRD-33B-GW032211 | Tm-171 | Filtered | 410 | 320 | 130 | 160 |
| RD-33B | SMRD-33B-GW032211 | Tm-171 | Suspended | -50 U | 90 | 910 | 50 |
| RD-33B | SMRD-33B-GW032211 | Tm-171 | Total | 360 | NA | 920 | NA |
| RD-33B | SMRD-33B-GW032211 | U-233/234 | Filtered | 0.042 | 0.013 | 0.01 | 0.004 |
| RD-33B | SMRD-33B-GW032211 | U-233/234 | Suspended | 0.0128 | 0.017 | 0.0074 | 0.0065 |
| RD-33B | SMRD-33B-GW032211 | U-233/234 | Total | 0.054 | NA | 0.013 | NA |
| RD-33B | SMRD-33B-GW032211 | U-235/236 | Filtered | 0.0073 | 0.0066 | 0.0042 | 0.0051 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-33B | SMRD-33B-GW032211 | U-235/236 | Suspended | 0 U | 0.006 | 0.0018 | 0.0046 |
| RD-33B | SMRD-33B-GW032211 | U-235/236 | Total | 0.0073 | NA | 0.0046 | NA |
| RD-33B | SMRD-33B-GW032211 | U-238 | Filtered | 0.0111 | 0.016 | 0.0069 | 0.0058 |
| RD-33B | SMRD-33B-GW032211 | U-238 | Suspended | 0.0035 U | 0.0048 | 0.0044 | 0.0037 |
| RD-33B | SMRD-33B-GW032211 | U-238 | Total | 0.0146 | NA | 0.0082 | NA |
| RD-33C | SMRD-33C-GW032211 | Ac-227 | Filtered | 0.5 U | 14 | 4.1 | 6.8 |
| RD-33C | SMRD-33C-GW032211 | Ac-227 | Suspended | -1.7 U | 4.4 | 1.3 | 2.1 |
| RD-33C | SMRD-33C-GW032211 | Ac-227 | Total | -1.2 | NA | 4.3 | NA |
| RD-33C | SMRD-33C-GW032211 | Ac-228 | Filtered | 8 | 3.6 | 1.9 | 1.6 |
| RD-33C | SMRD-33C-GW032211 | Ac-228 | Suspended | 1.55 | 2.4 | 0.73 | 1.1 |
| RD-33C | SMRD-33C-GW032211 | Ac-228 | Total | 9.5 | NA | 2 | NA |
| RD-33C | SMRD-33C-GW032211 | Ag-108 | Filtered | 0.028 U R | 0.11 | 0.034 | 0.054 |
| RD-33C | SMRD-33C-GW032211 | Ag-108 | Suspended | -0.006 U R | 0.052 | 0.015 | 0.025 |
| RD-33C | SMRD-33C-GW032211 | Ag-108 | Total | 0.022 R | NA | 0.037 | NA |
| RD-33C | SMRD-33C-GW032211 | Ag-108m | Filtered | 0.3 U R | 1.2 | 0.36 | 0.58 |
| RD-33C | SMRD-33C-GW032211 | Ag-108m | Suspended | -0.06 U R | 0.56 | 0.17 | 0.27 |
| RD-33C | SMRD-33C-GW032211 | Ag-108m | Total | 0.24 R | NA | 0.4 | NA |
| RD-33C | SMRD-33C-GW032211 | Ba-133 | Filtered | -0.2 U R | 15 | 4.4 | 7.3 |
| RD-33C | SMRD-33C-GW032211 | Ba-133 | Suspended | 1.4 U R | 5.4 | 1.6 | 2.6 |
| RD-33C | SMRD-33C-GW032211 | Ba-133 | Total | 1.2 R | NA | 4.7 | NA |
| RD-33C | SMRD-33C-GW032211 | Ba-137m | Filtered | -0.43 U | 1.5 | 0.45 | 0.72 |
| RD-33C | SMRD-33C-GW032211 | Ba-137m | Suspended | -0.02 U | 0.59 | 0.17 | 0.28 |
| RD-33C | SMRD-33C-GW032211 | Ba-137m | Total | -0.45 | NA | 0.48 | NA |
| RD-33C | SMRD-33C-GW032211 | Bi-212 | Filtered | 3.6 U | 11 | 3.2 | 5.1 |
| RD-33C | SMRD-33C-GW032211 | Bi-212 | Suspended | -1 U | 6.1 | 4.6 | 2.9 |
| RD-33C | SMRD-33C-GW032211 | Bi-212 | Total | 2.5 | NA | 5.6 | NA |
| RD-33C | SMRD-33C-GW032211 | Bi-214 | Filtered | 2.8 | 3.7 | 1.6 | 1.8 |
| RD-33C | SMRD-33C-GW032211 | Bi-214 | Suspended | -0.17 U | 1.6 | 0.58 | 0.76 |
| RD-33C | SMRD-33C-GW032211 | Bi-214 | Total | 2.6 | NA | 1.7 | NA |
| RD-33C | SMRD-33C-GW032211 | Cd-113m | Filtered | 2200 U | 18000 | 5500 | 8900 |
| RD-33C | SMRD-33C-GW032211 | Cd-113m | Suspended | -20 U | 7400 | 2200 | 3600 |
| RD-33C | SMRD-33C-GW032211 | Cd-113m | Total | 2200 | NA | 5900 | NA |
| RD-33C | SMRD-33C-GW032211 | Cf-249 | Filtered | -2.6 U R | 7.5 | 2.2 | 3.6 |
| RD-33C | SMRD-33C-GW032211 | Cf-249 | Suspended | 0.57 U R | 2.8 | 0.84 | 1.4 |
| RD-33C | SMRD-33C-GW032211 | Cf-249 | Total | -2.1 R | NA | 2.4 | NA |
| RD-33C | SMRD-33C-GW032211 | Co-60 | Filtered | 0.07 U | 1.6 | 0.44 | 0.71 |
| RD-33C | SMRD-33C-GW032211 | Co-60 | Suspended | -0.1 U | 0.68 | 0.19 | 0.31 |
| RD-33C | SMRD-33C-GW032211 | Co-60 | Total | -0.03 | NA | 0.48 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-33C | SMRD-33C-GW032211 | Cs-134 | Filtered | -0.55 U | 1.7 | 0.52 | 0.83 |
| RD-33C | SMRD-33C-GW032211 | Cs-134 | Suspended | -0.09 U | 0.77 | 0.23 | 0.37 |
| RD-33C | SMRD-33C-GW032211 | Cs-134 | Total | -0.64 | NA | 0.56 | NA |
| RD-33C | SMRD-33C-GW032211 | Cs-137 | Filtered | -0.45 U | 1.6 | 0.48 | 0.76 |
| RD-33C | SMRD-33C-GW032211 | Cs-137 | Suspended | -0.02 U | 0.62 | 0.18 | 0.29 |
| RD-33C | SMRD-33C-GW032211 | Cs-137 | Total | -0.47 | NA | 0.51 | NA |
| RD-33C | SMRD-33C-GW032211 | Eu-152 | Filtered | 0.4 U | 3.2 | 0.92 | 1.5 |
| RD-33C | SMRD-33C-GW032211 | Eu-152 | Suspended | -0.08 U | 1.7 | 0.51 | 0.83 |
| RD-33C | SMRD-33C-GW032211 | Eu-152 | Total | 0.3 | NA | 1.1 | NA |
| RD-33C | SMRD-33C-GW032211 | Eu-154 | Filtered | -0.06 U | 13 | 3.6 | 5.9 |
| RD-33C | SMRD-33C-GW032211 | Eu-154 | Suspended | -2 U | 6.5 | 1.9 | 3.1 |
| RD-33C | SMRD-33C-GW032211 | Eu-154 | Total | -2 | NA | 4.1 | NA |
| RD-33C | SMRD-33C-GW032211 | Eu-155 | Filtered | 0.5 U | 4 | 1.2 | 2 |
| RD-33C | SMRD-33C-GW032211 | Eu-155 | Suspended | 0.29 U | 1.1 | 0.34 | 0.55 |
| RD-33C | SMRD-33C-GW032211 | Eu-155 | Total | 0.8 | NA | 1.2 | NA |
| RD-33C | SMRD-33C-GW032211 | gross_alpha | Filtered | 2.02 | 0.38 | 0.29 | 0.18 |
| RD-33C | SMRD-33C-GW032211 | gross_alpha | Suspended | 0.35 | 0.38 | 0.14 | 0.19 |
| RD-33C | SMRD-33C-GW032211 | gross_alpha | Total | 2.37 | NA | 0.32 | NA |
| RD-33C | SMRD-33C-GW032211 | gross_beta | Filtered | 4.23 | 2.2 | 0.83 | 1.3 |
| RD-33C | SMRD-33C-GW032211 | gross_beta | Suspended | 0.7 | 0.99 | 0.31 | 0.6 |
| RD-33C | SMRD-33C-GW032211 | gross_beta | Total | 4.93 | NA | 0.89 | NA |
| RD-33C | SMRD-33C-GW032211 | H-3 | Total | 47 U | 150 | 45 | 72 |
| RD-33C | SMRD-33C-GW032211 | Ho-166m | Filtered | -0.08 U | 2.3 | 0.65 | 1.1 |
| RD-33C | SMRD-33C-GW032211 | Ho-166m | Suspended | 0.16 U | 1.1 | 0.32 | 0.51 |
| RD-33C | SMRD-33C-GW032211 | Ho-166m | Total | 0.09 | NA | 0.72 | NA |
| RD-33C | SMRD-33C-GW032211 | K-40 | Filtered | -3.4 U | 24 | 7.4 | 11 |
| RD-33C | SMRD-33C-GW032211 | K-40 | Suspended | 5.8 | 10 | 3.6 | 4.8 |
| RD-33C | SMRD-33C-GW032211 | K-40 | Total | 2.4 | NA | 8.3 | NA |
| RD-33C | SMRD-33C-GW032211 | Na-22 | Filtered | -0.16 U | 1.5 | 0.43 | 0.7 |
| RD-33C | SMRD-33C-GW032211 | Na-22 | Suspended | 0.07 U | 0.74 | 0.21 | 0.34 |
| RD-33C | SMRD-33C-GW032211 | Na-22 | Total | -0.09 | NA | 0.48 | NA |
| RD-33C | SMRD-33C-GW032211 | Nb-94 | Filtered | -0.04 U | 1.3 | 0.36 | 0.6 |
| RD-33C | SMRD-33C-GW032211 | Nb-94 | Suspended | 0.007 U | 0.61 | 0.17 | 0.29 |
| RD-33C | SMRD-33C-GW032211 | Nb-94 | Total | -0.04 | NA | 0.4 | NA |
| RD-33C | SMRD-33C-GW032211 | Np-236 | Filtered | 0.1 U | 9.3 | 2.7 | 4.5 |
| RD-33C | SMRD-33C-GW032211 | Np-236 | Suspended | 0.001 U | 0.88 | 0.26 | 0.42 |
| RD-33C | SMRD-33C-GW032211 | Np-236 | Total | 0.1 | NA | 2.7 | NA |
| RD-33C | SMRD-33C-GW032211 | Np-239 | Filtered | -0.03 U | 9.3 | 2.7 | 4.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|--------|--------|----------------|
| RD-33C | SMRD-33C-GW032211 | Np-239 | Suspended | 0.4 U | 3.5 | 1 | 1.7 |
| RD-33C | SMRD-33C-GW032211 | Np-239 | Total | 0.4 | NA | 2.9 | NA |
| RD-33C | SMRD-33C-GW032211 | Pa-231 | Filtered | 18 U | 68 | 20 | 33 |
| RD-33C | SMRD-33C-GW032211 | Pa-231 | Suspended | 2.2 U | 22 | 6.4 | 10 |
| RD-33C | SMRD-33C-GW032211 | Pa-231 | Total | 20 | NA | 21 | NA |
| RD-33C | SMRD-33C-GW032211 | Pb-212 | Filtered | 0.03 U | 2.9 | 0.91 | 1.4 |
| RD-33C | SMRD-33C-GW032211 | Pb-212 | Suspended | -0.06 U | 1.1 | 0.37 | 0.53 |
| RD-33C | SMRD-33C-GW032211 | Pb-212 | Total | -0.03 | NA | 0.98 | NA |
| RD-33C | SMRD-33C-GW032211 | Pb-214 | Filtered | -0.4 U | 3.7 | 1.2 | 1.8 |
| RD-33C | SMRD-33C-GW032211 | Pb-214 | Suspended | -0.32 U | 1.5 | 0.6 | 0.71 |
| RD-33C | SMRD-33C-GW032211 | Pb-214 | Total | -0.8 | NA | 1.4 | NA |
| RD-33C | SMRD-33C-GW032211 | Sb-125 | Filtered | -0.8 U | 16 | 4.7 | 7.7 |
| RD-33C | SMRD-33C-GW032211 | Sb-125 | Suspended | 1.4 U | 5.4 | 1.6 | 2.6 |
| RD-33C | SMRD-33C-GW032211 | Sb-125 | Total | 0.7 | NA | 5 | NA |
| RD-33C | SMRD-33C-GW032211 | Sn-126 | Filtered | 0.62 U | 1.6 | 0.47 | 0.74 |
| RD-33C | SMRD-33C-GW032211 | Sn-126 | Suspended | 0.05 U | 0.82 | 0.24 | 0.39 |
| RD-33C | SMRD-33C-GW032211 | Sn-126 | Total | 0.67 | NA | 0.53 | NA |
| RD-33C | SMRD-33C-GW032211 | Sr-90 | Filtered | 0.01 U | 0.061 | 0.018 | 0.035 |
| RD-33C | SMRD-33C-GW032211 | Sr-90 | Suspended | 0.015 U | 0.12 | 0.036 | 0.074 |
| RD-33C | SMRD-33C-GW032211 | Sr-90 | Total | 0.015 | NA | 0.036 | NA |
| RD-33C | SMRD-33C-GW032211 | Te-125m | Filtered | -0.2 U | 3.7 | 1.1 | 1.8 |
| RD-33C | SMRD-33C-GW032211 | Te-125m | Suspended | 0.33 U | 1.2 | 0.37 | 0.6 |
| RD-33C | SMRD-33C-GW032211 | Te-125m | Total | 0.2 | NA | 1.1 | NA |
| RD-33C | SMRD-33C-GW032211 | Th-231 | Filtered | 0.0024 U | 0.0065 | 0.0024 | 0.005 |
| RD-33C | SMRD-33C-GW032211 | Th-231 | Suspended | 0 U | 0.013 | 0.0039 | 0.01 |
| RD-33C | SMRD-33C-GW032211 | Th-231 | Total | 0.0024 | NA | 0.0046 | NA |
| RD-33C | SMRD-33C-GW032211 | Th-234 | Filtered | 3.5 U | 27 | 8.8 | 13 |
| RD-33C | SMRD-33C-GW032211 | Th-234 | Suspended | 3.2 U | 7.3 | 2.5 | 3.6 |
| RD-33C | SMRD-33C-GW032211 | Th-234 | Total | 6.7 | NA | 9.1 | NA |
| RD-33C | SMRD-33C-GW032211 | Tl-208 | Filtered | 2.01 | 1.6 | 0.61 | 0.76 |
| RD-33C | SMRD-33C-GW032211 | Tl-208 | Suspended | -0.08 U | 0.83 | 0.26 | 0.4 |
| RD-33C | SMRD-33C-GW032211 | Tl-208 | Total | 1.93 | NA | 0.66 | NA |
| RD-33C | SMRD-33C-GW032211 | Tm-171 | Filtered | -20 U | 460 | 140 | 220 |
| RD-33C | SMRD-33C-GW032211 | Tm-171 | Suspended | -18 U | 110 | 34 | 56 |
| RD-33C | SMRD-33C-GW032211 | Tm-171 | Total | -30 | NA | 140 | NA |
| RD-33C | SMRD-33C-GW032211 | U-233/234 | Filtered | 0.209 | 0.005 | 0.022 | 0.004 |
| RD-33C | SMRD-33C-GW032211 | U-233/234 | Suspended | -0.0211 L U | 0.038 | 0.0079 | 0.014 |
| RD-33C | SMRD-33C-GW032211 | U-233/234 | Total | 0.188 | NA | 0.024 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-33C | SMRD-33C-GW032211 | U-235/236 | Filtered | 0.0024 U | 0.0065 | 0.0024 | 0.005 |
| RD-33C | SMRD-33C-GW032211 | U-235/236 | Suspended | 0 U | 0.013 | 0.0039 | 0.01 |
| RD-33C | SMRD-33C-GW032211 | U-235/236 | Total | 0.0024 | NA | 0.0046 | NA |
| RD-33C | SMRD-33C-GW032211 | U-238 | Filtered | 0.116 | 0.005 | 0.016 | 0.004 |
| RD-33C | SMRD-33C-GW032211 | U-238 | Suspended | 0.0052 U | 0.011 | 0.0088 | 0.0082 |
| RD-33C | SMRD-33C-GW032211 | U-238 | Total | 0.122 | NA | 0.018 | NA |
| RD-34A | SMRD34AGW032311 | Ac-227 | Filtered | -6.7 UL | 9.9 | 3 | 4.9 |
| RD-34A | SMRD34AGW032311 | Ac-227 | Suspended | -3.1 UL | 5 | 1.5 | 2.4 |
| RD-34A | SMRD34AGW032311 | Ac-227 | Total | -9.8 | NA | 3.4 | NA |
| RD-34A | SMRD34AGW032311 | Ac-228 | Filtered | 2.7 | 3.6 | 1.1 | 1.7 |
| RD-34A | SMRD34AGW032311 | Ac-228 | Suspended | 1.55 | 2.2 | 0.7 | 1 |
| RD-34A | SMRD34AGW032311 | Ac-228 | Total | 4.3 | NA | 1.3 | NA |
| RD-34A | SMRD34AGW032311 | Ag-108 | Filtered | 0.0005 U | 0.092 | 0.027 | 0.044 |
| RD-34A | SMRD34AGW032311 | Ag-108 | Suspended | 0 U | 0.052 | 0.015 | 0.025 |
| RD-34A | SMRD34AGW032311 | Ag-108 | Total | 0.0005 | NA | 0.031 | NA |
| RD-34A | SMRD34AGW032311 | Ag-108m | Filtered | 0.005 U | 0.99 | 0.29 | 0.47 |
| RD-34A | SMRD34AGW032311 | Ag-108m | Suspended | 0.0004 U | 0.56 | 0.16 | 0.27 |
| RD-34A | SMRD34AGW032311 | Ag-108m | Total | 0.006 | NA | 0.33 | NA |
| RD-34A | SMRD34AGW032311 | Ba-133 | Filtered | -0.2 U | 11 | 3.3 | 5.5 |
| RD-34A | SMRD34AGW032311 | Ba-133 | Suspended | -0.03 U | 6.4 | 1.9 | 3.1 |
| RD-34A | SMRD34AGW032311 | Ba-133 | Total | -0.2 | NA | 3.8 | NA |
| RD-34A | SMRD34AGW032311 | Ba-137m | Filtered | 0.08 U | 1.1 | 0.32 | 0.52 |
| RD-34A | SMRD34AGW032311 | Ba-137m | Suspended | 0.1 U | 0.68 | 0.2 | 0.32 |
| RD-34A | SMRD34AGW032311 | Ba-137m | Total | 0.18 | NA | 0.37 | NA |
| RD-34A | SMRD34AGW032311 | Bi-212 | Filtered | -4 U | 10 | 140 | 5 |
| RD-34A | SMRD34AGW032311 | Bi-212 | Suspended | 1.4 U | 5.4 | 1.6 | 2.5 |
| RD-34A | SMRD34AGW032311 | Bi-212 | Total | -3 | NA | 140 | NA |
| RD-34A | SMRD34AGW032311 | Bi-214 | Filtered | 0.6 U | 2.8 | 1 | 1.4 |
| RD-34A | SMRD34AGW032311 | Bi-214 | Suspended | 0.56 U | 1.9 | 0.73 | 0.91 |
| RD-34A | SMRD34AGW032311 | Bi-214 | Total | 1.2 | NA | 1.2 | NA |
| RD-34A | SMRD34AGW032311 | Cd-113m | Filtered | 2200 U | 13000 | 3800 | 6200 |
| RD-34A | SMRD34AGW032311 | Cd-113m | Suspended | 700 U | 7700 | 2300 | 3700 |
| RD-34A | SMRD34AGW032311 | Cd-113m | Total | 2900 | NA | 4400 | NA |
| RD-34A | SMRD34AGW032311 | Cf-249 | Filtered | 0.7 U | 5.3 | 1.6 | 2.5 |
| RD-34A | SMRD34AGW032311 | Cf-249 | Suspended | 0.75 U | 3.2 | 0.94 | 1.5 |
| RD-34A | SMRD34AGW032311 | Cf-249 | Total | 1.4 | NA | 1.8 | NA |
| RD-34A | SMRD34AGW032311 | Co-60 | Filtered | -0.23 U | 1.3 | 0.37 | 0.59 |
| RD-34A | SMRD34AGW032311 | Co-60 | Suspended | 0 U | 1 | 0.28 | 0.46 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-34A | SMRD34AGW032311 | Co-60 | Total | -0.23 | NA | 0.46 | NA |
| RD-34A | SMRD34AGW032311 | Cs-134 | Filtered | -0.35 U | 1.2 | 0.36 | 0.58 |
| RD-34A | SMRD34AGW032311 | Cs-134 | Suspended | -0.14 U | 0.78 | 0.23 | 0.37 |
| RD-34A | SMRD34AGW032311 | Cs-134 | Total | -0.49 | NA | 0.43 | NA |
| RD-34A | SMRD34AGW032311 | Cs-137 | Filtered | 0.09 U | 1.2 | 0.34 | 0.55 |
| RD-34A | SMRD34AGW032311 | Cs-137 | Suspended | 0.1 U | 0.72 | 0.21 | 0.34 |
| RD-34A | SMRD34AGW032311 | Cs-137 | Total | 0.19 | NA | 0.4 | NA |
| RD-34A | SMRD34AGW032311 | Eu-152 | Filtered | -0.9 U | 2.5 | 0.74 | 1.2 |
| RD-34A | SMRD34AGW032311 | Eu-152 | Suspended | 0.03 U | 1.7 | 0.48 | 0.79 |
| RD-34A | SMRD34AGW032311 | Eu-152 | Total | -0.88 | NA | 0.88 | NA |
| RD-34A | SMRD34AGW032311 | Eu-154 | Filtered | -0.3 U | 9.4 | 2.7 | 4.4 |
| RD-34A | SMRD34AGW032311 | Eu-154 | Suspended | 0.002 U | 5.3 | 1.5 | 2.4 |
| RD-34A | SMRD34AGW032311 | Eu-154 | Total | -0.3 | NA | 3.1 | NA |
| RD-34A | SMRD34AGW032311 | Eu-155 | Filtered | -0.36 U | 3.1 | 0.92 | 1.5 |
| RD-34A | SMRD34AGW032311 | Eu-155 | Suspended | 0.31 U | 1.5 | 0.44 | 0.71 |
| RD-34A | SMRD34AGW032311 | Eu-155 | Total | -0.05 | NA | 1 | NA |
| RD-34A | SMRD34AGW032311 | gross_alpha | Filtered | 20.2 J | 0.4 | 1.4 | 0.2 |
| RD-34A | SMRD34AGW032311 | gross_alpha | Suspended | 0.64 | 0.46 | 0.19 | 0.23 |
| RD-34A | SMRD34AGW032311 | gross_alpha | Total | 20.9 | NA | 1.4 | NA |
| RD-34A | SMRD34AGW032311 | gross_beta | Filtered | 1.34 | 0.87 | 0.31 | 0.52 |
| RD-34A | SMRD34AGW032311 | gross_beta | Suspended | 14.6 | 1.4 | 1.1 | 0.7 |
| RD-34A | SMRD34AGW032311 | gross_beta | Total | 16.8 | NA | 1.2 | NA |
| RD-34A | SMRD34AGW032311 | H-3_Total | Total | 342 | 89 | 36 | 43 |
| RD-34A | SMRD34AGW032311 | Ho-166m | Filtered | -0.29 U | 2 | 0.58 | 0.94 |
| RD-34A | SMRD34AGW032311 | Ho-166m | Suspended | 0.21 U | 1.1 | 0.32 | 0.51 |
| RD-34A | SMRD34AGW032311 | Ho-166m | Total | -0.09 | NA | 0.66 | NA |
| RD-34A | SMRD34AGW032311 | K-40 | Filtered | 12.9 | 16 | 5 | 7.3 |
| RD-34A | SMRD34AGW032311 | K-40 | Suspended | 2 U | 10 | 2.5 | 4.7 |
| RD-34A | SMRD34AGW032311 | K-40 | Total | 14.8 | NA | 5.5 | NA |
| RD-34A | SMRD34AGW032311 | Na-22 | Filtered | -0.13 U | 1.2 | 0.35 | 0.57 |
| RD-34A | SMRD34AGW032311 | Na-22 | Suspended | -0.15 U | 0.91 | 0.26 | 0.42 |
| RD-34A | SMRD34AGW032311 | Na-22 | Total | -0.28 | NA | 0.44 | NA |
| RD-34A | SMRD34AGW032311 | Nb-94 | Filtered | -0.33 U | 1.2 | 0.36 | 0.58 |
| RD-34A | SMRD34AGW032311 | Nb-94 | Suspended | -0.18 U | 0.76 | 0.22 | 0.36 |
| RD-34A | SMRD34AGW032311 | Nb-94 | Total | -0.51 | NA | 0.43 | NA |
| RD-34A | SMRD34AGW032311 | Np-236 | Filtered | -0.36 U | 2.1 | 0.63 | 1 |
| RD-34A | SMRD34AGW032311 | Np-236 | Suspended | -0.006 U | 1.2 | 0.37 | 0.6 |
| RD-34A | SMRD34AGW032311 | Np-236 | Total | -0.36 | NA | 0.73 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-34A | SMRD34AGW032311 | Np-239 | Filtered | 1.6 U | 7 | 2.1 | 3.4 |
| RD-34A | SMRD34AGW032311 | Np-239 | Suspended | -0.1 U | 3.8 | 1.1 | 1.8 |
| RD-34A | SMRD34AGW032311 | Np-239 | Total | 1.5 | NA | 2.4 | NA |
| RD-34A | SMRD34AGW032311 | Pa-231 | Filtered | -18 U | 55 | 17 | 27 |
| RD-34A | SMRD34AGW032311 | Pa-231 | Suspended | 1.5 U | 29 | 8.5 | 14 |
| RD-34A | SMRD34AGW032311 | Pa-231 | Total | -16 | NA | 19 | NA |
| RD-34A | SMRD34AGW032311 | Pb-212 | Filtered | 0.06 U | 2.6 | 0.92 | 1.3 |
| RD-34A | SMRD34AGW032311 | Pb-212 | Suspended | 0.77 | 1.2 | 0.43 | 0.6 |
| RD-34A | SMRD34AGW032311 | Pb-212 | Total | 0.8 | NA | 1 | NA |
| RD-34A | SMRD34AGW032311 | Pb-214 | Filtered | 0.37 U | 2.3 | 0.77 | 1.1 |
| RD-34A | SMRD34AGW032311 | Pb-214 | Suspended | 0.29 U | 1.6 | 0.44 | 0.78 |
| RD-34A | SMRD34AGW032311 | Pb-214 | Total | 0.66 | NA | 0.88 | NA |
| RD-34A | SMRD34AGW032311 | Sb-125 | Filtered | -1.7 U | 13 | 3.7 | 6.1 |
| RD-34A | SMRD34AGW032311 | Sb-125 | Suspended | -0.4 U | 5.7 | 1.7 | 2.8 |
| RD-34A | SMRD34AGW032311 | Sb-125 | Total | -2.1 | NA | 4.1 | NA |
| RD-34A | SMRD34AGW032311 | Sn-126 | Filtered | -0.24 U | 1.4 | 0.41 | 0.67 |
| RD-34A | SMRD34AGW032311 | Sn-126 | Suspended | -0.06 U | 0.82 | 0.24 | 0.39 |
| RD-34A | SMRD34AGW032311 | Sn-126 | Total | -0.3 | NA | 0.48 | NA |
| RD-34A | SMRD34AGW032311 | Sr-90 | Filtered | 0.163 | 0.11 | 0.036 | 0.054 |
| RD-34A | SMRD34AGW032311 | Sr-90 | Suspended | 0 U | 0.08 | 0.02 | 0.05 |
| RD-34A | SMRD34AGW032311 | Sr-90 | Total | 0.16 | NA | 0.04 | NA |
| RD-34A | SMRD34AGW032311 | Te-125m | Filtered | -0.39 U | 2.9 | 0.87 | 1.4 |
| RD-34A | SMRD34AGW032311 | Te-125m | Suspended | -0.09 U | 1.3 | 0.39 | 0.64 |
| RD-34A | SMRD34AGW032311 | Te-125m | Total | -0.48 | NA | 0.95 | NA |
| RD-34A | SMRD34AGW032311 | Th-231 | Filtered | 0.521 | 0.009 | 0.048 | 0.008 |
| RD-34A | SMRD34AGW032311 | Th-231 | Suspended | 0.0024 U | 0.0064 | 0.0024 | 0.0055 |
| RD-34A | SMRD34AGW032311 | Th-231 | Total | 0.524 | NA | 0.048 | NA |
| RD-34A | SMRD34AGW032311 | Th-234 | Filtered | 7.9 U | 22 | 7.1 | 11 |
| RD-34A | SMRD34AGW032311 | Th-234 | Suspended | 4.1 U | 9 | 3.2 | 4.4 |
| RD-34A | SMRD34AGW032311 | Th-234 | Total | 12 | NA | 7.8 | NA |
| RD-34A | SMRD34AGW032311 | Tl-208 | Filtered | 0.38 U | 1.4 | 0.5 | 0.66 |
| RD-34A | SMRD34AGW032311 | Tl-208 | Suspended | 0.68 | 0.79 | 0.29 | 0.38 |
| RD-34A | SMRD34AGW032311 | Tl-208 | Total | 1.06 | NA | 0.58 | NA |
| RD-34A | SMRD34AGW032311 | Tm-171 | Filtered | 90 U | 360 | 110 | 170 |
| RD-34A | SMRD34AGW032311 | Tm-171 | Suspended | -21 U | 140 | 41 | 66 |
| RD-34A | SMRD34AGW032311 | Tm-171 | Total | 70 | NA | 110 | NA |
| RD-34A | SMRD34AGW032311 | U-233/234 | Filtered | 10.4 | 0.02 | 0.47 | 0.01 |
| RD-34A | SMRD34AGW032311 | U-233/234 | Filtered | 10.4 | 0.02 | 0.47 | 0.01 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-34A | SMRD34AGW032311 | U-233/234 | Suspended | 0.09 | 0.04 | 0.03 | 0.01 |
| RD-34A | SMRD34AGW032311 | U-233/234 | Total | 10.5 | NA | 0.47 | NA |
| RD-34A | SMRD34AGW032311 | U-235/236 | Filtered | 0.52 | 0.01 | 0.05 | 0.01 |
| RD-34A | SMRD34AGW032311 | U-235/236 | Filtered | 0.52 | 0.01 | 0.05 | 0.01 |
| RD-34A | SMRD34AGW032311 | U-235/236 | Suspended | 0 U | 0.05 | 0 | 0.01 |
| RD-34A | SMRD34AGW032311 | U-235/236 | Total | 0.52 | NA | 0.05 | NA |
| RD-34A | SMRD34AGW032311 | U-238 | Filtered | 11 | 0.01 | 0.49 | 0.01 |
| RD-34A | SMRD34AGW032311 | U-238 | Filtered | 11 | 0.01 | 0.49 | 0.01 |
| RD-34A | SMRD34AGW032311 | U-238 | Suspended | 0.09 | 0.04 | 0.03 | 0.01 |
| RD-34A | SMRD34AGW032311 | U-238 | Total | 11.1 | NA | 0.5 | NA |
| RD-34B | SMRD-34B-GW031811 | Ac-227 | Filtered | -2.1 U | 8.9 | 2.6 | 4.3 |
| RD-34B | SMRD-34B-GW031811 | Ac-227 | Suspended | -0.9 U | 3.7 | 1.1 | 1.8 |
| RD-34B | SMRD-34B-GW031811 | Ac-227 | Total | -3 | NA | 2.9 | NA |
| RD-34B | SMRD-34B-GW031811 | Ac-228 | Filtered | 0 U | 5.9 | 1.7 | 2.8 |
| RD-34B | SMRD-34B-GW031811 | Ac-228 | Suspended | -0.7 U | 2.6 | 1.2 | 1.3 |
| RD-34B | SMRD-34B-GW031811 | Ac-228 | Total | -0.7 | NA | 2 | NA |
| RD-34B | SMRD-34B-GW031811 | Ag-108 | Filtered | 0.027 U | 0.12 | 0.035 | 0.056 |
| RD-34B | SMRD-34B-GW031811 | Ag-108 | Suspended | -0.001 U | 0.047 | 0.014 | 0.023 |
| RD-34B | SMRD-34B-GW031811 | Ag-108 | Total | 0.025 | NA | 0.037 | NA |
| RD-34B | SMRD-34B-GW031811 | Ag-108m | Filtered | 0.29 U | 1.3 | 0.37 | 0.6 |
| RD-34B | SMRD-34B-GW031811 | Ag-108m | Suspended | -0.01 U | 0.51 | 0.15 | 0.24 |
| RD-34B | SMRD-34B-GW031811 | Ag-108m | Total | 0.27 | NA | 0.4 | NA |
| RD-34B | SMRD-34B-GW031811 | Ba-133 | Filtered | 0.09 U | 13 | 3.8 | 6.3 |
| RD-34B | SMRD-34B-GW031811 | Ba-133 | Suspended | 0.6 U | 6 | 1.8 | 2.9 |
| RD-34B | SMRD-34B-GW031811 | Ba-133 | Total | 0.7 | NA | 4.2 | NA |
| RD-34B | SMRD-34B-GW031811 | Ba-137m | Filtered | -0.07 U | 1.3 | 0.39 | 0.63 |
| RD-34B | SMRD-34B-GW031811 | Ba-137m | Suspended | 0 U | 0.81 | 0.24 | 0.39 |
| RD-34B | SMRD-34B-GW031811 | Ba-137m | Total | -0.07 | NA | 0.45 | NA |
| RD-34B | SMRD-34B-GW031811 | Bi-212 | Filtered | 1.4 U | 12 | 3.4 | 5.6 |
| RD-34B | SMRD-34B-GW031811 | Bi-212 | Suspended | 1.7 U | 5.2 | 1.5 | 2.5 |
| RD-34B | SMRD-34B-GW031811 | Bi-212 | Total | 3.1 | NA | 3.8 | NA |
| RD-34B | SMRD-34B-GW031811 | Bi-214 | Filtered | 2.3 | 3.6 | 1.4 | 1.7 |
| RD-34B | SMRD-34B-GW031811 | Bi-214 | Suspended | -0.51 U | 1.6 | 0.73 | 0.78 |
| RD-34B | SMRD-34B-GW031811 | Bi-214 | Total | 1.8 | NA | 1.6 | NA |
| RD-34B | SMRD-34B-GW031811 | Cd-113m | Filtered | -2100 U | 18000 | 5400 | 8900 |
| RD-34B | SMRD-34B-GW031811 | Cd-113m | Suspended | -2000 U | 7200 | 2200 | 3500 |
| RD-34B | SMRD-34B-GW031811 | Cd-113m | Total | -4100 | NA | 5800 | NA |
| RD-34B | SMRD-34B-GW031811 | Cf-249 | Filtered | 0.1 U | 6.4 | 1.8 | 3 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-34B | SMRD-34B-GW031811 | Cf-249 | Suspended | 0.07 U | 2.7 | 0.8 | 1.3 |
| RD-34B | SMRD-34B-GW031811 | Cf-249 | Total | 0.2 | NA | 2 | NA |
| RD-34B | SMRD-34B-GW031811 | Co-60 | Filtered | -0.77 U | 1.8 | 0.54 | 0.82 |
| RD-34B | SMRD-34B-GW031811 | Co-60 | Suspended | -0.07 U | 0.63 | 0.18 | 0.29 |
| RD-34B | SMRD-34B-GW031811 | Co-60 | Total | -0.84 | NA | 0.57 | NA |
| RD-34B | SMRD-34B-GW031811 | Cs-134 | Filtered | 0.21 U | 1.5 | 0.44 | 0.71 |
| RD-34B | SMRD-34B-GW031811 | Cs-134 | Suspended | -0.33 U | 0.79 | 0.24 | 0.38 |
| RD-34B | SMRD-34B-GW031811 | Cs-134 | Total | -0.12 | NA | 0.5 | NA |
| RD-34B | SMRD-34B-GW031811 | Cs-137 | Filtered | -0.07 U | 1.4 | 0.41 | 0.67 |
| RD-34B | SMRD-34B-GW031811 | Cs-137 | Suspended | 0 U | 0.85 | 0.25 | 0.41 |
| RD-34B | SMRD-34B-GW031811 | Cs-137 | Total | -0.07 | NA | 0.48 | NA |
| RD-34B | SMRD-34B-GW031811 | Eu-152 | Filtered | 1 U | 4.1 | 1.2 | 1.9 |
| RD-34B | SMRD-34B-GW031811 | Eu-152 | Suspended | -0.43 U | 1.8 | 0.55 | 0.89 |
| RD-34B | SMRD-34B-GW031811 | Eu-152 | Total | 0.6 | NA | 1.3 | NA |
| RD-34B | SMRD-34B-GW031811 | Eu-154 | Filtered | -0.5 U | 13 | 3.6 | 5.8 |
| RD-34B | SMRD-34B-GW031811 | Eu-154 | Suspended | -1.1 U | 6.2 | 1.8 | 3 |
| RD-34B | SMRD-34B-GW031811 | Eu-154 | Total | -1.6 | NA | 4 | NA |
| RD-34B | SMRD-34B-GW031811 | Eu-155 | Filtered | 1.2 U | 4 | 1.2 | 2 |
| RD-34B | SMRD-34B-GW031811 | Eu-155 | Suspended | 0.3 U | 1.2 | 0.36 | 0.59 |
| RD-34B | SMRD-34B-GW031811 | Eu-155 | Total | 1.5 | NA | 1.3 | NA |
| RD-34B | SMRD-34B-GW031811 | gross_alpha | Filtered | 3.49 L | 0.48 | 0.39 | 0.25 |
| RD-34B | SMRD-34B-GW031811 | gross_alpha | Suspended | 0.18 U | 0.41 | 0.12 | 0.21 |
| RD-34B | SMRD-34B-GW031811 | gross_alpha | Total | 3.67 | NA | 0.41 | NA |
| RD-34B | SMRD-34B-GW031811 | gross_beta | Filtered | 5.56 | 2.5 | 0.99 | 1.5 |
| RD-34B | SMRD-34B-GW031811 | gross_beta | Suspended | -1.12 R U | 1.2 | 0.29 | 0.71 |
| RD-34B | SMRD-34B-GW031811 | gross_beta | Total | 4.4 | NA | 1 | NA |
| RD-34B | SMRD-34B-GW031811 | H-3 | Total | 187 | 150 | 50 | 75 |
| RD-34B | SMRD-34B-GW031811 | Ho-166m | Filtered | 0.44 U | 2.4 | 0.7 | 1.1 |
| RD-34B | SMRD-34B-GW031811 | Ho-166m | Suspended | -0.16 U | 1.2 | 0.35 | 0.56 |
| RD-34B | SMRD-34B-GW031811 | Ho-166m | Total | 0.28 | NA | 0.78 | NA |
| RD-34B | SMRD-34B-GW031811 | K-40 | Filtered | -30 U | 20 | 130 | 10 |
| RD-34B | SMRD-34B-GW031811 | K-40 | Suspended | -1 U | 13 | 4.4 | 6 |
| RD-34B | SMRD-34B-GW031811 | K-40 | Total | -30 | NA | 130 | NA |
| RD-34B | SMRD-34B-GW031811 | Na-22 | Filtered | -0.1 U | 1.6 | 0.45 | 0.73 |
| RD-34B | SMRD-34B-GW031811 | Na-22 | Suspended | -0.14 U | 0.71 | 0.21 | 0.33 |
| RD-34B | SMRD-34B-GW031811 | Na-22 | Total | -0.24 | NA | 0.49 | NA |
| RD-34B | SMRD-34B-GW031811 | Nb-94 | Filtered | 0.01 U | 1.3 | 0.36 | 0.59 |
| RD-34B | SMRD-34B-GW031811 | Nb-94 | Suspended | -0.003 U | 0.56 | 0.16 | 0.26 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-34B | SMRD-34B-GW031811 | Nb-94 | Total | 0.01 | NA | 0.39 | NA |
| RD-34B | SMRD-34B-GW031811 | Np-236 | Filtered | 0.008 U | 3.5 | 1 | 1.7 |
| RD-34B | SMRD-34B-GW031811 | Np-236 | Suspended | -0.06 U | 1.2 | 0.36 | 0.59 |
| RD-34B | SMRD-34B-GW031811 | Np-236 | Total | -0.06 | NA | 1.1 | NA |
| RD-34B | SMRD-34B-GW031811 | Np-239 | Filtered | -0.3 U | 9.4 | 2.8 | 4.5 |
| RD-34B | SMRD-34B-GW031811 | Np-239 | Suspended | 0.02 U | 3.6 | 1 | 1.7 |
| RD-34B | SMRD-34B-GW031811 | Np-239 | Total | -0.3 | NA | 2.9 | NA |
| RD-34B | SMRD-34B-GW031811 | Pa-231 | Filtered | -14 U | 60 | 18 | 29 |
| RD-34B | SMRD-34B-GW031811 | Pa-231 | Suspended | -0.6 U | 27 | 7.9 | 13 |
| RD-34B | SMRD-34B-GW031811 | Pa-231 | Total | -15 | NA | 20 | NA |
| RD-34B | SMRD-34B-GW031811 | Pb-212 | Filtered | -0.26 U | 2.7 | 0.96 | 1.3 |
| RD-34B | SMRD-34B-GW031811 | Pb-212 | Suspended | 0.57 | 1 | 0.32 | 0.5 |
| RD-34B | SMRD-34B-GW031811 | Pb-212 | Total | 0.3 | NA | 1 | NA |
| RD-34B | SMRD-34B-GW031811 | Pb-214 | Filtered | 2.24 | 3.3 | 0.96 | 1.6 |
| RD-34B | SMRD-34B-GW031811 | Pb-214 | Suspended | -1.08 U | 1.5 | 0.87 | 0.75 |
| RD-34B | SMRD-34B-GW031811 | Pb-214 | Total | 1.2 | NA | 1.3 | NA |
| RD-34B | SMRD-34B-GW031811 | Sb-125 | Filtered | 3.1 U | 14 | 4.3 | 6.9 |
| RD-34B | SMRD-34B-GW031811 | Sb-125 | Suspended | -0.5 U | 5.5 | 1.6 | 2.7 |
| RD-34B | SMRD-34B-GW031811 | Sb-125 | Total | 2.6 | NA | 4.6 | NA |
| RD-34B | SMRD-34B-GW031811 | Sn-126 | Filtered | 0.99 | 1.4 | 0.44 | 0.65 |
| RD-34B | SMRD-34B-GW031811 | Sn-126 | Suspended | 0.22 U | 0.73 | 0.22 | 0.35 |
| RD-34B | SMRD-34B-GW031811 | Sn-126 | Total | 1.21 | NA | 0.49 | NA |
| RD-34B | SMRD-34B-GW031811 | Sr-90 | Filtered | -0.114 L U | 0.2 | 0.051 | 0.12 |
| RD-34B | SMRD-34B-GW031811 | Sr-90 | Suspended | -0.038 U | 0.16 | 0.042 | 0.093 |
| RD-34B | SMRD-34B-GW031811 | Sr-90 | Total | -0.152 L | NA | 0.066 | NA |
| RD-34B | SMRD-34B-GW031811 | Te-125m | Filtered | 0.71 U | 3.3 | 0.99 | 1.6 |
| RD-34B | SMRD-34B-GW031811 | Te-125m | Suspended | -0.11 U | 1.3 | 0.38 | 0.62 |
| RD-34B | SMRD-34B-GW031811 | Te-125m | Total | 0.6 | NA | 1.1 | NA |
| RD-34B | SMRD-34B-GW031811 | Th-231 | Filtered | 0.044 | 0.017 | 0.011 | 0.005 |
| RD-34B | SMRD-34B-GW031811 | Th-231 | Suspended | 0 U | 0.006 | 0.0018 | 0.0046 |
| RD-34B | SMRD-34B-GW031811 | Th-231 | Total | 0.044 | NA | 0.011 | NA |
| RD-34B | SMRD-34B-GW031811 | Th-234 | Filtered | -2.4 U | 25 | 9.1 | 12 |
| RD-34B | SMRD-34B-GW031811 | Th-234 | Suspended | 4.2 | 8.2 | 2.6 | 4 |
| RD-34B | SMRD-34B-GW031811 | Th-234 | Total | 1.8 | NA | 9.5 | NA |
| RD-34B | SMRD-34B-GW031811 | Tl-208 | Filtered | -0.35 U | 2 | 0.66 | 0.95 |
| RD-34B | SMRD-34B-GW031811 | Tl-208 | Suspended | -0.31 U | 0.87 | 0.43 | 0.42 |
| RD-34B | SMRD-34B-GW031811 | Tl-208 | Total | -0.66 | NA | 0.79 | NA |
| RD-34B | SMRD-34B-GW031811 | Tm-171 | Filtered | 80 U | 400 | 120 | 200 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|--------|--------|----------------|
| RD-34B | SMRD-34B-GW031811 | Tm-171 | Suspended | 23 U | 110 | 32 | 53 |
| RD-34B | SMRD-34B-GW031811 | Tm-171 | Total | 110 | NA | 120 | NA |
| RD-34B | SMRD-34B-GW031811 | U-233/234 | Filtered | 1.23 | 0.014 | 0.072 | 0.004 |
| RD-34B | SMRD-34B-GW031811 | U-233/234 | Suspended | 0.0156 | 0.012 | 0.007 | 0.0037 |
| RD-34B | SMRD-34B-GW031811 | U-233/234 | Total | 1.24 | NA | 0.073 | NA |
| RD-34B | SMRD-34B-GW031811 | U-235/236 | Filtered | 0.044 | 0.017 | 0.011 | 0.005 |
| RD-34B | SMRD-34B-GW031811 | U-235/236 | Suspended | 0 U | 0.006 | 0.0018 | 0.0046 |
| RD-34B | SMRD-34B-GW031811 | U-235/236 | Total | 0.044 | NA | 0.011 | NA |
| RD-34B | SMRD-34B-GW031811 | U-238 | Filtered | 0.987 | 0.014 | 0.061 | 0.004 |
| RD-34B | SMRD-34B-GW031811 | U-238 | Suspended | 0.0071 | 0.0048 | 0.005 | 0.0037 |
| RD-34B | SMRD-34B-GW031811 | U-238 | Total | 0.994 | NA | 0.062 | NA |
| RD-34C | SMRD-34C-GW032211 | Ac-227 | Filtered | -5 U | 9.3 | 2.8 | 4.5 |
| RD-34C | SMRD-34C-GW032211 | Ac-227 | Suspended | 0.09 U | 3.8 | 1.1 | 1.8 |
| RD-34C | SMRD-34C-GW032211 | Ac-227 | Total | -4.9 | NA | 3 | NA |
| RD-34C | SMRD-34C-GW032211 | Ac-228 | Filtered | 7.3 | 3.3 | 1.4 | 1.5 |
| RD-34C | SMRD-34C-GW032211 | Ac-228 | Suspended | -1.1 U | 2.6 | 1.6 | 1.2 |
| RD-34C | SMRD-34C-GW032211 | Ac-228 | Total | 6.1 | NA | 2.1 | NA |
| RD-34C | SMRD-34C-GW032211 | Ag-108 | Filtered | 0.008 U R | 0.09 | 0.026 | 0.043 |
| RD-34C | SMRD-34C-GW032211 | Ag-108 | Suspended | -0.0002 U R | 0.054 | 0.016 | 0.026 |
| RD-34C | SMRD-34C-GW032211 | Ag-108 | Total | 0.008 R | NA | 0.031 | NA |
| RD-34C | SMRD-34C-GW032211 | Ag-108m | Filtered | 0.09 U R | 0.97 | 0.28 | 0.47 |
| RD-34C | SMRD-34C-GW032211 | Ag-108m | Suspended | -0.002 U R | 0.59 | 0.17 | 0.28 |
| RD-34C | SMRD-34C-GW032211 | Ag-108m | Total | 0.09 R | NA | 0.33 | NA |
| RD-34C | SMRD-34C-GW032211 | Ba-133 | Filtered | -0.6 U R | 11 | 3.3 | 5.5 |
| RD-34C | SMRD-34C-GW032211 | Ba-133 | Suspended | -0.6 U R | 6 | 1.8 | 2.9 |
| RD-34C | SMRD-34C-GW032211 | Ba-133 | Total | -1.3 R | NA | 3.8 | NA |
| RD-34C | SMRD-34C-GW032211 | Ba-137m | Filtered | -0.03 U | 1.1 | 0.32 | 0.53 |
| RD-34C | SMRD-34C-GW032211 | Ba-137m | Suspended | -0.1 U | 0.67 | 0.2 | 0.32 |
| RD-34C | SMRD-34C-GW032211 | Ba-137m | Total | -0.13 | NA | 0.38 | NA |
| RD-34C | SMRD-34C-GW032211 | Bi-212 | Filtered | -1.8 U | 10 | 4.2 | 4.8 |
| RD-34C | SMRD-34C-GW032211 | Bi-212 | Suspended | 6.4 | 3.8 | 1.7 | 1.8 |
| RD-34C | SMRD-34C-GW032211 | Bi-212 | Total | 4.7 | NA | 4.6 | NA |
| RD-34C | SMRD-34C-GW032211 | Bi-214 | Filtered | 0.98 U | 2.7 | 0.82 | 1.3 |
| RD-34C | SMRD-34C-GW032211 | Bi-214 | Suspended | 0.14 U | 1.7 | 0.64 | 0.84 |
| RD-34C | SMRD-34C-GW032211 | Bi-214 | Total | 1.1 | NA | 1 | NA |
| RD-34C | SMRD-34C-GW032211 | Cd-113m | Filtered | -2400 U | 14000 | 4200 | 6800 |
| RD-34C | SMRD-34C-GW032211 | Cd-113m | Suspended | 600 U | 7100 | 2100 | 3400 |
| RD-34C | SMRD-34C-GW032211 | Cd-113m | Total | -1800 | NA | 4700 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-34C | SMRD-34C-GW032211 | Cf-249 | Filtered | 1.4 U R | 5.3 | 1.6 | 2.5 |
| RD-34C | SMRD-34C-GW032211 | Cf-249 | Suspended | -0.18 U R | 3 | 0.88 | 1.4 |
| RD-34C | SMRD-34C-GW032211 | Cf-249 | Total | 1.3 R | NA | 1.8 | NA |
| RD-34C | SMRD-34C-GW032211 | Co-60 | Filtered | -0.12 U | 1.2 | 0.34 | 0.55 |
| RD-34C | SMRD-34C-GW032211 | Co-60 | Suspended | 0.16 U | 0.73 | 0.21 | 0.34 |
| RD-34C | SMRD-34C-GW032211 | Co-60 | Total | 0.03 | NA | 0.4 | NA |
| RD-34C | SMRD-34C-GW032211 | Cs-134 | Filtered | -0.28 U | 1.2 | 0.36 | 0.58 |
| RD-34C | SMRD-34C-GW032211 | Cs-134 | Suspended | -0.02 U | 0.62 | 0.18 | 0.3 |
| RD-34C | SMRD-34C-GW032211 | Cs-134 | Total | -0.3 | NA | 0.4 | NA |
| RD-34C | SMRD-34C-GW032211 | Cs-137 | Filtered | -0.03 U | 1.2 | 0.34 | 0.56 |
| RD-34C | SMRD-34C-GW032211 | Cs-137 | Suspended | -0.11 U | 0.71 | 0.21 | 0.34 |
| RD-34C | SMRD-34C-GW032211 | Cs-137 | Total | -0.14 | NA | 0.4 | NA |
| RD-34C | SMRD-34C-GW032211 | Eu-152 | Filtered | 0.5 U | 3.2 | 0.96 | 1.6 |
| RD-34C | SMRD-34C-GW032211 | Eu-152 | Suspended | 0.12 U | 1.7 | 0.51 | 0.83 |
| RD-34C | SMRD-34C-GW032211 | Eu-152 | Total | 0.6 | NA | 1.1 | NA |
| RD-34C | SMRD-34C-GW032211 | Eu-154 | Filtered | 2.4 U | 8.3 | 2.4 | 3.9 |
| RD-34C | SMRD-34C-GW032211 | Eu-154 | Suspended | -1.6 U | 6 | 1.8 | 2.8 |
| RD-34C | SMRD-34C-GW032211 | Eu-154 | Total | 0.8 | NA | 3 | NA |
| RD-34C | SMRD-34C-GW032211 | Eu-155 | Filtered | 0.32 U | 2.8 | 0.83 | 1.4 |
| RD-34C | SMRD-34C-GW032211 | Eu-155 | Suspended | 0.23 U | 1.3 | 0.38 | 0.61 |
| RD-34C | SMRD-34C-GW032211 | Eu-155 | Total | 0.55 | NA | 0.92 | NA |
| RD-34C | SMRD-34C-GW032211 | gross_alpha | Filtered | 1.66 | 0.35 | 0.27 | 0.16 |
| RD-34C | SMRD-34C-GW032211 | gross_alpha | Suspended | 0.24 | 0.38 | 0.12 | 0.19 |
| RD-34C | SMRD-34C-GW032211 | gross_alpha | Total | 1.9 | NA | 0.3 | NA |
| RD-34C | SMRD-34C-GW032211 | gross_beta | Filtered | 3.88 | 1.9 | 0.73 | 1.1 |
| RD-34C | SMRD-34C-GW032211 | gross_beta | Suspended | 0.18 U | 0.88 | 0.26 | 0.53 |
| RD-34C | SMRD-34C-GW032211 | gross_beta | Total | 4.06 | NA | 0.77 | NA |
| RD-34C | SMRD-34C-GW032211 | H-3 | Total | 132 | 150 | 48 | 74 |
| RD-34C | SMRD-34C-GW032211 | Ho-166m | Filtered | -0.02 U | 2 | 0.58 | 0.96 |
| RD-34C | SMRD-34C-GW032211 | Ho-166m | Suspended | 0.09 U | 1 | 0.29 | 0.48 |
| RD-34C | SMRD-34C-GW032211 | Ho-166m | Total | 0.07 | NA | 0.65 | NA |
| RD-34C | SMRD-34C-GW032211 | K-40 | Filtered | 12.7 | 17 | 5 | 8.2 |
| RD-34C | SMRD-34C-GW032211 | K-40 | Suspended | 3.3 U | 12 | 3.3 | 5.7 |
| RD-34C | SMRD-34C-GW032211 | K-40 | Total | 16 | NA | 6 | NA |
| RD-34C | SMRD-34C-GW032211 | Na-22 | Filtered | -0.32 U | 1.3 | 0.39 | 0.63 |
| RD-34C | SMRD-34C-GW032211 | Na-22 | Suspended | 0.1 U | 0.72 | 0.21 | 0.33 |
| RD-34C | SMRD-34C-GW032211 | Na-22 | Total | -0.21 | NA | 0.45 | NA |
| RD-34C | SMRD-34C-GW032211 | Nb-94 | Filtered | 0.03 U | 1.1 | 0.32 | 0.52 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-34C | SMRD-34C-GW032211 | Nb-94 | Suspended | 0.16 U | 0.68 | 0.2 | 0.32 |
| RD-34C | SMRD-34C-GW032211 | Nb-94 | Total | 0.19 | NA | 0.38 | NA |
| RD-34C | SMRD-34C-GW032211 | Np-236 | Filtered | -0.79 U | 2.6 | 0.79 | 1.3 |
| RD-34C | SMRD-34C-GW032211 | Np-236 | Suspended | 0 U | 1.3 | 0.39 | 0.63 |
| RD-34C | SMRD-34C-GW032211 | Np-236 | Total | -0.79 | NA | 0.88 | NA |
| RD-34C | SMRD-34C-GW032211 | Np-239 | Filtered | -1.4 U | 7.3 | 2.2 | 3.6 |
| RD-34C | SMRD-34C-GW032211 | Np-239 | Suspended | -0.04 U | 3.6 | 1.1 | 1.7 |
| RD-34C | SMRD-34C-GW032211 | Np-239 | Total | -1.4 | NA | 2.4 | NA |
| RD-34C | SMRD-34C-GW032211 | Pa-231 | Filtered | 3 U | 53 | 16 | 25 |
| RD-34C | SMRD-34C-GW032211 | Pa-231 | Suspended | 0.8 U | 26 | 7.7 | 13 |
| RD-34C | SMRD-34C-GW032211 | Pa-231 | Total | 4 | NA | 17 | NA |
| RD-34C | SMRD-34C-GW032211 | Pb-212 | Filtered | 0.6 U | 2.5 | 0.91 | 1.2 |
| RD-34C | SMRD-34C-GW032211 | Pb-212 | Suspended | -0.13 U | 1.3 | 0.38 | 0.62 |
| RD-34C | SMRD-34C-GW032211 | Pb-212 | Total | 0.47 | NA | 0.99 | NA |
| RD-34C | SMRD-34C-GW032211 | Pb-214 | Filtered | 0.05 U | 2.8 | 0.76 | 1.4 |
| RD-34C | SMRD-34C-GW032211 | Pb-214 | Suspended | -0.75 U | 1.5 | 0.64 | 0.72 |
| RD-34C | SMRD-34C-GW032211 | Pb-214 | Total | -0.7 | NA | 0.99 | NA |
| RD-34C | SMRD-34C-GW032211 | Sb-125 | Filtered | -3.3 U | 12 | 3.5 | 5.7 |
| RD-34C | SMRD-34C-GW032211 | Sb-125 | Suspended | 0.07 U | 5.6 | 1.7 | 2.7 |
| RD-34C | SMRD-34C-GW032211 | Sb-125 | Total | -3.2 | NA | 3.9 | NA |
| RD-34C | SMRD-34C-GW032211 | Sn-126 | Filtered | 0.39 U | 1.2 | 0.37 | 0.59 |
| RD-34C | SMRD-34C-GW032211 | Sn-126 | Suspended | 0.23 U | 0.77 | 0.23 | 0.37 |
| RD-34C | SMRD-34C-GW032211 | Sn-126 | Total | 0.62 | NA | 0.44 | NA |
| RD-34C | SMRD-34C-GW032211 | Sr-90 | Filtered | 0.026 U | 0.054 | 0.016 | 0.031 |
| RD-34C | SMRD-34C-GW032211 | Sr-90 | Suspended | 0.01 U | 0.12 | 0.035 | 0.068 |
| RD-34C | SMRD-34C-GW032211 | Sr-90 | Total | 0.01 | NA | 0.035 | NA |
| RD-34C | SMRD-34C-GW032211 | Te-125m | Filtered | -0.76 U | 2.7 | 0.81 | 1.3 |
| RD-34C | SMRD-34C-GW032211 | Te-125m | Suspended | 0.02 U | 1.3 | 0.38 | 0.63 |
| RD-34C | SMRD-34C-GW032211 | Te-125m | Total | -0.74 | NA | 0.9 | NA |
| RD-34C | SMRD-34C-GW032211 | Th-231 | Filtered | 0.0053 U | 0.0071 | 0.0037 | 0.0055 |
| RD-34C | SMRD-34C-GW032211 | Th-231 | Suspended | 0 U | 0.013 | 0.004 | 0.01 |
| RD-34C | SMRD-34C-GW032211 | Th-231 | Total | 0.0053 | NA | 0.0055 | NA |
| RD-34C | SMRD-34C-GW032211 | Th-234 | Filtered | -2.6 U | 22 | 8.8 | 11 |
| RD-34C | SMRD-34C-GW032211 | Th-234 | Suspended | 2.7 U | 8.2 | 2.5 | 4 |
| RD-34C | SMRD-34C-GW032211 | Th-234 | Total | 0.1 | NA | 9.1 | NA |
| RD-34C | SMRD-34C-GW032211 | Tl-208 | Filtered | 0.52 U | 1.3 | 0.44 | 0.61 |
| RD-34C | SMRD-34C-GW032211 | Tl-208 | Suspended | -0.04 U | 0.72 | 0.24 | 0.35 |
| RD-34C | SMRD-34C-GW032211 | Tl-208 | Total | 0.48 | NA | 0.5 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-34C | SMRD-34C-GW032211 | Tm-171 | Filtered | 2 U | 340 | 100 | 170 |
| RD-34C | SMRD-34C-GW032211 | Tm-171 | Suspended | 17 U | 100 | 30 | 49 |
| RD-34C | SMRD-34C-GW032211 | Tm-171 | Total | 20 | NA | 100 | NA |
| RD-34C | SMRD-34C-GW032211 | U-233/234 | Filtered | 0.253 | 0.018 | 0.026 | 0.006 |
| RD-34C | SMRD-34C-GW032211 | U-233/234 | Suspended | -0.0099 U | 0.033 | 0.0092 | 0.012 |
| RD-34C | SMRD-34C-GW032211 | U-233/234 | Total | 0.243 | NA | 0.028 | NA |
| RD-34C | SMRD-34C-GW032211 | U-235/236 | Filtered | 0.0053 U | 0.0071 | 0.0037 | 0.0055 |
| RD-34C | SMRD-34C-GW032211 | U-235/236 | Suspended | 0 U | 0.013 | 0.004 | 0.01 |
| RD-34C | SMRD-34C-GW032211 | U-235/236 | Total | 0.0053 | NA | 0.0055 | NA |
| RD-34C | SMRD-34C-GW032211 | U-238 | Filtered | 0.092 | 0.006 | 0.015 | 0.004 |
| RD-34C | SMRD-34C-GW032211 | U-238 | Suspended | -0.0065 U | 0.011 | 0.0057 | 0.0083 |
| RD-34C | SMRD-34C-GW032211 | U-238 | Total | 0.085 | NA | 0.016 | NA |
| RD-50 | SMRD-50-GW033111 | Ac-227 | Filtered | -5.4 U | 9.8 | 3 | 4.8 |
| RD-50 | SMRD-50-GW033111 | Ac-227 | Suspended | -2.1 U | 4.6 | 1.4 | 2.2 |
| RD-50 | SMRD-50-GW033111 | Ac-227 | Total | -7.5 L | NA | 3.3 | NA |
| RD-50 | SMRD-50-GW033111 | Ac-228 | Filtered | 2.7 | 4 | 1.2 | 1.9 |
| RD-50 | SMRD-50-GW033111 | Ac-228 | Suspended | -0.09 U | 2.7 | 0.77 | 1.3 |
| RD-50 | SMRD-50-GW033111 | Ac-228 | Total | 2.6 | NA | 1.5 | NA |
| RD-50 | SMRD-50-GW033111 | Ag-108 | Filtered | -0.007 U R | 0.088 | 0.026 | 0.042 |
| RD-50 | SMRD-50-GW033111 | Ag-108 | Suspended | -0.017 U R | 0.056 | 0.017 | 0.027 |
| RD-50 | SMRD-50-GW033111 | Ag-108 | Total | -0.024 R | NA | 0.031 | NA |
| RD-50 | SMRD-50-GW033111 | Ag-108m | Filtered | -0.08 U R | 0.95 | 0.28 | 0.45 |
| RD-50 | SMRD-50-GW033111 | Ag-108m | Suspended | -0.18 U R | 0.6 | 0.18 | 0.29 |
| RD-50 | SMRD-50-GW033111 | Ag-108m | Total | -0.26 R | NA | 0.33 | NA |
| RD-50 | SMRD-50-GW033111 | Ba-133 | Filtered | 1.4 U R | 11 | 3.3 | 5.4 |
| RD-50 | SMRD-50-GW033111 | Ba-133 | Suspended | 0.3 U R | 6.4 | 1.9 | 3.1 |
| RD-50 | SMRD-50-GW033111 | Ba-133 | Total | 1.7 R | NA | 3.8 | NA |
| RD-50 | SMRD-50-GW033111 | Ba-137m | Filtered | 0.37 U | 0.9 | 0.27 | 0.42 |
| RD-50 | SMRD-50-GW033111 | Ba-137m | Suspended | 0.31 | 0.66 | 0.2 | 0.31 |
| RD-50 | SMRD-50-GW033111 | Ba-137m | Total | 0.68 | NA | 0.34 | NA |
| RD-50 | SMRD-50-GW033111 | Bi-212 | Filtered | -1.8 U | 8.7 | 2.6 | 4.1 |
| RD-50 | SMRD-50-GW033111 | Bi-212 | Suspended | 0 U | 6.5 | 1.9 | 3.1 |
| RD-50 | SMRD-50-GW033111 | Bi-212 | Total | -1.8 | NA | 3.2 | NA |
| RD-50 | SMRD-50-GW033111 | Bi-214 | Filtered | 2.85 | 2.6 | 0.73 | 1.3 |
| RD-50 | SMRD-50-GW033111 | Bi-214 | Suspended | 0.39 U | 1.5 | 0.51 | 0.74 |
| RD-50 | SMRD-50-GW033111 | Bi-214 | Total | 3.24 | NA | 0.89 | NA |
| RD-50 | SMRD-50-GW033111 | Cd-113m | Filtered | -2000 U | 14000 | 4100 | 6600 |
| RD-50 | SMRD-50-GW033111 | Cd-113m | Suspended | 0 U | 7200 | 2100 | 3500 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-50 | SMRD-50-GW033111 | Cd-113m | Total | -2000 | NA | 4600 | NA |
| RD-50 | SMRD-50-GW033111 | Cf-249 | Filtered | 2.3 U R | 5.2 | 1.6 | 2.5 |
| RD-50 | SMRD-50-GW033111 | Cf-249 | Suspended | -0.3 U R | 3.2 | 0.94 | 1.5 |
| RD-50 | SMRD-50-GW033111 | Cf-249 | Total | 2 R | NA | 1.8 | NA |
| RD-50 | SMRD-50-GW033111 | Co-60 | Filtered | 0.11 U | 1.2 | 0.36 | 0.58 |
| RD-50 | SMRD-50-GW033111 | Co-60 | Suspended | -0.05 U | 0.77 | 0.22 | 0.36 |
| RD-50 | SMRD-50-GW033111 | Co-60 | Total | 0.06 | NA | 0.42 | NA |
| RD-50 | SMRD-50-GW033111 | Cs-134 | Filtered | 0.14 U | 1.2 | 0.36 | 0.59 |
| RD-50 | SMRD-50-GW033111 | Cs-134 | Suspended | 0.08 U | 0.6 | 0.17 | 0.28 |
| RD-50 | SMRD-50-GW033111 | Cs-134 | Total | 0.22 | NA | 0.4 | NA |
| RD-50 | SMRD-50-GW033111 | Cs-137 | Filtered | 0.39 U | 0.95 | 0.29 | 0.45 |
| RD-50 | SMRD-50-GW033111 | Cs-137 | Suspended | 0.33 | 0.69 | 0.21 | 0.33 |
| RD-50 | SMRD-50-GW033111 | Cs-137 | Total | 0.72 | NA | 0.36 | NA |
| RD-50 | SMRD-50-GW033111 | Eu-152 | Filtered | 0.02 U | 2.9 | 0.85 | 1.4 |
| RD-50 | SMRD-50-GW033111 | Eu-152 | Suspended | -0.45 U | 1.9 | 0.56 | 0.9 |
| RD-50 | SMRD-50-GW033111 | Eu-152 | Total | -0.4 | NA | 1 | NA |
| RD-50 | SMRD-50-GW033111 | Eu-154 | Filtered | 1.4 U | 8.7 | 2.5 | 4.1 |
| RD-50 | SMRD-50-GW033111 | Eu-154 | Suspended | 0.8 U | 6.2 | 1.8 | 2.9 |
| RD-50 | SMRD-50-GW033111 | Eu-154 | Total | 2.2 | NA | 3.1 | NA |
| RD-50 | SMRD-50-GW033111 | Eu-155 | Filtered | 0.8 U | 3.2 | 0.95 | 1.5 |
| RD-50 | SMRD-50-GW033111 | Eu-155 | Suspended | 0.03 U | 1.2 | 0.36 | 0.58 |
| RD-50 | SMRD-50-GW033111 | Eu-155 | Total | 0.8 | NA | 1 | NA |
| RD-50 | SMRD-50-GW040111 | gross_alpha | Filtered | 21.4 | 0.7 | 1.2 | 0.4 |
| RD-50 | SMRD-50-GW040111 | gross_alpha | Suspended | -0.14 U | 0.95 | 0.23 | 0.52 |
| RD-50 | SMRD-50-GW040111 | gross_alpha | Total | 21.3 | NA | 1.2 | NA |
| RD-50 | SMRD-50-GW040111 | gross_beta | Filtered | 6.3 | 2.9 | 1.1 | 1.7 |
| RD-50 | SMRD-50-GW040111 | gross_beta | Suspended | 0.18 U | 0.8 | 0.24 | 0.47 |
| RD-50 | SMRD-50-GW040111 | gross_beta | Total | 6.5 | NA | 1.2 | NA |
| RD-50 | SMRD-50-GW040111 | H-3 | Total | 46 U | 130 | 40 | 64 |
| RD-50 | SMRD-50-GW033111 | Ho-166m | Filtered | 0.05 U | 1.7 | 0.49 | 0.81 |
| RD-50 | SMRD-50-GW033111 | Ho-166m | Suspended | 0.29 U | 1.1 | 0.31 | 0.5 |
| RD-50 | SMRD-50-GW033111 | Ho-166m | Total | 0.33 | NA | 0.58 | NA |
| RD-50 | SMRD-50-GW033111 | K-40 | Filtered | -3.9 U | 18 | 6.5 | 8.3 |
| RD-50 | SMRD-50-GW033111 | K-40 | Suspended | 2.9 U | 9.9 | 2.9 | 4.7 |
| RD-50 | SMRD-50-GW033111 | K-40 | Total | -1 | NA | 7.2 | NA |
| RD-50 | SMRD-50-GW033111 | Na-22 | Filtered | 0.27 U | 1.1 | 0.32 | 0.5 |
| RD-50 | SMRD-50-GW033111 | Na-22 | Suspended | 0.12 U | 0.75 | 0.22 | 0.35 |
| RD-50 | SMRD-50-GW033111 | Na-22 | Total | 0.39 | NA | 0.39 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-50 | SMRD-50-GW033111 | Nb-94 | Filtered | 0.05 U | 0.95 | 0.28 | 0.45 |
| RD-50 | SMRD-50-GW033111 | Nb-94 | Suspended | -0.001 U | 0.63 | 0.18 | 0.3 |
| RD-50 | SMRD-50-GW033111 | Nb-94 | Total | 0.05 | NA | 0.33 | NA |
| RD-50 | SMRD-50-GW033111 | Np-236 | Filtered | -0.61 U | 2.8 | 0.84 | 1.4 |
| RD-50 | SMRD-50-GW033111 | Np-236 | Suspended | -0.17 U | 1.2 | 0.36 | 0.58 |
| RD-50 | SMRD-50-GW033111 | Np-236 | Total | -0.78 | NA | 0.91 | NA |
| RD-50 | SMRD-50-GW033111 | Np-239 | Filtered | -1.3 U | 7.4 | 2.2 | 3.6 |
| RD-50 | SMRD-50-GW033111 | Np-239 | Suspended | -0.6 U | 3.9 | 1.2 | 1.9 |
| RD-50 | SMRD-50-GW033111 | Np-239 | Total | -2 | NA | 2.5 | NA |
| RD-50 | SMRD-50-GW033111 | Pa-231 | Filtered | -8 U | 54 | 16 | 26 |
| RD-50 | SMRD-50-GW033111 | Pa-231 | Suspended | 5.4 U | 28 | 8.5 | 14 |
| RD-50 | SMRD-50-GW033111 | Pa-231 | Total | -3 | NA | 18 | NA |
| RD-50 | SMRD-50-GW033111 | Pb-212 | Filtered | 0.36 U | 2.5 | 0.86 | 1.2 |
| RD-50 | SMRD-50-GW033111 | Pb-212 | Suspended | 0.61 | 1.1 | 0.35 | 0.51 |
| RD-50 | SMRD-50-GW033111 | Pb-212 | Total | 0.98 | NA | 0.93 | NA |
| RD-50 | SMRD-50-GW033111 | Pb-214 | Filtered | 0.01 U | 2.8 | 0.76 | 1.4 |
| RD-50 | SMRD-50-GW033111 | Pb-214 | Suspended | -0.44 U | 1.6 | 0.63 | 0.8 |
| RD-50 | SMRD-50-GW033111 | Pb-214 | Total | -0.42 | NA | 0.99 | NA |
| RD-50 | SMRD-50-GW033111 | Sb-125 | Filtered | -2 U | 13 | 3.9 | 6.4 |
| RD-50 | SMRD-50-GW033111 | Sb-125 | Suspended | -1.1 U | 5.6 | 1.7 | 2.7 |
| RD-50 | SMRD-50-GW033111 | Sb-125 | Total | -3.1 | NA | 4.3 | NA |
| RD-50 | SMRD-50-GW033111 | Sn-126 | Filtered | -0.16 U | 1.3 | 0.39 | 0.63 |
| RD-50 | SMRD-50-GW033111 | Sn-126 | Suspended | -0.004 U | 0.76 | 0.22 | 0.36 |
| RD-50 | SMRD-50-GW033111 | Sn-126 | Total | -0.16 | NA | 0.45 | NA |
| RD-50 | SMRD-50-GW033111 | Sr-90 | Filtered | 0.064 U | 0.13 | 0.039 | 0.072 |
| RD-50 | SMRD-50-GW033111 | Sr-90 | Suspended | 0.019 U | 0.054 | 0.016 | 0.03 |
| RD-50 | SMRD-50-GW033111 | Sr-90 | Total | 0.083 | NA | 0.042 | NA |
| RD-50 | SMRD-50-GW033111 | Te-125m | Filtered | -0.46 U | 3 | 0.9 | 1.5 |
| RD-50 | SMRD-50-GW033111 | Te-125m | Suspended | -0.26 U | 1.3 | 0.39 | 0.63 |
| RD-50 | SMRD-50-GW033111 | Te-125m | Total | -0.72 | NA | 0.98 | NA |
| RD-50 | SMRD-50-GW033111 | Th-231 | Filtered | 0.489 | 0.007 | 0.041 | 0.005 |
| RD-50 | SMRD-50-GW033111 | Th-231 | Suspended | 0.0051 U | 0.0069 | 0.0036 | 0.0053 |
| RD-50 | SMRD-50-GW033111 | Th-231 | Total | 0.495 | NA | 0.041 | NA |
| RD-50 | SMRD-50-GW033111 | Th-234 | Filtered | 0.4 U | 25 | 8.8 | 12 |
| RD-50 | SMRD-50-GW033111 | Th-234 | Suspended | -1.4 U | 7.7 | 3 | 3.8 |
| RD-50 | SMRD-50-GW033111 | Th-234 | Total | -1 | NA | 9.3 | NA |
| RD-50 | SMRD-50-GW033111 | Tl-208 | Filtered | 0.74 | 1.5 | 0.6 | 0.71 |
| RD-50 | SMRD-50-GW033111 | Tl-208 | Suspended | 0.64 | 0.71 | 0.29 | 0.34 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-50 | SMRD-50-GW033111 | Tl-208 | Total | 1.38 | NA | 0.66 | NA |
| RD-50 | SMRD-50-GW033111 | Tm-171 | Filtered | 110 U | 370 | 110 | 180 |
| RD-50 | SMRD-50-GW033111 | Tm-171 | Suspended | 6 U | 120 | 36 | 59 |
| RD-50 | SMRD-50-GW033111 | Tm-171 | Total | 120 | NA | 120 | NA |
| RD-50 | SMRD-50-GW033111 | U-233/234 | Filtered | 12.1 | 0.02 | 0.53 | 0.006 |
| RD-50 | SMRD-50-GW033111 | U-233/234 | Suspended | -0.0021 U | 0.014 | 0.0048 | 0.0042 |
| RD-50 | SMRD-50-GW033111 | U-233/234 | Total | 12.1 | NA | 0.53 | NA |
| RD-50 | SMRD-50-GW033111 | U-235/236 | Filtered | 0.489 | 0.007 | 0.041 | 0.005 |
| RD-50 | SMRD-50-GW033111 | U-235/236 | Suspended | 0.0051 U | 0.0069 | 0.0036 | 0.0053 |
| RD-50 | SMRD-50-GW033111 | U-235/236 | Total | 0.494 | NA | 0.041 | NA |
| RD-50 | SMRD-50-GW033111 | U-238 | Filtered | 9.32 | 0.006 | 0.42 | 0.004 |
| RD-50 | SMRD-50-GW033111 | U-238 | Suspended | 0.0084 K | 0.0055 | 0.0058 | 0.0042 |
| RD-50 | SMRD-50-GW033111 | U-238 | Total | 9.33 | NA | 0.42 | NA |
| RD-54A | SMRD-54A-GW040111 | Ac-227 | Filtered | -3 U | 8.7 | 2.6 | 4.2 |
| RD-54A | SMRD-54A-GW040111 | Ac-227 | Suspended | -0.8 U | 4.1 | 1.2 | 2 |
| RD-54A | SMRD-54A-GW040111 | Ac-227 | Total | -3.8 | NA | 2.9 | NA |
| RD-54A | SMRD-54A-GW040111 | Ac-228 | Filtered | -0.2 U | 4.1 | 1.2 | 1.9 |
| RD-54A | SMRD-54A-GW040111 | Ac-228 | Suspended | -0.41 U | 3 | 0.98 | 1.4 |
| RD-54A | SMRD-54A-GW040111 | Ac-228 | Total | -0.6 | NA | 1.5 | NA |
| RD-54A | SMRD-54A-GW040111 | Ag-108 | Filtered | -0.02 U R | 0.089 | 0.026 | 0.042 |
| RD-54A | SMRD-54A-GW040111 | Ag-108 | Suspended | -0.004 U R | 0.044 | 0.013 | 0.021 |
| RD-54A | SMRD-54A-GW040111 | Ag-108 | Total | -0.023 R | NA | 0.029 | NA |
| RD-54A | SMRD-54A-GW040111 | Ag-108m | Filtered | -0.21 U R | 0.96 | 0.28 | 0.45 |
| RD-54A | SMRD-54A-GW040111 | Ag-108m | Suspended | -0.04 U R | 0.47 | 0.14 | 0.22 |
| RD-54A | SMRD-54A-GW040111 | Ag-108m | Total | -0.25 R | NA | 0.31 | NA |
| RD-54A | SMRD-54A-GW040111 | Ba-133 | Filtered | -2.2 U R | 13 | 3.7 | 6.1 |
| RD-54A | SMRD-54A-GW040111 | Ba-133 | Suspended | -1.7 U R | 5.4 | 1.6 | 2.6 |
| RD-54A | SMRD-54A-GW040111 | Ba-133 | Total | -3.8 R | NA | 4.1 | NA |
| RD-54A | SMRD-54A-GW040111 | Ba-137m | Filtered | 0.18 U | 1.2 | 0.36 | 0.57 |
| RD-54A | SMRD-54A-GW040111 | Ba-137m | Suspended | 0.22 U | 0.7 | 0.21 | 0.33 |
| RD-54A | SMRD-54A-GW040111 | Ba-137m | Total | 0.4 | NA | 0.41 | NA |
| RD-54A | SMRD-54A-GW040111 | Bi-212 | Filtered | 2.1 U | 7 | 2.1 | 3.2 |
| RD-54A | SMRD-54A-GW040111 | Bi-212 | Suspended | 2 U | 5.3 | 1.6 | 2.5 |
| RD-54A | SMRD-54A-GW040111 | Bi-212 | Total | 4 | NA | 2.6 | NA |
| RD-54A | SMRD-54A-GW040111 | Bi-214 | Filtered | 1.47 | 2.4 | 0.79 | 1.1 |
| RD-54A | SMRD-54A-GW040111 | Bi-214 | Suspended | 1.45 | 1.8 | 0.76 | 0.86 |
| RD-54A | SMRD-54A-GW040111 | Bi-214 | Total | 2.9 | NA | 1.1 | NA |
| RD-54A | SMRD-54A-GW040111 | Cd-113m | Filtered | 1400 U | 14000 | 4300 | 7000 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RD-54A | SMRD-54A-GW040111 | Cd-113m | Suspended | 1700 U | 6700 | 2000 | 3200 |
| RD-54A | SMRD-54A-GW040111 | Cd-113m | Total | 3100 | NA | 4700 | NA |
| RD-54A | SMRD-54A-GW040111 | Cf-249 | Filtered | -0.8 U R | 5.7 | 1.7 | 2.7 |
| RD-54A | SMRD-54A-GW040111 | Cf-249 | Suspended | -0.49 U R | 3.3 | 0.98 | 1.6 |
| RD-54A | SMRD-54A-GW040111 | Cf-249 | Total | -1.3 R | NA | 1.9 | NA |
| RD-54A | SMRD-54A-GW040111 | Co-60 | Filtered | 0.16 U | 1.3 | 0.36 | 0.58 |
| RD-54A | SMRD-54A-GW040111 | Co-60 | Suspended | -0.14 U | 0.79 | 0.23 | 0.37 |
| RD-54A | SMRD-54A-GW040111 | Co-60 | Total | 0.01 | NA | 0.43 | NA |
| RD-54A | SMRD-54A-GW040111 | Cs-134 | Filtered | -0.53 U | 1.3 | 0.4 | 0.63 |
| RD-54A | SMRD-54A-GW040111 | Cs-134 | Suspended | -0.09 U | 0.82 | 0.24 | 0.4 |
| RD-54A | SMRD-54A-GW040111 | Cs-134 | Total | -0.62 | NA | 0.47 | NA |
| RD-54A | SMRD-54A-GW040111 | Cs-137 | Filtered | 0.19 U | 1.3 | 0.38 | 0.61 |
| RD-54A | SMRD-54A-GW040111 | Cs-137 | Suspended | 0.23 U | 0.74 | 0.22 | 0.35 |
| RD-54A | SMRD-54A-GW040111 | Cs-137 | Total | 0.42 | NA | 0.44 | NA |
| RD-54A | SMRD-54A-GW040111 | Eu-152 | Filtered | -0.4 U | 3.4 | 1 | 1.6 |
| RD-54A | SMRD-54A-GW040111 | Eu-152 | Suspended | -0.1 U | 1.7 | 0.51 | 0.83 |
| RD-54A | SMRD-54A-GW040111 | Eu-152 | Total | -0.5 | NA | 1.1 | NA |
| RD-54A | SMRD-54A-GW040111 | Eu-154 | Filtered | -0.06 U | 9.5 | 2.7 | 4.4 |
| RD-54A | SMRD-54A-GW040111 | Eu-154 | Suspended | -1.1 U | 6.1 | 1.8 | 2.9 |
| RD-54A | SMRD-54A-GW040111 | Eu-154 | Total | -1.1 | NA | 3.2 | NA |
| RD-54A | SMRD-54A-GW040111 | Eu-155 | Filtered | 0.05 U | 3.2 | 0.94 | 1.5 |
| RD-54A | SMRD-54A-GW040111 | Eu-155 | Suspended | 0.46 U | 1.3 | 0.39 | 0.63 |
| RD-54A | SMRD-54A-GW040111 | Eu-155 | Total | 0.5 | NA | 1 | NA |
| RD-54A | SMRD-54A-GW040111 | gross_alpha | Filtered | 7.73 | 0.54 | 0.61 | 0.29 |
| RD-54A | SMRD-54A-GW040111 | gross_alpha | Suspended | -0.02 U | 0.64 | 0.16 | 0.35 |
| RD-54A | SMRD-54A-GW040111 | gross_alpha | Total | 7.71 | NA | 0.63 | NA |
| RD-54A | SMRD-54A-GW040111 | gross_beta | Filtered | 4.16 | 2.4 | 0.89 | 1.4 |
| RD-54A | SMRD-54A-GW040111 | gross_beta | Suspended | -0.58 L U | 0.94 | 0.25 | 0.57 |
| RD-54A | SMRD-54A-GW040111 | gross_beta | Total | 3.58 | NA | 0.92 | NA |
| RD-54A | SMRD-54A-GW040111 | H-3 | Total | 23 U | 120 | 35 | 57 |
| RD-54A | SMRD-54A-GW040111 | Ho-166m | Filtered | -0.19 U | 1.8 | 0.52 | 0.85 |
| RD-54A | SMRD-54A-GW040111 | Ho-166m | Suspended | 0.05 U | 1 | 0.3 | 0.49 |
| RD-54A | SMRD-54A-GW040111 | Ho-166m | Total | -0.14 | NA | 0.6 | NA |
| RD-54A | SMRD-54A-GW040111 | K-40 | Filtered | 2.4 U | 17 | 4.2 | 8.1 |
| RD-54A | SMRD-54A-GW040111 | K-40 | Suspended | 3.5 U | 12 | 3.9 | 5.9 |
| RD-54A | SMRD-54A-GW040111 | K-40 | Total | 5.8 | NA | 5.7 | NA |
| RD-54A | SMRD-54A-GW040111 | Na-22 | Filtered | -0.04 U | 1.2 | 0.32 | 0.53 |
| RD-54A | SMRD-54A-GW040111 | Na-22 | Suspended | -0.12 U | 0.76 | 0.22 | 0.35 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-54A | SMRD-54A-GW040111 | Na-22 | Total | -0.16 | NA | 0.39 | NA |
| RD-54A | SMRD-54A-GW040111 | Nb-94 | Filtered | -0.26 U | 1.3 | 0.39 | 0.64 |
| RD-54A | SMRD-54A-GW040111 | Nb-94 | Suspended | 0.18 U | 0.67 | 0.2 | 0.32 |
| RD-54A | SMRD-54A-GW040111 | Nb-94 | Total | -0.09 | NA | 0.44 | NA |
| RD-54A | SMRD-54A-GW040111 | Np-236 | Filtered | -0.2 U | 2.5 | 0.75 | 1.2 |
| RD-54A | SMRD-54A-GW040111 | Np-236 | Suspended | 0.27 U | 1.1 | 0.32 | 0.52 |
| RD-54A | SMRD-54A-GW040111 | Np-236 | Total | 0.07 | NA | 0.81 | NA |
| RD-54A | SMRD-54A-GW040111 | Np-239 | Filtered | -0.006 U | 7.5 | 2.2 | 3.6 |
| RD-54A | SMRD-54A-GW040111 | Np-239 | Suspended | 0.83 U | 3 | 0.89 | 1.4 |
| RD-54A | SMRD-54A-GW040111 | Np-239 | Total | 0.8 | NA | 2.4 | NA |
| RD-54A | SMRD-54A-GW040111 | Pa-231 | Filtered | 10 U | 49 | 15 | 24 |
| RD-54A | SMRD-54A-GW040111 | Pa-231 | Suspended | -1.4 U | 26 | 7.8 | 13 |
| RD-54A | SMRD-54A-GW040111 | Pa-231 | Total | 9 | NA | 16 | NA |
| RD-54A | SMRD-54A-GW040111 | Pb-212 | Filtered | 1.74 | 2.4 | 0.86 | 1.2 |
| RD-54A | SMRD-54A-GW040111 | Pb-212 | Suspended | 0.23 U | 0.97 | 0.28 | 0.47 |
| RD-54A | SMRD-54A-GW040111 | Pb-212 | Total | 1.97 | NA | 0.9 | NA |
| RD-54A | SMRD-54A-GW040111 | Pb-214 | Filtered | 1.9 | 2.7 | 1.1 | 1.3 |
| RD-54A | SMRD-54A-GW040111 | Pb-214 | Suspended | 0.91 | 1.2 | 0.44 | 0.6 |
| RD-54A | SMRD-54A-GW040111 | Pb-214 | Total | 2.8 | NA | 1.2 | NA |
| RD-54A | SMRD-54A-GW040111 | Sb-125 | Filtered | -3.2 U | 13 | 3.9 | 6.3 |
| RD-54A | SMRD-54A-GW040111 | Sb-125 | Suspended | 0.4 U | 5.4 | 1.6 | 2.6 |
| RD-54A | SMRD-54A-GW040111 | Sb-125 | Total | -2.8 | NA | 4.2 | NA |
| RD-54A | SMRD-54A-GW040111 | Sn-126 | Filtered | 0.49 U | 1.2 | 0.35 | 0.54 |
| RD-54A | SMRD-54A-GW040111 | Sn-126 | Suspended | 0.32 U | 0.8 | 0.24 | 0.38 |
| RD-54A | SMRD-54A-GW040111 | Sn-126 | Total | 0.81 | NA | 0.43 | NA |
| RD-54A | SMRD-54A-GW040111 | Sr-90 | Filtered | 0.017 | 0.13 | 0.037 | 0.071 |
| RD-54A | SMRD-54A-GW040111 | Sr-90 | Suspended | 0.022 U | 0.056 | 0.017 | 0.032 |
| RD-54A | SMRD-54A-GW040111 | Sr-90 | Total | 0.04 | NA | 0.04 | NA |
| RD-54A | SMRD-54A-GW040111 | Te-125m | Filtered | -0.74 U | 3 | 0.9 | 1.5 |
| RD-54A | SMRD-54A-GW040111 | Te-125m | Suspended | 0.09 U | 1.3 | 0.37 | 0.61 |
| RD-54A | SMRD-54A-GW040111 | Te-125m | Total | -0.66 | NA | 0.97 | NA |
| RD-54A | SMRD-54A-GW040111 | Th-231 | Filtered | 0.129 | 0.016 | 0.018 | 0.005 |
| RD-54A | SMRD-54A-GW040111 | Th-231 | Suspended | 0.0024 U | 0.0064 | 0.0024 | 0.0049 |
| RD-54A | SMRD-54A-GW040111 | Th-231 | Total | 0.132 | NA | 0.019 | NA |
| RD-54A | SMRD-54A-GW040111 | Th-234 | Filtered | 11.6 | 21 | 7.5 | 10 |
| RD-54A | SMRD-54A-GW040111 | Th-234 | Suspended | -4.1 U | 8.4 | 3.2 | 4.1 |
| RD-54A | SMRD-54A-GW040111 | Th-234 | Total | 7.5 | NA | 8.2 | NA |
| RD-54A | SMRD-54A-GW040111 | Tl-208 | Filtered | 1.61 | 1.3 | 0.47 | 0.61 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-54A | SMRD-54A-GW040111 | Tl-208 | Suspended | -0.14 U | 0.91 | 0.32 | 0.44 |
| RD-54A | SMRD-54A-GW040111 | Tl-208 | Total | 1.48 | NA | 0.57 | NA |
| RD-54A | SMRD-54A-GW040111 | Tm-171 | Filtered | 130 U | 350 | 110 | 170 |
| RD-54A | SMRD-54A-GW040111 | Tm-171 | Suspended | 0 U | 120 | 36 | 60 |
| RD-54A | SMRD-54A-GW040111 | Tm-171 | Total | 130 | NA | 110 | NA |
| RD-54A | SMRD-54A-GW040111 | U-233/234 | Filtered | 3.27 | 0.005 | 0.16 | 0.004 |
| RD-54A | SMRD-54A-GW040111 | U-233/234 | Suspended | 0.057 | 0.016 | 0.012 | 0.006 |
| RD-54A | SMRD-54A-GW040111 | U-233/234 | Total | 3.33 | NA | 0.16 | NA |
| RD-54A | SMRD-54A-GW040111 | U-235/236 | Filtered | 0.129 | 0.016 | 0.018 | 0.005 |
| RD-54A | SMRD-54A-GW040111 | U-235/236 | Suspended | 0.0024 U | 0.0064 | 0.0024 | 0.0049 |
| RD-54A | SMRD-54A-GW040111 | U-235/236 | Total | 0.131 | NA | 0.019 | NA |
| RD-54A | SMRD-54A-GW040111 | U-238 | Filtered | 2.51 | 0.02 | 0.13 | 0.006 |
| RD-54A | SMRD-54A-GW040111 | U-238 | Suspended | 0.06 | 0.018 | 0.012 | 0.007 |
| RD-54A | SMRD-54A-GW040111 | U-238 | Total | 2.57 | NA | 0.13 | NA |
| RD-54B | SMRD-54B-GW032411 | Ac-227 | Filtered | -2.7 U | 9 | 2.7 | 4.4 |
| RD-54B | SMRD-54B-GW032411 | Ac-227 | Suspended | -2.9 L U | 4.7 | 1.4 | 2.3 |
| RD-54B | SMRD-54B-GW032411 | Ac-227 | Total | -5.6 | NA | 3.1 | NA |
| RD-54B | SMRD-54B-GW032411 | Ac-228 | Filtered | 2.8 | 5.3 | 1.6 | 2.5 |
| RD-54B | SMRD-54B-GW032411 | Ac-228 | Suspended | -1 U | 3.2 | 1.5 | 1.5 |
| RD-54B | SMRD-54B-GW032411 | Ac-228 | Total | 1.8 | NA | 2.2 | NA |
| RD-54B | SMRD-54B-GW032411 | Ag-108 | Filtered | -0.001 U R | 0.12 | 0.035 | 0.057 |
| RD-54B | SMRD-54B-GW032411 | Ag-108 | Suspended | 0.006 U R | 0.053 | 0.016 | 0.025 |
| RD-54B | SMRD-54B-GW032411 | Ag-108 | Total | 0.005 R | NA | 0.038 | NA |
| RD-54B | SMRD-54B-GW032411 | Ag-108m | Filtered | -0.01 U R | 1.3 | 0.37 | 0.61 |
| RD-54B | SMRD-54B-GW032411 | Ag-108m | Suspended | 0.07 U R | 0.57 | 0.17 | 0.27 |
| RD-54B | SMRD-54B-GW032411 | Ag-108m | Total | 0.06 R | NA | 0.41 | NA |
| RD-54B | SMRD-54B-GW032411 | Ba-133 | Filtered | 3.3 U R | 12 | 3.6 | 5.7 |
| RD-54B | SMRD-54B-GW032411 | Ba-133 | Suspended | -0.02 U R | 5.6 | 1.6 | 2.7 |
| RD-54B | SMRD-54B-GW032411 | Ba-133 | Total | 3.3 R | NA | 3.9 | NA |
| RD-54B | SMRD-54B-GW032411 | Ba-137m | Filtered | -0.27 U | 1.5 | 0.44 | 0.71 |
| RD-54B | SMRD-54B-GW032411 | Ba-137m | Suspended | -0.25 U | 0.64 | 0.19 | 0.31 |
| RD-54B | SMRD-54B-GW032411 | Ba-137m | Total | -0.52 | NA | 0.48 | NA |
| RD-54B | SMRD-54B-GW032411 | Bi-212 | Filtered | 1.3 U | 11 | 3.1 | 5.1 |
| RD-54B | SMRD-54B-GW032411 | Bi-212 | Suspended | 2.7 | 5 | 1.5 | 2.4 |
| RD-54B | SMRD-54B-GW032411 | Bi-212 | Total | 4.1 | NA | 3.5 | NA |
| RD-54B | SMRD-54B-GW032411 | Bi-214 | Filtered | 1.3 U | 3.2 | 1 | 1.5 |
| RD-54B | SMRD-54B-GW032411 | Bi-214 | Suspended | 1.14 | 1.8 | 0.77 | 0.86 |
| RD-54B | SMRD-54B-GW032411 | Bi-214 | Total | 2.5 | NA | 1.3 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-54B | SMRD-54B-GW032411 | Cd-113m | Filtered | -1200 U | 19000 | 5500 | 9000 |
| RD-54B | SMRD-54B-GW032411 | Cd-113m | Suspended | -1300 U | 7300 | 2200 | 3500 |
| RD-54B | SMRD-54B-GW032411 | Cd-113m | Total | -2500 | NA | 5900 | NA |
| RD-54B | SMRD-54B-GW032411 | Cf-249 | Filtered | 2.3 U R | 7 | 2.1 | 3.3 |
| RD-54B | SMRD-54B-GW032411 | Cf-249 | Suspended | 0.49 U R | 3 | 0.9 | 1.5 |
| RD-54B | SMRD-54B-GW032411 | Cf-249 | Total | 2.7 R | NA | 2.3 | NA |
| RD-54B | SMRD-54B-GW032411 | Co-60 | Filtered | -0.23 U | 1.9 | 0.54 | 0.87 |
| RD-54B | SMRD-54B-GW032411 | Co-60 | Suspended | -0.09 U | 0.74 | 0.21 | 0.34 |
| RD-54B | SMRD-54B-GW032411 | Co-60 | Total | -0.32 | NA | 0.58 | NA |
| RD-54B | SMRD-54B-GW032411 | Cs-134 | Filtered | 0.05 U | 2 | 0.59 | 0.97 |
| RD-54B | SMRD-54B-GW032411 | Cs-134 | Suspended | -0.33 U | 0.75 | 0.23 | 0.36 |
| RD-54B | SMRD-54B-GW032411 | Cs-134 | Total | -0.28 | NA | 0.63 | NA |
| RD-54B | SMRD-54B-GW032411 | Cs-137 | Filtered | -0.29 U | 1.6 | 0.46 | 0.75 |
| RD-54B | SMRD-54B-GW032411 | Cs-137 | Suspended | -0.26 U | 0.68 | 0.2 | 0.32 |
| RD-54B | SMRD-54B-GW032411 | Cs-137 | Total | -0.55 | NA | 0.51 | NA |
| RD-54B | SMRD-54B-GW032411 | Eu-152 | Filtered | -1.4 U | 4.5 | 1.3 | 2.2 |
| RD-54B | SMRD-54B-GW032411 | Eu-152 | Suspended | 0.24 U | 1.7 | 0.49 | 0.8 |
| RD-54B | SMRD-54B-GW032411 | Eu-152 | Total | -1.2 | NA | 1.4 | NA |
| RD-54B | SMRD-54B-GW032411 | Eu-154 | Filtered | 0.9 U | 13 | 3.9 | 6.3 |
| RD-54B | SMRD-54B-GW032411 | Eu-154 | Suspended | 0 U | 7.5 | 2.2 | 3.6 |
| RD-54B | SMRD-54B-GW032411 | Eu-154 | Total | 0.9 | NA | 4.4 | NA |
| RD-54B | SMRD-54B-GW032411 | Eu-155 | Filtered | 0.2 U | 4 | 1.2 | 1.9 |
| RD-54B | SMRD-54B-GW032411 | Eu-155 | Suspended | 0.47 U | 1.4 | 0.41 | 0.67 |
| RD-54B | SMRD-54B-GW032411 | Eu-155 | Total | 0.6 | NA | 1.2 | NA |
| RD-54B | SMRD-54B-GW032411 | gross_alpha | Filtered | 0.52 | 0.53 | 0.19 | 0.29 |
| RD-54B | SMRD-54B-GW032411 | gross_alpha | Suspended | 0.72 | 0.37 | 0.17 | 0.19 |
| RD-54B | SMRD-54B-GW032411 | gross_alpha | Total | 1.24 | NA | 0.25 | NA |
| RD-54B | SMRD-54B-GW032411 | gross_beta | Filtered | 2.6 L | 1.9 | 0.67 | 1.1 |
| RD-54B | SMRD-54B-GW032411 | gross_beta | Suspended | 0.26 U | 0.81 | 0.24 | 0.48 |
| RD-54B | SMRD-54B-GW032411 | gross_beta | Total | 2.86 | NA | 0.71 | NA |
| RD-54B | SMRD-54B-GW032411 | H-3 | Total | 17 U | 140 | 43 | 70 |
| RD-54B | SMRD-54B-GW032411 | Ho-166m | Filtered | 0 U | 2.6 | 0.74 | 1.2 |
| RD-54B | SMRD-54B-GW032411 | Ho-166m | Suspended | -0.09 U | 1.2 | 0.35 | 0.56 |
| RD-54B | SMRD-54B-GW032411 | Ho-166m | Total | -0.09 | NA | 0.81 | NA |
| RD-54B | SMRD-54B-GW032411 | K-40 | Filtered | -14 U | 24 | 17 | 11 |
| RD-54B | SMRD-54B-GW032411 | K-40 | Suspended | 0.6 U | 12 | 3.6 | 5.9 |
| RD-54B | SMRD-54B-GW032411 | K-40 | Total | -14 | NA | 17 | NA |
| RD-54B | SMRD-54B-GW032411 | Na-22 | Filtered | 0.005 U | 1.2 | 0.31 | 0.51 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-54B | SMRD-54B-GW032411 | Na-22 | Suspended | 0.06 U | 0.73 | 0.21 | 0.34 |
| RD-54B | SMRD-54B-GW032411 | Na-22 | Total | 0.06 | NA | 0.38 | NA |
| RD-54B | SMRD-54B-GW032411 | Nb-94 | Filtered | -0.08 U | 1.4 | 0.41 | 0.67 |
| RD-54B | SMRD-54B-GW032411 | Nb-94 | Suspended | -0.03 U | 0.48 | 0.14 | 0.23 |
| RD-54B | SMRD-54B-GW032411 | Nb-94 | Total | -0.11 | NA | 0.43 | NA |
| RD-54B | SMRD-54B-GW032411 | Np-236 | Filtered | -1.2 U | 3.5 | 1 | 1.7 |
| RD-54B | SMRD-54B-GW032411 | Np-236 | Suspended | 0.18 U | 1.1 | 0.33 | 0.55 |
| RD-54B | SMRD-54B-GW032411 | Np-236 | Total | -1 | NA | 1.1 | NA |
| RD-54B | SMRD-54B-GW032411 | Np-239 | Filtered | 4 U | 9.3 | 2.8 | 4.5 |
| RD-54B | SMRD-54B-GW032411 | Np-239 | Suspended | -0.9 U | 3.7 | 1.1 | 1.8 |
| RD-54B | SMRD-54B-GW032411 | Np-239 | Total | 3.1 | NA | 3 | NA |
| RD-54B | SMRD-54B-GW032411 | Pa-231 | Filtered | 26 U | 60 | 18 | 29 |
| RD-54B | SMRD-54B-GW032411 | Pa-231 | Suspended | -6.7 U | 27 | 8 | 13 |
| RD-54B | SMRD-54B-GW032411 | Pa-231 | Total | 19 | NA | 20 | NA |
| RD-54B | SMRD-54B-GW032411 | Pb-212 | Filtered | -0.03 U | 2.7 | 0.82 | 1.3 |
| RD-54B | SMRD-54B-GW032411 | Pb-212 | Suspended | 0.61 | 1.1 | 0.37 | 0.52 |
| RD-54B | SMRD-54B-GW032411 | Pb-212 | Total | 0.58 | NA | 0.9 | NA |
| RD-54B | SMRD-54B-GW032411 | Pb-214 | Filtered | -0.8 U | 3.4 | 1.6 | 1.7 |
| RD-54B | SMRD-54B-GW032411 | Pb-214 | Suspended | 1.24 B | 1.4 | 0.55 | 0.66 |
| RD-54B | SMRD-54B-GW032411 | Pb-214 | Total | 0.4 | NA | 1.7 | NA |
| RD-54B | SMRD-54B-GW032411 | Sb-125 | Filtered | 1.6 U | 15 | 4.5 | 7.4 |
| RD-54B | SMRD-54B-GW032411 | Sb-125 | Suspended | 0.5 U | 5.8 | 1.7 | 2.8 |
| RD-54B | SMRD-54B-GW032411 | Sb-125 | Total | 2 | NA | 4.8 | NA |
| RD-54B | SMRD-54B-GW032411 | Sn-126 | Filtered | 0.02 U | 1.7 | 0.48 | 0.79 |
| RD-54B | SMRD-54B-GW032411 | Sn-126 | Suspended | -0.005 U | 0.83 | 0.24 | 0.4 |
| RD-54B | SMRD-54B-GW032411 | Sn-126 | Total | 0.01 | NA | 0.54 | NA |
| RD-54B | SMRD-54B-GW032411 | Sr-90 | Filtered | 0.029 U | 0.094 | 0.028 | 0.053 |
| RD-54B | SMRD-54B-GW032411 | Sr-90 | Suspended | -0.003 U | 0.062 | 0.017 | 0.037 |
| RD-54B | SMRD-54B-GW032411 | Sr-90 | Total | 0.026 | NA | 0.033 | NA |
| RD-54B | SMRD-54B-GW032411 | Te-125m | Filtered | 0.4 U | 3.5 | 1 | 1.7 |
| RD-54B | SMRD-54B-GW032411 | Te-125m | Suspended | 0.11 U | 1.3 | 0.4 | 0.65 |
| RD-54B | SMRD-54B-GW032411 | Te-125m | Total | 0.5 | NA | 1.1 | NA |
| RD-54B | SMRD-54B-GW032411 | Th-231 | Filtered | 0.0117 | 0.0064 | 0.0053 | 0.0049 |
| RD-54B | SMRD-54B-GW032411 | Th-231 | Suspended | -0.0018 U | 0.015 | 0.002 | 0.0047 |
| RD-54B | SMRD-54B-GW032411 | Th-231 | Total | 0.0099 | NA | 0.0056 | NA |
| RD-54B | SMRD-54B-GW032411 | Th-234 | Filtered | 4.1 U | 27 | 8.9 | 13 |
| RD-54B | SMRD-54B-GW032411 | Th-234 | Suspended | 1.6 U | 8.9 | 2.8 | 4.4 |
| RD-54B | SMRD-54B-GW032411 | Th-234 | Total | 5.6 | NA | 9.3 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-54B | SMRD-54B-GW032411 | Tl-208 | Filtered | -1.2 U | 2 | 1.4 | 1 |
| RD-54B | SMRD-54B-GW032411 | Tl-208 | Suspended | 0.17 U | 0.71 | 0.22 | 0.34 |
| RD-54B | SMRD-54B-GW032411 | Tl-208 | Total | -1 | NA | 1.4 | NA |
| RD-54B | SMRD-54B-GW032411 | Tm-171 | Filtered | 20 U | 450 | 140 | 220 |
| RD-54B | SMRD-54B-GW032411 | Tm-171 | Suspended | 22 U | 110 | 32 | 52 |
| RD-54B | SMRD-54B-GW032411 | Tm-171 | Total | 50 | NA | 140 | NA |
| RD-54B | SMRD-54B-GW032411 | U-233/234 | Filtered | 0.128 | 0.013 | 0.017 | 0.004 |
| RD-54B | SMRD-54B-GW032411 | U-233/234 | Suspended | 0.0264 | 0.0049 | 0.0082 | 0.0038 |
| RD-54B | SMRD-54B-GW032411 | U-233/234 | Total | 0.155 | NA | 0.019 | NA |
| RD-54B | SMRD-54B-GW032411 | U-235/236 | Filtered | 0.0117 | 0.0064 | 0.0053 | 0.0049 |
| RD-54B | SMRD-54B-GW032411 | U-235/236 | Suspended | -0.0018 U | 0.015 | 0.0018 | 0.0047 |
| RD-54B | SMRD-54B-GW032411 | U-235/236 | Total | 0.0099 | NA | 0.0056 | NA |
| RD-54B | SMRD-54B-GW032411 | U-238 | Filtered | 0.061 | 0.005 | 0.012 | 0.004 |
| RD-54B | SMRD-54B-GW032411 | U-238 | Suspended | 0.0108 | 0.0049 | 0.0057 | 0.0038 |
| RD-54B | SMRD-54B-GW032411 | U-238 | Total | 0.071 | NA | 0.013 | NA |
| RD-54C | SMRD-54C-GW032411 | Ac-227 | Filtered | -4.2 U | 11 | 3.2 | 5.2 |
| RD-54C | SMRD-54C-GW032411 | Ac-227 | Suspended | -0.3 U | 3.8 | 1.1 | 1.8 |
| RD-54C | SMRD-54C-GW032411 | Ac-227 | Total | -4.5 | NA | 3.4 | NA |
| RD-54C | SMRD-54C-GW032411 | Ac-228 | Filtered | 3.8 | 4.6 | 1.5 | 2.1 |
| RD-54C | SMRD-54C-GW032411 | Ac-228 | Suspended | -0.45 U | 2.6 | 0.99 | 1.2 |
| RD-54C | SMRD-54C-GW032411 | Ac-228 | Total | 3.4 | NA | 1.8 | NA |
| RD-54C | SMRD-54C-GW032411 | Ag-108 | Filtered | 0.016 U R | 0.11 | 0.032 | 0.052 |
| RD-54C | SMRD-54C-GW032411 | Ag-108 | Suspended | -0.011 U R | 0.055 | 0.016 | 0.026 |
| RD-54C | SMRD-54C-GW032411 | Ag-108 | Total | 0.006 R | NA | 0.036 | NA |
| RD-54C | SMRD-54C-GW032411 | Ag-108m | Filtered | 0.18 U R | 1.2 | 0.34 | 0.55 |
| RD-54C | SMRD-54C-GW032411 | Ag-108m | Suspended | -0.11 U R | 0.59 | 0.17 | 0.28 |
| RD-54C | SMRD-54C-GW032411 | Ag-108m | Total | 0.06 R | NA | 0.38 | NA |
| RD-54C | SMRD-54C-GW032411 | Ba-133 | Filtered | -3.6 U R | 15 | 4.4 | 7.2 |
| RD-54C | SMRD-54C-GW032411 | Ba-133 | Suspended | -1.3 U R | 6.3 | 1.9 | 3 |
| RD-54C | SMRD-54C-GW032411 | Ba-133 | Total | -4.8 R | NA | 4.8 | NA |
| RD-54C | SMRD-54C-GW032411 | Ba-137m | Filtered | -0.05 U | 1.3 | 0.36 | 0.59 |
| RD-54C | SMRD-54C-GW032411 | Ba-137m | Suspended | 0.32 | 0.56 | 0.17 | 0.27 |
| RD-54C | SMRD-54C-GW032411 | Ba-137m | Total | 0.27 | NA | 0.4 | NA |
| RD-54C | SMRD-54C-GW032411 | Bi-212 | Filtered | 0.02 U | 11 | 3.1 | 5.1 |
| RD-54C | SMRD-54C-GW032411 | Bi-212 | Suspended | 2.2 U | 5.2 | 1.6 | 2.4 |
| RD-54C | SMRD-54C-GW032411 | Bi-212 | Total | 2.2 | NA | 3.5 | NA |
| RD-54C | SMRD-54C-GW032411 | Bi-214 | Filtered | 5.2 | 3.8 | 1.2 | 1.8 |
| RD-54C | SMRD-54C-GW032411 | Bi-214 | Suspended | 0.97 | 1.7 | 0.64 | 0.8 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-54C | SMRD-54C-GW032411 | Bi-214 | Total | 6.2 | NA | 1.4 | NA |
| RD-54C | SMRD-54C-GW032411 | Cd-113m | Filtered | 200 U | 17000 | 5100 | 8300 |
| RD-54C | SMRD-54C-GW032411 | Cd-113m | Suspended | -70 U | 7100 | 2100 | 3400 |
| RD-54C | SMRD-54C-GW032411 | Cd-113m | Total | 200 | NA | 5500 | NA |
| RD-54C | SMRD-54C-GW032411 | Cf-249 | Filtered | 2.3 U R | 7 | 2.1 | 3.4 |
| RD-54C | SMRD-54C-GW032411 | Cf-249 | Suspended | 0.25 U R | 2.9 | 0.86 | 1.4 |
| RD-54C | SMRD-54C-GW032411 | Cf-249 | Total | 2.6 R | NA | 2.3 | NA |
| RD-54C | SMRD-54C-GW032411 | Co-60 | Filtered | 0.06 U | 1.7 | 0.47 | 0.77 |
| RD-54C | SMRD-54C-GW032411 | Co-60 | Suspended | -0.008 U | 0.77 | 0.22 | 0.36 |
| RD-54C | SMRD-54C-GW032411 | Co-60 | Total | 0.06 | NA | 0.52 | NA |
| RD-54C | SMRD-54C-GW032411 | Cs-134 | Filtered | -0.34 U | 1.8 | 0.52 | 0.85 |
| RD-54C | SMRD-54C-GW032411 | Cs-134 | Suspended | 0.14 U | 0.59 | 0.17 | 0.28 |
| RD-54C | SMRD-54C-GW032411 | Cs-134 | Total | -0.2 | NA | 0.55 | NA |
| RD-54C | SMRD-54C-GW032411 | Cs-137 | Filtered | -0.05 U | 1.3 | 0.38 | 0.63 |
| RD-54C | SMRD-54C-GW032411 | Cs-137 | Suspended | 0.33 | 0.6 | 0.18 | 0.28 |
| RD-54C | SMRD-54C-GW032411 | Cs-137 | Total | 0.29 | NA | 0.42 | NA |
| RD-54C | SMRD-54C-GW032411 | Eu-152 | Filtered | -0.3 U | 4.4 | 1.3 | 2.1 |
| RD-54C | SMRD-54C-GW032411 | Eu-152 | Suspended | 0.02 U | 1.8 | 0.53 | 0.88 |
| RD-54C | SMRD-54C-GW032411 | Eu-152 | Total | -0.3 | NA | 1.4 | NA |
| RD-54C | SMRD-54C-GW032411 | Eu-154 | Filtered | -4.9 U | 15 | 4.4 | 6.9 |
| RD-54C | SMRD-54C-GW032411 | Eu-154 | Suspended | 0.5 U | 5.6 | 1.6 | 2.6 |
| RD-54C | SMRD-54C-GW032411 | Eu-154 | Total | -4.4 | NA | 4.7 | NA |
| RD-54C | SMRD-54C-GW032411 | Eu-155 | Filtered | 1.3 U | 3.9 | 1.2 | 1.9 |
| RD-54C | SMRD-54C-GW032411 | Eu-155 | Suspended | 0.22 U | 1.1 | 0.32 | 0.51 |
| RD-54C | SMRD-54C-GW032411 | Eu-155 | Total | 1.5 | NA | 1.2 | NA |
| RD-54C | SMRD-54C-GW032411 | gross_alpha | Filtered | 0.16 U | 0.64 | 0.18 | 0.35 |
| RD-54C | SMRD-54C-GW032411 | gross_alpha | Suspended | 1.17 K | 0.53 | 0.25 | 0.28 |
| RD-54C | SMRD-54C-GW032411 | gross_alpha | Total | 1.33 | NA | 0.31 | NA |
| RD-54C | SMRD-54C-GW032411 | gross_beta | Filtered | 2.54 | 1.1 | 0.44 | 0.65 |
| RD-54C | SMRD-54C-GW032411 | gross_beta | Suspended | 0.49 U | 0.93 | 0.28 | 0.56 |
| RD-54C | SMRD-54C-GW032411 | gross_beta | Total | 3.03 | NA | 0.53 | NA |
| RD-54C | SMRD-54C-GW032411 | H-3 | Total | 24 U | 150 | 43 | 70 |
| RD-54C | SMRD-54C-GW032411 | Ho-166m | Filtered | 0 U | 2.6 | 0.74 | 1.2 |
| RD-54C | SMRD-54C-GW032411 | Ho-166m | Suspended | -0.42 U | 1.2 | 0.35 | 0.56 |
| RD-54C | SMRD-54C-GW032411 | Ho-166m | Total | -0.42 | NA | 0.82 | NA |
| RD-54C | SMRD-54C-GW032411 | K-40 | Filtered | 7 U | 22 | 6.9 | 10 |
| RD-54C | SMRD-54C-GW032411 | K-40 | Suspended | 3.9 U | 10 | 3.4 | 4.8 |
| RD-54C | SMRD-54C-GW032411 | K-40 | Total | 11 | NA | 7.6 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-54C | SMRD-54C-GW032411 | Na-22 | Filtered | 0.06 U | 1.7 | 0.48 | 0.79 |
| RD-54C | SMRD-54C-GW032411 | Na-22 | Suspended | -0.24 U | 0.88 | 0.26 | 0.41 |
| RD-54C | SMRD-54C-GW032411 | Na-22 | Total | -0.18 | NA | 0.55 | NA |
| RD-54C | SMRD-54C-GW032411 | Nb-94 | Filtered | -0.31 U | 1.3 | 0.38 | 0.61 |
| RD-54C | SMRD-54C-GW032411 | Nb-94 | Suspended | 0.22 U | 0.54 | 0.16 | 0.26 |
| RD-54C | SMRD-54C-GW032411 | Nb-94 | Total | -0.09 | NA | 0.41 | NA |
| RD-54C | SMRD-54C-GW032411 | Np-236 | Filtered | 0.09 U | 2.9 | 0.87 | 1.4 |
| RD-54C | SMRD-54C-GW032411 | Np-236 | Suspended | 0.09 U | 1.2 | 0.36 | 0.59 |
| RD-54C | SMRD-54C-GW032411 | Np-236 | Total | 0.18 | NA | 0.94 | NA |
| RD-54C | SMRD-54C-GW032411 | Np-239 | Filtered | 0.8 U | 9 | 2.7 | 4.4 |
| RD-54C | SMRD-54C-GW032411 | Np-239 | Suspended | -1.2 U | 4.2 | 1.2 | 2 |
| RD-54C | SMRD-54C-GW032411 | Np-239 | Total | -0.3 | NA | 2.9 | NA |
| RD-54C | SMRD-54C-GW032411 | Pa-231 | Filtered | 0.7 U | 49 | 14 | 23 |
| RD-54C | SMRD-54C-GW032411 | Pa-231 | Suspended | -4.2 U | 27 | 8 | 13 |
| RD-54C | SMRD-54C-GW032411 | Pa-231 | Total | -3 | NA | 16 | NA |
| RD-54C | SMRD-54C-GW032411 | Pb-212 | Filtered | 0.71 U | 2.8 | 0.95 | 1.4 |
| RD-54C | SMRD-54C-GW032411 | Pb-212 | Suspended | 0.18 U | 1.2 | 0.4 | 0.57 |
| RD-54C | SMRD-54C-GW032411 | Pb-212 | Total | 0.9 | NA | 1 | NA |
| RD-54C | SMRD-54C-GW032411 | Pb-214 | Filtered | -0.7 U | 3.5 | 1.5 | 1.7 |
| RD-54C | SMRD-54C-GW032411 | Pb-214 | Suspended | -0.54 U | 1.6 | 0.65 | 0.76 |
| RD-54C | SMRD-54C-GW032411 | Pb-214 | Total | -1.3 | NA | 1.7 | NA |
| RD-54C | SMRD-54C-GW032411 | Sb-125 | Filtered | 6 U | 13 | 3.8 | 6.1 |
| RD-54C | SMRD-54C-GW032411 | Sb-125 | Suspended | 0.4 U | 5.5 | 1.6 | 2.7 |
| RD-54C | SMRD-54C-GW032411 | Sb-125 | Total | 6.4 | NA | 4.2 | NA |
| RD-54C | SMRD-54C-GW032411 | Sn-126 | Filtered | 0.11 U | 1.5 | 0.44 | 0.73 |
| RD-54C | SMRD-54C-GW032411 | Sn-126 | Suspended | 0.29 U | 0.7 | 0.21 | 0.33 |
| RD-54C | SMRD-54C-GW032411 | Sn-126 | Total | 0.4 | NA | 0.49 | NA |
| RD-54C | SMRD-54C-GW032411 | Sr-90 | Filtered | 0.099 | 0.065 | 0.022 | 0.037 |
| RD-54C | SMRD-54C-GW032411 | Sr-90 | Suspended | 0.015 U | 0.068 | 0.02 | 0.038 |
| RD-54C | SMRD-54C-GW032411 | Sr-90 | Total | 0.115 | NA | 0.03 | NA |
| RD-54C | SMRD-54C-GW032411 | Te-125m | Filtered | 1.38 U | 2.9 | 0.89 | 1.4 |
| RD-54C | SMRD-54C-GW032411 | Te-125m | Suspended | 0.09 U | 1.3 | 0.38 | 0.62 |
| RD-54C | SMRD-54C-GW032411 | Te-125m | Total | 1.48 | NA | 0.96 | NA |
| RD-54C | SMRD-54C-GW032411 | Th-231 | Filtered | 0.0049 U | 0.0066 | 0.0034 | 0.005 |
| RD-54C | SMRD-54C-GW032411 | Th-231 | Suspended | 0 U | 0.0062 | 0.0023 | 0.0054 |
| RD-54C | SMRD-54C-GW032411 | Th-231 | Total | 0.0049 | NA | 0.0041 | NA |
| RD-54C | SMRD-54C-GW032411 | Th-234 | Filtered | 1.8 U | 27 | 9.5 | 13 |
| RD-54C | SMRD-54C-GW032411 | Th-234 | Suspended | -1 U | 7.5 | 2.7 | 3.7 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-54C | SMRD-54C-GW032411 | Th-234 | Total | 0.8 | NA | 9.9 | NA |
| RD-54C | SMRD-54C-GW032411 | Tl-208 | Filtered | 0.91 U | 1.9 | 0.78 | 0.93 |
| RD-54C | SMRD-54C-GW032411 | Tl-208 | Suspended | 0.57 | 0.66 | 0.24 | 0.31 |
| RD-54C | SMRD-54C-GW032411 | Tl-208 | Total | 1.48 | NA | 0.82 | NA |
| RD-54C | SMRD-54C-GW032411 | Tm-171 | Filtered | 100 U | 440 | 130 | 210 |
| RD-54C | SMRD-54C-GW032411 | Tm-171 | Suspended | 36 U | 120 | 36 | 58 |
| RD-54C | SMRD-54C-GW032411 | Tm-171 | Total | 140 | NA | 140 | NA |
| RD-54C | SMRD-54C-GW032411 | U-233/234 | Filtered | 0.0101 | 0.013 | 0.0067 | 0.0041 |
| RD-54C | SMRD-54C-GW032411 | U-233/234 | Suspended | 0.0184 | 0.012 | 0.0076 | 0.0038 |
| RD-54C | SMRD-54C-GW032411 | U-233/234 | Total | 0.029 | NA | 0.01 | NA |
| RD-54C | SMRD-54C-GW032411 | U-235/236 | Filtered | 0.0049 U | 0.0066 | 0.0034 | 0.005 |
| RD-54C | SMRD-54C-GW032411 | U-235/236 | Suspended | 0 U | 0.0062 | 0.0018 | 0.0048 |
| RD-54C | SMRD-54C-GW032411 | U-235/236 | Total | 0.0049 | NA | 0.0039 | NA |
| RD-54C | SMRD-54C-GW032411 | U-238 | Filtered | 0.0006 U | 0.0053 | 0.0039 | 0.004 |
| RD-54C | SMRD-54C-GW032411 | U-238 | Suspended | 0.0076 | 0.005 | 0.0052 | 0.0038 |
| RD-54C | SMRD-54C-GW032411 | U-238 | Total | 0.0081 | NA | 0.0065 | NA |
| RD-56A | SMRD-56A-GW042011 | Ac-227 | Filtered | -6.5 L U | 9.8 | 3 | 4.8 |
| RD-56A | SMRD-56A-GW042011 | Ac-227 | Suspended | -0.792 U | 3.3 | 0.998 | 1.6 |
| RD-56A | SMRD-56A-GW042011 | Ac-227 | Total | -7.3 L | NA | 3.2 | NA |
| RD-56A | SMRD-56A-GW042011 | Ac-228 | Filtered | 1.2 U | 4.2 | 1.3 | 2 |
| RD-56A | SMRD-56A-GW042011 | Ac-228 | Suspended | 1.6 | 1.9 | 0.59 | 0.87 |
| RD-56A | SMRD-56A-GW042011 | Ac-228 | Total | 2.8 | NA | 1.4 | NA |
| RD-56A | SMRD-56A-GW042011 | Ag-108 | Filtered | -0.003 U R | 0.092 | 0.027 | 0.044 |
| RD-56A | SMRD-56A-GW042011 | Ag-108 | Suspended | 0.007 U R | 0.035 | 0.01 | 0.017 |
| RD-56A | SMRD-56A-GW042011 | Ag-108 | Total | 0.004 R | NA | 0.029 | NA |
| RD-56A | SMRD-56A-GW042011 | Ag-108m | Filtered | -0.03 U R | 0.99 | 0.29 | 0.47 |
| RD-56A | SMRD-56A-GW042011 | Ag-108m | Suspended | 0.07 U R | 0.38 | 0.11 | 0.18 |
| RD-56A | SMRD-56A-GW042011 | Ag-108m | Total | 0.04 R | NA | 0.31 | NA |
| RD-56A | SMRD-56A-GW042011 | Ba-133 | Filtered | 0.8 U R | 11 | 3.3 | 5.3 |
| RD-56A | SMRD-56A-GW042011 | Ba-133 | Suspended | 1.7 R | 3.5 | 1 | 1.6 |
| RD-56A | SMRD-56A-GW042011 | Ba-133 | Total | 2.4 R | NA | 3.4 | NA |
| RD-56A | SMRD-56A-GW042011 | Ba-137m | Filtered | -0.02 U | 1.2 | 0.34 | 0.55 |
| RD-56A | SMRD-56A-GW042011 | Ba-137m | Suspended | -0.21 U | 0.6 | 0.18 | 0.29 |
| RD-56A | SMRD-56A-GW042011 | Ba-137m | Total | -0.23 | NA | 0.38 | NA |
| RD-56A | SMRD-56A-GW042011 | Bi-212 | Filtered | 2.8 U | 9.4 | 2.8 | 4.4 |
| RD-56A | SMRD-56A-GW042011 | Bi-212 | Suspended | 1.7 U | 3.9 | 1.2 | 1.8 |
| RD-56A | SMRD-56A-GW042011 | Bi-212 | Total | 4.5 | NA | 3 | NA |
| RD-56A | SMRD-56A-GW042011 | Bi-214 | Filtered | 0.86 U | 2.7 | 0.88 | 1.3 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-56A | SMRD-56A-GW042011 | Bi-214 | Suspended | 1.49 | 1.2 | 0.47 | 0.57 |
| RD-56A | SMRD-56A-GW042011 | Bi-214 | Total | 2.35 | NA | 0.999 | NA |
| RD-56A | SMRD-56A-GW042011 | Cd-113m | Filtered | -500 U | 14000 | 4200 | 6900 |
| RD-56A | SMRD-56A-GW042011 | Cd-113m | Suspended | -600 U | 5700 | 1700 | 2800 |
| RD-56A | SMRD-56A-GW042011 | Cd-113m | Total | -1100 | NA | 4500 | NA |
| RD-56A | SMRD-56A-GW042011 | Cf-249 | Filtered | 1.3 U R | 5.7 | 1.7 | 2.8 |
| RD-56A | SMRD-56A-GW042011 | Cf-249 | Suspended | 0.9 U R | 2.3 | 0.69 | 1.1 |
| RD-56A | SMRD-56A-GW042011 | Cf-249 | Total | 2.2 R | NA | 1.8 | NA |
| RD-56A | SMRD-56A-GW042011 | Co-60 | Filtered | -0.02 U | 1.3 | 0.37 | 0.6 |
| RD-56A | SMRD-56A-GW042011 | Co-60 | Suspended | -0.09 U | 0.67 | 0.19 | 0.31 |
| RD-56A | SMRD-56A-GW042011 | Co-60 | Total | -0.11 | NA | 0.41 | NA |
| RD-56A | SMRD-56A-GW042011 | Cs-134 | Filtered | -0.006 U | 1.4 | 0.41 | 0.68 |
| RD-56A | SMRD-56A-GW042011 | Cs-134 | Suspended | 0.11 U | 0.52 | 0.15 | 0.25 |
| RD-56A | SMRD-56A-GW042011 | Cs-134 | Total | 0.1 | NA | 0.44 | NA |
| RD-56A | SMRD-56A-GW042011 | Cs-137 | Filtered | -0.02 U | 1.2 | 0.35 | 0.58 |
| RD-56A | SMRD-56A-GW042011 | Cs-137 | Suspended | -0.22 U | 0.64 | 0.19 | 0.3 |
| RD-56A | SMRD-56A-GW042011 | Cs-137 | Total | -0.24 | NA | 0.4 | NA |
| RD-56A | SMRD-56A-GW042011 | Eu-152 | Filtered | 1.07 U | 3 | 0.89 | 1.4 |
| RD-56A | SMRD-56A-GW042011 | Eu-152 | Suspended | 0.17 U | 1.3 | 0.39 | 0.64 |
| RD-56A | SMRD-56A-GW042011 | Eu-152 | Total | 1.24 | NA | 0.97 | NA |
| RD-56A | SMRD-56A-GW042011 | Eu-154 | Filtered | 1.2 U | 9.2 | 2.6 | 4.3 |
| RD-56A | SMRD-56A-GW042011 | Eu-154 | Suspended | -0.1 U | 4.1 | 1.2 | 1.9 |
| RD-56A | SMRD-56A-GW042011 | Eu-154 | Total | 1.1 | NA | 2.9 | NA |
| RD-56A | SMRD-56A-GW042011 | Eu-155 | Filtered | -0.33 U | 3.3 | 0.99 | 1.6 |
| RD-56A | SMRD-56A-GW042011 | Eu-155 | Suspended | 0.11 U | 0.72 | 0.21 | 0.35 |
| RD-56A | SMRD-56A-GW042011 | Eu-155 | Total | -0.2 | NA | 1 | NA |
| RD-56A | SMRD-56A-GW042011 | gross_alpha | Filtered | 4.54 | 0.39 | 0.44 | 0.19 |
| RD-56A | SMRD-56A-GW042011 | gross_alpha | Suspended | 4.61 | 0.74 | 0.51 | 0.41 |
| RD-56A | SMRD-56A-GW042011 | gross_alpha | Total | 9.15 | NA | 0.67 | NA |
| RD-56A | SMRD-56A-GW042011 | gross_beta | Filtered | 6.2 | 4 | 1.5 | 2.4 |
| RD-56A | SMRD-56A-GW042011 | gross_beta | Suspended | 20.7 | 0.8 | 1.1 | 0.5 |
| RD-56A | SMRD-56A-GW042011 | gross_beta | Total | 26.9 | NA | 1.8 | NA |
| RD-56A | SMRD-56A-GW042011 | H-3 | Total | -71 U | 160 | 45 | 77 |
| RD-56A | SMRD-56A-GW042011 | Ho-166m | Filtered | 0.01 U | 1.9 | 0.53 | 0.87 |
| RD-56A | SMRD-56A-GW042011 | Ho-166m | Suspended | -0.23 U | 0.96 | 0.28 | 0.46 |
| RD-56A | SMRD-56A-GW042011 | Ho-166m | Total | -0.22 | NA | 0.6 | NA |
| RD-56A | SMRD-56A-GW042011 | K-40 | Filtered | 17.9 | 16 | 5.4 | 7.2 |
| RD-56A | SMRD-56A-GW042011 | K-40 | Suspended | -1.6 U | 7.3 | 1.9 | 3.4 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-56A | SMRD-56A-GW042011 | K-40 | Total | 16.3 | NA | 5.7 | NA |
| RD-56A | SMRD-56A-GW042011 | Na-22 | Filtered | 0.07 U | 1.4 | 0.39 | 0.64 |
| RD-56A | SMRD-56A-GW042011 | Na-22 | Suspended | 0.09 U | 0.55 | 0.16 | 0.25 |
| RD-56A | SMRD-56A-GW042011 | Na-22 | Total | 0.16 | NA | 0.42 | NA |
| RD-56A | SMRD-56A-GW042011 | Nb-94 | Filtered | -0.17 U | 1.2 | 0.34 | 0.56 |
| RD-56A | SMRD-56A-GW042011 | Nb-94 | Suspended | -0.04 U | 0.61 | 0.18 | 0.29 |
| RD-56A | SMRD-56A-GW042011 | Nb-94 | Total | -0.21 | NA | 0.39 | NA |
| RD-56A | SMRD-56A-GW042011 | Np-236 | Filtered | 0 U | 2.9 | 0.86 | 1.4 |
| RD-56A | SMRD-56A-GW042011 | Np-236 | Suspended | -0.02 U | 0.89 | 0.26 | 0.43 |
| RD-56A | SMRD-56A-GW042011 | Np-236 | Total | -0.02 | NA | 0.9 | NA |
| RD-56A | SMRD-56A-GW042011 | Np-239 | Filtered | 1.1 U | 7.6 | 2.3 | 3.7 |
| RD-56A | SMRD-56A-GW042011 | Np-239 | Suspended | 0.46 U | 2.6 | 0.79 | 1.3 |
| RD-56A | SMRD-56A-GW042011 | Np-239 | Total | 1.6 | NA | 2.4 | NA |
| RD-56A | SMRD-56A-GW042011 | Pa-231 | Filtered | -0.4 U | 56 | 16 | 27 |
| RD-56A | SMRD-56A-GW042011 | Pa-231 | Suspended | -0.4 U | 18 | 5.3 | 8.7 |
| RD-56A | SMRD-56A-GW042011 | Pa-231 | Total | -0.8 | NA | 17 | NA |
| RD-56A | SMRD-56A-GW042011 | Pb-212 | Filtered | 0.2 U | 2.3 | 0.7 | 1.1 |
| RD-56A | SMRD-56A-GW042011 | Pb-212 | Suspended | 0.79 | 0.78 | 0.31 | 0.38 |
| RD-56A | SMRD-56A-GW042011 | Pb-212 | Total | 0.99 | NA | 0.76 | NA |
| RD-56A | SMRD-56A-GW042011 | Pb-214 | Filtered | 0.95 U | 2.8 | 0.78 | 1.3 |
| RD-56A | SMRD-56A-GW042011 | Pb-214 | Suspended | 0.85 | 1 | 0.4 | 0.49 |
| RD-56A | SMRD-56A-GW042011 | Pb-214 | Total | 1.8 | NA | 0.88 | NA |
| RD-56A | SMRD-56A-GW042011 | Sb-125 | Filtered | -1.4 U | 13 | 3.8 | 6.2 |
| RD-56A | SMRD-56A-GW042011 | Sb-125 | Suspended | -0.8 U | 4.7 | 1.4 | 2.3 |
| RD-56A | SMRD-56A-GW042011 | Sb-125 | Total | -2.2 | NA | 4 | NA |
| RD-56A | SMRD-56A-GW042011 | Sn-126 | Filtered | -0.39 U | 1.5 | 0.44 | 0.71 |
| RD-56A | SMRD-56A-GW042011 | Sn-126 | Suspended | 0.16 U | 0.63 | 0.19 | 0.3 |
| RD-56A | SMRD-56A-GW042011 | Sn-126 | Total | -0.24 | NA | 0.48 | NA |
| RD-56A | SMRD-56A-GW042011 | Sr-90 | Filtered | 0.06 U | 0.12 | 0.035 | 0.065 |
| RD-56A | SMRD-56A-GW042011 | Sr-90 | Suspended | 0.024 U | 0.062 | 0.019 | 0.033 |
| RD-56A | SMRD-56A-GW042011 | Sr-90 | Total | 0.084 | NA | 0.04 | NA |
| RD-56A | SMRD-56A-GW042011 | Te-125m | Filtered | -0.33 U | 3 | 0.88 | 1.4 |
| RD-56A | SMRD-56A-GW042011 | Te-125m | Suspended | -0.19 U | 1.1 | 0.32 | 0.53 |
| RD-56A | SMRD-56A-GW042011 | Te-125m | Total | -0.52 | NA | 0.93 | NA |
| RD-56A | SMRD-56A-GW042011 | Th-231 | Filtered | 0.0309 | 0.0076 | 0.0094 | 0.0059 |
| RD-56A | SMRD-56A-GW042011 | Th-231 | Suspended | 0.0015 U | 0.025 | 0.0057 | 0.0093 |
| RD-56A | SMRD-56A-GW042011 | Th-231 | Total | 0.032 | NA | 0.011 | NA |
| RD-56A | SMRD-56A-GW042011 | Th-234 | Filtered | 3.8 U | 19 | 5.9 | 9.4 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-56A | SMRD-56A-GW042011 | Th-234 | Suspended | -1.1 U | 5.6 | 1.7 | 2.7 |
| RD-56A | SMRD-56A-GW042011 | Th-234 | Total | 2.7 | NA | 6.1 | NA |
| RD-56A | SMRD-56A-GW042011 | Tl-208 | Filtered | -0.67 U | 1.6 | 0.93 | 0.77 |
| RD-56A | SMRD-56A-GW042011 | Tl-208 | Suspended | 0.29 | 0.52 | 0.19 | 0.25 |
| RD-56A | SMRD-56A-GW042011 | Tl-208 | Total | -0.38 | NA | 0.95 | NA |
| RD-56A | SMRD-56A-GW042011 | Tm-171 | Filtered | 90 U | 360 | 110 | 170 |
| RD-56A | SMRD-56A-GW042011 | Tm-171 | Suspended | 13 U | 90 | 27 | 43 |
| RD-56A | SMRD-56A-GW042011 | Tm-171 | Total | 100 | NA | 110 | NA |
| RD-56A | SMRD-56A-GW042011 | U-233/234 | Filtered | 0.736 | 0.015 | 0.051 | 0.005 |
| RD-56A | SMRD-56A-GW042011 | U-233/234 | Suspended | 0.083 | 0.014 | 0.015 | 0.004 |
| RD-56A | SMRD-56A-GW042011 | U-233/234 | Total | 0.82 | NA | 0.054 | NA |
| RD-56A | SMRD-56A-GW042011 | U-235/236 | Filtered | 0.0309 | 0.0076 | 0.0094 | 0.0059 |
| RD-56A | SMRD-56A-GW042011 | U-235/236 | Suspended | 0.0015 U | 0.025 | 0.0057 | 0.0093 |
| RD-56A | SMRD-56A-GW042011 | U-235/236 | Total | 0.032 | NA | 0.011 | NA |
| RD-56A | SMRD-56A-GW042011 | U-238 | Filtered | 0.64 | 0.006 | 0.047 | 0.005 |
| RD-56A | SMRD-56A-GW042011 | U-238 | Suspended | 0.094 | 0.014 | 0.015 | 0.004 |
| RD-56A | SMRD-56A-GW042011 | U-238 | Total | 0.734 | NA | 0.049 | NA |
| RD-56B | SMRD-56B-GW042011 | Ac-227 | Filtered | 1.3 U | 9.3 | 2.8 | 4.5 |
| RD-56B | SMRD-56B-GW042011 | Ac-227 | Suspended | -1.07 U | 3.3 | 0.996 | 1.6 |
| RD-56B | SMRD-56B-GW042011 | Ac-227 | Total | 0.2 | NA | 2.9 | NA |
| RD-56B | SMRD-56B-GW042011 | Ac-228 | Filtered | 3.3 | 3.8 | 1.2 | 1.8 |
| RD-56B | SMRD-56B-GW042011 | Ac-228 | Suspended | 0 U | 1.3 | 0.37 | 0.6 |
| RD-56B | SMRD-56B-GW042011 | Ac-228 | Total | 3.3 | NA | 1.3 | NA |
| RD-56B | SMRD-56B-GW042011 | Ag-108 | Filtered | -0.007 U R | 0.089 | 0.026 | 0.043 |
| RD-56B | SMRD-56B-GW042011 | Ag-108 | Suspended | 0.013 U R | 0.041 | 0.012 | 0.02 |
| RD-56B | SMRD-56B-GW042011 | Ag-108 | Total | 0.006 R | NA | 0.029 | NA |
| RD-56B | SMRD-56B-GW042011 | Ag-108m | Filtered | -0.08 U R | 0.96 | 0.28 | 0.46 |
| RD-56B | SMRD-56B-GW042011 | Ag-108m | Suspended | 0.14 U R | 0.44 | 0.13 | 0.21 |
| RD-56B | SMRD-56B-GW042011 | Ag-108m | Total | 0.06 R | NA | 0.31 | NA |
| RD-56B | SMRD-56B-GW042011 | Am-241 | Filtered | 0.0039 U | 0.018 | 0.0048 | 0.0065 |
| RD-56B | SMRD-56B-GW042011 | Am-241 | Suspended | -0.0011 U | 0.015 | 0.003 | 0.0054 |
| RD-56B | SMRD-56B-GW042011 | Am-241 | Total | 0.0028 | NA | 0.0057 | NA |
| RD-56B | SMRD-56B-GW042011 | Ba-133 | Filtered | 5.1 R | 10 | 3.2 | 5 |
| RD-56B | SMRD-56B-GW042011 | Ba-133 | Suspended | 1 U R | 4.3 | 1.3 | 2.1 |
| RD-56B | SMRD-56B-GW042011 | Ba-133 | Total | 6 R | NA | 3.4 | NA |
| RD-56B | SMRD-56B-GW042011 | Ba-137m | Filtered | -0.22 U | 1.1 | 0.31 | 0.5 |
| RD-56B | SMRD-56B-GW042011 | Ba-137m | Suspended | -0.04 U | 0.51 | 0.15 | 0.24 |
| RD-56B | SMRD-56B-GW042011 | Ba-137m | Total | -0.25 | NA | 0.35 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-56B | SMRD-56B-GW042011 | Bi-212 | Filtered | -0.8 U | 9.1 | 3.5 | 4.3 |
| RD-56B | SMRD-56B-GW042011 | Bi-212 | Suspended | 0.3 U | 4.4 | 1.3 | 2.1 |
| RD-56B | SMRD-56B-GW042011 | Bi-212 | Total | -0.5 | NA | 3.7 | NA |
| RD-56B | SMRD-56B-GW042011 | Bi-214 | Filtered | 1.8 | 2.4 | 0.76 | 1.2 |
| RD-56B | SMRD-56B-GW042011 | Bi-214 | Suspended | 1.16 | 1.3 | 0.55 | 0.63 |
| RD-56B | SMRD-56B-GW042011 | Bi-214 | Total | 2.96 | NA | 0.94 | NA |
| RD-56B | SMRD-56B-GW042011 | C-14 | Total | 0.23 U R | 2.1 | 0.64 | 1 |
| RD-56B | SMRD-56B-GW042011 | Cd-113m | Filtered | -200 U | 12000 | 3500 | 5800 |
| RD-56B | SMRD-56B-GW042011 | Cd-113m | Suspended | 100 U | 4100 | 1200 | 2000 |
| RD-56B | SMRD-56B-GW042011 | Cd-113m | Total | -100 | NA | 3700 | NA |
| RD-56B | SMRD-56B-GW042011 | Cf-249 | Filtered | -0.2 U R | 5.2 | 1.5 | 2.5 |
| RD-56B | SMRD-56B-GW042011 | Cf-249 | Suspended | -0.97 U R | 2.4 | 0.73 | 1.2 |
| RD-56B | SMRD-56B-GW042011 | Cf-249 | Total | -1.1 R | NA | 1.7 | NA |
| RD-56B | SMRD-56B-GW042011 | Cm-243/244 | Filtered | 0.0116 | 0.018 | 0.0061 | 0.0064 |
| RD-56B | SMRD-56B-GW042011 | Cm-243/244 | Suspended | -0.0029 U | 0.015 | 0.0023 | 0.0053 |
| RD-56B | SMRD-56B-GW042011 | Cm-243/244 | Total | 0.0087 | NA | 0.0065 | NA |
| RD-56B | SMRD-56B-GW042011 | Cm-245/246 | Filtered | 0.01 J | 0.0054 | 0.0045 | 0.0047 |
| RD-56B | SMRD-56B-GW042011 | Cm-245/246 | Suspended | 0.0093 | 0.019 | 0.0062 | 0.0073 |
| RD-56B | SMRD-56B-GW042011 | Cm-245/246 | Total | 0.0194 J | NA | 0.0077 | NA |
| RD-56B | SMRD-56B-GW042011 | Co-60 | Filtered | 0.16 U | 1.1 | 0.33 | 0.52 |
| RD-56B | SMRD-56B-GW042011 | Co-60 | Suspended | -0.13 U | 0.66 | 0.19 | 0.31 |
| RD-56B | SMRD-56B-GW042011 | Co-60 | Total | 0.03 | NA | 0.38 | NA |
| RD-56B | SMRD-56B-GW042011 | Cs-134 | Filtered | -0.2 U | 1.2 | 0.34 | 0.56 |
| RD-56B | SMRD-56B-GW042011 | Cs-134 | Suspended | -0.18 U | 0.69 | 0.21 | 0.33 |
| RD-56B | SMRD-56B-GW042011 | Cs-134 | Total | -0.38 | NA | 0.4 | NA |
| RD-56B | SMRD-56B-GW042011 | Cs-137 | Filtered | -0.23 U | 1.1 | 0.33 | 0.53 |
| RD-56B | SMRD-56B-GW042011 | Cs-137 | Suspended | -0.04 U | 0.54 | 0.16 | 0.25 |
| RD-56B | SMRD-56B-GW042011 | Cs-137 | Total | -0.27 | NA | 0.37 | NA |
| RD-56B | SMRD-56B-GW042011 | Eu-152 | Filtered | 0.71 U | 2.7 | 0.81 | 1.3 |
| RD-56B | SMRD-56B-GW042011 | Eu-152 | Suspended | -0.01 U | 1.4 | 0.42 | 0.69 |
| RD-56B | SMRD-56B-GW042011 | Eu-152 | Total | 0.7 | NA | 0.92 | NA |
| RD-56B | SMRD-56B-GW042011 | Eu-154 | Filtered | 3.9 U | 8.7 | 2.6 | 4.1 |
| RD-56B | SMRD-56B-GW042011 | Eu-154 | Suspended | 1.7 U | 4.3 | 1.3 | 2 |
| RD-56B | SMRD-56B-GW042011 | Eu-154 | Total | 5.6 | NA | 2.9 | NA |
| RD-56B | SMRD-56B-GW042011 | Eu-155 | Filtered | 0.14 U | 2.6 | 0.78 | 1.3 |
| RD-56B | SMRD-56B-GW042011 | Eu-155 | Suspended | -0.11 U | 1 | 0.31 | 0.5 |
| RD-56B | SMRD-56B-GW042011 | Eu-155 | Total | 0.04 | NA | 0.83 | NA |
| RD-56B | SMRD-56B-GW042011 | gross_alpha | Filtered | 2.38 J | 0.57 | 0.34 | 0.31 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|--------|----------------|
| RD-56B | SMRD-56B-GW042011 | gross_alpha | Suspended | 0.21 U | 0.56 | 0.17 | 0.29 |
| RD-56B | SMRD-56B-GW042011 | gross_alpha | Total | 2.59 J | NA | 0.38 | NA |
| RD-56B | SMRD-56B-GW042011 | gross_beta | Filtered | 4.08 R | 1.1 | 0.51 | 0.64 |
| RD-56B | SMRD-56B-GW042011 | gross_beta | Suspended | 0.24 U | 0.84 | 0.25 | 0.5 |
| RD-56B | SMRD-56B-GW042011 | gross_beta | Total | 4.32 R | NA | 0.57 | NA |
| RD-56B | SMRD-56B-GW042011 | H-3 | Total | -57 U | 130 | 38 | 65 |
| RD-56B | SMRD-56B-GW042011 | Ho-166m | Filtered | 0.1 U | 1.6 | 0.47 | 0.77 |
| RD-56B | SMRD-56B-GW042011 | Ho-166m | Suspended | 0.03 U | 0.85 | 0.24 | 0.4 |
| RD-56B | SMRD-56B-GW042011 | Ho-166m | Total | 0.13 | NA | 0.53 | NA |
| RD-56B | SMRD-56B-GW042011 | I-129 | Filtered | 0.02 U | 0.63 | 0.19 | 0.31 |
| RD-56B | SMRD-56B-GW042011 | I-129 | Suspended | 0.06 U | 0.49 | 0.15 | 0.24 |
| RD-56B | SMRD-56B-GW042011 | I-129 | Total | 0.08 | NA | 0.24 | NA |
| RD-56B | SMRD-56B-GW042011 | K-40 | Filtered | 14 | 15 | 4.9 | 7 |
| RD-56B | SMRD-56B-GW042011 | K-40 | Suspended | -7.2 U | 8.9 | 7 | 4.2 |
| RD-56B | SMRD-56B-GW042011 | K-40 | Total | 6.8 | NA | 8.5 | NA |
| RD-56B | SMRD-56B-GW042011 | Na-22 | Filtered | -0.23 U | 1.3 | 0.38 | 0.6 |
| RD-56B | SMRD-56B-GW042011 | Na-22 | Suspended | 0.001 U | 0.61 | 0.17 | 0.28 |
| RD-56B | SMRD-56B-GW042011 | Na-22 | Total | -0.23 | NA | 0.41 | NA |
| RD-56B | SMRD-56B-GW042011 | Nb-94 | Filtered | 0.09 U | 1.1 | 0.31 | 0.51 |
| RD-56B | SMRD-56B-GW042011 | Nb-94 | Suspended | 0.11 U | 0.58 | 0.17 | 0.28 |
| RD-56B | SMRD-56B-GW042011 | Nb-94 | Total | 0.2 | NA | 0.36 | NA |
| RD-56B | SMRD-56B-GW042011 | Np-236 | Filtered | 0.83 U | 2.6 | 0.78 | 1.3 |
| RD-56B | SMRD-56B-GW042011 | Np-236 | Suspended | 0.2 U | 0.84 | 0.25 | 0.41 |
| RD-56B | SMRD-56B-GW042011 | Np-236 | Total | 1.03 | NA | 0.82 | NA |
| RD-56B | SMRD-56B-GW042011 | Np-237 | Filtered | -0.0035 U | 0.03 | 0.005 | 0.011 |
| RD-56B | SMRD-56B-GW042011 | Np-237 | Suspended | 0 U | 0.01 | 0.0027 | 0.0053 |
| RD-56B | SMRD-56B-GW042011 | Np-237 | Total | -0.0035 | NA | 0.0057 | NA |
| RD-56B | SMRD-56B-GW042011 | Np-239 | Filtered | -0.1 U | 7.3 | 2.1 | 3.5 |
| RD-56B | SMRD-56B-GW042011 | Np-239 | Suspended | 0.35 U | 2.8 | 0.84 | 1.4 |
| RD-56B | SMRD-56B-GW042011 | Np-239 | Total | 0.2 | NA | 2.3 | NA |
| RD-56B | SMRD-56B-GW042011 | Pa-231 | Filtered | 9 U | 48 | 14 | 23 |
| RD-56B | SMRD-56B-GW042011 | Pa-231 | Suspended | -0.6 U | 19 | 5.6 | 9.2 |
| RD-56B | SMRD-56B-GW042011 | Pa-231 | Total | 9 | NA | 15 | NA |
| RD-56B | SMRD-56B-GW042011 | Pb-212 | Filtered | 1.64 | 2.4 | 0.85 | 1.2 |
| RD-56B | SMRD-56B-GW042011 | Pb-212 | Suspended | 0.09 U | 0.88 | 0.25 | 0.43 |
| RD-56B | SMRD-56B-GW042011 | Pb-212 | Total | 1.73 | NA | 0.88 | NA |
| RD-56B | SMRD-56B-GW042011 | Pb-214 | Filtered | 0.77 U | 2.7 | 0.76 | 1.3 |
| RD-56B | SMRD-56B-GW042011 | Pb-214 | Suspended | -0.1 U | 1.1 | 0.36 | 0.54 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-56B | SMRD-56B-GW042011 | Pb-214 | Total | 0.67 | NA | 0.84 | NA |
| RD-56B | SMRD-56B-GW042011 | Pu-238 | Filtered | 0.002 U | 0.023 | 0.0059 | 0.0092 |
| RD-56B | SMRD-56B-GW042011 | Pu-238 | Suspended | 0.0138 | 0.018 | 0.0065 | 0.0071 |
| RD-56B | SMRD-56B-GW042011 | Pu-238 | Total | 0.0158 | NA | 0.0088 | NA |
| RD-56B | SMRD-56B-GW042011 | Pu-239/240 | Filtered | 0.002 U | 0.0054 | 0.002 | 0.0046 |
| RD-56B | SMRD-56B-GW042011 | Pu-239/240 | Suspended | -0.0015 U | 0.011 | 0.0017 | 0.0036 |
| RD-56B | SMRD-56B-GW042011 | Pu-239/240 | Total | 0.0005 | NA | 0.0026 | NA |
| RD-56B | SMRD-56B-GW042011 | Pu-242 | Filtered | -0.0012 U | 0.016 | 0.0032 | 0.0058 |
| RD-56B | SMRD-56B-GW042011 | Pu-242 | Suspended | 0.0031 U | 0.014 | 0.0039 | 0.0051 |
| RD-56B | SMRD-56B-GW042011 | Pu-242 | Total | 0.0019 | NA | 0.0051 | NA |
| RD-56B | SMRD-56B-GW042011 | Ra-226 | Filtered | 0.94 | 0.12 | 0.1 | 0.06 |
| RD-56B | SMRD-56B-GW042011 | Ra-226 | Suspended | 0.089 U | 0.21 | 0.063 | 0.11 |
| RD-56B | SMRD-56B-GW042011 | Ra-226 | Total | 1.03 | NA | 0.12 | NA |
| RD-56B | SMRD-56B-GW042011 | Sb-125 | Filtered | 0.9 U | 12 | 3.4 | 5.6 |
| RD-56B | SMRD-56B-GW042011 | Sb-125 | Suspended | 0 U | 4.4 | 1.3 | 2.1 |
| RD-56B | SMRD-56B-GW042011 | Sb-125 | Total | 0.9 | NA | 3.7 | NA |
| RD-56B | SMRD-56B-GW042011 | Sn-126 | Filtered | 0.28 U | 1.2 | 0.36 | 0.58 |
| RD-56B | SMRD-56B-GW042011 | Sn-126 | Suspended | -0.05 U | 0.66 | 0.19 | 0.31 |
| RD-56B | SMRD-56B-GW042011 | Sn-126 | Total | 0.23 | NA | 0.41 | NA |
| RD-56B | SMRD-56B-GW042011 | Sr-90 | Filtered | -0.062 U | 0.12 | 0.033 | 0.069 |
| RD-56B | SMRD-56B-GW042011 | Sr-90 | Suspended | 0.023 U | 0.078 | 0.023 | 0.044 |
| RD-56B | SMRD-56B-GW042011 | Sr-90 | Total | -0.04 | NA | 0.04 | NA |
| RD-56B | SMRD-56B-GW042011 | Tc-99 | Filtered | -0.15 U | 1.3 | 0.39 | 0.64 |
| RD-56B | SMRD-56B-GW042011 | Tc-99 | Suspended | -0.09 U | 1.6 | 0.47 | 0.77 |
| RD-56B | SMRD-56B-GW042011 | Tc-99 | Total | -0.24 | NA | 0.61 | NA |
| RD-56B | SMRD-56B-GW042011 | Te-125m | Filtered | 0.22 U | 2.7 | 0.79 | 1.3 |
| RD-56B | SMRD-56B-GW042011 | Te-125m | Suspended | 0 U | 1 | 0.3 | 0.49 |
| RD-56B | SMRD-56B-GW042011 | Te-125m | Total | 0.22 | NA | 0.84 | NA |
| RD-56B | SMRD-56B-GW042011 | Th-231 | Filtered | -0.0014 U | 0.012 | 0.0014 | 0.0037 |
| RD-56B | SMRD-56B-GW042011 | Th-231 | Suspended | 0.01 | 0.016 | 0.0057 | 0.005 |
| RD-56B | SMRD-56B-GW042011 | Th-231 | Total | 0.0086 | NA | 0.0058 | NA |
| RD-56B | SMRD-56B-GW042011 | Th-234 | Filtered | 7.6 U | 23 | 8.1 | 11 |
| RD-56B | SMRD-56B-GW042011 | Th-234 | Suspended | -1.3 U | 5 | 1.5 | 2.4 |
| RD-56B | SMRD-56B-GW042011 | Th-234 | Total | 6.3 | NA | 8.2 | NA |
| RD-56B | SMRD-56B-GW042011 | Tl-208 | Filtered | 0.63 | 1.3 | 0.44 | 0.63 |
| RD-56B | SMRD-56B-GW042011 | Tl-208 | Suspended | -0.18 U | 0.62 | 0.41 | 0.3 |
| RD-56B | SMRD-56B-GW042011 | Tl-208 | Total | 0.46 | NA | 0.6 | NA |
| RD-56B | SMRD-56B-GW042011 | Tm-171 | Filtered | 70 U | 340 | 100 | 170 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-56B | SMRD-56B-GW042011 | Tm-171 | Suspended | 18 U | 83 | 25 | 40 |
| RD-56B | SMRD-56B-GW042011 | Tm-171 | Total | 90 | NA | 110 | NA |
| RD-56B | SMRD-56B-GW042011 | U-233/234 | Filtered | 0.0202 | 0.0096 | 0.0066 | 0.003 |
| RD-56B | SMRD-56B-GW042011 | U-233/234 | Suspended | 0.0053 U | 0.016 | 0.0064 | 0.0056 |
| RD-56B | SMRD-56B-GW042011 | U-233/234 | Total | 0.0254 | NA | 0.0092 | NA |
| RD-56B | SMRD-56B-GW042011 | U-235/236 | Filtered | -0.0014 U | 0.012 | 0.0014 | 0.0037 |
| RD-56B | SMRD-56B-GW042011 | U-235/236 | Suspended | 0.01 | 0.016 | 0.0057 | 0.005 |
| RD-56B | SMRD-56B-GW042011 | U-235/236 | Total | 0.0086 | NA | 0.0058 | NA |
| RD-56B | SMRD-56B-GW042011 | U-238 | Filtered | 0.0175 | 0.0039 | 0.0058 | 0.003 |
| RD-56B | SMRD-56B-GW042011 | U-238 | Suspended | 0.0134 | 0.013 | 0.0068 | 0.004 |
| RD-56B | SMRD-56B-GW042011 | U-238 | Total | 0.0308 | NA | 0.0089 | NA |
| RD-57 | SMRD-57-GW033111 | Ac-227 | Filtered | -6.6 L U | 9.6 | 2.9 | 4.7 |
| RD-57 | SMRD-57-GW033111 | Ac-227 | Suspended | -2.2 U | 4.5 | 1.4 | 2.2 |
| RD-57 | SMRD-57-GW033111 | Ac-227 | Total | -8.9 L | NA | 3.2 | NA |
| RD-57 | SMRD-57-GW033111 | Ac-228 | Filtered | 3.9 | 3.9 | 1.3 | 1.8 |
| RD-57 | SMRD-57-GW033111 | Ac-228 | Suspended | 1.68 | 2.4 | 0.75 | 1.1 |
| RD-57 | SMRD-57-GW033111 | Ac-228 | Total | 5.6 | NA | 1.5 | NA |
| RD-57 | SMRD-57-GW033111 | Ag-108 | Filtered | 0.024 U R | 0.084 | 0.025 | 0.04 |
| RD-57 | SMRD-57-GW033111 | Ag-108 | Suspended | 0.003 U R | 0.055 | 0.016 | 0.026 |
| RD-57 | SMRD-57-GW033111 | Ag-108 | Total | 0.028 R | NA | 0.03 | NA |
| RD-57 | SMRD-57-GW033111 | Ag-108m | Filtered | 0.26 U R | 0.9 | 0.27 | 0.43 |
| RD-57 | SMRD-57-GW033111 | Ag-108m | Suspended | 0.03 U R | 0.59 | 0.17 | 0.28 |
| RD-57 | SMRD-57-GW033111 | Ag-108m | Total | 0.3 R | NA | 0.32 | NA |
| RD-57 | SMRD-57-GW033111 | Ba-133 | Filtered | -0.04 U R | 11 | 3.1 | 5.1 |
| RD-57 | SMRD-57-GW033111 | Ba-133 | Suspended | -1.6 U R | 7.1 | 2.1 | 3.4 |
| RD-57 | SMRD-57-GW033111 | Ba-133 | Total | -1.6 R | NA | 3.8 | NA |
| RD-57 | SMRD-57-GW033111 | Ba-137m | Filtered | -0.14 U | 1.1 | 0.31 | 0.49 |
| RD-57 | SMRD-57-GW033111 | Ba-137m | Suspended | -0.13 U | 0.71 | 0.21 | 0.33 |
| RD-57 | SMRD-57-GW033111 | Ba-137m | Total | -0.27 | NA | 0.37 | NA |
| RD-57 | SMRD-57-GW033111 | Bi-212 | Filtered | 4 U | 9.7 | 2.9 | 4.6 |
| RD-57 | SMRD-57-GW033111 | Bi-212 | Suspended | 0.8 U | 5.5 | 1.6 | 2.6 |
| RD-57 | SMRD-57-GW033111 | Bi-212 | Total | 4.7 | NA | 3.3 | NA |
| RD-57 | SMRD-57-GW033111 | Bi-214 | Filtered | 1.47 | 2.7 | 0.92 | 1.3 |
| RD-57 | SMRD-57-GW033111 | Bi-214 | Suspended | 0.35 U | 1.7 | 0.6 | 0.81 |
| RD-57 | SMRD-57-GW033111 | Bi-214 | Total | 1.8 | NA | 1.1 | NA |
| RD-57 | SMRD-57-GW033111 | Cd-113m | Filtered | 2600 U | 14000 | 4000 | 6500 |
| RD-57 | SMRD-57-GW033111 | Cd-113m | Suspended | 100 U | 7300 | 2100 | 3500 |
| RD-57 | SMRD-57-GW033111 | Cd-113m | Total | 2700 | NA | 4600 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RD-57 | SMRD-57-GW033111 | Cf-249 | Filtered | 0.2 U R | 6.2 | 1.8 | 3 |
| RD-57 | SMRD-57-GW033111 | Cf-249 | Suspended | 0.74 U R | 3.1 | 0.94 | 1.5 |
| RD-57 | SMRD-57-GW033111 | Cf-249 | Total | 1 R | NA | 2.1 | NA |
| RD-57 | SMRD-57-GW033111 | Co-60 | Filtered | 0.23 U | 1.4 | 0.39 | 0.63 |
| RD-57 | SMRD-57-GW033111 | Co-60 | Suspended | 0.12 U | 0.77 | 0.22 | 0.35 |
| RD-57 | SMRD-57-GW033111 | Co-60 | Total | 0.35 | NA | 0.45 | NA |
| RD-57 | SMRD-57-GW033111 | Cs-134 | Filtered | -0.44 U | 1.4 | 0.41 | 0.65 |
| RD-57 | SMRD-57-GW033111 | Cs-134 | Suspended | -0.22 U | 0.85 | 0.25 | 0.41 |
| RD-57 | SMRD-57-GW033111 | Cs-134 | Total | -0.66 | NA | 0.48 | NA |
| RD-57 | SMRD-57-GW033111 | Cs-137 | Filtered | -0.15 U | 1.1 | 0.32 | 0.52 |
| RD-57 | SMRD-57-GW033111 | Cs-137 | Suspended | -0.14 U | 0.75 | 0.22 | 0.35 |
| RD-57 | SMRD-57-GW033111 | Cs-137 | Total | -0.29 | NA | 0.39 | NA |
| RD-57 | SMRD-57-GW033111 | Eu-152 | Filtered | -0.5 U | 3.4 | 1 | 1.6 |
| RD-57 | SMRD-57-GW033111 | Eu-152 | Suspended | -0.05 U | 2 | 0.57 | 0.94 |
| RD-57 | SMRD-57-GW033111 | Eu-152 | Total | -0.6 | NA | 1.2 | NA |
| RD-57 | SMRD-57-GW033111 | Eu-154 | Filtered | 2 U | 9.6 | 2.8 | 4.4 |
| RD-57 | SMRD-57-GW033111 | Eu-154 | Suspended | 1.7 U | 5.2 | 1.6 | 2.4 |
| RD-57 | SMRD-57-GW033111 | Eu-154 | Total | 3.7 | NA | 3.2 | NA |
| RD-57 | SMRD-57-GW033111 | Eu-155 | Filtered | 0.95 U | 3.2 | 0.97 | 1.6 |
| RD-57 | SMRD-57-GW033111 | Eu-155 | Suspended | 0.38 U | 1.4 | 0.42 | 0.68 |
| RD-57 | SMRD-57-GW033111 | Eu-155 | Total | 1.3 | NA | 1.1 | NA |
| RD-57 | SMRD-57-GW040111 | gross_alpha | Filtered | 6.26 | 0.48 | 0.51 | 0.26 |
| RD-57 | SMRD-57-GW040111 | gross_alpha | Suspended | 0.02 U | 0.54 | 0.14 | 0.3 |
| RD-57 | SMRD-57-GW040111 | gross_alpha | Total | 6.29 | NA | 0.53 | NA |
| RD-57 | SMRD-57-GW033111 | gross_beta | Filtered | 4.24 | 2.3 | 0.87 | 1.3 |
| RD-57 | SMRD-57-GW033111 | gross_beta | Suspended | 0.67 | 0.84 | 0.27 | 0.5 |
| RD-57 | SMRD-57-GW033111 | gross_beta | Total | 4.91 | NA | 0.91 | NA |
| RD-57 | SMRD-57-GW040111 | H-3 | Total | 47 U | 120 | 36 | 58 |
| RD-57 | SMRD-57-GW033111 | Ho-166m | Filtered | -0.34 U | 1.8 | 0.53 | 0.86 |
| RD-57 | SMRD-57-GW033111 | Ho-166m | Suspended | -0.24 U | 1.3 | 0.37 | 0.59 |
| RD-57 | SMRD-57-GW033111 | Ho-166m | Total | -0.58 SK | NA | 0.65 | NA |
| RD-57 | SMRD-57-GW033111 | K-40 | Filtered | -4.9 U | 18 | 7.1 | 8.6 |
| RD-57 | SMRD-57-GW033111 | K-40 | Suspended | 4.9 | 10 | 2.7 | 4.7 |
| RD-57 | SMRD-57-GW033111 | K-40 | Total | 0.01 | NA | 7.6 | NA |
| RD-57 | SMRD-57-GW033111 | Na-22 | Filtered | -0.07 U | 1.3 | 0.38 | 0.62 |
| RD-57 | SMRD-57-GW033111 | Na-22 | Suspended | 0.03 U | 0.85 | 0.24 | 0.39 |
| RD-57 | SMRD-57-GW033111 | Na-22 | Total | -0.04 | NA | 0.45 | NA |
| RD-57 | SMRD-57-GW033111 | Nb-94 | Filtered | -0.23 U | 1.2 | 0.34 | 0.55 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-57 | SMRD-57-GW033111 | Nb-94 | Suspended | 0.18 U | 0.57 | 0.17 | 0.26 |
| RD-57 | SMRD-57-GW033111 | Nb-94 | Total | -0.05 | NA | 0.38 | NA |
| RD-57 | SMRD-57-GW033111 | Np-236 | Filtered | -0.59 U | 3 | 0.89 | 1.4 |
| RD-57 | SMRD-57-GW033111 | Np-236 | Suspended | -0.24 U | 1.4 | 0.41 | 0.67 |
| RD-57 | SMRD-57-GW033111 | Np-236 | Total | -0.83 | NA | 0.98 | NA |
| RD-57 | SMRD-57-GW033111 | Np-239 | Filtered | -1.2 U | 7.9 | 2.3 | 3.8 |
| RD-57 | SMRD-57-GW033111 | Np-239 | Suspended | -0.3 U | 3.8 | 1.1 | 1.8 |
| RD-57 | SMRD-57-GW033111 | Np-239 | Total | -1.6 | NA | 2.6 | NA |
| RD-57 | SMRD-57-GW033111 | Pa-231 | Filtered | 6 U | 51 | 15 | 25 |
| RD-57 | SMRD-57-GW033111 | Pa-231 | Suspended | -2.8 U | 29 | 8.7 | 14 |
| RD-57 | SMRD-57-GW033111 | Pa-231 | Total | 3 | NA | 17 | NA |
| RD-57 | SMRD-57-GW033111 | Pb-212 | Filtered | 1 U | 2.3 | 0.72 | 1.1 |
| RD-57 | SMRD-57-GW033111 | Pb-212 | Suspended | 0.92 | 1.4 | 0.54 | 0.66 |
| RD-57 | SMRD-57-GW033111 | Pb-212 | Total | 1.92 | NA | 0.9 | NA |
| RD-57 | SMRD-57-GW033111 | Pb-214 | Filtered | 2 | 2.3 | 0.81 | 1.1 |
| RD-57 | SMRD-57-GW033111 | Pb-214 | Suspended | 0.17 U | 1.3 | 0.42 | 0.65 |
| RD-57 | SMRD-57-GW033111 | Pb-214 | Total | 2.17 | NA | 0.91 | NA |
| RD-57 | SMRD-57-GW033111 | Sb-125 | Filtered | -1.6 U | 13 | 4 | 6.5 |
| RD-57 | SMRD-57-GW033111 | Sb-125 | Suspended | 0.08 U | 5.5 | 1.6 | 2.7 |
| RD-57 | SMRD-57-GW033111 | Sb-125 | Total | -1.5 | NA | 4.3 | NA |
| RD-57 | SMRD-57-GW033111 | Sn-126 | Filtered | -0.3 U | 1.3 | 0.38 | 0.61 |
| RD-57 | SMRD-57-GW033111 | Sn-126 | Suspended | 0.19 U | 0.78 | 0.23 | 0.37 |
| RD-57 | SMRD-57-GW033111 | Sn-126 | Total | -0.12 | NA | 0.44 | NA |
| RD-57 | SMRD-57-GW033111 | Sr-90 | Filtered | 0.07 U | 0.22 | 0.065 | 0.12 |
| RD-57 | SMRD-57-GW040111 | Sr-90 | Filtered | -0.019 U | 0.21 | 0.061 | 0.12 |
| RD-57 | SMRD-57-GW033111 | Sr-90 | Suspended | 0.031 | 0.05 | 0.016 | 0.028 |
| RD-57 | SMRD-57-GW040111 | Sr-90 | Suspended | -0.077 U | 0.22 | 0.061 | 0.12 |
| RD-57 | SMRD-57-GW033111 | Sr-90 | Total | 0.101 | NA | 0.067 | NA |
| RD-57 | SMRD-57-GW040111 | Sr-90 | Total | -0.095 | NA | 0.087 | NA |
| RD-57 | SMRD-57-GW033111 | Te-125m | Filtered | -0.36 U | 3.1 | 0.92 | 1.5 |
| RD-57 | SMRD-57-GW033111 | Te-125m | Suspended | 0.02 U | 1.3 | 0.38 | 0.62 |
| RD-57 | SMRD-57-GW033111 | Te-125m | Total | -0.34 | NA | 0.99 | NA |
| RD-57 | SMRD-57-GW033111 | Th-231 | Filtered | 0.133 | 0.007 | 0.019 | 0.005 |
| RD-57 | SMRD-57-GW033111 | Th-231 | Suspended | 0.0024 U | 0.0064 | 0.0024 | 0.0049 |
| RD-57 | SMRD-57-GW033111 | Th-231 | Total | 0.135 | NA | 0.019 | NA |
| RD-57 | SMRD-57-GW033111 | Th-234 | Filtered | 4.6 U | 22 | 7.6 | 11 |
| RD-57 | SMRD-57-GW033111 | Th-234 | Suspended | 3.6 U | 9.1 | 3.3 | 4.5 |
| RD-57 | SMRD-57-GW033111 | Th-234 | Total | 8.2 | NA | 8.3 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-57 | SMRD-57-GW033111 | Tl-208 | Filtered | 0.71 | 1.5 | 0.57 | 0.7 |
| RD-57 | SMRD-57-GW033111 | Tl-208 | Suspended | 0.18 U | 0.87 | 0.23 | 0.42 |
| RD-57 | SMRD-57-GW033111 | Tl-208 | Total | 0.89 | NA | 0.62 | NA |
| RD-57 | SMRD-57-GW033111 | Tm-171 | Filtered | 220 | 340 | 100 | 160 |
| RD-57 | SMRD-57-GW033111 | Tm-171 | Suspended | -25 U | 140 | 42 | 69 |
| RD-57 | SMRD-57-GW033111 | Tm-171 | Total | 200 | NA | 110 | NA |
| RD-57 | SMRD-57-GW033111 | U-233/234 | Filtered | 4.46 | 0.01 | 0.21 | 0.004 |
| RD-57 | SMRD-57-GW033111 | U-233/234 | Suspended | 0.0046 | 0.0051 | 0.0054 | 0.0039 |
| RD-57 | SMRD-57-GW033111 | U-233/234 | Total | 4.46 | NA | 0.21 | NA |
| RD-57 | SMRD-57-GW033111 | U-235/236 | Filtered | 0.133 | 0.007 | 0.019 | 0.005 |
| RD-57 | SMRD-57-GW033111 | U-235/236 | Suspended | 0.0024 U | 0.0064 | 0.0024 | 0.0049 |
| RD-57 | SMRD-57-GW033111 | U-235/236 | Total | 0.135 | NA | 0.019 | NA |
| RD-57 | SMRD-57-GW033111 | U-238 | Filtered | 3.55 | 0.01 | 0.17 | 0.004 |
| RD-57 | SMRD-57-GW033111 | U-238 | Suspended | -0.0041 U | 0.0051 | 0.0027 | 0.0039 |
| RD-57 | SMRD-57-GW033111 | U-238 | Total | 3.55 | NA | 0.17 | NA |
| RD-59A | SORD-59A-GW041811 | Ac-227 | Filtered | -6.2 U | 12 | 3.5 | 5.6 |
| RD-59A | SORD-59A-GW041811 | Ac-227 | Suspended | -2.9 U | 4.9 | 1.5 | 2.4 |
| RD-59A | SORD-59A-GW041811 | Ac-227 | Total | -9.1 L | NA | 3.8 | NA |
| RD-59A | SORD-59A-GW041811 | Ac-228 | Filtered | -0.3 U | 5.8 | 1.7 | 2.7 |
| RD-59A | SORD-59A-GW041811 | Ac-228 | Suspended | -0.9 U | 2.7 | 1.5 | 1.3 |
| RD-59A | SORD-59A-GW041811 | Ac-228 | Total | -1.3 | NA | 2.2 | NA |
| RD-59A | SORD-59A-GW041811 | Ag-108 | Filtered | -0.001 U R | 0.12 | 0.034 | 0.055 |
| RD-59A | SORD-59A-GW041811 | Ag-108 | Suspended | -0.011 U R | 0.05 | 0.015 | 0.024 |
| RD-59A | SORD-59A-GW041811 | Ag-108 | Total | -0.012 R | NA | 0.037 | NA |
| RD-59A | SORD-59A-GW041811 | Ag-108m | Filtered | -0.01 U R | 1.2 | 0.36 | 0.59 |
| RD-59A | SORD-59A-GW041811 | Ag-108m | Suspended | -0.11 U R | 0.54 | 0.16 | 0.26 |
| RD-59A | SORD-59A-GW041811 | Ag-108m | Total | -0.13 R | NA | 0.39 | NA |
| RD-59A | SORD-59A-GW041811 | Ba-133 | Filtered | -0.3 U R | 15 | 4.5 | 7.4 |
| RD-59A | SORD-59A-GW041811 | Ba-133 | Suspended | 0.9 U R | 5.9 | 1.8 | 2.9 |
| RD-59A | SORD-59A-GW041811 | Ba-133 | Total | 0.6 R | NA | 4.8 | NA |
| RD-59A | SORD-59A-GW041811 | Ba-137m | Filtered | -0.38 U | 1.5 | 0.43 | 0.69 |
| RD-59A | SORD-59A-GW041811 | Ba-137m | Suspended | -0.004 U | 0.72 | 0.21 | 0.34 |
| RD-59A | SORD-59A-GW041811 | Ba-137m | Total | -0.38 | NA | 0.48 | NA |
| RD-59A | SORD-59A-GW041811 | Bi-212 | Filtered | 2.9 U | 12 | 3.5 | 5.5 |
| RD-59A | SORD-59A-GW041811 | Bi-212 | Suspended | 2.7 | 5.1 | 1.6 | 2.4 |
| RD-59A | SORD-59A-GW041811 | Bi-212 | Total | 5.7 | NA | 3.8 | NA |
| RD-59A | SORD-59A-GW041811 | Bi-214 | Filtered | 0.6 U | 3.6 | 1.3 | 1.7 |
| RD-59A | SORD-59A-GW041811 | Bi-214 | Suspended | 0.4 U | 1.7 | 0.57 | 0.81 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-59A | SORD-59A-GW041811 | Bi-214 | Total | 1 | NA | 1.4 | NA |
| RD-59A | SORD-59A-GW041811 | Cd-113m | Filtered | 9700 | 14000 | 4500 | 6900 |
| RD-59A | SORD-59A-GW041811 | Cd-113m | Suspended | -900 U | 7600 | 2300 | 3700 |
| RD-59A | SORD-59A-GW041811 | Cd-113m | Total | 8800 | NA | 5000 | NA |
| RD-59A | SORD-59A-GW041811 | Cf-249 | Filtered | 4.4 R | 4.3 | 1.4 | 2 |
| RD-59A | SORD-59A-GW041811 | Cf-249 | Suspended | 0.18 U R | 2.8 | 0.83 | 1.4 |
| RD-59A | SORD-59A-GW041811 | Cf-249 | Total | 4.6 R | NA | 1.6 | NA |
| RD-59A | SORD-59A-GW041811 | Co-60 | Filtered | -0.03 U | 1.7 | 0.48 | 0.78 |
| RD-59A | SORD-59A-GW041811 | Co-60 | Suspended | 0.1 U | 0.72 | 0.21 | 0.33 |
| RD-59A | SORD-59A-GW041811 | Co-60 | Total | 0.07 | NA | 0.52 | NA |
| RD-59A | SORD-59A-GW041811 | Cs-134 | Filtered | 0.13 U | 1.6 | 0.46 | 0.75 |
| RD-59A | SORD-59A-GW041811 | Cs-134 | Suspended | -0.24 U | 0.82 | 0.24 | 0.39 |
| RD-59A | SORD-59A-GW041811 | Cs-134 | Total | -0.11 | NA | 0.52 | NA |
| RD-59A | SORD-59A-GW041811 | Cs-137 | Filtered | -0.4 U | 1.6 | 0.46 | 0.73 |
| RD-59A | SORD-59A-GW041811 | Cs-137 | Suspended | -0.004 U | 0.77 | 0.22 | 0.36 |
| RD-59A | SORD-59A-GW041811 | Cs-137 | Total | -0.4 | NA | 0.51 | NA |
| RD-59A | SORD-59A-GW041811 | Eu-152 | Filtered | 0.6 U | 4 | 1.2 | 1.9 |
| RD-59A | SORD-59A-GW041811 | Eu-152 | Suspended | -0.04 U | 1.9 | 0.56 | 0.93 |
| RD-59A | SORD-59A-GW041811 | Eu-152 | Total | 0.6 | NA | 1.3 | NA |
| RD-59A | SORD-59A-GW041811 | Eu-154 | Filtered | -0.09 U | 13 | 3.6 | 6 |
| RD-59A | SORD-59A-GW041811 | Eu-154 | Suspended | -0.002 U | 5.3 | 1.5 | 2.5 |
| RD-59A | SORD-59A-GW041811 | Eu-154 | Total | -0.1 | NA | 3.9 | NA |
| RD-59A | SORD-59A-GW041811 | Eu-155 | Filtered | -0.05 U | 3.7 | 1.1 | 1.8 |
| RD-59A | SORD-59A-GW041811 | Eu-155 | Suspended | -0.28 U | 1.3 | 0.39 | 0.64 |
| RD-59A | SORD-59A-GW041811 | Eu-155 | Total | -0.3 | NA | 1.2 | NA |
| RD-59A | SORD-59A-GW041811 | gross_alpha | Filtered | 4.01 | 0.82 | 0.52 | 0.44 |
| RD-59A | SORD-59A-GW041811 | gross_alpha | Suspended | 1.4 | 0.54 | 0.26 | 0.29 |
| RD-59A | SORD-59A-GW041811 | gross_alpha | Total | 5.41 | NA | 0.58 | NA |
| RD-59A | SORD-59A-GW041811 | gross_beta | Filtered | 2.95 | 2 | 0.7 | 1.2 |
| RD-59A | SORD-59A-GW041811 | gross_beta | Suspended | 0.84 | 0.96 | 0.31 | 0.57 |
| RD-59A | SORD-59A-GW041811 | gross_beta | Total | 3.79 | NA | 0.76 | NA |
| RD-59A | SORD-59A-GW041811 | H-3 | Total | 110 | 150 | 46 | 73 |
| RD-59A | SORD-59A-GW041811 | Ho-166m | Filtered | 0.004 U | 2.7 | 0.76 | 1.2 |
| RD-59A | SORD-59A-GW041811 | Ho-166m | Suspended | -0.002 U | 1.1 | 0.33 | 0.54 |
| RD-59A | SORD-59A-GW041811 | Ho-166m | Total | 0.002 | NA | 0.83 | NA |
| RD-59A | SORD-59A-GW041811 | K-40 | Filtered | 13.6 | 22 | 7.5 | 10 |
| RD-59A | SORD-59A-GW041811 | K-40 | Suspended | 4.4 U | 10 | 3.6 | 4.9 |
| RD-59A | SORD-59A-GW041811 | K-40 | Total | 18 | NA | 8.3 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-59A | SORD-59A-GW041811 | Na-22 | Filtered | 0.1 U | 1.3 | 0.34 | 0.56 |
| RD-59A | SORD-59A-GW041811 | Na-22 | Suspended | 0.006 U | 0.79 | 0.22 | 0.37 |
| RD-59A | SORD-59A-GW041811 | Na-22 | Total | 0.1 | NA | 0.41 | NA |
| RD-59A | SORD-59A-GW041811 | Nb-94 | Filtered | 0.4 U | 1.4 | 0.43 | 0.68 |
| RD-59A | SORD-59A-GW041811 | Nb-94 | Suspended | 0.35 | 0.58 | 0.18 | 0.28 |
| RD-59A | SORD-59A-GW041811 | Nb-94 | Total | 0.76 | NA | 0.46 | NA |
| RD-59A | SORD-59A-GW041811 | Np-236 | Filtered | 0.4 U | 3.4 | 1 | 1.7 |
| RD-59A | SORD-59A-GW041811 | Np-236 | Suspended | 0.46 U | 1.2 | 0.37 | 0.59 |
| RD-59A | SORD-59A-GW041811 | Np-236 | Total | 0.9 | NA | 1.1 | NA |
| RD-59A | SORD-59A-GW041811 | Np-239 | Filtered | -0.2 U | 9.6 | 2.8 | 4.6 |
| RD-59A | SORD-59A-GW041811 | Np-239 | Suspended | 0.5 U | 3.7 | 1.1 | 1.8 |
| RD-59A | SORD-59A-GW041811 | Np-239 | Total | 0.3 | NA | 3 | NA |
| RD-59A | SORD-59A-GW041811 | Pa-231 | Filtered | -17 U | 71 | 21 | 34 |
| RD-59A | SORD-59A-GW041811 | Pa-231 | Suspended | -0.5 U | 25 | 7.4 | 12 |
| RD-59A | SORD-59A-GW041811 | Pa-231 | Total | -17 | NA | 22 | NA |
| RD-59A | SORD-59A-GW041811 | Pb-212 | Filtered | 1.2 U | 2.9 | 1 | 1.4 |
| RD-59A | SORD-59A-GW041811 | Pb-212 | Suspended | 0.6 | 1.1 | 0.39 | 0.54 |
| RD-59A | SORD-59A-GW041811 | Pb-212 | Total | 1.8 | NA | 1.1 | NA |
| RD-59A | SORD-59A-GW041811 | Pb-214 | Filtered | 0.57 U | 3.1 | 0.99 | 1.5 |
| RD-59A | SORD-59A-GW041811 | Pb-214 | Suspended | -0.26 U | 1.7 | 0.56 | 0.82 |
| RD-59A | SORD-59A-GW041811 | Pb-214 | Total | 0.3 | NA | 1.1 | NA |
| RD-59A | SORD-59A-GW041811 | Sb-125 | Filtered | -1.6 U | 15 | 4.5 | 7.4 |
| RD-59A | SORD-59A-GW041811 | Sb-125 | Suspended | -2 U | 5.9 | 1.8 | 2.9 |
| RD-59A | SORD-59A-GW041811 | Sb-125 | Total | -3.6 | NA | 4.8 | NA |
| RD-59A | SORD-59A-GW041811 | Sn-126 | Filtered | -0.03 U | 1.5 | 0.43 | 0.71 |
| RD-59A | SORD-59A-GW041811 | Sn-126 | Suspended | 0.28 U | 0.73 | 0.22 | 0.35 |
| RD-59A | SORD-59A-GW041811 | Sn-126 | Total | 0.25 | NA | 0.49 | NA |
| RD-59A | SORD-59A-GW041811 | Sr-90 | Filtered | 0.005 U | 0.085 | 0.025 | 0.049 |
| RD-59A | SORD-59A-GW041811 | Sr-90 | Suspended | -0.002 U | 0.065 | 0.019 | 0.035 |
| RD-59A | SORD-59A-GW041811 | Sr-90 | Total | 0.003 | NA | 0.031 | NA |
| RD-59A | SORD-59A-GW041811 | Te-125m | Filtered | -0.4 U | 3.5 | 1 | 1.7 |
| RD-59A | SORD-59A-GW041811 | Te-125m | Suspended | -0.46 U | 1.4 | 0.41 | 0.66 |
| RD-59A | SORD-59A-GW041811 | Te-125m | Total | -0.8 | NA | 1.1 | NA |
| RD-59A | SORD-59A-GW041811 | Th-231 | Filtered | 0.0355 | 0.0074 | 0.01 | 0.0057 |
| RD-59A | SORD-59A-GW041811 | Th-231 | Suspended | 0.0052 U | 0.0071 | 0.0037 | 0.0054 |
| RD-59A | SORD-59A-GW041811 | Th-231 | Total | 0.041 | NA | 0.011 | NA |
| RD-59A | SORD-59A-GW041811 | Th-234 | Filtered | 14 | 28 | 10 | 14 |
| RD-59A | SORD-59A-GW041811 | Th-234 | Suspended | -1.2 U | 7.1 | 2.3 | 3.4 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-59A | SORD-59A-GW041811 | Th-234 | Total | 13 | NA | 10 | NA |
| RD-59A | SORD-59A-GW041811 | Tl-208 | Filtered | 1.56 | 1.7 | 0.67 | 0.83 |
| RD-59A | SORD-59A-GW041811 | Tl-208 | Suspended | 0.15 U | 0.83 | 0.23 | 0.4 |
| RD-59A | SORD-59A-GW041811 | Tl-208 | Total | 1.71 | NA | 0.71 | NA |
| RD-59A | SORD-59A-GW041811 | Tm-171 | Filtered | 150 U | 450 | 140 | 220 |
| RD-59A | SORD-59A-GW041811 | Tm-171 | Suspended | 2 U | 120 | 35 | 58 |
| RD-59A | SORD-59A-GW041811 | Tm-171 | Total | 150 | NA | 140 | NA |
| RD-59A | SORD-59A-GW041811 | U-233/234 | Filtered | 0.922 | 0.018 | 0.06 | 0.006 |
| RD-59A | SORD-59A-GW041811 | U-233/234 | Suspended | -0.0034 U | 0.02 | 0.0059 | 0.0075 |
| RD-59A | SORD-59A-GW041811 | U-233/234 | Total | 0.919 | NA | 0.06 | NA |
| RD-59A | SORD-59A-GW041811 | U-235/236 | Filtered | 0.0355 | 0.0074 | 0.01 | 0.0057 |
| RD-59A | SORD-59A-GW041811 | U-235/236 | Suspended | 0.0052 U | 0.0071 | 0.0037 | 0.0054 |
| RD-59A | SORD-59A-GW041811 | U-235/236 | Total | 0.041 | NA | 0.011 | NA |
| RD-59A | SORD-59A-GW041811 | U-238 | Filtered | 0.607 | 0.015 | 0.045 | 0.005 |
| RD-59A | SORD-59A-GW041811 | U-238 | Suspended | 0.0107 | 0.0057 | 0.0063 | 0.0043 |
| RD-59A | SORD-59A-GW041811 | U-238 | Total | 0.618 | NA | 0.045 | NA |
| RD-59B | SORD-59B-GW041811 | Ac-227 | Filtered | 0 U | 10 | 3.1 | 5.1 |
| RD-59B | SORD-59B-GW041811 | Ac-227 | Suspended | -1.3 U | 4.2 | 1.3 | 2 |
| RD-59B | SORD-59B-GW041811 | Ac-227 | Total | -1.3 | NA | 3.4 | NA |
| RD-59B | SORD-59B-GW041811 | Ac-228 | Filtered | 3.1 | 3.7 | 1.2 | 1.7 |
| RD-59B | SORD-59B-GW041811 | Ac-228 | Suspended | 0.35 U | 2.7 | 0.78 | 1.3 |
| RD-59B | SORD-59B-GW041811 | Ac-228 | Total | 3.5 | NA | 1.4 | NA |
| RD-59B | SORD-59B-GW041811 | Ag-108 | Filtered | 0 U R | 0.095 | 0.027 | 0.045 |
| RD-59B | SORD-59B-GW041811 | Ag-108 | Suspended | 0.014 U R | 0.039 | 0.012 | 0.018 |
| RD-59B | SORD-59B-GW041811 | Ag-108 | Total | 0.014 R | NA | 0.03 | NA |
| RD-59B | SORD-59B-GW041811 | Ag-108m | Filtered | 0 U R | 1 | 0.29 | 0.48 |
| RD-59B | SORD-59B-GW041811 | Ag-108m | Suspended | 0.15 U R | 0.42 | 0.13 | 0.2 |
| RD-59B | SORD-59B-GW041811 | Ag-108m | Total | 0.15 R | NA | 0.32 | NA |
| RD-59B | SORD-59B-GW041811 | Ba-133 | Filtered | 1.5 U R | 11 | 3.4 | 5.5 |
| RD-59B | SORD-59B-GW041811 | Ba-133 | Suspended | 1.7 U R | 4.2 | 1.3 | 2 |
| RD-59B | SORD-59B-GW041811 | Ba-133 | Total | 3.2 R | NA | 3.6 | NA |
| RD-59B | SORD-59B-GW041811 | Ba-137m | Filtered | -0.12 U | 1.2 | 0.34 | 0.55 |
| RD-59B | SORD-59B-GW041811 | Ba-137m | Suspended | 0.32 | 0.68 | 0.21 | 0.32 |
| RD-59B | SORD-59B-GW041811 | Ba-137m | Total | 0.2 | NA | 0.4 | NA |
| RD-59B | SORD-59B-GW041811 | Bi-212 | Filtered | 3.5 U | 8.7 | 2.6 | 4.1 |
| RD-59B | SORD-59B-GW041811 | Bi-212 | Suspended | -0.05 U | 5.4 | 1.5 | 2.5 |
| RD-59B | SORD-59B-GW041811 | Bi-212 | Total | 3.4 | NA | 3 | NA |
| RD-59B | SORD-59B-GW041811 | Bi-214 | Filtered | 0.4 U | 2.8 | 1 | 1.3 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-59B | SORD-59B-GW041811 | Bi-214 | Suspended | 0.81 | 1.3 | 0.43 | 0.6 |
| RD-59B | SORD-59B-GW041811 | Bi-214 | Total | 1.2 | NA | 1.1 | NA |
| RD-59B | SORD-59B-GW041811 | Cd-113m | Filtered | -3200 U | 15000 | 4500 | 7200 |
| RD-59B | SORD-59B-GW041811 | Cd-113m | Suspended | 40 U | 6500 | 1900 | 3100 |
| RD-59B | SORD-59B-GW041811 | Cd-113m | Total | -3200 | NA | 4800 | NA |
| RD-59B | SORD-59B-GW041811 | Cf-249 | Filtered | 0 U R | 5.9 | 1.7 | 2.8 |
| RD-59B | SORD-59B-GW041811 | Cf-249 | Suspended | 0.44 U R | 2.8 | 0.81 | 1.3 |
| RD-59B | SORD-59B-GW041811 | Cf-249 | Total | 0.4 R | NA | 1.9 | NA |
| RD-59B | SORD-59B-GW041811 | Co-60 | Filtered | 0 U | 1.9 | 0.55 | 0.91 |
| RD-59B | SORD-59B-GW041811 | Co-60 | Suspended | 0.16 U | 0.63 | 0.18 | 0.28 |
| RD-59B | SORD-59B-GW041811 | Co-60 | Total | 0.16 | NA | 0.58 | NA |
| RD-59B | SORD-59B-GW041811 | Cs-134 | Filtered | 0.39 U | 1.2 | 0.35 | 0.55 |
| RD-59B | SORD-59B-GW041811 | Cs-134 | Suspended | 0.17 U | 0.61 | 0.18 | 0.29 |
| RD-59B | SORD-59B-GW041811 | Cs-134 | Total | 0.56 | NA | 0.39 | NA |
| RD-59B | SORD-59B-GW041811 | Cs-137 | Filtered | -0.12 U | 1.2 | 0.36 | 0.58 |
| RD-59B | SORD-59B-GW041811 | Cs-137 | Suspended | 0.34 | 0.72 | 0.22 | 0.34 |
| RD-59B | SORD-59B-GW041811 | Cs-137 | Total | 0.21 | NA | 0.42 | NA |
| RD-59B | SORD-59B-GW041811 | Eu-152 | Filtered | 0.82 U | 3.2 | 0.96 | 1.5 |
| RD-59B | SORD-59B-GW041811 | Eu-152 | Suspended | -0.02 U | 1.2 | 0.35 | 0.58 |
| RD-59B | SORD-59B-GW041811 | Eu-152 | Total | 0.8 | NA | 1 | NA |
| RD-59B | SORD-59B-GW041811 | Eu-154 | Filtered | 1.9 U | 9 | 2.6 | 4.2 |
| RD-59B | SORD-59B-GW041811 | Eu-154 | Suspended | 0.2 U | 5.6 | 1.6 | 2.6 |
| RD-59B | SORD-59B-GW041811 | Eu-154 | Total | 2.2 | NA | 3.1 | NA |
| RD-59B | SORD-59B-GW041811 | Eu-155 | Filtered | -0.4 U | 3.4 | 1 | 1.6 |
| RD-59B | SORD-59B-GW041811 | Eu-155 | Suspended | 0.17 U | 1 | 0.31 | 0.5 |
| RD-59B | SORD-59B-GW041811 | Eu-155 | Total | -0.3 | NA | 1.1 | NA |
| RD-59B | SORD-59B-GW041811 | gross_alpha | Filtered | 2.19 | 0.42 | 0.28 | 0.22 |
| RD-59B | SORD-59B-GW041811 | gross_alpha | Suspended | 0.05 U | 0.52 | 0.14 | 0.28 |
| RD-59B | SORD-59B-GW041811 | gross_alpha | Total | 2.24 | NA | 0.32 | NA |
| RD-59B | SORD-59B-GW041811 | gross_beta | Filtered | 1.69 | 1.2 | 0.41 | 0.69 |
| RD-59B | SORD-59B-GW041811 | gross_beta | Suspended | 0.37 U | 0.82 | 0.25 | 0.49 |
| RD-59B | SORD-59B-GW041811 | gross_beta | Total | 2.06 | NA | 0.48 | NA |
| RD-59B | SORD-59B-GW041811 | H-3 | Total | 2 U | 160 | 46 | 76 |
| RD-59B | SORD-59B-GW041811 | Ho-166m | Filtered | 0.23 U | 1.7 | 0.5 | 0.8 |
| RD-59B | SORD-59B-GW041811 | Ho-166m | Suspended | 0.05 U | 1.1 | 0.31 | 0.5 |
| RD-59B | SORD-59B-GW041811 | Ho-166m | Total | 0.28 | NA | 0.58 | NA |
| RD-59B | SORD-59B-GW041811 | K-40 | Filtered | -6.6 U | 18 | 8.1 | 8.4 |
| RD-59B | SORD-59B-GW041811 | K-40 | Suspended | -3.8 U | 10 | 5.2 | 4.8 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-59B | SORD-59B-GW041811 | K-40 | Total | -10.4 | NA | 9.7 | NA |
| RD-59B | SORD-59B-GW041811 | Na-22 | Filtered | 0.002 U | 1.3 | 0.36 | 0.59 |
| RD-59B | SORD-59B-GW041811 | Na-22 | Suspended | 0.02 U | 0.86 | 0.24 | 0.39 |
| RD-59B | SORD-59B-GW041811 | Na-22 | Total | 0.02 | NA | 0.43 | NA |
| RD-59B | SORD-59B-GW041811 | Nb-94 | Filtered | -0.07 U | 1.2 | 0.34 | 0.55 |
| RD-59B | SORD-59B-GW041811 | Nb-94 | Suspended | 0.02 U | 0.59 | 0.17 | 0.27 |
| RD-59B | SORD-59B-GW041811 | Nb-94 | Total | -0.05 | NA | 0.38 | NA |
| RD-59B | SORD-59B-GW041811 | Np-236 | Filtered | -0.53 U | 2.9 | 0.88 | 1.4 |
| RD-59B | SORD-59B-GW041811 | Np-236 | Suspended | -0.02 U | 1 | 0.31 | 0.5 |
| RD-59B | SORD-59B-GW041811 | Np-236 | Total | -0.55 | NA | 0.93 | NA |
| RD-59B | SORD-59B-GW041811 | Np-239 | Filtered | 0.3 U | 7 | 2 | 3.4 |
| RD-59B | SORD-59B-GW041811 | Np-239 | Suspended | -0.09 U | 3.2 | 0.93 | 1.5 |
| RD-59B | SORD-59B-GW041811 | Np-239 | Total | 0.2 | NA | 2.2 | NA |
| RD-59B | SORD-59B-GW041811 | Pa-231 | Filtered | 7 U | 51 | 15 | 24 |
| RD-59B | SORD-59B-GW041811 | Pa-231 | Suspended | -8 U | 26 | 7.9 | 13 |
| RD-59B | SORD-59B-GW041811 | Pa-231 | Total | -0.5 | NA | 17 | NA |
| RD-59B | SORD-59B-GW041811 | Pb-212 | Filtered | -0.06 U | 2.3 | 0.69 | 1.1 |
| RD-59B | SORD-59B-GW041811 | Pb-212 | Suspended | 0.47 U | 1.1 | 0.37 | 0.52 |
| RD-59B | SORD-59B-GW041811 | Pb-212 | Total | 0.42 | NA | 0.78 | NA |
| RD-59B | SORD-59B-GW041811 | Pb-214 | Filtered | -0.07 U | 2.8 | 0.8 | 1.3 |
| RD-59B | SORD-59B-GW041811 | Pb-214 | Suspended | -0.09 U | 1.4 | 0.4 | 0.67 |
| RD-59B | SORD-59B-GW041811 | Pb-214 | Total | -0.16 | NA | 0.9 | NA |
| RD-59B | SORD-59B-GW041811 | Sb-125 | Filtered | -0.2 U | 12 | 3.7 | 6 |
| RD-59B | SORD-59B-GW041811 | Sb-125 | Suspended | -0.1 U | 3.8 | 1.1 | 1.8 |
| RD-59B | SORD-59B-GW041811 | Sb-125 | Total | -0.3 | NA | 3.8 | NA |
| RD-59B | SORD-59B-GW041811 | Sn-126 | Filtered | 0.74 | 1.2 | 0.38 | 0.58 |
| RD-59B | SORD-59B-GW041811 | Sn-126 | Suspended | 0.21 U | 0.71 | 0.21 | 0.33 |
| RD-59B | SORD-59B-GW041811 | Sn-126 | Total | 0.95 | NA | 0.43 | NA |
| RD-59B | SORD-59B-GW041811 | Sr-90 | Filtered | -0.012 U | 0.096 | 0.028 | 0.055 |
| RD-59B | SORD-59B-GW041811 | Sr-90 | Suspended | 0.016 U | 0.06 | 0.018 | 0.032 |
| RD-59B | SORD-59B-GW041811 | Sr-90 | Total | 0.004 | NA | 0.033 | NA |
| RD-59B | SORD-59B-GW041811 | Te-125m | Filtered | -0.04 U | 2.9 | 0.85 | 1.4 |
| RD-59B | SORD-59B-GW041811 | Te-125m | Suspended | -0.02 U | 0.87 | 0.25 | 0.41 |
| RD-59B | SORD-59B-GW041811 | Te-125m | Total | -0.07 | NA | 0.88 | NA |
| RD-59B | SORD-59B-GW041811 | Th-231 | Filtered | 0.0028 U | 0.015 | 0.0037 | 0.0048 |
| RD-59B | SORD-59B-GW041811 | Th-231 | Suspended | 0.0005 U | 0.016 | 0.0031 | 0.0051 |
| RD-59B | SORD-59B-GW041811 | Th-231 | Total | 0.0033 | NA | 0.0049 | NA |
| RD-59B | SORD-59B-GW041811 | Th-234 | Filtered | 8.9 U | 20 | 6.8 | 9.9 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-59B | SORD-59B-GW041811 | Th-234 | Suspended | 4.5 | 6.9 | 2.5 | 3.3 |
| RD-59B | SORD-59B-GW041811 | Th-234 | Total | 13.4 | NA | 7.2 | NA |
| RD-59B | SORD-59B-GW041811 | Tl-208 | Filtered | 0.97 | 1.5 | 0.58 | 0.71 |
| RD-59B | SORD-59B-GW041811 | Tl-208 | Suspended | -0.18 U | 0.9 | 0.4 | 0.43 |
| RD-59B | SORD-59B-GW041811 | Tl-208 | Total | 0.79 | NA | 0.71 | NA |
| RD-59B | SORD-59B-GW041811 | Tm-171 | Filtered | 170 | 340 | 100 | 170 |
| RD-59B | SORD-59B-GW041811 | Tm-171 | Suspended | -2 U | 100 | 30 | 49 |
| RD-59B | SORD-59B-GW041811 | Tm-171 | Total | 170 | NA | 110 | NA |
| RD-59B | SORD-59B-GW041811 | U-233/234 | Filtered | 0.209 | 0.012 | 0.022 | 0.004 |
| RD-59B | SORD-59B-GW041811 | U-233/234 | Suspended | 0.009 | 0.0053 | 0.0063 | 0.0041 |
| RD-59B | SORD-59B-GW041811 | U-233/234 | Total | 0.218 | NA | 0.023 | NA |
| RD-59B | SORD-59B-GW041811 | U-235/236 | Filtered | 0.0028 U | 0.015 | 0.0037 | 0.0048 |
| RD-59B | SORD-59B-GW041811 | U-235/236 | Suspended | 0.0005 U | 0.016 | 0.0031 | 0.0051 |
| RD-59B | SORD-59B-GW041811 | U-235/236 | Total | 0.0033 | NA | 0.0049 | NA |
| RD-59B | SORD-59B-GW041811 | U-238 | Filtered | 0.135 | 0.005 | 0.017 | 0.004 |
| RD-59B | SORD-59B-GW041811 | U-238 | Suspended | -0.0021 U | 0.0053 | 0.0034 | 0.0041 |
| RD-59B | SORD-59B-GW041811 | U-238 | Total | 0.133 | NA | 0.018 | NA |
| RD-59C | SORD-59C-GW041811 | Ac-227 | Filtered | 0.1 U | 12 | 3.4 | 5.7 |
| RD-59C | SORD-59C-GW041811 | Ac-227 | Suspended | -2.2 U | 4.4 | 1.3 | 2.1 |
| RD-59C | SORD-59C-GW041811 | Ac-227 | Total | -2.1 | NA | 3.7 | NA |
| RD-59C | SORD-59C-GW041811 | Ac-228 | Filtered | 5.5 | 3.8 | 1.2 | 1.8 |
| RD-59C | SORD-59C-GW041811 | Ac-228 | Suspended | -3 U | 3 | 39 | 2 |
| RD-59C | SORD-59C-GW041811 | Ac-228 | Total | 2 | NA | 39 | NA |
| RD-59C | SORD-59C-GW041811 | Ag-108 | Filtered | -0.02 U R | 0.091 | 0.027 | 0.043 |
| RD-59C | SORD-59C-GW041811 | Ag-108 | Suspended | 0.018 U R | 0.043 | 0.013 | 0.02 |
| RD-59C | SORD-59C-GW041811 | Ag-108 | Total | -0.002 R | NA | 0.03 | NA |
| RD-59C | SORD-59C-GW041811 | Ag-108m | Filtered | -0.22 U R | 0.98 | 0.29 | 0.46 |
| RD-59C | SORD-59C-GW041811 | Ag-108m | Suspended | 0.19 U R | 0.46 | 0.14 | 0.22 |
| RD-59C | SORD-59C-GW041811 | Ag-108m | Total | -0.02 R | NA | 0.32 | NA |
| RD-59C | SORD-59C-GW041811 | Ba-133 | Filtered | -2.8 U R | 12 | 3.6 | 5.8 |
| RD-59C | SORD-59C-GW041811 | Ba-133 | Suspended | 0.3 U R | 5.2 | 1.5 | 2.5 |
| RD-59C | SORD-59C-GW041811 | Ba-133 | Total | -2.5 R | NA | 3.9 | NA |
| RD-59C | SORD-59C-GW041811 | Ba-137m | Filtered | 0.007 U | 1.2 | 0.33 | 0.55 |
| RD-59C | SORD-59C-GW041811 | Ba-137m | Suspended | 0.25 U | 0.66 | 0.2 | 0.31 |
| RD-59C | SORD-59C-GW041811 | Ba-137m | Total | 0.26 | NA | 0.39 | NA |
| RD-59C | SORD-59C-GW041811 | Bi-212 | Filtered | 4.2 U | 9.5 | 2.9 | 4.5 |
| RD-59C | SORD-59C-GW041811 | Bi-212 | Suspended | -0.3 U | 5.1 | 1.5 | 2.4 |
| RD-59C | SORD-59C-GW041811 | Bi-212 | Total | 3.9 | NA | 3.2 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-59C | SORD-59C-GW041811 | Bi-214 | Filtered | 3.35 | 2.5 | 0.91 | 1.2 |
| RD-59C | SORD-59C-GW041811 | Bi-214 | Suspended | 2.26 | 1.7 | 0.65 | 0.82 |
| RD-59C | SORD-59C-GW041811 | Bi-214 | Total | 5.6 | NA | 1.1 | NA |
| RD-59C | SORD-59C-GW041811 | Cd-113m | Filtered | -2800 U | 15000 | 4300 | 7000 |
| RD-59C | SORD-59C-GW041811 | Cd-113m | Suspended | -600 U | 7000 | 2100 | 3400 |
| RD-59C | SORD-59C-GW041811 | Cd-113m | Total | -3500 | NA | 4800 | NA |
| RD-59C | SORD-59C-GW041811 | Cf-249 | Filtered | 0.3 U R | 5.7 | 1.7 | 2.7 |
| RD-59C | SORD-59C-GW041811 | Cf-249 | Suspended | -0.03 U R | 2.9 | 0.85 | 1.4 |
| RD-59C | SORD-59C-GW041811 | Cf-249 | Total | 0.3 R | NA | 1.9 | NA |
| RD-59C | SORD-59C-GW041811 | Co-60 | Filtered | 0.03 U | 1.3 | 0.37 | 0.6 |
| RD-59C | SORD-59C-GW041811 | Co-60 | Suspended | 0.26 U | 0.66 | 0.2 | 0.3 |
| RD-59C | SORD-59C-GW041811 | Co-60 | Total | 0.29 | NA | 0.41 | NA |
| RD-59C | SORD-59C-GW041811 | Cs-134 | Filtered | -0.51 U | 1.4 | 0.41 | 0.65 |
| RD-59C | SORD-59C-GW041811 | Cs-134 | Suspended | -0.13 U | 0.75 | 0.22 | 0.36 |
| RD-59C | SORD-59C-GW041811 | Cs-134 | Total | -0.64 | NA | 0.46 | NA |
| RD-59C | SORD-59C-GW041811 | Cs-137 | Filtered | 0.007 U | 1.2 | 0.35 | 0.58 |
| RD-59C | SORD-59C-GW041811 | Cs-137 | Suspended | 0.27 U | 0.7 | 0.21 | 0.33 |
| RD-59C | SORD-59C-GW041811 | Cs-137 | Total | 0.27 | NA | 0.41 | NA |
| RD-59C | SORD-59C-GW041811 | Eu-152 | Filtered | 0.83 U | 3.2 | 0.95 | 1.5 |
| RD-59C | SORD-59C-GW041811 | Eu-152 | Suspended | 0.16 U | 1.8 | 0.52 | 0.86 |
| RD-59C | SORD-59C-GW041811 | Eu-152 | Total | 1 | NA | 1.1 | NA |
| RD-59C | SORD-59C-GW041811 | Eu-154 | Filtered | -0.6 U | 9.2 | 2.6 | 4.3 |
| RD-59C | SORD-59C-GW041811 | Eu-154 | Suspended | 1.3 U | 5.9 | 1.7 | 2.8 |
| RD-59C | SORD-59C-GW041811 | Eu-154 | Total | 0.7 | NA | 3.1 | NA |
| RD-59C | SORD-59C-GW041811 | Eu-155 | Filtered | 0.48 U | 2.3 | 0.68 | 1.1 |
| RD-59C | SORD-59C-GW041811 | Eu-155 | Suspended | -0.56 U | 1.3 | 0.38 | 0.61 |
| RD-59C | SORD-59C-GW041811 | Eu-155 | Total | -0.09 | NA | 0.78 | NA |
| RD-59C | SORD-59C-GW041811 | gross_alpha | Filtered | 1.83 | 0.43 | 0.27 | 0.22 |
| RD-59C | SORD-59C-GW041811 | gross_alpha | Suspended | 0.3 | 0.48 | 0.15 | 0.26 |
| RD-59C | SORD-59C-GW041811 | gross_alpha | Total | 2.13 | NA | 0.31 | NA |
| RD-59C | SORD-59C-GW041811 | gross_beta | Filtered | 2.65 | 2.2 | 0.76 | 1.3 |
| RD-59C | SORD-59C-GW041811 | gross_beta | Suspended | 0.006 U | 0.85 | 0.25 | 0.51 |
| RD-59C | SORD-59C-GW041811 | gross_beta | Total | 2.66 | NA | 0.8 | NA |
| RD-59C | SORD-59C-GW041811 | H-3 | Total | -10 U | 140 | 42 | 69 |
| RD-59C | SORD-59C-GW041811 | Ho-166m | Filtered | 0.4 U | 1.9 | 0.56 | 0.89 |
| RD-59C | SORD-59C-GW041811 | Ho-166m | Suspended | 0.29 U | 0.99 | 0.29 | 0.47 |
| RD-59C | SORD-59C-GW041811 | Ho-166m | Total | 0.69 | NA | 0.63 | NA |
| RD-59C | SORD-59C-GW041811 | K-40 | Filtered | -13 U | 19 | 23 | 9 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-59C | SORD-59C-GW041811 | K-40 | Suspended | 2.4 U | 12 | 3.1 | 5.7 |
| RD-59C | SORD-59C-GW041811 | K-40 | Total | -11 | NA | 23 | NA |
| RD-59C | SORD-59C-GW041811 | Na-22 | Filtered | -0.1 U | 1.3 | 0.38 | 0.61 |
| RD-59C | SORD-59C-GW041811 | Na-22 | Suspended | -0.03 U | 0.77 | 0.22 | 0.36 |
| RD-59C | SORD-59C-GW041811 | Na-22 | Total | -0.13 | NA | 0.44 | NA |
| RD-59C | SORD-59C-GW041811 | Nb-94 | Filtered | 0.28 U | 1.1 | 0.32 | 0.51 |
| RD-59C | SORD-59C-GW041811 | Nb-94 | Suspended | 0.13 U | 0.61 | 0.18 | 0.29 |
| RD-59C | SORD-59C-GW041811 | Nb-94 | Total | 0.41 | NA | 0.37 | NA |
| RD-59C | SORD-59C-GW041811 | Np-236 | Filtered | -0.86 U | 3.1 | 0.92 | 1.5 |
| RD-59C | SORD-59C-GW041811 | Np-236 | Suspended | 0.23 U | 1.1 | 0.34 | 0.55 |
| RD-59C | SORD-59C-GW041811 | Np-236 | Total | -0.63 | NA | 0.98 | NA |
| RD-59C | SORD-59C-GW041811 | Np-239 | Filtered | 0.7 U | 7.4 | 2.2 | 3.6 |
| RD-59C | SORD-59C-GW041811 | Np-239 | Suspended | -1.1 U | 3.8 | 1.1 | 1.9 |
| RD-59C | SORD-59C-GW041811 | Np-239 | Total | -0.4 | NA | 2.5 | NA |
| RD-59C | SORD-59C-GW041811 | Pa-231 | Filtered | -0.4 U | 55 | 16 | 27 |
| RD-59C | SORD-59C-GW041811 | Pa-231 | Suspended | -10.8 U | 27 | 8.3 | 13 |
| RD-59C | SORD-59C-GW041811 | Pa-231 | Total | -11 | NA | 18 | NA |
| RD-59C | SORD-59C-GW041811 | Pb-212 | Filtered | -0.65 U | 2.3 | 0.89 | 1.1 |
| RD-59C | SORD-59C-GW041811 | Pb-212 | Suspended | -0.22 U | 1.1 | 0.43 | 0.53 |
| RD-59C | SORD-59C-GW041811 | Pb-212 | Total | -0.86 | NA | 0.99 | NA |
| RD-59C | SORD-59C-GW041811 | Pb-214 | Filtered | 0.06 U | 2.8 | 0.76 | 1.3 |
| RD-59C | SORD-59C-GW041811 | Pb-214 | Suspended | 0.43 U | 1.5 | 0.41 | 0.72 |
| RD-59C | SORD-59C-GW041811 | Pb-214 | Total | 0.49 | NA | 0.86 | NA |
| RD-59C | SORD-59C-GW041811 | Sb-125 | Filtered | 4.2 U | 13 | 3.9 | 6.2 |
| RD-59C | SORD-59C-GW041811 | Sb-125 | Suspended | 1.1 U | 5.6 | 1.7 | 2.7 |
| RD-59C | SORD-59C-GW041811 | Sb-125 | Total | 5.3 | NA | 4.2 | NA |
| RD-59C | SORD-59C-GW041811 | Sn-126 | Filtered | -0.18 U | 1.3 | 0.39 | 0.63 |
| RD-59C | SORD-59C-GW041811 | Sn-126 | Suspended | -0.04 U | 0.86 | 0.25 | 0.41 |
| RD-59C | SORD-59C-GW041811 | Sn-126 | Total | -0.21 | NA | 0.46 | NA |
| RD-59C | SORD-59C-GW041811 | Sr-90 | Filtered | 0.006 U | 0.071 | 0.021 | 0.04 |
| RD-59C | SORD-59C-GW041811 | Sr-90 | Suspended | 0.005 U | 0.058 | 0.017 | 0.031 |
| RD-59C | SORD-59C-GW041811 | Sr-90 | Total | 0.012 | NA | 0.027 | NA |
| RD-59C | SORD-59C-GW041811 | Te-125m | Filtered | 0.97 U | 3 | 0.89 | 1.4 |
| RD-59C | SORD-59C-GW041811 | Te-125m | Suspended | 0.25 U | 1.3 | 0.39 | 0.63 |
| RD-59C | SORD-59C-GW041811 | Te-125m | Total | 1.22 | NA | 0.97 | NA |
| RD-59C | SORD-59C-GW041811 | Th-231 | Filtered | 0 U | 0.0072 | 0.0021 | 0.0055 |
| RD-59C | SORD-59C-GW041811 | Th-231 | Suspended | -0.0014 U | 0.02 | 0.0036 | 0.0071 |
| RD-59C | SORD-59C-GW041811 | Th-231 | Total | -0.0014 | NA | 0.0042 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-59C | SORD-59C-GW041811 | Th-234 | Filtered | 9.3 U | 23 | 8.4 | 11 |
| RD-59C | SORD-59C-GW041811 | Th-234 | Suspended | 0.8 U | 8.8 | 2.7 | 4.3 |
| RD-59C | SORD-59C-GW041811 | Th-234 | Total | 10.2 | NA | 8.9 | NA |
| RD-59C | SORD-59C-GW041811 | Tl-208 | Filtered | 0.01 U | 1.4 | 0.45 | 0.65 |
| RD-59C | SORD-59C-GW041811 | Tl-208 | Suspended | 0.009 U | 0.78 | 0.27 | 0.38 |
| RD-59C | SORD-59C-GW041811 | Tl-208 | Total | 0.02 | NA | 0.52 | NA |
| RD-59C | SORD-59C-GW041811 | Tm-171 | Filtered | 70 U | 350 | 100 | 170 |
| RD-59C | SORD-59C-GW041811 | Tm-171 | Suspended | 0.6 U | 120 | 35 | 58 |
| RD-59C | SORD-59C-GW041811 | Tm-171 | Total | 70 | NA | 110 | NA |
| RD-59C | SORD-59C-GW041811 | U-233/234 | Filtered | 0.222 | 0.014 | 0.024 | 0.004 |
| RD-59C | SORD-59C-GW041811 | U-233/234 | Suspended | -0.001 U | 0.0052 | 0.0043 | 0.004 |
| RD-59C | SORD-59C-GW041811 | U-233/234 | Total | 0.221 | NA | 0.025 | NA |
| RD-59C | SORD-59C-GW041811 | U-235/236 | Filtered | 0 U | 0.0072 | 0.0021 | 0.0055 |
| RD-59C | SORD-59C-GW041811 | U-235/236 | Suspended | -0.0014 U | 0.02 | 0.0036 | 0.0071 |
| RD-59C | SORD-59C-GW041811 | U-235/236 | Total | -0.0014 | NA | 0.0042 | NA |
| RD-59C | SORD-59C-GW041811 | U-238 | Filtered | 0.053 | 0.014 | 0.012 | 0.004 |
| RD-59C | SORD-59C-GW041811 | U-238 | Suspended | -0.0052 U | 0.016 | 0.004 | 0.0057 |
| RD-59C | SORD-59C-GW041811 | U-238 | Total | 0.048 | NA | 0.012 | NA |
| RD-63 | SMRD-63-GW032311 | Ac-227 | Filtered | 0.4 U | 9.9 | 2.9 | 4.8 |
| RD-63 | SMRD-63-GW032311 | Ac-227 | Suspended | 0.06 U | 4.9 | 1.5 | 2.4 |
| RD-63 | SMRD-63-GW032311 | Ac-227 | Total | 0.4 | NA | 3.3 | NA |
| RD-63 | SMRD-63-GW032311 | Ac-228 | Filtered | 3.4 | 3.7 | 1.2 | 1.7 |
| RD-63 | SMRD-63-GW032311 | Ac-228 | Suspended | 1.55 | 1.9 | 0.62 | 0.91 |
| RD-63 | SMRD-63-GW032311 | Ac-228 | Total | 5 | NA | 1.3 | NA |
| RD-63 | SMRD-63-GW032311 | Ag-108 | Filtered | -0.027 U | 0.097 | 0.029 | 0.046 |
| RD-63 | SMRD-63-GW032311 | Ag-108 | Suspended | -0.018 U | 0.047 | 0.014 | 0.022 |
| RD-63 | SMRD-63-GW032311 | Ag-108 | Total | -0.045 | NA | 0.032 | NA |
| RD-63 | SMRD-63-GW032311 | Ag-108m | Filtered | -0.29 U | 1 | 0.31 | 0.5 |
| RD-63 | SMRD-63-GW032311 | Ag-108m | Suspended | -0.19 U | 0.51 | 0.15 | 0.24 |
| RD-63 | SMRD-63-GW032311 | Ag-108m | Total | -0.48 | NA | 0.35 | NA |
| RD-63 | SMRD-63-GW032311 | Ba-133 | Filtered | 6.6 | 9.9 | 3.1 | 4.8 |
| RD-63 | SMRD-63-GW032311 | Ba-133 | Suspended | 0.8 U | 5.3 | 1.6 | 2.6 |
| RD-63 | SMRD-63-GW032311 | Ba-133 | Total | 7.4 | NA | 3.4 | NA |
| RD-63 | SMRD-63-GW032311 | Ba-137m | Filtered | 0.22 U | 1 | 0.31 | 0.5 |
| RD-63 | SMRD-63-GW032311 | Ba-137m | Suspended | 0.22 U | 0.48 | 0.15 | 0.23 |
| RD-63 | SMRD-63-GW032311 | Ba-137m | Total | 0.44 | NA | 0.34 | NA |
| RD-63 | SMRD-63-GW032311 | Bi-212 | Filtered | -8 UL | 10 | 120 | 5 |
| RD-63 | SMRD-63-GW032311 | Bi-212 | Suspended | 4 | 5 | 1.6 | 2.4 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-63 | SMRD-63-GW032311 | Bi-212 | Total | -4 | NA | 120 | NA |
| RD-63 | SMRD-63-GW032311 | Bi-214 | Filtered | 3.5 | 2.8 | 1.1 | 1.3 |
| RD-63 | SMRD-63-GW032311 | Bi-214 | Suspended | 0.46 U | 1.5 | 0.5 | 0.72 |
| RD-63 | SMRD-63-GW032311 | Bi-214 | Total | 4 | NA | 1.2 | NA |
| RD-63 | SMRD-63-GW032311 | Cd-113m | Filtered | 1700 U | 13000 | 3800 | 6200 |
| RD-63 | SMRD-63-GW032311 | Cd-113m | Suspended | 900 U | 6400 | 1900 | 3100 |
| RD-63 | SMRD-63-GW032311 | Cd-113m | Total | 2600 | NA | 4300 | NA |
| RD-63 | SMRD-63-GW032311 | Cf-249 | Filtered | -1.1 U | 5.2 | 1.6 | 2.5 |
| RD-63 | SMRD-63-GW032311 | Cf-249 | Suspended | 1.1 U | 2.6 | 0.8 | 1.3 |
| RD-63 | SMRD-63-GW032311 | Cf-249 | Total | 0.02 | NA | 1.7 | NA |
| RD-63 | SMRD-63-GW032311 | Co-60 | Filtered | 0.02 U | 1.3 | 0.37 | 0.6 |
| RD-63 | SMRD-63-GW032311 | Co-60 | Suspended | 0.009 U | 0.48 | 0.13 | 0.22 |
| RD-63 | SMRD-63-GW032311 | Co-60 | Total | 0.02 | NA | 0.39 | NA |
| RD-63 | SMRD-63-GW032311 | Cs-134 | Filtered | -0.45 U | 1.3 | 0.39 | 0.63 |
| RD-63 | SMRD-63-GW032311 | Cs-134 | Suspended | -0.36 UL | 0.72 | 0.22 | 0.35 |
| RD-63 | SMRD-63-GW032311 | Cs-134 | Total | -0.82 | NA | 0.45 | NA |
| RD-63 | SMRD-63-GW032311 | Cs-137 | Filtered | 0.23 U | 1.1 | 0.33 | 0.52 |
| RD-63 | SMRD-63-GW032311 | Cs-137 | Suspended | 0.24 | 0.51 | 0.15 | 0.24 |
| RD-63 | SMRD-63-GW032311 | Cs-137 | Total | 0.47 | NA | 0.36 | NA |
| RD-63 | SMRD-63-GW032311 | Eu-152 | Filtered | -0.4 U | 3.6 | 1.1 | 1.7 |
| RD-63 | SMRD-63-GW032311 | Eu-152 | Suspended | -0.09 U | 1.7 | 0.49 | 0.81 |
| RD-63 | SMRD-63-GW032311 | Eu-152 | Total | -0.5 | NA | 1.2 | NA |
| RD-63 | SMRD-63-GW032311 | Eu-154 | Filtered | -2.6 U | 9.3 | 2.8 | 4.4 |
| RD-63 | SMRD-63-GW032311 | Eu-154 | Suspended | -0.4 U | 5.1 | 1.5 | 2.4 |
| RD-63 | SMRD-63-GW032311 | Eu-154 | Total | -3 | NA | 3.1 | NA |
| RD-63 | SMRD-63-GW032311 | Eu-155 | Filtered | 0.04 U | 3 | 0.88 | 1.4 |
| RD-63 | SMRD-63-GW032311 | Eu-155 | Suspended | 0.19 U | 1 | 0.3 | 0.49 |
| RD-63 | SMRD-63-GW032311 | Eu-155 | Total | 0.24 | NA | 0.93 | NA |
| RD-63 | SMRD-63-GW032311 | gross_alpha | Filtered | 13.4 J | 0.45 | 1 | 0.24 |
| RD-63 | SMRD-63-GW032311 | gross_alpha | Suspended | 1.48 | 0.37 | 0.24 | 0.18 |
| RD-63 | SMRD-63-GW032311 | gross_alpha | Total | 14.9 | NA | 1 | NA |
| RD-63 | SMRD-63-GW032311 | gross_beta | Filtered | 1.65 | 0.79 | 0.31 | 0.47 |
| RD-63 | SMRD-63-GW032311 | gross_beta | Suspended | 0.77 | 1.1 | 0.38 | 0.66 |
| RD-63 | SMRD-63-GW032311 | gross_beta | Total | 3.48 | NA | 0.56 | NA |
| RD-63 | SMRD-63-GW032311 | H-3_Total | Total | 33 | 90 | 27 | 43 |
| RD-63 | SMRD-63-GW032311 | Ho-166m | Filtered | -0.34 U | 2 | 0.6 | 0.97 |
| RD-63 | SMRD-63-GW032311 | Ho-166m | Suspended | 0.11 U | 0.97 | 0.28 | 0.46 |
| RD-63 | SMRD-63-GW032311 | Ho-166m | Total | -0.23 | NA | 0.66 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-63 | SMRD-63-GW032311 | K-40 | Filtered | 21.8 | 17 | 5.4 | 8.2 |
| RD-63 | SMRD-63-GW032311 | K-40 | Suspended | -0.9 U | 11 | 2.7 | 5.1 |
| RD-63 | SMRD-63-GW032311 | K-40 | Total | 20.8 | NA | 6.1 | NA |
| RD-63 | SMRD-63-GW032311 | Na-22 | Filtered | -0.21 U | 1.2 | 0.35 | 0.56 |
| RD-63 | SMRD-63-GW032311 | Na-22 | Suspended | -0.08 U | 0.65 | 0.19 | 0.3 |
| RD-63 | SMRD-63-GW032311 | Na-22 | Total | -0.29 | NA | 0.4 | NA |
| RD-63 | SMRD-63-GW032311 | Nb-94 | Filtered | -0.12 U | 1.1 | 0.33 | 0.54 |
| RD-63 | SMRD-63-GW032311 | Nb-94 | Suspended | 0.17 U | 0.62 | 0.18 | 0.29 |
| RD-63 | SMRD-63-GW032311 | Nb-94 | Total | 0.04 | NA | 0.38 | NA |
| RD-63 | SMRD-63-GW032311 | Np-236 | Filtered | -1.16 U | 2.7 | 0.83 | 1.3 |
| RD-63 | SMRD-63-GW032311 | Np-236 | Suspended | -0.02 U | 1.1 | 0.32 | 0.52 |
| RD-63 | SMRD-63-GW032311 | Np-236 | Total | -1.17 | NA | 0.89 | NA |
| RD-63 | SMRD-63-GW032311 | Np-239 | Filtered | 0.8 U | 7.4 | 2.2 | 3.6 |
| RD-63 | SMRD-63-GW032311 | Np-239 | Suspended | 0.19 U | 2.9 | 0.84 | 1.4 |
| RD-63 | SMRD-63-GW032311 | Np-239 | Total | 0.9 | NA | 2.4 | NA |
| RD-63 | SMRD-63-GW032311 | Pa-231 | Filtered | 9 U | 51 | 15 | 25 |
| RD-63 | SMRD-63-GW032311 | Pa-231 | Suspended | 1.8 U | 26 | 7.5 | 12 |
| RD-63 | SMRD-63-GW032311 | Pa-231 | Total | 11 | NA | 17 | NA |
| RD-63 | SMRD-63-GW032311 | Pb-212 | Filtered | 0.53 U | 2.3 | 0.69 | 1.1 |
| RD-63 | SMRD-63-GW032311 | Pb-212 | Suspended | 0.53 U | 1.2 | 0.45 | 0.61 |
| RD-63 | SMRD-63-GW032311 | Pb-212 | Total | 1.06 | NA | 0.83 | NA |
| RD-63 | SMRD-63-GW032311 | Pb-214 | Filtered | 2 | 2.6 | 1 | 1.3 |
| RD-63 | SMRD-63-GW032311 | Pb-214 | Suspended | 1.21 | 1.3 | 0.53 | 0.64 |
| RD-63 | SMRD-63-GW032311 | Pb-214 | Total | 3.2 | NA | 1.1 | NA |
| RD-63 | SMRD-63-GW032311 | Sb-125 | Filtered | -0.5 U | 12 | 3.6 | 5.9 |
| RD-63 | SMRD-63-GW032311 | Sb-125 | Suspended | 0.04 U | 3.9 | 1.1 | 1.9 |
| RD-63 | SMRD-63-GW032311 | Sb-125 | Total | -0.5 | NA | 3.8 | NA |
| RD-63 | SMRD-63-GW032311 | Sn-126 | Filtered | 0.03 U | 1.3 | 0.38 | 0.62 |
| RD-63 | SMRD-63-GW032311 | Sn-126 | Suspended | -0.13 U | 0.77 | 0.23 | 0.37 |
| RD-63 | SMRD-63-GW032311 | Sn-126 | Total | -0.09 | NA | 0.44 | NA |
| RD-63 | SMRD-63-GW032311 | Sr-90 | Filtered | 0.068 | 0.12 | 0.036 | 0.06 |
| RD-63 | SMRD-63-GW032311 | Sr-90 | Suspended | 0.02 U | 0.08 | 0.02 | 0.04 |
| RD-63 | SMRD-63-GW032311 | Sr-90 | Total | 0.08 | NA | 0.04 | NA |
| RD-63 | SMRD-63-GW032311 | Te-125m | Filtered | -0.12 U | 2.8 | 0.83 | 1.4 |
| RD-63 | SMRD-63-GW032311 | Te-125m | Suspended | 0.01 U | 0.9 | 0.26 | 0.43 |
| RD-63 | SMRD-63-GW032311 | Te-125m | Total | -0.11 | NA | 0.87 | NA |
| RD-63 | SMRD-63-GW032311 | Th-231 | Filtered | 0.309 | 0.008 | 0.033 | 0.007 |
| RD-63 | SMRD-63-GW032311 | Th-231 | Suspended | 0.0043 U | 0.0059 | 0.0031 | 0.005 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|-------|----------------|
| RD-63 | SMRD-63-GW032311 | Th-231 | Total | 0.313 | NA | 0.033 | NA |
| RD-63 | SMRD-63-GW032311 | Th-234 | Filtered | 1.4 U | 23 | 7.8 | 11 |
| RD-63 | SMRD-63-GW032311 | Th-234 | Suspended | 4 | 7.2 | 2.4 | 3.5 |
| RD-63 | SMRD-63-GW032311 | Th-234 | Total | 5.4 | NA | 8.2 | NA |
| RD-63 | SMRD-63-GW032311 | Tl-208 | Filtered | 0.21 U | 1.4 | 0.51 | 0.67 |
| RD-63 | SMRD-63-GW032311 | Tl-208 | Suspended | 0.27 U | 0.65 | 0.2 | 0.31 |
| RD-63 | SMRD-63-GW032311 | Tl-208 | Total | 0.48 | NA | 0.55 | NA |
| RD-63 | SMRD-63-GW032311 | Tm-171 | Filtered | 80 U | 350 | 110 | 170 |
| RD-63 | SMRD-63-GW032311 | Tm-171 | Suspended | 23 U | 93 | 28 | 45 |
| RD-63 | SMRD-63-GW032311 | Tm-171 | Total | 100 | NA | 110 | NA |
| RD-63 | SMRD-63-GW032311 | U-233/234 | Filtered | 5.63 | 0.02 | 0.26 | 0.01 |
| RD-63 | SMRD-63-GW032311 | U-233/234 | Suspended | 0.09 | 0.04 | 0.03 | 0.01 |
| RD-63 | SMRD-63-GW032311 | U-233/234 | Total | 5.72 | NA | 0.27 | NA |
| RD-63 | SMRD-63-GW032311 | U-235/236 | Filtered | 0.31 | 0.01 | 0.03 | 0.01 |
| RD-63 | SMRD-63-GW032311 | U-235/236 | Suspended | 0 U | 0.03 | 0 | 0.01 |
| RD-63 | SMRD-63-GW032311 | U-235/236 | Total | 0.31 | NA | 0.03 | NA |
| RD-63 | SMRD-63-GW032311 | U-238 | Filtered | 5.65 | 0.01 | 0.26 | 0.01 |
| RD-63 | SMRD-63-GW032311 | U-238 | Suspended | 0.06 | 0.02 | 0.02 | 0.01 |
| RD-63 | SMRD-63-GW032311 | U-238 | Total | 5.7 | NA | 0.27 | NA |
| RD-64 | SMRD-64-GW040411 | Ac-227 | Filtered | 0.3 U | 4.5 | 1.3 | 2.2 |
| RD-64 | SMRD-64-GW040411 | Ac-227 | Suspended | -0.7 U | 3.9 | 1.2 | 1.9 |
| RD-64 | SMRD-64-GW040411 | Ac-227 | Total | -0.4 | NA | 1.8 | NA |
| RD-64 | SMRD-64-GW040411 | Ac-228 | Filtered | 1.84 | 2.1 | 0.68 | 0.99 |
| RD-64 | SMRD-64-GW040411 | Ac-228 | Suspended | 0.63 U | 2.7 | 0.7 | 1.3 |
| RD-64 | SMRD-64-GW040411 | Ac-228 | Total | 2.46 | NA | 0.98 | NA |
| RD-64 | SMRD-64-GW040411 | Ag-108 | Filtered | 0.011 U R | 0.058 | 0.017 | 0.028 |
| RD-64 | SMRD-64-GW040411 | Ag-108 | Suspended | 0.012 U R | 0.053 | 0.016 | 0.025 |
| RD-64 | SMRD-64-GW040411 | Ag-108 | Total | 0.024 R | NA | 0.023 | NA |
| RD-64 | SMRD-64-GW040411 | Ag-108m | Filtered | 0.12 U R | 0.62 | 0.18 | 0.3 |
| RD-64 | SMRD-64-GW040411 | Ag-108m | Suspended | 0.13 U R | 0.57 | 0.17 | 0.27 |
| RD-64 | SMRD-64-GW040411 | Ag-108m | Total | 0.25 R | NA | 0.25 | NA |
| RD-64 | SMRD-64-GW040411 | Ba-133 | Filtered | -2.1 U R | 7.8 | 2.3 | 3.8 |
| RD-64 | SMRD-64-GW040411 | Ba-133 | Suspended | 0.2 U R | 5 | 1.5 | 2.4 |
| RD-64 | SMRD-64-GW040411 | Ba-133 | Total | -1.9 R | NA | 2.8 | NA |
| RD-64 | SMRD-64-GW040411 | Ba-137m | Filtered | -0.16 U | 0.75 | 0.22 | 0.36 |
| RD-64 | SMRD-64-GW040411 | Ba-137m | Suspended | -0.23 U | 0.72 | 0.21 | 0.34 |
| RD-64 | SMRD-64-GW040411 | Ba-137m | Total | -0.39 | NA | 0.31 | NA |
| RD-64 | SMRD-64-GW040411 | Bi-212 | Filtered | 0.6 U | 6 | 1.7 | 2.8 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|------|------|----------------|
| RD-64 | SMRD-64-GW040411 | Bi-212 | Suspended | 0.9 U | 5.9 | 1.7 | 2.8 |
| RD-64 | SMRD-64-GW040411 | Bi-212 | Total | 1.4 | NA | 2.4 | NA |
| RD-64 | SMRD-64-GW040411 | Bi-214 | Filtered | 2.42 | 1.7 | 0.73 | 0.81 |
| RD-64 | SMRD-64-GW040411 | Bi-214 | Suspended | 1.89 | 1.5 | 0.61 | 0.73 |
| RD-64 | SMRD-64-GW040411 | Bi-214 | Total | 4.31 | NA | 0.95 | NA |
| RD-64 | SMRD-64-GW040411 | Cd-113m | Filtered | -800 U | 8700 | 2600 | 4200 |
| RD-64 | SMRD-64-GW040411 | Cd-113m | Suspended | 1700 U | 5800 | 1700 | 2800 |
| RD-64 | SMRD-64-GW040411 | Cd-113m | Total | 900 | NA | 3100 | NA |
| RD-64 | SMRD-64-GW040411 | Cf-249 | Filtered | 0.3 U R | 3.6 | 1.1 | 1.7 |
| RD-64 | SMRD-64-GW040411 | Cf-249 | Suspended | -0.006 U R | 2.4 | 0.71 | 1.2 |
| RD-64 | SMRD-64-GW040411 | Cf-249 | Total | 0.3 R | NA | 1.3 | NA |
| RD-64 | SMRD-64-GW040411 | Co-60 | Filtered | 0.009 U | 0.76 | 0.21 | 0.35 |
| RD-64 | SMRD-64-GW040411 | Co-60 | Suspended | 0 U | 0.96 | 0.28 | 0.46 |
| RD-64 | SMRD-64-GW040411 | Co-60 | Total | 0.009 | NA | 0.35 | NA |
| RD-64 | SMRD-64-GW040411 | Cs-134 | Filtered | -0.22 U | 0.84 | 0.25 | 0.4 |
| RD-64 | SMRD-64-GW040411 | Cs-134 | Suspended | -0.4 U | 0.8 | 0.24 | 0.39 |
| RD-64 | SMRD-64-GW040411 | Cs-134 | Total | -0.62 | NA | 0.35 | NA |
| RD-64 | SMRD-64-GW040411 | Cs-137 | Filtered | -0.17 U | 0.8 | 0.24 | 0.38 |
| RD-64 | SMRD-64-GW040411 | Cs-137 | Suspended | -0.24 U | 0.76 | 0.23 | 0.36 |
| RD-64 | SMRD-64-GW040411 | Cs-137 | Total | -0.41 | NA | 0.33 | NA |
| RD-64 | SMRD-64-GW040411 | Eu-152 | Filtered | 0.47 U | 1.9 | 0.57 | 0.92 |
| RD-64 | SMRD-64-GW040411 | Eu-152 | Suspended | -0.44 U | 1.8 | 0.55 | 0.89 |
| RD-64 | SMRD-64-GW040411 | Eu-152 | Total | 0.03 | NA | 0.79 | NA |
| RD-64 | SMRD-64-GW040411 | Eu-154 | Filtered | 1 U | 5.6 | 1.6 | 2.6 |
| RD-64 | SMRD-64-GW040411 | Eu-154 | Suspended | 0.8 U | 6.2 | 1.8 | 2.9 |
| RD-64 | SMRD-64-GW040411 | Eu-154 | Total | 1.8 | NA | 2.4 | NA |
| RD-64 | SMRD-64-GW040411 | Eu-155 | Filtered | -0.36 U | 1.9 | 0.58 | 0.95 |
| RD-64 | SMRD-64-GW040411 | Eu-155 | Suspended | 0.31 U | 1.3 | 0.4 | 0.65 |
| RD-64 | SMRD-64-GW040411 | Eu-155 | Total | -0.06 | NA | 0.71 | NA |
| RD-64 | SMRD-64-GW040411 | gross_alpha | Filtered | 5.85 | 0.41 | 0.48 | 0.21 |
| RD-64 | SMRD-64-GW040411 | gross_alpha | Suspended | 0.34 U | 0.63 | 0.19 | 0.35 |
| RD-64 | SMRD-64-GW040411 | gross_alpha | Total | 6.19 | NA | 0.52 | NA |
| RD-64 | SMRD-64-GW040411 | gross_beta | Filtered | 3.33 | 1.3 | 0.52 | 0.78 |
| RD-64 | SMRD-64-GW040411 | gross_beta | Suspended | 0.1 U | 0.78 | 0.22 | 0.46 |
| RD-64 | SMRD-64-GW040411 | gross_beta | Total | 3.43 | NA | 0.56 | NA |
| RD-64 | SMRD-64-GW040411 | H-3 | Total | 123 | 120 | 39 | 59 |
| RD-64 | SMRD-64-GW040411 | Ho-166m | Filtered | 0.15 U | 1.2 | 0.34 | 0.55 |
| RD-64 | SMRD-64-GW040411 | Ho-166m | Suspended | 0.29 U | 1.2 | 0.35 | 0.56 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-64 | SMRD-64-GW040411 | Ho-166m | Total | 0.44 | NA | 0.49 | NA |
| RD-64 | SMRD-64-GW040411 | K-40 | Filtered | 11.1 | 12 | 4.1 | 5.7 |
| RD-64 | SMRD-64-GW040411 | K-40 | Suspended | -5.4 U | 13 | 4 | 6 |
| RD-64 | SMRD-64-GW040411 | K-40 | Total | 5.7 | NA | 5.7 | NA |
| RD-64 | SMRD-64-GW040411 | Na-22 | Filtered | -0.12 U | 0.82 | 0.24 | 0.38 |
| RD-64 | SMRD-64-GW040411 | Na-22 | Suspended | 0 U | 0.84 | 0.24 | 0.4 |
| RD-64 | SMRD-64-GW040411 | Na-22 | Total | -0.12 | NA | 0.34 | NA |
| RD-64 | SMRD-64-GW040411 | Nb-94 | Filtered | -0.004 U | 0.77 | 0.22 | 0.37 |
| RD-64 | SMRD-64-GW040411 | Nb-94 | Suspended | -0.005 U | 0.63 | 0.18 | 0.3 |
| RD-64 | SMRD-64-GW040411 | Nb-94 | Total | -0.009 | NA | 0.29 | NA |
| RD-64 | SMRD-64-GW040411 | Np-236 | Filtered | -0.67 U | 1.8 | 0.53 | 0.86 |
| RD-64 | SMRD-64-GW040411 | Np-236 | Suspended | 0.5 U | 1.1 | 0.34 | 0.54 |
| RD-64 | SMRD-64-GW040411 | Np-236 | Total | -0.17 | NA | 0.63 | NA |
| RD-64 | SMRD-64-GW040411 | Np-239 | Filtered | 0.1 U | 4.8 | 1.4 | 2.3 |
| RD-64 | SMRD-64-GW040411 | Np-239 | Suspended | -0.1 U | 3.5 | 1 | 1.7 |
| RD-64 | SMRD-64-GW040411 | Np-239 | Total | -0.002 | NA | 1.8 | NA |
| RD-64 | SMRD-64-GW040411 | Pa-231 | Filtered | -2.7 U | 33 | 9.8 | 16 |
| RD-64 | SMRD-64-GW040411 | Pa-231 | Suspended | 1.4 U | 25 | 7.4 | 12 |
| RD-64 | SMRD-64-GW040411 | Pa-231 | Total | -1 | NA | 12 | NA |
| RD-64 | SMRD-64-GW040411 | Pb-212 | Filtered | 0.38 U | 1.5 | 0.48 | 0.71 |
| RD-64 | SMRD-64-GW040411 | Pb-212 | Suspended | 0.25 U | 1 | 0.32 | 0.49 |
| RD-64 | SMRD-64-GW040411 | Pb-212 | Total | 0.63 | NA | 0.58 | NA |
| RD-64 | SMRD-64-GW040411 | Pb-214 | Filtered | 0.73 U | 1.5 | 0.55 | 0.74 |
| RD-64 | SMRD-64-GW040411 | Pb-214 | Suspended | 0.33 U | 1.3 | 0.46 | 0.64 |
| RD-64 | SMRD-64-GW040411 | Pb-214 | Total | 1.06 | NA | 0.72 | NA |
| RD-64 | SMRD-64-GW040411 | Sb-125 | Filtered | -0.9 U | 7.6 | 2.3 | 3.7 |
| RD-64 | SMRD-64-GW040411 | Sb-125 | Suspended | 1.3 U | 5.4 | 1.6 | 2.6 |
| RD-64 | SMRD-64-GW040411 | Sb-125 | Total | 0.5 | NA | 2.8 | NA |
| RD-64 | SMRD-64-GW040411 | Sn-126 | Filtered | -0.002 U | 0.78 | 0.22 | 0.37 |
| RD-64 | SMRD-64-GW040411 | Sn-126 | Suspended | 0.16 U | 0.83 | 0.25 | 0.4 |
| RD-64 | SMRD-64-GW040411 | Sn-126 | Total | 0.15 | NA | 0.33 | NA |
| RD-64 | SMRD-64-GW040411 | Sr-90 | Filtered | 0.057 | 0.1 | 0.032 | 0.059 |
| RD-64 | SMRD-64-GW040411 | Sr-90 | Suspended | -0.012 U | 0.062 | 0.017 | 0.037 |
| RD-64 | SMRD-64-GW040411 | Sr-90 | Total | 0.044 | NA | 0.036 | NA |
| RD-64 | SMRD-64-GW040411 | Te-125m | Filtered | -0.2 U | 1.8 | 0.52 | 0.86 |
| RD-64 | SMRD-64-GW040411 | Te-125m | Suspended | 0.31 U | 1.2 | 0.37 | 0.61 |
| RD-64 | SMRD-64-GW040411 | Te-125m | Total | 0.11 | NA | 0.64 | NA |
| RD-64 | SMRD-64-GW040411 | Th-231 | Filtered | 0.091 | 0.007 | 0.016 | 0.006 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-64 | SMRD-64-GW040411 | Th-231 | Suspended | 0.0029 U | 0.016 | 0.0039 | 0.005 |
| RD-64 | SMRD-64-GW040411 | Th-231 | Total | 0.093 | NA | 0.016 | NA |
| RD-64 | SMRD-64-GW040411 | Th-234 | Filtered | -5 U | 16 | 6.2 | 7.6 |
| RD-64 | SMRD-64-GW040411 | Th-234 | Suspended | 3.3 U | 8.3 | 2.5 | 4.1 |
| RD-64 | SMRD-64-GW040411 | Th-234 | Total | -1.8 | NA | 6.6 | NA |
| RD-64 | SMRD-64-GW040411 | Tl-208 | Filtered | 0.34 U | 0.85 | 0.29 | 0.41 |
| RD-64 | SMRD-64-GW040411 | Tl-208 | Suspended | 0.25 U | 0.74 | 0.26 | 0.36 |
| RD-64 | SMRD-64-GW040411 | Tl-208 | Total | 0.59 | NA | 0.39 | NA |
| RD-64 | SMRD-64-GW040411 | Tm-171 | Filtered | 83 U | 230 | 71 | 110 |
| RD-64 | SMRD-64-GW040411 | Tm-171 | Suspended | 20 U | 120 | 35 | 56 |
| RD-64 | SMRD-64-GW040411 | Tm-171 | Total | 103 | NA | 79 | NA |
| RD-64 | SMRD-64-GW040411 | U-233/234 | Filtered | 2.29 | 0.01 | 0.12 | 0.004 |
| RD-64 | SMRD-64-GW040411 | U-233/234 | Suspended | 0.0011 U | 0.0052 | 0.0047 | 0.004 |
| RD-64 | SMRD-64-GW040411 | U-233/234 | Total | 2.29 | NA | 0.12 | NA |
| RD-64 | SMRD-64-GW040411 | U-235/236 | Filtered | 0.09 | 0.007 | 0.016 | 0.005 |
| RD-64 | SMRD-64-GW040411 | U-235/236 | Suspended | 0.0029 U | 0.016 | 0.0039 | 0.005 |
| RD-64 | SMRD-64-GW040411 | U-235/236 | Total | 0.093 | NA | 0.016 | NA |
| RD-64 | SMRD-64-GW040411 | U-238 | Filtered | 1.68 | 0.014 | 0.092 | 0.004 |
| RD-64 | SMRD-64-GW040411 | U-238 | Suspended | 0.0057 | 0.0052 | 0.0051 | 0.004 |
| RD-64 | SMRD-64-GW040411 | U-238 | Total | 1.69 | NA | 0.092 | NA |
| RD-65 | SMRD-65-GW040411 | Ac-227 | Filtered | -6.9 L U | 9.8 | 3 | 4.8 |
| RD-65 | SMRD-65-GW040411 | Ac-227 | Suspended | -2.8 U | 4.7 | 1.4 | 2.3 |
| RD-65 | SMRD-65-GW040411 | Ac-227 | Total | -9.8 L | NA | 3.3 | NA |
| RD-65 | SMRD-65-GW040411 | Ac-228 | Filtered | 3.2 | 3.3 | 1.1 | 1.6 |
| RD-65 | SMRD-65-GW040411 | Ac-228 | Suspended | -1 U | 2.6 | 1.6 | 1.2 |
| RD-65 | SMRD-65-GW040411 | Ac-228 | Total | 2.3 | NA | 1.9 | NA |
| RD-65 | SMRD-65-GW040411 | Ag-108 | Filtered | 0.019 U R | 0.084 | 0.025 | 0.04 |
| RD-65 | SMRD-65-GW040411 | Ag-108 | Suspended | -0.005 U R | 0.051 | 0.015 | 0.024 |
| RD-65 | SMRD-65-GW040411 | Ag-108 | Total | 0.014 R | NA | 0.029 | NA |
| RD-65 | SMRD-65-GW040411 | Ag-108m | Filtered | 0.2 U R | 0.9 | 0.27 | 0.43 |
| RD-65 | SMRD-65-GW040411 | Ag-108m | Suspended | -0.05 U R | 0.55 | 0.16 | 0.26 |
| RD-65 | SMRD-65-GW040411 | Ag-108m | Total | 0.15 R | NA | 0.31 | NA |
| RD-65 | SMRD-65-GW040411 | Ba-133 | Filtered | 0.1 U R | 11 | 3.2 | 5.3 |
| RD-65 | SMRD-65-GW040411 | Ba-133 | Suspended | 2.2 U R | 5.8 | 1.7 | 2.8 |
| RD-65 | SMRD-65-GW040411 | Ba-133 | Total | 2.3 R | NA | 3.7 | NA |
| RD-65 | SMRD-65-GW040411 | Ba-137m | Filtered | 0.27 U | 1.1 | 0.32 | 0.52 |
| RD-65 | SMRD-65-GW040411 | Ba-137m | Suspended | -0.06 U | 0.7 | 0.2 | 0.33 |
| RD-65 | SMRD-65-GW040411 | Ba-137m | Total | 0.2 | NA | 0.38 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-65 | SMRD-65-GW040411 | Bi-212 | Filtered | 3.7 U | 9.4 | 2.8 | 4.5 |
| RD-65 | SMRD-65-GW040411 | Bi-212 | Suspended | 1.1 U | 5.3 | 1.6 | 2.5 |
| RD-65 | SMRD-65-GW040411 | Bi-212 | Total | 4.8 | NA | 3.2 | NA |
| RD-65 | SMRD-65-GW040411 | Bi-214 | Filtered | 2 | 2.7 | 1 | 1.3 |
| RD-65 | SMRD-65-GW040411 | Bi-214 | Suspended | 0.62 U | 1.6 | 0.54 | 0.77 |
| RD-65 | SMRD-65-GW040411 | Bi-214 | Total | 2.6 | NA | 1.2 | NA |
| RD-65 | SMRD-65-GW040411 | Cd-113m | Filtered | -100 U | 12000 | 3500 | 5700 |
| RD-65 | SMRD-65-GW040411 | Cd-113m | Suspended | -70 U | 6800 | 2000 | 3300 |
| RD-65 | SMRD-65-GW040411 | Cd-113m | Total | -200 | NA | 4000 | NA |
| RD-65 | SMRD-65-GW040411 | Cf-249 | Filtered | 1.8 U R | 5.2 | 1.6 | 2.5 |
| RD-65 | SMRD-65-GW040411 | Cf-249 | Suspended | 0.04 U R | 3.3 | 0.98 | 1.6 |
| RD-65 | SMRD-65-GW040411 | Cf-249 | Total | 1.8 R | NA | 1.8 | NA |
| RD-65 | SMRD-65-GW040411 | Co-60 | Filtered | 0 U | 1.5 | 0.43 | 0.71 |
| RD-65 | SMRD-65-GW040411 | Co-60 | Suspended | 0.03 U | 0.78 | 0.22 | 0.36 |
| RD-65 | SMRD-65-GW040411 | Co-60 | Total | 0.03 | NA | 0.48 | NA |
| RD-65 | SMRD-65-GW040411 | Cs-134 | Filtered | -0.26 U | 1.2 | 0.36 | 0.58 |
| RD-65 | SMRD-65-GW040411 | Cs-134 | Suspended | 0.15 U | 0.79 | 0.24 | 0.38 |
| RD-65 | SMRD-65-GW040411 | Cs-134 | Total | -0.12 | NA | 0.43 | NA |
| RD-65 | SMRD-65-GW040411 | Cs-137 | Filtered | 0.28 U | 1.2 | 0.34 | 0.55 |
| RD-65 | SMRD-65-GW040411 | Cs-137 | Suspended | -0.07 U | 0.74 | 0.22 | 0.35 |
| RD-65 | SMRD-65-GW040411 | Cs-137 | Total | 0.22 | NA | 0.41 | NA |
| RD-65 | SMRD-65-GW040411 | Eu-152 | Filtered | -0.74 U | 2.5 | 0.75 | 1.2 |
| RD-65 | SMRD-65-GW040411 | Eu-152 | Suspended | 0.44 U | 1.7 | 0.52 | 0.83 |
| RD-65 | SMRD-65-GW040411 | Eu-152 | Total | -0.31 | NA | 0.91 | NA |
| RD-65 | SMRD-65-GW040411 | Eu-154 | Filtered | -1.3 U | 10 | 2.9 | 4.8 |
| RD-65 | SMRD-65-GW040411 | Eu-154 | Suspended | 1.5 U | 4.5 | 1.3 | 2.1 |
| RD-65 | SMRD-65-GW040411 | Eu-154 | Total | 0.1 | NA | 3.2 | NA |
| RD-65 | SMRD-65-GW040411 | Eu-155 | Filtered | -0.76 U | 2.8 | 0.85 | 1.4 |
| RD-65 | SMRD-65-GW040411 | Eu-155 | Suspended | 0 U | 1.2 | 0.36 | 0.59 |
| RD-65 | SMRD-65-GW040411 | Eu-155 | Total | -0.76 | NA | 0.93 | NA |
| RD-65 | SMRD-65-GW040411 | gross_alpha | Filtered | 3.14 | 0.35 | 0.33 | 0.18 |
| RD-65 | SMRD-65-GW040411 | gross_alpha | Suspended | 0.52 | 0.39 | 0.16 | 0.19 |
| RD-65 | SMRD-65-GW040411 | gross_alpha | Total | 3.66 | NA | 0.37 | NA |
| RD-65 | SMRD-65-GW040411 | gross_beta | Filtered | 4.7 | 1.9 | 0.74 | 1.1 |
| RD-65 | SMRD-65-GW040411 | gross_beta | Suspended | 0.14 U | 0.75 | 0.22 | 0.44 |
| RD-65 | SMRD-65-GW040411 | gross_beta | Total | 4.84 | NA | 0.77 | NA |
| RD-65 | SMRD-65-GW040411 | H-3 | Total | 26 U | 120 | 35 | 57 |
| RD-65 | SMRD-65-GW040411 | Ho-166m | Filtered | -0.009 U | 1.9 | 0.54 | 0.89 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-65 | SMRD-65-GW040411 | Ho-166m | Suspended | 0.39 U | 0.97 | 0.29 | 0.46 |
| RD-65 | SMRD-65-GW040411 | Ho-166m | Total | 0.38 | NA | 0.61 | NA |
| RD-65 | SMRD-65-GW040411 | K-40 | Filtered | 16.9 | 16 | 4.6 | 7.8 |
| RD-65 | SMRD-65-GW040411 | K-40 | Suspended | -8.6 U | 11 | 7.9 | 5.2 |
| RD-65 | SMRD-65-GW040411 | K-40 | Total | 8.3 | NA | 9.1 | NA |
| RD-65 | SMRD-65-GW040411 | Na-22 | Filtered | 0.29 U | 1.1 | 0.31 | 0.49 |
| RD-65 | SMRD-65-GW040411 | Na-22 | Suspended | -0.19 U | 0.84 | 0.25 | 0.39 |
| RD-65 | SMRD-65-GW040411 | Na-22 | Total | 0.1 | NA | 0.4 | NA |
| RD-65 | SMRD-65-GW040411 | Nb-94 | Filtered | -0.36 U | 1.1 | 0.34 | 0.54 |
| RD-65 | SMRD-65-GW040411 | Nb-94 | Suspended | 0.13 U | 0.62 | 0.18 | 0.3 |
| RD-65 | SMRD-65-GW040411 | Nb-94 | Total | -0.24 | NA | 0.38 | NA |
| RD-65 | SMRD-65-GW040411 | Np-236 | Filtered | -0.41 U | 2.3 | 0.7 | 1.1 |
| RD-65 | SMRD-65-GW040411 | Np-236 | Suspended | -0.55 U | 1.3 | 0.39 | 0.63 |
| RD-65 | SMRD-65-GW040411 | Np-236 | Total | -0.96 | NA | 0.8 | NA |
| RD-65 | SMRD-65-GW040411 | Np-239 | Filtered | 0.08 U | 6.2 | 1.8 | 3 |
| RD-65 | SMRD-65-GW040411 | Np-239 | Suspended | -0.59 U | 3.1 | 0.91 | 1.5 |
| RD-65 | SMRD-65-GW040411 | Np-239 | Total | -0.5 | NA | 2 | NA |
| RD-65 | SMRD-65-GW040411 | Pa-231 | Filtered | 14 U | 48 | 14 | 23 |
| RD-65 | SMRD-65-GW040411 | Pa-231 | Suspended | 5.4 U | 24 | 7.3 | 12 |
| RD-65 | SMRD-65-GW040411 | Pa-231 | Total | 20 | NA | 16 | NA |
| RD-65 | SMRD-65-GW040411 | Pb-212 | Filtered | 0.56 U | 2.4 | 0.79 | 1.1 |
| RD-65 | SMRD-65-GW040411 | Pb-212 | Suspended | 0.86 | 1.1 | 0.37 | 0.53 |
| RD-65 | SMRD-65-GW040411 | Pb-212 | Total | 1.42 | NA | 0.87 | NA |
| RD-65 | SMRD-65-GW040411 | Pb-214 | Filtered | 0.74 U | 2.3 | 0.84 | 1.1 |
| RD-65 | SMRD-65-GW040411 | Pb-214 | Suspended | 0.76 | 1.5 | 0.58 | 0.73 |
| RD-65 | SMRD-65-GW040411 | Pb-214 | Total | 1.5 | NA | 1 | NA |
| RD-65 | SMRD-65-GW040411 | Sb-125 | Filtered | -1.6 U | 11 | 3.4 | 5.6 |
| RD-65 | SMRD-65-GW040411 | Sb-125 | Suspended | 1.5 U | 5.4 | 1.6 | 2.6 |
| RD-65 | SMRD-65-GW040411 | Sb-125 | Total | -0.1 | NA | 3.8 | NA |
| RD-65 | SMRD-65-GW040411 | Sn-126 | Filtered | 0.23 U | 1 | 0.3 | 0.49 |
| RD-65 | SMRD-65-GW040411 | Sn-126 | Suspended | 0.16 U | 0.75 | 0.22 | 0.36 |
| RD-65 | SMRD-65-GW040411 | Sn-126 | Total | 0.39 | NA | 0.38 | NA |
| RD-65 | SMRD-65-GW040411 | Sr-90 | Filtered | 0.054 | 0.11 | 0.033 | 0.06 |
| RD-65 | SMRD-65-GW040411 | Sr-90 | Suspended | 0.024 U | 0.061 | 0.019 | 0.035 |
| RD-65 | SMRD-65-GW040411 | Sr-90 | Total | 0.079 | NA | 0.037 | NA |
| RD-65 | SMRD-65-GW040411 | Te-125m | Filtered | -0.38 U | 2.6 | 0.78 | 1.3 |
| RD-65 | SMRD-65-GW040411 | Te-125m | Suspended | 0.35 U | 1.3 | 0.38 | 0.61 |
| RD-65 | SMRD-65-GW040411 | Te-125m | Total | -0.02 | NA | 0.87 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-65 | SMRD-65-GW040411 | Th-231 | Filtered | 0.06 | 0.018 | 0.013 | 0.006 |
| RD-65 | SMRD-65-GW040411 | Th-231 | Suspended | 0.0087 | 0.0079 | 0.005 | 0.006 |
| RD-65 | SMRD-65-GW040411 | Th-231 | Total | 0.069 | NA | 0.014 | NA |
| RD-65 | SMRD-65-GW040411 | Th-234 | Filtered | 1.1 U | 24 | 6.6 | 12 |
| RD-65 | SMRD-65-GW040411 | Th-234 | Suspended | 4.8 | 7.3 | 2.3 | 3.6 |
| RD-65 | SMRD-65-GW040411 | Th-234 | Total | 5.9 | NA | 7 | NA |
| RD-65 | SMRD-65-GW040411 | Tl-208 | Filtered | 0.44 U | 1.2 | 0.37 | 0.56 |
| RD-65 | SMRD-65-GW040411 | Tl-208 | Suspended | 0.77 | 0.72 | 0.3 | 0.35 |
| RD-65 | SMRD-65-GW040411 | Tl-208 | Total | 1.22 | NA | 0.48 | NA |
| RD-65 | SMRD-65-GW040411 | Tm-171 | Filtered | 118 U | 330 | 98 | 160 |
| RD-65 | SMRD-65-GW040411 | Tm-171 | Suspended | 1 U | 130 | 37 | 61 |
| RD-65 | SMRD-65-GW040411 | Tm-171 | Total | 120 | NA | 110 | NA |
| RD-65 | SMRD-65-GW040411 | U-233/234 | Filtered | 1.94 | 0.02 | 0.1 | 0.006 |
| RD-65 | SMRD-65-GW040411 | U-233/234 | Suspended | 0.023 | 0.022 | 0.01 | 0.008 |
| RD-65 | SMRD-65-GW040411 | U-233/234 | Total | 1.97 | NA | 0.1 | NA |
| RD-65 | SMRD-65-GW040411 | U-235/236 | Filtered | 0.06 | 0.018 | 0.013 | 0.006 |
| RD-65 | SMRD-65-GW040411 | U-235/236 | Suspended | 0.0087 | 0.0079 | 0.005 | 0.006 |
| RD-65 | SMRD-65-GW040411 | U-235/236 | Total | 0.068 | NA | 0.014 | NA |
| RD-65 | SMRD-65-GW040411 | U-238 | Filtered | 1.19 | 0.014 | 0.071 | 0.004 |
| RD-65 | SMRD-65-GW040411 | U-238 | Suspended | 0.0163 | 0.019 | 0.0085 | 0.0068 |
| RD-65 | SMRD-65-GW040411 | U-238 | Total | 1.2 | NA | 0.072 | NA |
| RD-68A | SORD-68A-GW041811 | Ac-227 | Filtered | -6.7 L U | 9.7 | 3 | 4.7 |
| RD-68A | SORD-68A-GW041811 | Ac-227 | Suspended | 4.54 | 2.2 | 0.77 | 1 |
| RD-68A | SORD-68A-GW041811 | Ac-227 | Total | -2.2 | NA | 3.1 | NA |
| RD-68A | SORD-68A-GW041811 | Ac-228 | Filtered | 3.6 | 3.4 | 1.1 | 1.6 |
| RD-68A | SORD-68A-GW041811 | Ac-228 | Suspended | -0.44 U | 2.9 | 0.96 | 1.4 |
| RD-68A | SORD-68A-GW041811 | Ac-228 | Total | 3.2 | NA | 1.5 | NA |
| RD-68A | SORD-68A-GW041811 | Ag-108 | Filtered | 0.018 U R | 0.082 | 0.024 | 0.039 |
| RD-68A | SORD-68A-GW041811 | Ag-108 | Suspended | 0.014 U R | 0.044 | 0.013 | 0.021 |
| RD-68A | SORD-68A-GW041811 | Ag-108 | Total | 0.032 R | NA | 0.028 | NA |
| RD-68A | SORD-68A-GW041811 | Ag-108m | Filtered | 0.2 U R | 0.88 | 0.26 | 0.42 |
| RD-68A | SORD-68A-GW041811 | Ag-108m | Suspended | 0.15 U R | 0.48 | 0.14 | 0.23 |
| RD-68A | SORD-68A-GW041811 | Ag-108m | Total | 0.35 R | NA | 0.3 | NA |
| RD-68A | SORD-68A-GW041811 | Ba-133 | Filtered | 0 U R | 11 | 3.2 | 5.2 |
| RD-68A | SORD-68A-GW041811 | Ba-133 | Suspended | 0 U R | 5.8 | 1.7 | 2.8 |
| RD-68A | SORD-68A-GW041811 | Ba-133 | Total | 0 R | NA | 3.6 | NA |
| RD-68A | SORD-68A-GW041811 | Ba-137m | Filtered | -0.003 U | 1 | 0.3 | 0.49 |
| RD-68A | SORD-68A-GW041811 | Ba-137m | Suspended | -0.02 U | 0.6 | 0.17 | 0.28 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-68A | SORD-68A-GW041811 | Ba-137m | Total | -0.02 | NA | 0.34 | NA |
| RD-68A | SORD-68A-GW041811 | Bi-212 | Filtered | -1.6 U | 9.3 | 5.5 | 4.5 |
| RD-68A | SORD-68A-GW041811 | Bi-212 | Suspended | 0.9 U | 5.7 | 1.7 | 2.7 |
| RD-68A | SORD-68A-GW041811 | Bi-212 | Total | -0.7 | NA | 5.7 | NA |
| RD-68A | SORD-68A-GW041811 | Bi-214 | Filtered | 1.2 U | 2.8 | 1.1 | 1.3 |
| RD-68A | SORD-68A-GW041811 | Bi-214 | Suspended | 1.59 | 1.7 | 0.68 | 0.8 |
| RD-68A | SORD-68A-GW041811 | Bi-214 | Total | 2.7 | NA | 1.3 | NA |
| RD-68A | SORD-68A-GW041811 | Cd-113m | Filtered | -2300 U | 14000 | 4100 | 6700 |
| RD-68A | SORD-68A-GW041811 | Cd-113m | Suspended | 200 U | 6900 | 2000 | 3300 |
| RD-68A | SORD-68A-GW041811 | Cd-113m | Total | -2100 | NA | 4600 | NA |
| RD-68A | SORD-68A-GW041811 | Cf-249 | Filtered | 2.3 R | 4.8 | 1.5 | 2.3 |
| RD-68A | SORD-68A-GW041811 | Cf-249 | Suspended | 1.18 U R | 2.9 | 0.87 | 1.4 |
| RD-68A | SORD-68A-GW041811 | Cf-249 | Total | 3.5 R | NA | 1.7 | NA |
| RD-68A | SORD-68A-GW041811 | Co-60 | Filtered | -0.1 U | 1.1 | 0.32 | 0.52 |
| RD-68A | SORD-68A-GW041811 | Co-60 | Suspended | -0.09 U | 0.79 | 0.23 | 0.37 |
| RD-68A | SORD-68A-GW041811 | Co-60 | Total | -0.2 | NA | 0.39 | NA |
| RD-68A | SORD-68A-GW041811 | Cs-134 | Filtered | -0.06 U | 0.91 | 0.26 | 0.43 |
| RD-68A | SORD-68A-GW041811 | Cs-134 | Suspended | 0.23 SK | 0.49 | 0.15 | 0.23 |
| RD-68A | SORD-68A-GW041811 | Cs-134 | Total | 0.17 | NA | 0.3 | NA |
| RD-68A | SORD-68A-GW041811 | Cs-137 | Filtered | -0.003 U | 1.1 | 0.31 | 0.51 |
| RD-68A | SORD-68A-GW041811 | Cs-137 | Suspended | -0.02 U | 0.63 | 0.18 | 0.3 |
| RD-68A | SORD-68A-GW041811 | Cs-137 | Total | -0.02 | NA | 0.36 | NA |
| RD-68A | SORD-68A-GW041811 | Eu-152 | Filtered | 0.69 U | 3.1 | 0.92 | 1.5 |
| RD-68A | SORD-68A-GW041811 | Eu-152 | Suspended | 0 U | 1.8 | 0.52 | 0.86 |
| RD-68A | SORD-68A-GW041811 | Eu-152 | Total | 0.7 | NA | 1.1 | NA |
| RD-68A | SORD-68A-GW041811 | Eu-154 | Filtered | 1 U | 9.2 | 2.7 | 4.3 |
| RD-68A | SORD-68A-GW041811 | Eu-154 | Suspended | 1.5 U | 5.9 | 1.7 | 2.8 |
| RD-68A | SORD-68A-GW041811 | Eu-154 | Total | 2.6 | NA | 3.2 | NA |
| RD-68A | SORD-68A-GW041811 | Eu-155 | Filtered | 0.05 U | 3 | 0.88 | 1.5 |
| RD-68A | SORD-68A-GW041811 | Eu-155 | Suspended | -0.27 U | 1.3 | 0.39 | 0.64 |
| RD-68A | SORD-68A-GW041811 | Eu-155 | Total | -0.22 | NA | 0.97 | NA |
| RD-68A | SORD-68A-GW041811 | gross_alpha | Filtered | 0.52 | 0.42 | 0.16 | 0.22 |
| RD-68A | SORD-68A-GW041811 | gross_alpha | Suspended | 0.84 | 0.43 | 0.2 | 0.22 |
| RD-68A | SORD-68A-GW041811 | gross_alpha | Total | 1.36 | NA | 0.26 | NA |
| RD-68A | SORD-68A-GW041811 | gross_beta | Filtered | 1.76 | 1.8 | 0.58 | 1.1 |
| RD-68A | SORD-68A-GW041811 | gross_beta | Suspended | 0.19 U | 0.89 | 0.26 | 0.53 |
| RD-68A | SORD-68A-GW041811 | gross_beta | Total | 1.95 | NA | 0.64 | NA |
| RD-68A | SORD-68A-GW041811 | H-3 | Total | 69 U | 150 | 46 | 74 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-68A | SORD-68A-GW041811 | Ho-166m | Filtered | -0.7 U | 2 | 0.6 | 0.96 |
| RD-68A | SORD-68A-GW041811 | Ho-166m | Suspended | 0.08 U | 1.2 | 0.35 | 0.58 |
| RD-68A | SORD-68A-GW041811 | Ho-166m | Total | -0.62 | NA | 0.7 | NA |
| RD-68A | SORD-68A-GW041811 | K-40 | Filtered | -4 U | 16 | 5.3 | 7.7 |
| RD-68A | SORD-68A-GW041811 | K-40 | Suspended | -0.2 U | 12 | 3.2 | 5.7 |
| RD-68A | SORD-68A-GW041811 | K-40 | Total | -4.2 | NA | 6.1 | NA |
| RD-68A | SORD-68A-GW041811 | Na-22 | Filtered | -0.05 U | 1.2 | 0.33 | 0.55 |
| RD-68A | SORD-68A-GW041811 | Na-22 | Suspended | 0 U | 0.97 | 0.28 | 0.46 |
| RD-68A | SORD-68A-GW041811 | Na-22 | Total | -0.05 | NA | 0.44 | NA |
| RD-68A | SORD-68A-GW041811 | Nb-94 | Filtered | 0.3 U | 1.1 | 0.33 | 0.53 |
| RD-68A | SORD-68A-GW041811 | Nb-94 | Suspended | 0.21 U | 0.71 | 0.21 | 0.34 |
| RD-68A | SORD-68A-GW041811 | Nb-94 | Total | 0.52 | NA | 0.39 | NA |
| RD-68A | SORD-68A-GW041811 | Np-236 | Filtered | -0.37 U | 2.6 | 0.79 | 1.3 |
| RD-68A | SORD-68A-GW041811 | Np-236 | Suspended | -0.42 U | 1.2 | 0.36 | 0.57 |
| RD-68A | SORD-68A-GW041811 | Np-236 | Total | -0.8 | NA | 0.86 | NA |
| RD-68A | SORD-68A-GW041811 | Np-239 | Filtered | -1.8 U | 7.1 | 2.1 | 3.5 |
| RD-68A | SORD-68A-GW041811 | Np-239 | Suspended | -0.7 U | 3.8 | 1.1 | 1.8 |
| RD-68A | SORD-68A-GW041811 | Np-239 | Total | -2.5 | NA | 2.4 | NA |
| RD-68A | SORD-68A-GW041811 | Pa-231 | Filtered | -7 U | 49 | 15 | 24 |
| RD-68A | SORD-68A-GW041811 | Pa-231 | Suspended | 4.8 U | 25 | 7.6 | 12 |
| RD-68A | SORD-68A-GW041811 | Pa-231 | Total | -2 | NA | 16 | NA |
| RD-68A | SORD-68A-GW041811 | Pb-212 | Filtered | 1 U | 2.5 | 0.86 | 1.2 |
| RD-68A | SORD-68A-GW041811 | Pb-212 | Suspended | 0.49 U | 1.2 | 0.43 | 0.57 |
| RD-68A | SORD-68A-GW041811 | Pb-212 | Total | 1.49 | NA | 0.96 | NA |
| RD-68A | SORD-68A-GW041811 | Pb-214 | Filtered | 2.2 | 2.7 | 1.2 | 1.3 |
| RD-68A | SORD-68A-GW041811 | Pb-214 | Suspended | 1.01 | 1.4 | 0.57 | 0.68 |
| RD-68A | SORD-68A-GW041811 | Pb-214 | Total | 3.2 | NA | 1.3 | NA |
| RD-68A | SORD-68A-GW041811 | Sb-125 | Filtered | -0.2 U | 12 | 3.5 | 5.8 |
| RD-68A | SORD-68A-GW041811 | Sb-125 | Suspended | 2.3 U | 5.3 | 1.6 | 2.6 |
| RD-68A | SORD-68A-GW041811 | Sb-125 | Total | 2.1 | NA | 3.9 | NA |
| RD-68A | SORD-68A-GW041811 | Sn-126 | Filtered | 0.57 U | 1.2 | 0.38 | 0.59 |
| RD-68A | SORD-68A-GW041811 | Sn-126 | Suspended | 0.32 U | 0.74 | 0.22 | 0.35 |
| RD-68A | SORD-68A-GW041811 | Sn-126 | Total | 0.9 | NA | 0.44 | NA |
| RD-68A | SORD-68A-GW041811 | Sr-90 | Filtered | 0.009 U | 0.082 | 0.024 | 0.047 |
| RD-68A | SORD-68A-GW041811 | Sr-90 | Suspended | 0.001 U | 0.055 | 0.016 | 0.029 |
| RD-68A | SORD-68A-GW041811 | Sr-90 | Total | 0.01 | NA | 0.029 | NA |
| RD-68A | SORD-68A-GW041811 | Te-125m | Filtered | -0.04 U | 2.8 | 0.82 | 1.3 |
| RD-68A | SORD-68A-GW041811 | Te-125m | Suspended | 0.53 U | 1.2 | 0.37 | 0.59 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-68A | SORD-68A-GW041811 | Te-125m | Total | 0.49 | NA | 0.9 | NA |
| RD-68A | SORD-68A-GW041811 | Th-231 | Filtered | 0.0025 U | 0.0067 | 0.0025 | 0.0052 |
| RD-68A | SORD-68A-GW041811 | Th-231 | Suspended | 0.0025 U | 0.0067 | 0.0025 | 0.0052 |
| RD-68A | SORD-68A-GW041811 | Th-231 | Total | 0.005 | NA | 0.0035 | NA |
| RD-68A | SORD-68A-GW041811 | Th-234 | Filtered | 0.3 U | 22 | 7.6 | 11 |
| RD-68A | SORD-68A-GW041811 | Th-234 | Suspended | -3.3 U | 9 | 3.5 | 4.4 |
| RD-68A | SORD-68A-GW041811 | Th-234 | Total | -3 | NA | 8.4 | NA |
| RD-68A | SORD-68A-GW041811 | Tl-208 | Filtered | 0.24 U | 1.5 | 0.58 | 0.7 |
| RD-68A | SORD-68A-GW041811 | Tl-208 | Suspended | 0.42 | 0.76 | 0.29 | 0.37 |
| RD-68A | SORD-68A-GW041811 | Tl-208 | Total | 0.66 | NA | 0.65 | NA |
| RD-68A | SORD-68A-GW041811 | Tm-171 | Filtered | 90 U | 350 | 110 | 170 |
| RD-68A | SORD-68A-GW041811 | Tm-171 | Suspended | -8 U | 120 | 36 | 59 |
| RD-68A | SORD-68A-GW041811 | Tm-171 | Total | 80 | NA | 110 | NA |
| RD-68A | SORD-68A-GW041811 | U-233/234 | Filtered | 0.047 | 0.013 | 0.011 | 0.004 |
| RD-68A | SORD-68A-GW041811 | U-233/234 | Suspended | 0.0093 | 0.0054 | 0.0063 | 0.0042 |
| RD-68A | SORD-68A-GW041811 | U-233/234 | Total | 0.056 | NA | 0.013 | NA |
| RD-68A | SORD-68A-GW041811 | U-235/236 | Filtered | 0.0025 U | 0.0067 | 0.0025 | 0.0052 |
| RD-68A | SORD-68A-GW041811 | U-235/236 | Suspended | 0.0025 U | 0.0067 | 0.0025 | 0.0052 |
| RD-68A | SORD-68A-GW041811 | U-235/236 | Total | 0.005 | NA | 0.0035 | NA |
| RD-68A | SORD-68A-GW041811 | U-238 | Filtered | 0.0251 | 0.013 | 0.0084 | 0.0041 |
| RD-68A | SORD-68A-GW041811 | U-238 | Suspended | 0.0001 U | 0.0054 | 0.004 | 0.0042 |
| RD-68A | SORD-68A-GW041811 | U-238 | Total | 0.0252 | NA | 0.0093 | NA |
| RD-68B | SORD-68B-GW041811 | Ac-227 | Filtered | -2.4 U | 8.4 | 2.5 | 4.1 |
| RD-68B | SORD-68B-GW041811 | Ac-227 | Suspended | -1.7 U | 4.4 | 1.3 | 2.1 |
| RD-68B | SORD-68B-GW041811 | Ac-227 | Total | -4.2 | NA | 2.8 | NA |
| RD-68B | SORD-68B-GW041811 | Ac-228 | Filtered | 2.9 | 3.8 | 1.2 | 1.8 |
| RD-68B | SORD-68B-GW041811 | Ac-228 | Suspended | -0.7 U | 2.8 | 1.3 | 1.3 |
| RD-68B | SORD-68B-GW041811 | Ac-228 | Total | 2.2 | NA | 1.8 | NA |
| RD-68B | SORD-68B-GW041811 | Ag-108 | Filtered | -0.011 U R | 0.099 | 0.029 | 0.047 |
| RD-68B | SORD-68B-GW041811 | Ag-108 | Suspended | -0.002 U R | 0.051 | 0.015 | 0.024 |
| RD-68B | SORD-68B-GW041811 | Ag-108 | Total | -0.013 R | NA | 0.033 | NA |
| RD-68B | SORD-68B-GW041811 | Ag-108m | Filtered | -0.12 U R | 1.1 | 0.31 | 0.51 |
| RD-68B | SORD-68B-GW041811 | Ag-108m | Suspended | -0.02 U R | 0.55 | 0.16 | 0.26 |
| RD-68B | SORD-68B-GW041811 | Ag-108m | Total | -0.14 R | NA | 0.35 | NA |
| RD-68B | SORD-68B-GW041811 | Ba-133 | Filtered | -4.6 U R | 13 | 4 | 6.4 |
| RD-68B | SORD-68B-GW041811 | Ba-133 | Suspended | 0 U R | 6.1 | 1.8 | 2.9 |
| RD-68B | SORD-68B-GW041811 | Ba-133 | Total | -4.6 R | NA | 4.4 | NA |
| RD-68B | SORD-68B-GW041811 | Ba-137m | Filtered | 0.22 U | 1.2 | 0.35 | 0.56 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-68B | SORD-68B-GW041811 | Ba-137m | Suspended | 0.01 U | 0.7 | 0.2 | 0.33 |
| RD-68B | SORD-68B-GW041811 | Ba-137m | Total | 0.23 | NA | 0.4 | NA |
| RD-68B | SORD-68B-GW041811 | Bi-212 | Filtered | 2.9 U | 8.9 | 2.7 | 4.2 |
| RD-68B | SORD-68B-GW041811 | Bi-212 | Suspended | 2.1 U | 5.7 | 1.7 | 2.7 |
| RD-68B | SORD-68B-GW041811 | Bi-212 | Total | 5 | NA | 3.2 | NA |
| RD-68B | SORD-68B-GW041811 | Bi-214 | Filtered | 3.3 | 2.8 | 1.1 | 1.3 |
| RD-68B | SORD-68B-GW041811 | Bi-214 | Suspended | 0.97 | 1.8 | 0.67 | 0.85 |
| RD-68B | SORD-68B-GW041811 | Bi-214 | Total | 4.2 | NA | 1.2 | NA |
| RD-68B | SORD-68B-GW041811 | Cd-113m | Filtered | 1100 U | 13000 | 3700 | 6100 |
| RD-68B | SORD-68B-GW041811 | Cd-113m | Suspended | -700 U | 6300 | 1800 | 3000 |
| RD-68B | SORD-68B-GW041811 | Cd-113m | Total | 400 | NA | 4200 | NA |
| RD-68B | SORD-68B-GW041811 | Cf-249 | Filtered | 2.8 R | 5.1 | 1.5 | 2.4 |
| RD-68B | SORD-68B-GW041811 | Cf-249 | Suspended | -0.03 U R | 2.7 | 0.8 | 1.3 |
| RD-68B | SORD-68B-GW041811 | Cf-249 | Total | 2.8 R | NA | 1.7 | NA |
| RD-68B | SORD-68B-GW041811 | Co-60 | Filtered | 0 U | 1.2 | 0.34 | 0.56 |
| RD-68B | SORD-68B-GW041811 | Co-60 | Suspended | 0.22 U | 0.75 | 0.22 | 0.35 |
| RD-68B | SORD-68B-GW041811 | Co-60 | Total | 0.22 | NA | 0.41 | NA |
| RD-68B | SORD-68B-GW041811 | Cs-134 | Filtered | 0.46 U | 1.1 | 0.32 | 0.5 |
| RD-68B | SORD-68B-GW041811 | Cs-134 | Suspended | -0.28 U | 0.8 | 0.24 | 0.38 |
| RD-68B | SORD-68B-GW041811 | Cs-134 | Total | 0.18 | NA | 0.4 | NA |
| RD-68B | SORD-68B-GW041811 | Cs-137 | Filtered | 0.23 U | 1.3 | 0.37 | 0.6 |
| RD-68B | SORD-68B-GW041811 | Cs-137 | Suspended | 0.01 U | 0.74 | 0.21 | 0.35 |
| RD-68B | SORD-68B-GW041811 | Cs-137 | Total | 0.24 | NA | 0.43 | NA |
| RD-68B | SORD-68B-GW041811 | Eu-152 | Filtered | -0.03 U | 3.1 | 0.91 | 1.5 |
| RD-68B | SORD-68B-GW041811 | Eu-152 | Suspended | -0.33 U | 1.9 | 0.56 | 0.92 |
| RD-68B | SORD-68B-GW041811 | Eu-152 | Total | -0.4 | NA | 1.1 | NA |
| RD-68B | SORD-68B-GW041811 | Eu-154 | Filtered | 2.4 U | 9.7 | 2.9 | 4.5 |
| RD-68B | SORD-68B-GW041811 | Eu-154 | Suspended | -1.2 U | 4.4 | 1.3 | 2 |
| RD-68B | SORD-68B-GW041811 | Eu-154 | Total | 1.2 | NA | 3.1 | NA |
| RD-68B | SORD-68B-GW041811 | Eu-155 | Filtered | 0.23 U | 3.2 | 0.96 | 1.6 |
| RD-68B | SORD-68B-GW041811 | Eu-155 | Suspended | 0.19 U | 1.1 | 0.33 | 0.53 |
| RD-68B | SORD-68B-GW041811 | Eu-155 | Total | 0.4 | NA | 1 | NA |
| RD-68B | SORD-68B-GW041811 | gross_alpha | Filtered | 3.24 | 0.37 | 0.35 | 0.19 |
| RD-68B | SORD-68B-GW041811 | gross_alpha | Suspended | 0.38 | 0.49 | 0.17 | 0.26 |
| RD-68B | SORD-68B-GW041811 | gross_alpha | Total | 3.63 | NA | 0.39 | NA |
| RD-68B | SORD-68B-GW041811 | gross_beta | Filtered | 3.14 | 1.3 | 0.5 | 0.75 |
| RD-68B | SORD-68B-GW041811 | gross_beta | Suspended | 0.27 U | 0.86 | 0.26 | 0.51 |
| RD-68B | SORD-68B-GW041811 | gross_beta | Total | 3.41 | NA | 0.56 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-68B | SORD-68B-GW041811 | H-3 | Total | 38 U | 150 | 45 | 73 |
| RD-68B | SORD-68B-GW041811 | Ho-166m | Filtered | -0.01 U | 2 | 0.57 | 0.94 |
| RD-68B | SORD-68B-GW041811 | Ho-166m | Suspended | 0.18 U | 1.1 | 0.33 | 0.53 |
| RD-68B | SORD-68B-GW041811 | Ho-166m | Total | 0.16 | NA | 0.66 | NA |
| RD-68B | SORD-68B-GW041811 | K-40 | Filtered | 3.4 U | 16 | 4.8 | 7.7 |
| RD-68B | SORD-68B-GW041811 | K-40 | Suspended | -2.8 U | 11 | 3.7 | 5.4 |
| RD-68B | SORD-68B-GW041811 | K-40 | Total | 0.6 | NA | 6.1 | NA |
| RD-68B | SORD-68B-GW041811 | Na-22 | Filtered | -0.05 U | 1.3 | 0.37 | 0.61 |
| RD-68B | SORD-68B-GW041811 | Na-22 | Suspended | -0.17 U | 0.82 | 0.24 | 0.38 |
| RD-68B | SORD-68B-GW041811 | Na-22 | Total | -0.21 | NA | 0.44 | NA |
| RD-68B | SORD-68B-GW041811 | Nb-94 | Filtered | 0.08 U | 0.86 | 0.25 | 0.4 |
| RD-68B | SORD-68B-GW041811 | Nb-94 | Suspended | 0.1 U | 0.65 | 0.19 | 0.31 |
| RD-68B | SORD-68B-GW041811 | Nb-94 | Total | 0.19 | NA | 0.31 | NA |
| RD-68B | SORD-68B-GW041811 | Np-236 | Filtered | -0.52 U | 3 | 0.9 | 1.5 |
| RD-68B | SORD-68B-GW041811 | Np-236 | Suspended | -0.2 U | 1.3 | 0.37 | 0.61 |
| RD-68B | SORD-68B-GW041811 | Np-236 | Total | -0.73 | NA | 0.97 | NA |
| RD-68B | SORD-68B-GW041811 | Np-239 | Filtered | 0.07 U | 7.7 | 2.3 | 3.7 |
| RD-68B | SORD-68B-GW041811 | Np-239 | Suspended | 0.4 U | 3.7 | 1.1 | 1.8 |
| RD-68B | SORD-68B-GW041811 | Np-239 | Total | 0.5 | NA | 2.5 | NA |
| RD-68B | SORD-68B-GW041811 | Pa-231 | Filtered | 8 U | 56 | 17 | 27 |
| RD-68B | SORD-68B-GW041811 | Pa-231 | Suspended | 3.9 U | 27 | 8.1 | 13 |
| RD-68B | SORD-68B-GW041811 | Pa-231 | Total | 12 | NA | 19 | NA |
| RD-68B | SORD-68B-GW041811 | Pb-212 | Filtered | 1.19 U | 2.4 | 0.8 | 1.2 |
| RD-68B | SORD-68B-GW041811 | Pb-212 | Suspended | 0.89 | 1.1 | 0.41 | 0.55 |
| RD-68B | SORD-68B-GW041811 | Pb-212 | Total | 2.08 | NA | 0.9 | NA |
| RD-68B | SORD-68B-GW041811 | Pb-214 | Filtered | 1.25 | 2.3 | 0.77 | 1.1 |
| RD-68B | SORD-68B-GW041811 | Pb-214 | Suspended | 1.21 | 1.7 | 0.68 | 0.81 |
| RD-68B | SORD-68B-GW041811 | Pb-214 | Total | 2.5 | NA | 1 | NA |
| RD-68B | SORD-68B-GW041811 | Sb-125 | Filtered | -0.9 U | 14 | 4.1 | 6.7 |
| RD-68B | SORD-68B-GW041811 | Sb-125 | Suspended | 0.7 U | 5.5 | 1.6 | 2.7 |
| RD-68B | SORD-68B-GW041811 | Sb-125 | Total | -0.2 | NA | 4.4 | NA |
| RD-68B | SORD-68B-GW041811 | Sn-126 | Filtered | 0.5 U | 1.2 | 0.36 | 0.56 |
| RD-68B | SORD-68B-GW041811 | Sn-126 | Suspended | 0.44 | 0.78 | 0.24 | 0.37 |
| RD-68B | SORD-68B-GW041811 | Sn-126 | Total | 0.94 | NA | 0.43 | NA |
| RD-68B | SORD-68B-GW041811 | Sr-90 | Filtered | 0.029 U | 0.065 | 0.02 | 0.037 |
| RD-68B | SORD-68B-GW041811 | Sr-90 | Suspended | 0.023 U | 0.054 | 0.016 | 0.029 |
| RD-68B | SORD-68B-GW041811 | Sr-90 | Total | 0.053 | NA | 0.026 | NA |
| RD-68B | SORD-68B-GW041811 | Te-125m | Filtered | -0.21 U | 3.2 | 0.94 | 1.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-68B | SORD-68B-GW041811 | Te-125m | Suspended | 0.17 U | 1.3 | 0.38 | 0.62 |
| RD-68B | SORD-68B-GW041811 | Te-125m | Total | -0.04 | NA | 1 | NA |
| RD-68B | SORD-68B-GW041811 | Th-231 | Filtered | 0.0229 | 0.023 | 0.0092 | 0.008 |
| RD-68B | SORD-68B-GW041811 | Th-231 | Suspended | -0.0021 U | 0.017 | 0.0021 | 0.0054 |
| RD-68B | SORD-68B-GW041811 | Th-231 | Total | 0.0209 | NA | 0.0095 | NA |
| RD-68B | SORD-68B-GW041811 | Th-234 | Filtered | 1.2 U | 23 | 8.2 | 11 |
| RD-68B | SORD-68B-GW041811 | Th-234 | Suspended | -1.2 U | 7.2 | 2.4 | 3.5 |
| RD-68B | SORD-68B-GW041811 | Th-234 | Total | 0.07 | NA | 8.5 | NA |
| RD-68B | SORD-68B-GW041811 | Tl-208 | Filtered | 1.2 | 1.6 | 0.68 | 0.78 |
| RD-68B | SORD-68B-GW041811 | Tl-208 | Suspended | 0.05 U | 0.81 | 0.22 | 0.39 |
| RD-68B | SORD-68B-GW041811 | Tl-208 | Total | 1.25 | NA | 0.72 | NA |
| RD-68B | SORD-68B-GW041811 | Tm-171 | Filtered | 20 U | 370 | 110 | 180 |
| RD-68B | SORD-68B-GW041811 | Tm-171 | Suspended | -20 U | 120 | 37 | 61 |
| RD-68B | SORD-68B-GW041811 | Tm-171 | Total | -2 | NA | 120 | NA |
| RD-68B | SORD-68B-GW041811 | U-233/234 | Filtered | 0.688 | 0.006 | 0.049 | 0.005 |
| RD-68B | SORD-68B-GW041811 | U-233/234 | Suspended | 0.0049 U | 0.02 | 0.0072 | 0.0075 |
| RD-68B | SORD-68B-GW041811 | U-233/234 | Total | 0.693 | NA | 0.049 | NA |
| RD-68B | SORD-68B-GW041811 | U-235/236 | Filtered | 0.0229 | 0.023 | 0.0092 | 0.008 |
| RD-68B | SORD-68B-GW041811 | U-235/236 | Suspended | -0.0021 U | 0.017 | 0.0021 | 0.0054 |
| RD-68B | SORD-68B-GW041811 | U-235/236 | Total | 0.0209 | NA | 0.0095 | NA |
| RD-68B | SORD-68B-GW041811 | U-238 | Filtered | 0.42 | 0.006 | 0.035 | 0.005 |
| RD-68B | SORD-68B-GW041811 | U-238 | Suspended | 0.0152 | 0.014 | 0.0074 | 0.0043 |
| RD-68B | SORD-68B-GW041811 | U-238 | Total | 0.435 | NA | 0.036 | NA |
| RD-70 | SMRD-70-GW041811 | Ac-227 | Filtered | -5.6 U | 9 | 2.8 | 4.4 |
| RD-70 | SMRD-70-GW041811 | Ac-227 | Suspended | -2.9 L U | 4.6 | 1.4 | 2.2 |
| RD-70 | SMRD-70-GW041811 | Ac-227 | Total | -8.5 L | NA | 3.1 | NA |
| RD-70 | SMRD-70-GW041811 | Ac-228 | Filtered | 3.7 | 3.7 | 1.2 | 1.7 |
| RD-70 | SMRD-70-GW041811 | Ac-228 | Suspended | 0.09 U | 2.7 | 0.7 | 1.3 |
| RD-70 | SMRD-70-GW041811 | Ac-228 | Total | 3.8 | NA | 1.4 | NA |
| RD-70 | SMRD-70-GW041811 | Ag-108 | Filtered | 0.035 U R | 0.081 | 0.025 | 0.039 |
| RD-70 | SMRD-70-GW041811 | Ag-108 | Suspended | 0.012 U R | 0.041 | 0.012 | 0.02 |
| RD-70 | SMRD-70-GW041811 | Ag-108 | Total | 0.047 R | NA | 0.027 | NA |
| RD-70 | SMRD-70-GW041811 | Ag-108m | Filtered | 0.38 U R | 0.87 | 0.26 | 0.42 |
| RD-70 | SMRD-70-GW041811 | Ag-108m | Suspended | 0.13 U R | 0.44 | 0.13 | 0.21 |
| RD-70 | SMRD-70-GW041811 | Ag-108m | Total | 0.5 R | NA | 0.29 | NA |
| RD-70 | SMRD-70-GW041811 | Ba-133 | Filtered | -0.004 U R | 12 | 3.4 | 5.7 |
| RD-70 | SMRD-70-GW041811 | Ba-133 | Suspended | 0.2 U R | 6 | 1.8 | 2.9 |
| RD-70 | SMRD-70-GW041811 | Ba-133 | Total | 0.2 R | NA | 3.9 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-70 | SMRD-70-GW041811 | Ba-137m | Filtered | -0.54 U | 1.2 | 0.35 | 0.56 |
| RD-70 | SMRD-70-GW041811 | Ba-137m | Suspended | -0.19 U | 0.73 | 0.22 | 0.35 |
| RD-70 | SMRD-70-GW041811 | Ba-137m | Total | -0.72 | NA | 0.41 | NA |
| RD-70 | SMRD-70-GW041811 | Bi-212 | Filtered | 6.6 | 7.2 | 2.3 | 3.4 |
| RD-70 | SMRD-70-GW041811 | Bi-212 | Suspended | 2.4 | 5 | 1.5 | 2.4 |
| RD-70 | SMRD-70-GW041811 | Bi-212 | Total | 9 | NA | 2.8 | NA |
| RD-70 | SMRD-70-GW041811 | Bi-214 | Filtered | 2.7 | 2.6 | 1.1 | 1.2 |
| RD-70 | SMRD-70-GW041811 | Bi-214 | Suspended | 0.86 | 1.6 | 0.59 | 0.79 |
| RD-70 | SMRD-70-GW041811 | Bi-214 | Total | 3.5 | NA | 1.3 | NA |
| RD-70 | SMRD-70-GW041811 | Cd-113m | Filtered | 2400 U | 13000 | 3800 | 6200 |
| RD-70 | SMRD-70-GW041811 | Cd-113m | Suspended | -300 U | 6200 | 1800 | 3000 |
| RD-70 | SMRD-70-GW041811 | Cd-113m | Total | 2100 | NA | 4200 | NA |
| RD-70 | SMRD-70-GW041811 | Cf-249 | Filtered | -0.3 U R | 5.2 | 1.5 | 2.5 |
| RD-70 | SMRD-70-GW041811 | Cf-249 | Suspended | -0.9 U R | 3.4 | 1 | 1.7 |
| RD-70 | SMRD-70-GW041811 | Cf-249 | Total | -1.1 R | NA | 1.8 | NA |
| RD-70 | SMRD-70-GW041811 | Co-60 | Filtered | 0.3 U | 1.1 | 0.32 | 0.5 |
| RD-70 | SMRD-70-GW041811 | Co-60 | Suspended | 0.33 | 0.53 | 0.17 | 0.24 |
| RD-70 | SMRD-70-GW041811 | Co-60 | Total | 0.63 | NA | 0.36 | NA |
| RD-70 | SMRD-70-GW041811 | Cs-134 | Filtered | 0 U | 1.5 | 0.43 | 0.71 |
| RD-70 | SMRD-70-GW041811 | Cs-134 | Suspended | -0.32 U | 0.75 | 0.23 | 0.36 |
| RD-70 | SMRD-70-GW041811 | Cs-134 | Total | -0.32 | NA | 0.49 | NA |
| RD-70 | SMRD-70-GW041811 | Cs-137 | Filtered | -0.57 U | 1.2 | 0.37 | 0.59 |
| RD-70 | SMRD-70-GW041811 | Cs-137 | Suspended | -0.2 U | 0.77 | 0.23 | 0.37 |
| RD-70 | SMRD-70-GW041811 | Cs-137 | Total | -0.76 | NA | 0.44 | NA |
| RD-70 | SMRD-70-GW041811 | Eu-152 | Filtered | -0.28 U | 3.1 | 0.9 | 1.5 |
| RD-70 | SMRD-70-GW041811 | Eu-152 | Suspended | 0.07 U | 1.7 | 0.5 | 0.83 |
| RD-70 | SMRD-70-GW041811 | Eu-152 | Total | -0.2 | NA | 1 | NA |
| RD-70 | SMRD-70-GW041811 | Eu-154 | Filtered | 1.2 U | 8.4 | 2.4 | 3.9 |
| RD-70 | SMRD-70-GW041811 | Eu-154 | Suspended | 0.9 U | 5 | 1.5 | 2.3 |
| RD-70 | SMRD-70-GW041811 | Eu-154 | Total | 2.1 | NA | 2.8 | NA |
| RD-70 | SMRD-70-GW041811 | Eu-155 | Filtered | 0.008 U | 3.3 | 0.97 | 1.6 |
| RD-70 | SMRD-70-GW041811 | Eu-155 | Suspended | 0.22 U | 1.1 | 0.34 | 0.55 |
| RD-70 | SMRD-70-GW041811 | Eu-155 | Total | 0.2 | NA | 1 | NA |
| RD-70 | SMRD-70-GW041811 | gross_alpha | Filtered | 4.38 | 0.42 | 0.42 | 0.22 |
| RD-70 | SMRD-70-GW041811 | gross_alpha | Suspended | 0.22 U | 0.5 | 0.15 | 0.27 |
| RD-70 | SMRD-70-GW041811 | gross_alpha | Total | 4.6 | NA | 0.45 | NA |
| RD-70 | SMRD-70-GW041811 | gross_beta | Filtered | 2.57 | 1.8 | 0.63 | 1.1 |
| RD-70 | SMRD-70-GW041811 | gross_beta | Suspended | 0.31 U | 0.93 | 0.28 | 0.56 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-70 | SMRD-70-GW041811 | gross_beta | Total | 2.88 | NA | 0.69 | NA |
| RD-70 | SMRD-70-GW041811 | H-3 | Total | -4 U | 240 | 69 | 120 |
| RD-70 | SMRD-70-GW041811 | Ho-166m | Filtered | 0.53 U | 1.8 | 0.53 | 0.84 |
| RD-70 | SMRD-70-GW041811 | Ho-166m | Suspended | 0.317 U | 1.2 | 0.08 | 0.56 |
| RD-70 | SMRD-70-GW041811 | Ho-166m | Total | 0.85 | NA | 0.54 | NA |
| RD-70 | SMRD-70-GW041811 | K-40 | Filtered | -10.8 U | 19 | 9 | 9.2 |
| RD-70 | SMRD-70-GW041811 | K-40 | Suspended | 4 U | 11 | 3.8 | 5 |
| RD-70 | SMRD-70-GW041811 | K-40 | Total | -6.8 | NA | 9.8 | NA |
| RD-70 | SMRD-70-GW041811 | Na-22 | Filtered | -0.19 U | 1.2 | 0.34 | 0.55 |
| RD-70 | SMRD-70-GW041811 | Na-22 | Suspended | -0.02 U | 0.8 | 0.23 | 0.38 |
| RD-70 | SMRD-70-GW041811 | Na-22 | Total | -0.21 | NA | 0.41 | NA |
| RD-70 | SMRD-70-GW041811 | Nb-94 | Filtered | 0.11 U | 1.1 | 0.31 | 0.51 |
| RD-70 | SMRD-70-GW041811 | Nb-94 | Suspended | -0.06 U | 0.59 | 0.17 | 0.28 |
| RD-70 | SMRD-70-GW041811 | Nb-94 | Total | 0.05 | NA | 0.36 | NA |
| RD-70 | SMRD-70-GW041811 | Np-236 | Filtered | -0.03 U | 2.2 | 0.65 | 1.1 |
| RD-70 | SMRD-70-GW041811 | Np-236 | Suspended | 0.07 U | 1.1 | 0.34 | 0.56 |
| RD-70 | SMRD-70-GW041811 | Np-236 | Total | 0.05 | NA | 0.74 | NA |
| RD-70 | SMRD-70-GW041811 | Np-239 | Filtered | 1.3 U | 7.2 | 2.1 | 3.5 |
| RD-70 | SMRD-70-GW041811 | Np-239 | Suspended | -0.1 U | 4.1 | 1.2 | 2 |
| RD-70 | SMRD-70-GW041811 | Np-239 | Total | 1.2 | NA | 2.5 | NA |
| RD-70 | SMRD-70-GW041811 | Pa-231 | Filtered | 16 U | 51 | 15 | 25 |
| RD-70 | SMRD-70-GW041811 | Pa-231 | Suspended | -1.5 U | 27 | 8.1 | 13 |
| RD-70 | SMRD-70-GW041811 | Pa-231 | Total | 15 | NA | 17 | NA |
| RD-70 | SMRD-70-GW041811 | Pb-212 | Filtered | 0.38 U | 2.1 | 0.58 | 1 |
| RD-70 | SMRD-70-GW041811 | Pb-212 | Suspended | 0.24 U | 1.1 | 0.38 | 0.54 |
| RD-70 | SMRD-70-GW041811 | Pb-212 | Total | 0.62 | NA | 0.69 | NA |
| RD-70 | SMRD-70-GW041811 | Pb-214 | Filtered | 0.37 U | 2.5 | 0.94 | 1.2 |
| RD-70 | SMRD-70-GW041811 | Pb-214 | Suspended | 0.36 U | 1.6 | 0.63 | 0.78 |
| RD-70 | SMRD-70-GW041811 | Pb-214 | Total | 0.7 | NA | 1.1 | NA |
| RD-70 | SMRD-70-GW041811 | Sb-125 | Filtered | 2.7 U | 12 | 3.7 | 6 |
| RD-70 | SMRD-70-GW041811 | Sb-125 | Suspended | -0.2 U | 5.6 | 1.7 | 2.7 |
| RD-70 | SMRD-70-GW041811 | Sb-125 | Total | 2.5 | NA | 4 | NA |
| RD-70 | SMRD-70-GW041811 | Sn-126 | Filtered | 0.26 U | 1.2 | 0.35 | 0.57 |
| RD-70 | SMRD-70-GW041811 | Sn-126 | Suspended | 0.35 U | 0.75 | 0.23 | 0.36 |
| RD-70 | SMRD-70-GW041811 | Sn-126 | Total | 0.61 | NA | 0.42 | NA |
| RD-70 | SMRD-70-GW041811 | Sr-90 | Filtered | 0.016 U | 0.13 | 0.037 | 0.076 |
| RD-70 | SMRD-70-GW041811 | Sr-90 | Suspended | 0.001 U | 0.062 | 0.018 | 0.033 |
| RD-70 | SMRD-70-GW041811 | Sr-90 | Total | 0.017 | NA | 0.041 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-70 | SMRD-70-GW041811 | Te-125m | Filtered | 0.62 U | 2.8 | 0.85 | 1.4 |
| RD-70 | SMRD-70-GW041811 | Te-125m | Suspended | -0.04 U | 1.3 | 0.38 | 0.63 |
| RD-70 | SMRD-70-GW041811 | Te-125m | Total | 0.57 | NA | 0.93 | NA |
| RD-70 | SMRD-70-GW041811 | Th-231 | Filtered | 0.067 | 0.007 | 0.013 | 0.005 |
| RD-70 | SMRD-70-GW041811 | Th-231 | Suspended | 0.0029 U | 0.016 | 0.004 | 0.0051 |
| RD-70 | SMRD-70-GW041811 | Th-231 | Total | 0.07 | NA | 0.014 | NA |
| RD-70 | SMRD-70-GW041811 | Th-234 | Filtered | 1.9 U | 23 | 7.4 | 11 |
| RD-70 | SMRD-70-GW041811 | Th-234 | Suspended | -0.5 U | 7.6 | 2.7 | 3.7 |
| RD-70 | SMRD-70-GW041811 | Th-234 | Total | 1.4 | NA | 7.9 | NA |
| RD-70 | SMRD-70-GW041811 | Tl-208 | Filtered | 0.26 U | 1.2 | 0.37 | 0.58 |
| RD-70 | SMRD-70-GW041811 | Tl-208 | Suspended | 0.46 | 0.63 | 0.22 | 0.3 |
| RD-70 | SMRD-70-GW041811 | Tl-208 | Total | 0.72 | NA | 0.43 | NA |
| RD-70 | SMRD-70-GW041811 | Tm-171 | Filtered | 90 U | 340 | 100 | 170 |
| RD-70 | SMRD-70-GW041811 | Tm-171 | Suspended | 7 U | 110 | 34 | 56 |
| RD-70 | SMRD-70-GW041811 | Tm-171 | Total | 100 | NA | 110 | NA |
| RD-70 | SMRD-70-GW041811 | U-233/234 | Filtered | 1.42 | 0.006 | 0.081 | 0.004 |
| RD-70 | SMRD-70-GW041811 | U-233/234 | Suspended | 0.0095 | 0.013 | 0.0067 | 0.0041 |
| RD-70 | SMRD-70-GW041811 | U-233/234 | Total | 1.43 | NA | 0.081 | NA |
| RD-70 | SMRD-70-GW041811 | U-235/236 | Filtered | 0.067 | 0.007 | 0.013 | 0.005 |
| RD-70 | SMRD-70-GW041811 | U-235/236 | Suspended | 0.0029 U | 0.016 | 0.004 | 0.0051 |
| RD-70 | SMRD-70-GW041811 | U-235/236 | Total | 0.07 | NA | 0.014 | NA |
| RD-70 | SMRD-70-GW041811 | U-238 | Filtered | 1.13 | 0.014 | 0.068 | 0.004 |
| RD-70 | SMRD-70-GW041811 | U-238 | Suspended | 0.002 U | 0.0053 | 0.0044 | 0.0041 |
| RD-70 | SMRD-70-GW041811 | U-238 | Total | 1.13 | NA | 0.068 | NA |
| RD-85 | SMRD-85-GW031711 | Ac-227 | Filtered | 1 U | 8.5 | 2.5 | 4.1 |
| RD-85 | SMRD-85-GW031711 | Ac-227 | Suspended | -3.1 L U | 4.5 | 1.4 | 2.2 |
| RD-85 | SMRD-85-GW031711 | Ac-227 | Total | -2 | NA | 2.9 | NA |
| RD-85 | SMRD-85-GW031711 | Ac-228 | Filtered | 2.9 | 4.9 | 1.5 | 2.3 |
| RD-85 | SMRD-85-GW031711 | Ac-228 | Suspended | 2.35 | 1.9 | 0.64 | 0.88 |
| RD-85 | SMRD-85-GW031711 | Ac-228 | Total | 5.2 | NA | 1.7 | NA |
| RD-85 | SMRD-85-GW031711 | Ag-108 | Filtered | -0.012 R | 0.11 | 0.032 | 0.053 |
| RD-85 | SMRD-85-GW031711 | Ag-108 | Suspended | 0.01 R | 0.038 | 0.011 | 0.018 |
| RD-85 | SMRD-85-GW031711 | Ag-108 | Total | -0.001 R | NA | 0.034 | NA |
| RD-85 | SMRD-85-GW031711 | Ag-108m | Filtered | -0.12 R | 1.2 | 0.35 | 0.57 |
| RD-85 | SMRD-85-GW031711 | Ag-108m | Suspended | 0.11 R | 0.41 | 0.12 | 0.19 |
| RD-85 | SMRD-85-GW031711 | Ag-108m | Total | -0.01 R | NA | 0.37 | NA |
| RD-85 | SMRD-85-GW031711 | Ba-133 | Filtered | -0.3 R | 15 | 4.3 | 7.1 |
| RD-85 | SMRD-85-GW031711 | Ba-133 | Suspended | 0.4 R | 5.5 | 1.6 | 2.7 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-85 | SMRD-85-GW031711 | Ba-133 | Total | 0.1 R | NA | 4.6 | NA |
| RD-85 | SMRD-85-GW031711 | Ba-137m | Filtered | 0.7 | 1.4 | 0.43 | 0.67 |
| RD-85 | SMRD-85-GW031711 | Ba-137m | Suspended | -0.04 U | 0.64 | 0.19 | 0.31 |
| RD-85 | SMRD-85-GW031711 | Ba-137m | Total | 0.66 | NA | 0.47 | NA |
| RD-85 | SMRD-85-GW031711 | Bi-212 | Filtered | -10 U | 15 | 30 | 7 |
| RD-85 | SMRD-85-GW031711 | Bi-212 | Suspended | -2 U | 6 | 34 | 3 |
| RD-85 | SMRD-85-GW031711 | Bi-212 | Total | -13 | NA | 45 | NA |
| RD-85 | SMRD-85-GW031711 | Bi-214 | Filtered | 2.5 | 3.2 | 1.2 | 1.5 |
| RD-85 | SMRD-85-GW031711 | Bi-214 | Suspended | -0.27 U | 1.7 | 0.77 | 0.84 |
| RD-85 | SMRD-85-GW031711 | Bi-214 | Total | 2.3 | NA | 1.4 | NA |
| RD-85 | SMRD-85-GW031711 | Cd-113m | Filtered | 900 U | 16000 | 4800 | 7900 |
| RD-85 | SMRD-85-GW031711 | Cd-113m | Suspended | 1300 U | 6200 | 1800 | 3000 |
| RD-85 | SMRD-85-GW031711 | Cd-113m | Total | 2200 | NA | 5200 | NA |
| RD-85 | SMRD-85-GW031711 | Cf-249 | Filtered | 1.9 R | 6.3 | 1.9 | 3 |
| RD-85 | SMRD-85-GW031711 | Cf-249 | Suspended | 0.007 R | 2.9 | 0.86 | 1.4 |
| RD-85 | SMRD-85-GW031711 | Cf-249 | Total | 1.9 R | NA | 2.1 | NA |
| RD-85 | SMRD-85-GW031711 | Co-60 | Filtered | 0.34 U | 1.5 | 0.42 | 0.65 |
| RD-85 | SMRD-85-GW031711 | Co-60 | Suspended | 0.12 U | 0.77 | 0.22 | 0.36 |
| RD-85 | SMRD-85-GW031711 | Co-60 | Total | 0.46 | NA | 0.47 | NA |
| RD-85 | SMRD-85-GW031711 | Cs-134 | Filtered | 0.23 U | 1.4 | 0.4 | 0.65 |
| RD-85 | SMRD-85-GW031711 | Cs-134 | Suspended | 0 U | 0.89 | 0.26 | 0.43 |
| RD-85 | SMRD-85-GW031711 | Cs-134 | Total | 0.23 | NA | 0.48 | NA |
| RD-85 | SMRD-85-GW031711 | Cs-137 | Filtered | 0.73 | 1.5 | 0.46 | 0.7 |
| RD-85 | SMRD-85-GW031711 | Cs-137 | Suspended | -0.04 U | 0.68 | 0.2 | 0.32 |
| RD-85 | SMRD-85-GW031711 | Cs-137 | Total | 0.7 | NA | 0.5 | NA |
| RD-85 | SMRD-85-GW031711 | Eu-152 | Filtered | -0.8 U | 4.2 | 1.2 | 2 |
| RD-85 | SMRD-85-GW031711 | Eu-152 | Suspended | -0.35 U | 1.6 | 0.47 | 0.76 |
| RD-85 | SMRD-85-GW031711 | Eu-152 | Total | -1.2 | NA | 1.3 | NA |
| RD-85 | SMRD-85-GW031711 | Eu-154 | Filtered | 0.5 U | 13 | 3.7 | 6.1 |
| RD-85 | SMRD-85-GW031711 | Eu-154 | Suspended | -0.6 U | 6.1 | 1.8 | 2.9 |
| RD-85 | SMRD-85-GW031711 | Eu-154 | Total | -0.08 | NA | 4.1 | NA |
| RD-85 | SMRD-85-GW031711 | Eu-155 | Filtered | -0.48 U | 3.3 | 0.99 | 1.6 |
| RD-85 | SMRD-85-GW031711 | Eu-155 | Suspended | -0.005 U | 1.2 | 0.35 | 0.57 |
| RD-85 | SMRD-85-GW031711 | Eu-155 | Total | -0.5 | NA | 1 | NA |
| RD-85 | SMRD-85-GW031711 | gross_alpha | Filtered | 5.63 | 0.52 | 0.51 | 0.28 |
| RD-85 | SMRD-85-GW031711 | gross_alpha | Suspended | 1.5 | 0.95 | 0.41 | 0.48 |
| RD-85 | SMRD-85-GW031711 | gross_alpha | Total | 7.14 | NA | 0.65 | NA |
| RD-85 | SMRD-85-GW031711 | gross_beta | Filtered | 5.5 | 3.2 | 1.2 | 1.9 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-85 | SMRD-85-GW031711 | gross_beta | Suspended | 0.94 | 0.88 | 0.3 | 0.52 |
| RD-85 | SMRD-85-GW031711 | gross_beta | Total | 6.4 | NA | 1.2 | NA |
| RD-85 | SMRD-85-GW031711 | H-3 | Total | 13 U B | 140 | 42 | 69 |
| RD-85 | SMRD-85-GW031711 | Ho-166m | Filtered | 0.08 U | 2.1 | 0.59 | 0.97 |
| RD-85 | SMRD-85-GW031711 | Ho-166m | Suspended | 0.26 U | 1 | 0.31 | 0.49 |
| RD-85 | SMRD-85-GW031711 | Ho-166m | Total | 0.34 | NA | 0.67 | NA |
| RD-85 | SMRD-85-GW031711 | K-40 | Filtered | -26 U | 25 | 82 | 12 |
| RD-85 | SMRD-85-GW031711 | K-40 | Suspended | -1.2 U | 9.5 | 2.8 | 4.5 |
| RD-85 | SMRD-85-GW031711 | K-40 | Total | -28 | NA | 82 | NA |
| RD-85 | SMRD-85-GW031711 | Na-22 | Filtered | 0.08 U | 1.5 | 0.41 | 0.66 |
| RD-85 | SMRD-85-GW031711 | Na-22 | Suspended | 0 U | 0.94 | 0.27 | 0.44 |
| RD-85 | SMRD-85-GW031711 | Na-22 | Total | 0.08 | NA | 0.49 | NA |
| RD-85 | SMRD-85-GW031711 | Nb-94 | Filtered | 0.5 SK | 1.1 | 0.33 | 0.49 |
| RD-85 | SMRD-85-GW031711 | Nb-94 | Suspended | 0.18 U | 0.6 | 0.18 | 0.29 |
| RD-85 | SMRD-85-GW031711 | Nb-94 | Total | 0.69 | NA | 0.37 | NA |
| RD-85 | SMRD-85-GW031711 | Np-236 | Filtered | -1.31 U | 3.2 | 0.96 | 1.5 |
| RD-85 | SMRD-85-GW031711 | Np-236 | Suspended | 0.25 U | 1 | 0.31 | 0.5 |
| RD-85 | SMRD-85-GW031711 | Np-236 | Total | -1.1 | NA | 1 | NA |
| RD-85 | SMRD-85-GW031711 | Np-239 | Filtered | 0.1 U | 8.5 | 2.5 | 4.1 |
| RD-85 | SMRD-85-GW031711 | Np-239 | Suspended | 0.06 U | 3.6 | 1 | 1.7 |
| RD-85 | SMRD-85-GW031711 | Np-239 | Total | 0.2 | NA | 2.7 | NA |
| RD-85 | SMRD-85-GW031711 | Pa-231 | Filtered | 20 U | 58 | 17 | 28 |
| RD-85 | SMRD-85-GW031711 | Pa-231 | Suspended | -4 U | 27 | 8.1 | 13 |
| RD-85 | SMRD-85-GW031711 | Pa-231 | Total | 16 | NA | 19 | NA |
| RD-85 | SMRD-85-GW031711 | Pb-212 | Filtered | -0.63 U | 2.3 | 0.99 | 1.1 |
| RD-85 | SMRD-85-GW031711 | Pb-212 | Suspended | 0.07 U | 1.1 | 0.36 | 0.52 |
| RD-85 | SMRD-85-GW031711 | Pb-212 | Total | -0.6 | NA | 1.1 | NA |
| RD-85 | SMRD-85-GW031711 | Pb-214 | Filtered | -0.6 U | 3.4 | 1.2 | 1.6 |
| RD-85 | SMRD-85-GW031711 | Pb-214 | Suspended | -0.41 U | 1.6 | 0.78 | 0.76 |
| RD-85 | SMRD-85-GW031711 | Pb-214 | Total | -1 | NA | 1.4 | NA |
| RD-85 | SMRD-85-GW031711 | Sb-125 | Filtered | 3.8 U | 13 | 4 | 6.4 |
| RD-85 | SMRD-85-GW031711 | Sb-125 | Suspended | 1.7 U | 5.2 | 1.6 | 2.5 |
| RD-85 | SMRD-85-GW031711 | Sb-125 | Total | 5.5 | NA | 4.3 | NA |
| RD-85 | SMRD-85-GW031711 | Sn-126 | Filtered | 0.66 | 1.3 | 0.41 | 0.62 |
| RD-85 | SMRD-85-GW031711 | Sn-126 | Suspended | 0.09 U | 0.77 | 0.22 | 0.37 |
| RD-85 | SMRD-85-GW031711 | Sn-126 | Total | 0.75 | NA | 0.47 | NA |
| RD-85 | SMRD-85-GW031711 | Sr-90 | Filtered | -0.005 U | 0.12 | 0.035 | 0.07 |
| RD-85 | SMRD-85-GW031711 | Sr-90 | Suspended | -0.04 U | 0.15 | 0.04 | 0.089 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-85 | SMRD-85-GW031711 | Sr-90 | Total | -0.045 | NA | 0.053 | NA |
| RD-85 | SMRD-85-GW031711 | Te-125m | Filtered | 0.87 U | 3.1 | 0.92 | 1.5 |
| RD-85 | SMRD-85-GW031711 | Te-125m | Suspended | 0.4 U | 1.2 | 0.36 | 0.58 |
| RD-85 | SMRD-85-GW031711 | Te-125m | Total | 1.27 | NA | 0.99 | NA |
| RD-85 | SMRD-85-GW031711 | Th-231 | Filtered | 0.082 | 0.008 | 0.016 | 0.006 |
| RD-85 | SMRD-85-GW031711 | Th-231 | Suspended | 0 U | 0.0069 | 0.0026 | 0.006 |
| RD-85 | SMRD-85-GW031711 | Th-231 | Total | 0.082 | NA | 0.016 | NA |
| RD-85 | SMRD-85-GW031711 | Th-234 | Filtered | -7 U | 25 | 12 | 12 |
| RD-85 | SMRD-85-GW031711 | Th-234 | Suspended | 3.1 U | 7.5 | 2.6 | 3.6 |
| RD-85 | SMRD-85-GW031711 | Th-234 | Total | -4 | NA | 12 | NA |
| RD-85 | SMRD-85-GW031711 | Tl-208 | Filtered | 0.08 U | 1.7 | 0.43 | 0.79 |
| RD-85 | SMRD-85-GW031711 | Tl-208 | Suspended | 0.61 | 0.75 | 0.3 | 0.36 |
| RD-85 | SMRD-85-GW031711 | Tl-208 | Total | 0.7 | NA | 0.53 | NA |
| RD-85 | SMRD-85-GW031711 | Tm-171 | Filtered | 24 U | 330 | 97 | 160 |
| RD-85 | SMRD-85-GW031711 | Tm-171 | Suspended | -45 U | 120 | 36 | 57 |
| RD-85 | SMRD-85-GW031711 | Tm-171 | Total | -20 | NA | 100 | NA |
| RD-85 | SMRD-85-GW031711 | U-233/234 | Filtered | 1.98 | 0.006 | 0.11 | 0.005 |
| RD-85 | SMRD-85-GW031711 | U-233/234 | Suspended | -0.0043 U | 0.015 | 0.0046 | 0.0048 |
| RD-85 | SMRD-85-GW031711 | U-233/234 | Total | 1.98 | NA | 0.11 | NA |
| RD-85 | SMRD-85-GW031711 | U-235/236 | Filtered | 0.082 | 0.008 | 0.016 | 0.006 |
| RD-85 | SMRD-85-GW031711 | U-235/236 | Suspended | 0 U | 0.0069 | 0.0026 | 0.006 |
| RD-85 | SMRD-85-GW031711 | U-235/236 | Total | 0.082 | NA | 0.016 | NA |
| RD-85 | SMRD-85-GW031711 | U-238 | Filtered | 1.63 | 0.015 | 0.092 | 0.005 |
| RD-85 | SMRD-85-GW031711 | U-238 | Suspended | 0.0087 | 0.019 | 0.0071 | 0.0068 |
| RD-85 | SMRD-85-GW031711 | U-238 | Total | 1.64 | NA | 0.092 | NA |
| RD-86 | SMRD-86-GW032911 | Ac-227 | Filtered | -2.6 U | 8.5 | 2.6 | 4.1 |
| RD-86 | SMRD-86-GW032911 | Ac-227 | Suspended | -2.6 U | 4.4 | 1.3 | 2.1 |
| RD-86 | SMRD-86-GW032911 | Ac-227 | Total | -5.1 | NA | 2.9 | NA |
| RD-86 | SMRD-86-GW032911 | Ac-228 | Filtered | 3.8 | 4.3 | 1.4 | 2 |
| RD-86 | SMRD-86-GW032911 | Ac-228 | Suspended | 1.52 | 1.9 | 0.6 | 0.89 |
| RD-86 | SMRD-86-GW032911 | Ac-228 | Total | 5.3 | NA | 1.5 | NA |
| RD-86 | SMRD-86-GW032911 | Ag-108 | Filtered | 0.031 U R | 0.11 | 0.032 | 0.051 |
| RD-86 | SMRD-86-GW032911 | Ag-108 | Suspended | 0.004 U R | 0.046 | 0.014 | 0.022 |
| RD-86 | SMRD-86-GW032911 | Ag-108 | Total | 0.035 R | NA | 0.035 | NA |
| RD-86 | SMRD-86-GW032911 | Ag-108m | Filtered | 0.33 U R | 1.2 | 0.34 | 0.55 |
| RD-86 | SMRD-86-GW032911 | Ag-108m | Suspended | 0.04 U R | 0.5 | 0.15 | 0.24 |
| RD-86 | SMRD-86-GW032911 | Ag-108m | Total | 0.38 R | NA | 0.37 | NA |
| RD-86 | SMRD-86-GW032911 | Am-241 | Filtered | 0.002 U | 0.019 | 0.0045 | 0.0066 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-86 | SMRD-86-GW032911 | Am-241 | Suspended | 0.0068 | 0.011 | 0.0039 | 0.0034 |
| RD-86 | SMRD-86-GW032911 | Am-241 | Total | 0.0088 | NA | 0.006 | NA |
| RD-86 | SMRD-86-GW032911 | Ba-133 | Filtered | 0.7 U R | 13 | 3.8 | 6.3 |
| RD-86 | SMRD-86-GW032911 | Ba-133 | Suspended | -1.1 U R | 5.6 | 1.7 | 2.7 |
| RD-86 | SMRD-86-GW032911 | Ba-133 | Total | -0.4 R | NA | 4.2 | NA |
| RD-86 | SMRD-86-GW032911 | Ba-137m | Filtered | 0.52 U | 1.3 | 0.39 | 0.6 |
| RD-86 | SMRD-86-GW032911 | Ba-137m | Suspended | 0.003 U | 0.6 | 0.17 | 0.29 |
| RD-86 | SMRD-86-GW032911 | Ba-137m | Total | 0.52 | NA | 0.42 | NA |
| RD-86 | SMRD-86-GW032911 | Bi-212 | Filtered | 2.4 U | 11 | 3.1 | 4.9 |
| RD-86 | SMRD-86-GW032911 | Bi-212 | Suspended | 2.2 U | 4.9 | 1.5 | 2.3 |
| RD-86 | SMRD-86-GW032911 | Bi-212 | Total | 4.5 | NA | 3.4 | NA |
| RD-86 | SMRD-86-GW032911 | Bi-214 | Filtered | -1.5 U | 3.1 | 7.4 | 1.5 |
| RD-86 | SMRD-86-GW032911 | Bi-214 | Suspended | 0.86 | 1.4 | 0.49 | 0.7 |
| RD-86 | SMRD-86-GW032911 | Bi-214 | Total | -0.7 | NA | 7.4 | NA |
| RD-86 | SMRD-86-GW032911 | C-14 | Total | 0.24 U R | 2.3 | 0.7 | 1.1 |
| RD-86 | SMRD-86-GW032911 | Cd-113m | Filtered | 5500 U | 14000 | 4400 | 6900 |
| RD-86 | SMRD-86-GW032911 | Cd-113m | Suspended | 0 U | 6500 | 1900 | 3100 |
| RD-86 | SMRD-86-GW032911 | Cd-113m | Total | 5500 | NA | 4700 | NA |
| RD-86 | SMRD-86-GW032911 | Cf-249 | Filtered | -1.2 U R | 7.1 | 2.1 | 3.4 |
| RD-86 | SMRD-86-GW032911 | Cf-249 | Suspended | -0.03 U R | 2.7 | 0.79 | 1.3 |
| RD-86 | SMRD-86-GW032911 | Cf-249 | Total | -1.2 R | NA | 2.2 | NA |
| RD-86 | SMRD-86-GW032911 | Cm-243/244 | Filtered | -0.0059 U | 0.03 | 0.0066 | 0.012 |
| RD-86 | SMRD-86-GW032911 | Cm-243/244 | Suspended | -0.0025 U | 0.013 | 0.002 | 0.0047 |
| RD-86 | SMRD-86-GW032911 | Cm-243/244 | Total | -0.0085 | NA | 0.0069 | NA |
| RD-86 | SMRD-86-GW032911 | Cm-245/246 | Filtered | 0.015 J | 0.032 | 0.011 | 0.01 |
| RD-86 | SMRD-86-GW032911 | Cm-245/246 | Suspended | 0.0168 | 0.019 | 0.0074 | 0.0067 |
| RD-86 | SMRD-86-GW032911 | Cm-245/246 | Total | 0.032 J | NA | 0.013 | NA |
| RD-86 | SMRD-86-GW032911 | Co-60 | Filtered | -0.22 U | 1.5 | 0.41 | 0.66 |
| RD-86 | SMRD-86-GW032911 | Co-60 | Suspended | -0.03 U | 0.52 | 0.14 | 0.23 |
| RD-86 | SMRD-86-GW032911 | Co-60 | Total | -0.24 | NA | 0.44 | NA |
| RD-86 | SMRD-86-GW032911 | Cs-134 | Filtered | 0.71 SK | 1.3 | 0.38 | 0.59 |
| RD-86 | SMRD-86-GW032911 | Cs-134 | Suspended | 0.005 U | 0.69 | 0.2 | 0.33 |
| RD-86 | SMRD-86-GW032911 | Cs-134 | Total | 0.72 | NA | 0.43 | NA |
| RD-86 | SMRD-86-GW032911 | Cs-137 | Filtered | 0.55 U | 1.4 | 0.41 | 0.63 |
| RD-86 | SMRD-86-GW032911 | Cs-137 | Suspended | 0.004 U | 0.64 | 0.18 | 0.3 |
| RD-86 | SMRD-86-GW032911 | Cs-137 | Total | 0.55 | NA | 0.45 | NA |
| RD-86 | SMRD-86-GW032911 | Eu-152 | Filtered | 0 U | 4.6 | 1.4 | 2.2 |
| RD-86 | SMRD-86-GW032911 | Eu-152 | Suspended | 0.33 U | 1.7 | 0.49 | 0.8 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-86 | SMRD-86-GW032911 | Eu-152 | Total | 0.3 | NA | 1.4 | NA |
| RD-86 | SMRD-86-GW032911 | Eu-154 | Filtered | 0 U | 12 | 3.5 | 5.8 |
| RD-86 | SMRD-86-GW032911 | Eu-154 | Suspended | 0 U | 6.2 | 1.8 | 2.9 |
| RD-86 | SMRD-86-GW032911 | Eu-154 | Total | 0 | NA | 3.9 | NA |
| RD-86 | SMRD-86-GW032911 | Eu-155 | Filtered | -0.4 U | 4.8 | 1.4 | 2.3 |
| RD-86 | SMRD-86-GW032911 | Eu-155 | Suspended | 0.3 U | 1 | 0.31 | 0.5 |
| RD-86 | SMRD-86-GW032911 | Eu-155 | Total | -0.05 | NA | 1.5 | NA |
| RD-86 | SMRD-86-GW032911 | gross_alpha | Filtered | 5.18 J | 0.57 | 0.52 | 0.3 |
| RD-86 | SMRD-86-GW032911 | gross_alpha | Suspended | 1.37 | 0.5 | 0.25 | 0.27 |
| RD-86 | SMRD-86-GW032911 | gross_alpha | Total | 6.55 J | NA | 0.57 | NA |
| RD-86 | SMRD-86-GW032911 | gross_beta | Filtered | 0.74 R | 1.1 | 0.35 | 0.64 |
| RD-86 | SMRD-86-GW032911 | gross_beta | Suspended | 3.73 | 0.84 | 0.4 | 0.49 |
| RD-86 | SMRD-86-GW032911 | gross_beta | Total | 4.47 R | NA | 0.54 | NA |
| RD-86 | SMRD-86-GW032911 | H-3 | Total | -10 U | 120 | 35 | 58 |
| RD-86 | SMRD-86-GW032911 | Ho-166m | Filtered | -0.39 U | 2.2 | 0.64 | 1 |
| RD-86 | SMRD-86-GW032911 | Ho-166m | Suspended | 0.22 U | 0.78 | 0.23 | 0.36 |
| RD-86 | SMRD-86-GW032911 | Ho-166m | Total | -0.17 | NA | 0.68 | NA |
| RD-86 | SMRD-86-GW032911 | I-129 | Filtered | 0.007 U | 0.54 | 0.16 | 0.27 |
| RD-86 | SMRD-86-GW032911 | I-129 | Suspended | -0.13 U | 0.43 | 0.13 | 0.21 |
| RD-86 | SMRD-86-GW032911 | I-129 | Total | -0.12 | NA | 0.21 | NA |
| RD-86 | SMRD-86-GW032911 | K-40 | Filtered | -7 U | 19 | 12 | 9 |
| RD-86 | SMRD-86-GW032911 | K-40 | Suspended | 0.05 U | 9.7 | 2.5 | 4.6 |
| RD-86 | SMRD-86-GW032911 | K-40 | Total | -7 | NA | 12 | NA |
| RD-86 | SMRD-86-GW032911 | Na-22 | Filtered | 0.29 U | 1.4 | 0.42 | 0.66 |
| RD-86 | SMRD-86-GW032911 | Na-22 | Suspended | -0.01 U | 0.63 | 0.18 | 0.29 |
| RD-86 | SMRD-86-GW032911 | Na-22 | Total | 0.28 | NA | 0.45 | NA |
| RD-86 | SMRD-86-GW032911 | Nb-94 | Filtered | 0.08 U | 1.2 | 0.36 | 0.58 |
| RD-86 | SMRD-86-GW032911 | Nb-94 | Suspended | 0.02 U | 0.56 | 0.16 | 0.27 |
| RD-86 | SMRD-86-GW032911 | Nb-94 | Total | 0.11 | NA | 0.39 | NA |
| RD-86 | SMRD-86-GW032911 | Np-236 | Filtered | 0.06 U | 3.6 | 1.1 | 1.7 |
| RD-86 | SMRD-86-GW032911 | Np-236 | Suspended | 0.02 U | 1.1 | 0.32 | 0.52 |
| RD-86 | SMRD-86-GW032911 | Np-236 | Total | 0.08 | NA | 1.1 | NA |
| RD-86 | SMRD-86-GW032911 | Np-237 | Filtered | -0.0023 U | 0.026 | 0.0023 | 0.0056 |
| RD-86 | SMRD-86-GW032911 | Np-237 | Suspended | 0 U | 0.011 | 0.0029 | 0.0055 |
| RD-86 | SMRD-86-GW032911 | Np-237 | Total | -0.0023 | NA | 0.0037 | NA |
| RD-86 | SMRD-86-GW032911 | Np-239 | Filtered | -1.5 U | 8.8 | 2.6 | 4.3 |
| RD-86 | SMRD-86-GW032911 | Np-239 | Suspended | 0.24 U | 3.4 | 0.99 | 1.6 |
| RD-86 | SMRD-86-GW032911 | Np-239 | Total | -1.3 | NA | 2.8 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-86 | SMRD-86-GW032911 | Pa-231 | Filtered | 3 U | 64 | 19 | 31 |
| RD-86 | SMRD-86-GW032911 | Pa-231 | Suspended | -2.2 U | 26 | 7.6 | 12 |
| RD-86 | SMRD-86-GW032911 | Pa-231 | Total | 0.7 | NA | 20 | NA |
| RD-86 | SMRD-86-GW032911 | Pb-212 | Filtered | 1.93 | 2.3 | 0.94 | 1.1 |
| RD-86 | SMRD-86-GW032911 | Pb-212 | Suspended | 0.58 | 1.1 | 0.36 | 0.55 |
| RD-86 | SMRD-86-GW032911 | Pb-212 | Total | 2.5 | NA | 1 | NA |
| RD-86 | SMRD-86-GW032911 | Pb-214 | Filtered | 1.17 U | 2.8 | 0.83 | 1.3 |
| RD-86 | SMRD-86-GW032911 | Pb-214 | Suspended | -0.03 U | 1.4 | 0.4 | 0.69 |
| RD-86 | SMRD-86-GW032911 | Pb-214 | Total | 1.14 | NA | 0.92 | NA |
| RD-86 | SMRD-86-GW032911 | Pu-238 | Filtered | 0.0192 | 0.018 | 0.0072 | 0.0063 |
| RD-86 | SMRD-86-GW032911 | Pu-238 | Suspended | 0.006 | 0.013 | 0.0041 | 0.0039 |
| RD-86 | SMRD-86-GW032911 | Pu-238 | Total | 0.0252 | NA | 0.0083 | NA |
| RD-86 | SMRD-86-GW032911 | Pu-239/240 | Filtered | 0.0038 U | 0.0052 | 0.0027 | 0.0045 |
| RD-86 | SMRD-86-GW032911 | Pu-239/240 | Suspended | 0.0056 | 0.0051 | 0.0033 | 0.0044 |
| RD-86 | SMRD-86-GW032911 | Pu-239/240 | Total | 0.0095 | NA | 0.0043 | NA |
| RD-86 | SMRD-86-GW032911 | Pu-242 | Filtered | 0.0038 U | 0.014 | 0.0038 | 0.0045 |
| RD-86 | SMRD-86-GW032911 | Pu-242 | Suspended | 0.0019 U | 0.0051 | 0.0019 | 0.0044 |
| RD-86 | SMRD-86-GW032911 | Pu-242 | Total | 0.0057 | NA | 0.0043 | NA |
| RD-86 | SMRD-86-GW032911 | Ra-226 | Filtered | 0.151 | 0.12 | 0.049 | 0.064 |
| RD-86 | SMRD-86-GW032911 | Ra-226 | Suspended | 0.068 U | 0.23 | 0.065 | 0.12 |
| RD-86 | SMRD-86-GW032911 | Ra-226 | Total | 0.218 | NA | 0.082 | NA |
| RD-86 | SMRD-86-GW032911 | Sb-125 | Filtered | 3.4 U | 15 | 4.4 | 7.1 |
| RD-86 | SMRD-86-GW032911 | Sb-125 | Suspended | -0.1 U | 5.2 | 1.5 | 2.5 |
| RD-86 | SMRD-86-GW032911 | Sb-125 | Total | 3.3 | NA | 4.7 | NA |
| RD-86 | SMRD-86-GW032911 | Sn-126 | Filtered | -0.15 U | 1.5 | 0.43 | 0.7 |
| RD-86 | SMRD-86-GW032911 | Sn-126 | Suspended | -0.04 U | 0.69 | 0.2 | 0.33 |
| RD-86 | SMRD-86-GW032911 | Sn-126 | Total | -0.19 | NA | 0.48 | NA |
| RD-86 | SMRD-86-GW032911 | Sr-90 | Filtered | 0.042 U | 0.13 | 0.039 | 0.073 |
| RD-86 | SMRD-86-GW032911 | Sr-90 | Suspended | 0.06 | 0.087 | 0.027 | 0.05 |
| RD-86 | SMRD-86-GW032911 | Sr-90 | Total | 0.102 | NA | 0.047 | NA |
| RD-86 | SMRD-86-GW032911 | Tc-99 | Filtered | -0.2 U | 1.3 | 0.39 | 0.63 |
| RD-86 | SMRD-86-GW032911 | Tc-99 | Suspended | 0.03 U | 1.5 | 0.43 | 0.71 |
| RD-86 | SMRD-86-GW032911 | Tc-99 | Total | -0.16 | NA | 0.58 | NA |
| RD-86 | SMRD-86-GW032911 | Te-125m | Filtered | 0.8 U | 3.4 | 1 | 1.6 |
| RD-86 | SMRD-86-GW032911 | Te-125m | Suspended | -0.02 U | 1.2 | 0.36 | 0.59 |
| RD-86 | SMRD-86-GW032911 | Te-125m | Total | 0.8 | NA | 1.1 | NA |
| RD-86 | SMRD-86-GW032911 | Th-231 | Filtered | 0.109 | 0.02 | 0.018 | 0.007 |
| RD-86 | SMRD-86-GW032911 | Th-231 | Suspended | 0.0051 U | 0.0069 | 0.0036 | 0.0053 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-86 | SMRD-86-GW032911 | Th-231 | Total | 0.115 | NA | 0.018 | NA |
| RD-86 | SMRD-86-GW032911 | Th-234 | Filtered | 6 U | 44 | 14 | 21 |
| RD-86 | SMRD-86-GW032911 | Th-234 | Suspended | 2.3 U | 6.8 | 2.2 | 3.3 |
| RD-86 | SMRD-86-GW032911 | Th-234 | Total | 8 | NA | 15 | NA |
| RD-86 | SMRD-86-GW032911 | Tl-208 | Filtered | 0.72 | 1.3 | 0.43 | 0.6 |
| RD-86 | SMRD-86-GW032911 | Tl-208 | Suspended | 0.53 | 0.7 | 0.26 | 0.34 |
| RD-86 | SMRD-86-GW032911 | Tl-208 | Total | 1.25 | NA | 0.5 | NA |
| RD-86 | SMRD-86-GW032911 | Tm-171 | Filtered | 220 U | 480 | 140 | 230 |
| RD-86 | SMRD-86-GW032911 | Tm-171 | Suspended | -4 U | 100 | 30 | 50 |
| RD-86 | SMRD-86-GW032911 | Tm-171 | Total | 220 | NA | 150 | NA |
| RD-86 | SMRD-86-GW032911 | U-233/234 | Filtered | 2.41 | 0.005 | 0.12 | 0.004 |
| RD-86 | SMRD-86-GW032911 | U-233/234 | Suspended | 0.079 | 0.014 | 0.014 | 0.004 |
| RD-86 | SMRD-86-GW032911 | U-233/234 | Total | 2.49 | NA | 0.12 | NA |
| RD-86 | SMRD-86-GW032911 | U-235/236 | Filtered | 0.109 | 0.02 | 0.018 | 0.007 |
| RD-86 | SMRD-86-GW032911 | U-235/236 | Suspended | 0.0051 U | 0.0069 | 0.0036 | 0.0053 |
| RD-86 | SMRD-86-GW032911 | U-235/236 | Total | 0.115 | NA | 0.018 | NA |
| RD-86 | SMRD-86-GW032911 | U-238 | Filtered | 2.33 | 0.01 | 0.12 | 0.004 |
| RD-86 | SMRD-86-GW032911 | U-238 | Suspended | 0.058 | 0.006 | 0.012 | 0.004 |
| RD-86 | SMRD-86-GW032911 | U-238 | Total | 2.39 | NA | 0.12 | NA |
| RD-87 | SMRD-87-GW031811 | Ac-227 | Filtered | -5.7 U | 9.6 | 2.9 | 4.7 |
| RD-87 | SMRD-87-GW031811 | Ac-227 | Suspended | -3.6 L U | 4.5 | 1.4 | 2.2 |
| RD-87 | SMRD-87-GW031811 | Ac-227 | Total | -9.3 L | NA | 3.2 | NA |
| RD-87 | SMRD-87-GW031811 | Ac-228 | Filtered | 3 | 3.7 | 1.2 | 1.7 |
| RD-87 | SMRD-87-GW031811 | Ac-228 | Suspended | 1.39 | 2 | 0.61 | 0.91 |
| RD-87 | SMRD-87-GW031811 | Ac-228 | Total | 4.4 | NA | 1.3 | NA |
| RD-87 | SMRD-87-GW031811 | Ag-108 | Filtered | -0.032 U | 0.087 | 0.026 | 0.042 |
| RD-87 | SMRD-87-GW031811 | Ag-108 | Suspended | 0.012 U | 0.047 | 0.014 | 0.023 |
| RD-87 | SMRD-87-GW031811 | Ag-108 | Total | -0.019 | NA | 0.03 | NA |
| RD-87 | SMRD-87-GW031811 | Ag-108m | Filtered | -0.34 U | 0.94 | 0.28 | 0.45 |
| RD-87 | SMRD-87-GW031811 | Ag-108m | Suspended | 0.13 U | 0.51 | 0.15 | 0.24 |
| RD-87 | SMRD-87-GW031811 | Ag-108m | Total | -0.21 | NA | 0.32 | NA |
| RD-87 | SMRD-87-GW031811 | Ba-133 | Filtered | 0.4 U | 7.9 | 2.3 | 3.8 |
| RD-87 | SMRD-87-GW031811 | Ba-133 | Suspended | -0.1 U | 6 | 1.8 | 2.9 |
| RD-87 | SMRD-87-GW031811 | Ba-133 | Total | 0.2 | NA | 2.9 | NA |
| RD-87 | SMRD-87-GW031811 | Ba-137m | Filtered | 0.13 U | 1.1 | 0.31 | 0.51 |
| RD-87 | SMRD-87-GW031811 | Ba-137m | Suspended | 0.3 | 0.57 | 0.17 | 0.27 |
| RD-87 | SMRD-87-GW031811 | Ba-137m | Total | 0.42 | NA | 0.36 | NA |
| RD-87 | SMRD-87-GW031811 | Bi-212 | Filtered | -1.8 U | 9.7 | 4.2 | 4.6 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-87 | SMRD-87-GW031811 | Bi-212 | Suspended | -0.6 U | 5.5 | 2.8 | 2.6 |
| RD-87 | SMRD-87-GW031811 | Bi-212 | Total | -2.5 | NA | 5.1 | NA |
| RD-87 | SMRD-87-GW031811 | Bi-214 | Filtered | 0.57 U | 2.7 | 0.9 | 1.3 |
| RD-87 | SMRD-87-GW031811 | Bi-214 | Suspended | -0.16 U | 1.6 | 0.6 | 0.79 |
| RD-87 | SMRD-87-GW031811 | Bi-214 | Total | 0.4 | NA | 1.1 | NA |
| RD-87 | SMRD-87-GW031811 | Cd-113m | Filtered | 300 U | 13000 | 3900 | 6400 |
| RD-87 | SMRD-87-GW031811 | Cd-113m | Suspended | 2100 U | 6400 | 1900 | 3100 |
| RD-87 | SMRD-87-GW031811 | Cd-113m | Total | 2400 | NA | 4300 | NA |
| RD-87 | SMRD-87-GW031811 | Cf-249 | Filtered | 0.5 U | 4.9 | 1.5 | 2.4 |
| RD-87 | SMRD-87-GW031811 | Cf-249 | Suspended | -0.24 U | 2.7 | 0.78 | 1.3 |
| RD-87 | SMRD-87-GW031811 | Cf-249 | Total | 0.3 | NA | 1.6 | NA |
| RD-87 | SMRD-87-GW031811 | Co-60 | Filtered | -0.26 U | 1.2 | 0.36 | 0.57 |
| RD-87 | SMRD-87-GW031811 | Co-60 | Suspended | 0.06 U | 0.75 | 0.21 | 0.35 |
| RD-87 | SMRD-87-GW031811 | Co-60 | Total | -0.2 | NA | 0.42 | NA |
| RD-87 | SMRD-87-GW031811 | Cs-134 | Filtered | -0.03 U | 1.7 | 0.51 | 0.83 |
| RD-87 | SMRD-87-GW031811 | Cs-134 | Suspended | -0.25 U | 0.8 | 0.24 | 0.39 |
| RD-87 | SMRD-87-GW031811 | Cs-134 | Total | -0.29 | NA | 0.56 | NA |
| RD-87 | SMRD-87-GW031811 | Cs-137 | Filtered | 0.14 U | 1.1 | 0.33 | 0.54 |
| RD-87 | SMRD-87-GW031811 | Cs-137 | Suspended | 0.31 | 0.6 | 0.18 | 0.28 |
| RD-87 | SMRD-87-GW031811 | Cs-137 | Total | 0.45 | NA | 0.38 | NA |
| RD-87 | SMRD-87-GW031811 | Eu-152 | Filtered | -0.42 U | 3.3 | 0.98 | 1.6 |
| RD-87 | SMRD-87-GW031811 | Eu-152 | Suspended | 0.03 U | 1.7 | 0.5 | 0.82 |
| RD-87 | SMRD-87-GW031811 | Eu-152 | Total | -0.4 | NA | 1.1 | NA |
| RD-87 | SMRD-87-GW031811 | Eu-154 | Filtered | -2.4 U | 10 | 3 | 4.9 |
| RD-87 | SMRD-87-GW031811 | Eu-154 | Suspended | 1.3 U | 5.3 | 1.6 | 2.5 |
| RD-87 | SMRD-87-GW031811 | Eu-154 | Total | -1.2 | NA | 3.4 | NA |
| RD-87 | SMRD-87-GW031811 | Eu-155 | Filtered | 0.55 U | 2.8 | 0.82 | 1.3 |
| RD-87 | SMRD-87-GW031811 | Eu-155 | Suspended | -0.02 U | 1.3 | 0.38 | 0.62 |
| RD-87 | SMRD-87-GW031811 | Eu-155 | Total | 0.53 | NA | 0.9 | NA |
| RD-87 | SMRD-87-GW031811 | gross_alpha | Filtered | 11.9 L | 0.54 | 0.84 | 0.28 |
| RD-87 | SMRD-87-GW031811 | gross_alpha | Suspended | 2.69 | 0.39 | 0.32 | 0.2 |
| RD-87 | SMRD-87-GW031811 | gross_alpha | Total | 14.6 | NA | 0.89 | NA |
| RD-87 | SMRD-87-GW031811 | gross_beta | Filtered | 8.3 | 3.4 | 1.4 | 1.9 |
| RD-87 | SMRD-87-GW031811 | gross_beta | Suspended | 3.69 | 1.1 | 0.48 | 0.61 |
| RD-87 | SMRD-87-GW031811 | gross_beta | Total | 12 | NA | 1.5 | NA |
| RD-87 | SMRD-87-GW031811 | H-3 | Total | 5600 B | 160 | 270 | 80 |
| RD-87 | SMRD-87-GW031811 | Ho-166m | Filtered | 0.59 U | 1.7 | 0.51 | 0.8 |
| RD-87 | SMRD-87-GW031811 | Ho-166m | Suspended | -0.14 U | 1 | 0.3 | 0.49 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-87 | SMRD-87-GW031811 | Ho-166m | Total | 0.45 | NA | 0.59 | NA |
| RD-87 | SMRD-87-GW031811 | K-40 | Filtered | -3.7 U | 19 | 5.4 | 9 |
| RD-87 | SMRD-87-GW031811 | K-40 | Suspended | 0.1 U | 9 | 2 | 4.2 |
| RD-87 | SMRD-87-GW031811 | K-40 | Total | -3.6 | NA | 5.7 | NA |
| RD-87 | SMRD-87-GW031811 | Na-22 | Filtered | 0.18 U | 1.2 | 0.33 | 0.54 |
| RD-87 | SMRD-87-GW031811 | Na-22 | Suspended | -0.03 U | 0.68 | 0.19 | 0.31 |
| RD-87 | SMRD-87-GW031811 | Na-22 | Total | 0.15 | NA | 0.39 | NA |
| RD-87 | SMRD-87-GW031811 | Nb-94 | Filtered | 0.02 U | 0.98 | 0.28 | 0.47 |
| RD-87 | SMRD-87-GW031811 | Nb-94 | Suspended | 0.31 | 0.54 | 0.17 | 0.26 |
| RD-87 | SMRD-87-GW031811 | Nb-94 | Total | 0.33 | NA | 0.33 | NA |
| RD-87 | SMRD-87-GW031811 | Np-236 | Filtered | -0.43 U | 2.4 | 0.71 | 1.2 |
| RD-87 | SMRD-87-GW031811 | Np-236 | Suspended | -0.16 U | 1.2 | 0.36 | 0.59 |
| RD-87 | SMRD-87-GW031811 | Np-236 | Total | -0.59 | NA | 0.8 | NA |
| RD-87 | SMRD-87-GW031811 | Np-239 | Filtered | 0.7 U | 5.5 | 1.6 | 2.6 |
| RD-87 | SMRD-87-GW031811 | Np-239 | Suspended | 0.4 U | 3.4 | 1 | 1.6 |
| RD-87 | SMRD-87-GW031811 | Np-239 | Total | 1.2 | NA | 1.9 | NA |
| RD-87 | SMRD-87-GW031811 | Pa-231 | Filtered | -7 U | 53 | 16 | 26 |
| RD-87 | SMRD-87-GW031811 | Pa-231 | Suspended | 0 U | 28 | 8.3 | 14 |
| RD-87 | SMRD-87-GW031811 | Pa-231 | Total | -7 | NA | 18 | NA |
| RD-87 | SMRD-87-GW031811 | Pb-212 | Filtered | 0.42 U | 2.3 | 0.77 | 1.1 |
| RD-87 | SMRD-87-GW031811 | Pb-212 | Suspended | -0.12 U | 1.2 | 0.38 | 0.6 |
| RD-87 | SMRD-87-GW031811 | Pb-212 | Total | 0.29 | NA | 0.86 | NA |
| RD-87 | SMRD-87-GW031811 | Pb-214 | Filtered | 0.45 U | 2.8 | 0.76 | 1.4 |
| RD-87 | SMRD-87-GW031811 | Pb-214 | Suspended | -0.24 U | 1.4 | 0.54 | 0.69 |
| RD-87 | SMRD-87-GW031811 | Pb-214 | Total | 0.21 | NA | 0.94 | NA |
| RD-87 | SMRD-87-GW031811 | Sb-125 | Filtered | -1.2 U | 12 | 3.5 | 5.7 |
| RD-87 | SMRD-87-GW031811 | Sb-125 | Suspended | -1.6 U | 5.4 | 1.6 | 2.6 |
| RD-87 | SMRD-87-GW031811 | Sb-125 | Total | -2.8 | NA | 3.9 | NA |
| RD-87 | SMRD-87-GW031811 | Sn-126 | Filtered | -0.05 U | 1.4 | 0.41 | 0.67 |
| RD-87 | SMRD-87-GW031811 | Sn-126 | Suspended | 0.23 U | 0.72 | 0.21 | 0.34 |
| RD-87 | SMRD-87-GW031811 | Sn-126 | Total | 0.18 | NA | 0.46 | NA |
| RD-87 | SMRD-87-GW031811 | Sr-90 | Filtered | 0.033 U | 0.19 | 0.055 | 0.11 |
| RD-87 | SMRD-87-GW031811 | Sr-90 | Suspended | -0.037 U | 0.16 | 0.042 | 0.092 |
| RD-87 | SMRD-87-GW031811 | Sr-90 | Total | -0.004 | NA | 0.069 | NA |
| RD-87 | SMRD-87-GW031811 | Te-125m | Filtered | -0.27 U | 2.7 | 0.81 | 1.3 |
| RD-87 | SMRD-87-GW031811 | Te-125m | Suspended | -0.37 U | 1.3 | 0.38 | 0.61 |
| RD-87 | SMRD-87-GW031811 | Te-125m | Total | -0.64 | NA | 0.89 | NA |
| RD-87 | SMRD-87-GW031811 | Th-231 | Filtered | 0.339 | 0.009 | 0.036 | 0.007 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-87 | SMRD-87-GW031811 | Th-231 | Suspended | 0.0099 | 0.016 | 0.0056 | 0.0049 |
| RD-87 | SMRD-87-GW031811 | Th-231 | Total | 0.349 | NA | 0.037 | NA |
| RD-87 | SMRD-87-GW031811 | Th-234 | Filtered | 2.1 U | 22 | 7.4 | 11 |
| RD-87 | SMRD-87-GW031811 | Th-234 | Suspended | -0.7 U | 6.6 | 2.2 | 3.2 |
| RD-87 | SMRD-87-GW031811 | Th-234 | Total | 1.4 | NA | 7.7 | NA |
| RD-87 | SMRD-87-GW031811 | Tl-208 | Filtered | 0.51 U | 1.2 | 0.41 | 0.59 |
| RD-87 | SMRD-87-GW031811 | Tl-208 | Suspended | -0.12 U | 0.82 | 0.29 | 0.4 |
| RD-87 | SMRD-87-GW031811 | Tl-208 | Total | 0.38 | NA | 0.5 | NA |
| RD-87 | SMRD-87-GW031811 | Tm-171 | Filtered | 112 U | 330 | 99.8 | 160 |
| RD-87 | SMRD-87-GW031811 | Tm-171 | Suspended | 29 U | 110 | 32 | 52 |
| RD-87 | SMRD-87-GW031811 | Tm-171 | Total | 140 | NA | 100 | NA |
| RD-87 | SMRD-87-GW031811 | U-233/234 | Filtered | 7.98 | 0.02 | 0.37 | 0.006 |
| RD-87 | SMRD-87-GW031811 | U-233/234 | Suspended | 0.0269 | 0.016 | 0.009 | 0.0056 |
| RD-87 | SMRD-87-GW031811 | U-233/234 | Total | 8.01 | NA | 0.37 | NA |
| RD-87 | SMRD-87-GW031811 | U-235/236 | Filtered | 0.339 | 0.009 | 0.036 | 0.007 |
| RD-87 | SMRD-87-GW031811 | U-235/236 | Suspended | 0.0099 | 0.016 | 0.0056 | 0.0049 |
| RD-87 | SMRD-87-GW031811 | U-235/236 | Total | 0.349 | NA | 0.037 | NA |
| RD-87 | SMRD-87-GW031811 | U-238 | Filtered | 7.61 | 0.03 | 0.35 | 0.01 |
| RD-87 | SMRD-87-GW031811 | U-238 | Suspended | 0.0324 | 0.0051 | 0.0088 | 0.0039 |
| RD-87 | SMRD-87-GW031811 | U-238 | Total | 7.65 | NA | 0.35 | NA |
| RD-88 | SMRD-88-GW032911 | Ac-227 | Filtered | -6 U | 9.8 | 3 | 4.8 |
| RD-88 | SMRD-88-GW032911 | Ac-227 | Suspended | -0.64 U | 2.9 | 0.87 | 1.4 |
| RD-88 | SMRD-88-GW032911 | Ac-227 | Total | -6.6 L | NA | 3.1 | NA |
| RD-88 | SMRD-88-GW032911 | Ac-228 | Filtered | 1.8 | 3.5 | 1.1 | 1.6 |
| RD-88 | SMRD-88-GW032911 | Ac-228 | Suspended | 0.69 U | 1.8 | 0.53 | 0.83 |
| RD-88 | SMRD-88-GW032911 | Ac-228 | Total | 2.5 | NA | 1.2 | NA |
| RD-88 | SMRD-88-GW032911 | Ag-108 | Filtered | -0.008 U R | 0.079 | 0.023 | 0.038 |
| RD-88 | SMRD-88-GW032911 | Ag-108 | Suspended | 0.001 U R | 0.044 | 0.013 | 0.021 |
| RD-88 | SMRD-88-GW032911 | Ag-108 | Total | -0.007 R | NA | 0.026 | NA |
| RD-88 | SMRD-88-GW032911 | Ag-108m | Filtered | -0.09 U R | 0.85 | 0.25 | 0.4 |
| RD-88 | SMRD-88-GW032911 | Ag-108m | Suspended | 0.01 U R | 0.48 | 0.14 | 0.23 |
| RD-88 | SMRD-88-GW032911 | Ag-108m | Total | -0.07 R | NA | 0.28 | NA |
| RD-88 | SMRD-88-GW032911 | Ba-133 | Filtered | -0.2 U R | 12 | 3.5 | 5.8 |
| RD-88 | SMRD-88-GW032911 | Ba-133 | Suspended | -1.1 U R | 4.6 | 1.4 | 2.2 |
| RD-88 | SMRD-88-GW032911 | Ba-133 | Total | -1.3 R | NA | 3.8 | NA |
| RD-88 | SMRD-88-GW032911 | Ba-137m | Filtered | 0.18 U | 1.1 | 0.32 | 0.52 |
| RD-88 | SMRD-88-GW032911 | Ba-137m | Suspended | 0.06 U | 0.35 | 0.0998 | 0.16 |
| RD-88 | SMRD-88-GW032911 | Ba-137m | Total | 0.24 | NA | 0.34 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-88 | SMRD-88-GW032911 | Bi-212 | Filtered | 0.3 U | 9.3 | 2.6 | 4.4 |
| RD-88 | SMRD-88-GW032911 | Bi-212 | Suspended | 1.2 U | 3.8 | 1.1 | 1.8 |
| RD-88 | SMRD-88-GW032911 | Bi-212 | Total | 1.4 | NA | 2.8 | NA |
| RD-88 | SMRD-88-GW032911 | Bi-214 | Filtered | 1.88 | 2.4 | 0.74 | 1.1 |
| RD-88 | SMRD-88-GW032911 | Bi-214 | Suspended | 1.59 | 1.4 | 0.64 | 0.67 |
| RD-88 | SMRD-88-GW032911 | Bi-214 | Total | 3.46 | NA | 0.98 | NA |
| RD-88 | SMRD-88-GW032911 | Cd-113m | Filtered | 3200 U | 13000 | 3800 | 6100 |
| RD-88 | SMRD-88-GW032911 | Cd-113m | Suspended | 1300 U | 5800 | 1700 | 2800 |
| RD-88 | SMRD-88-GW032911 | Cd-113m | Total | 4400 | NA | 4200 | NA |
| RD-88 | SMRD-88-GW032911 | Cf-249 | Filtered | 1.8 U R | 4.7 | 1.4 | 2.2 |
| RD-88 | SMRD-88-GW032911 | Cf-249 | Suspended | 0.29 U R | 2.1 | 0.63 | 1 |
| RD-88 | SMRD-88-GW032911 | Cf-249 | Total | 2.1 R | NA | 1.5 | NA |
| RD-88 | SMRD-88-GW032911 | Co-60 | Filtered | 0.17 U | 1 | 0.29 | 0.47 |
| RD-88 | SMRD-88-GW032911 | Co-60 | Suspended | 0.14 U | 0.57 | 0.17 | 0.26 |
| RD-88 | SMRD-88-GW032911 | Co-60 | Total | 0.31 | NA | 0.34 | NA |
| RD-88 | SMRD-88-GW032911 | Cs-134 | Filtered | 0.21 U | 1.1 | 0.32 | 0.52 |
| RD-88 | SMRD-88-GW032911 | Cs-134 | Suspended | 0.58 SK | 0.58 | 0.15 | 0.28 |
| RD-88 | SMRD-88-GW032911 | Cs-134 | Total | 0.78 SK | NA | 0.36 | NA |
| RD-88 | SMRD-88-GW032911 | Cs-137 | Filtered | 0.19 U | 1.2 | 0.34 | 0.55 |
| RD-88 | SMRD-88-GW032911 | Cs-137 | Suspended | 0.06 U | 0.37 | 0.11 | 0.17 |
| RD-88 | SMRD-88-GW032911 | Cs-137 | Total | 0.25 | NA | 0.36 | NA |
| RD-88 | SMRD-88-GW032911 | Eu-152 | Filtered | 0.37 U | 3 | 0.9 | 1.5 |
| RD-88 | SMRD-88-GW032911 | Eu-152 | Suspended | -0.17 U | 1.4 | 0.41 | 0.67 |
| RD-88 | SMRD-88-GW032911 | Eu-152 | Total | 0.2 | NA | 0.99 | NA |
| RD-88 | SMRD-88-GW032911 | Eu-154 | Filtered | -2.4 U | 9.2 | 2.7 | 4.3 |
| RD-88 | SMRD-88-GW032911 | Eu-154 | Suspended | -0.6 U | 4.6 | 1.3 | 2.1 |
| RD-88 | SMRD-88-GW032911 | Eu-154 | Total | -2.9 | NA | 3 | NA |
| RD-88 | SMRD-88-GW032911 | Eu-155 | Filtered | 0.54 U | 2.9 | 0.85 | 1.4 |
| RD-88 | SMRD-88-GW032911 | Eu-155 | Suspended | 0.29 U | 0.9 | 0.27 | 0.43 |
| RD-88 | SMRD-88-GW032911 | Eu-155 | Total | 0.83 | NA | 0.89 | NA |
| RD-88 | SMRD-88-GW032911 | gross_alpha | Filtered | 5.17 | 0.49 | 0.46 | 0.26 |
| RD-88 | SMRD-88-GW032911 | gross_alpha | Suspended | 0.19 U | 0.84 | 0.23 | 0.45 |
| RD-88 | SMRD-88-GW032911 | gross_alpha | Total | 5.36 | NA | 0.52 | NA |
| RD-88 | SMRD-88-GW032911 | gross_beta | Filtered | 0.32 U | 1.5 | 0.45 | 0.88 |
| RD-88 | SMRD-88-GW032911 | gross_beta | Suspended | 0.09 U | 0.82 | 0.24 | 0.49 |
| RD-88 | SMRD-88-GW032911 | gross_beta | Total | 0.4 | NA | 0.51 | NA |
| RD-88 | SMRD-88-GW032911 | H-3 | Total | 4040 | 130 | 200 | 60 |
| RD-88 | SMRD-88-GW032911 | Ho-166m | Filtered | -0.02 U | 2 | 0.58 | 0.95 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-88 | SMRD-88-GW032911 | Ho-166m | Suspended | 0.11 U | 0.81 | 0.24 | 0.38 |
| RD-88 | SMRD-88-GW032911 | Ho-166m | Total | 0.08 | NA | 0.63 | NA |
| RD-88 | SMRD-88-GW032911 | K-40 | Filtered | 14.6 | 15 | 4.9 | 7 |
| RD-88 | SMRD-88-GW032911 | K-40 | Suspended | -4.2 U | 8.6 | 3.8 | 4.1 |
| RD-88 | SMRD-88-GW032911 | K-40 | Total | 10.4 | NA | 6.2 | NA |
| RD-88 | SMRD-88-GW032911 | Na-22 | Filtered | -0.21 U | 1.3 | 0.37 | 0.59 |
| RD-88 | SMRD-88-GW032911 | Na-22 | Suspended | 0.009 U | 0.6 | 0.17 | 0.28 |
| RD-88 | SMRD-88-GW032911 | Na-22 | Total | -0.2 | NA | 0.41 | NA |
| RD-88 | SMRD-88-GW032911 | Nb-94 | Filtered | 0.24 U | 1 | 0.3 | 0.48 |
| RD-88 | SMRD-88-GW032911 | Nb-94 | Suspended | 0.12 U | 0.44 | 0.13 | 0.21 |
| RD-88 | SMRD-88-GW032911 | Nb-94 | Total | 0.36 | NA | 0.33 | NA |
| RD-88 | SMRD-88-GW032911 | Np-236 | Filtered | -0.76 U | 2.6 | 0.79 | 1.3 |
| RD-88 | SMRD-88-GW032911 | Np-236 | Suspended | 0.16 U | 0.8 | 0.24 | 0.38 |
| RD-88 | SMRD-88-GW032911 | Np-236 | Total | -0.61 | NA | 0.82 | NA |
| RD-88 | SMRD-88-GW032911 | Np-239 | Filtered | 2.1 U | 6.6 | 2 | 3.2 |
| RD-88 | SMRD-88-GW032911 | Np-239 | Suspended | -1.12 U | 3 | 0.91 | 1.5 |
| RD-88 | SMRD-88-GW032911 | Np-239 | Total | 1 | NA | 2.2 | NA |
| RD-88 | SMRD-88-GW032911 | Pa-231 | Filtered | -8 U | 51 | 15 | 25 |
| RD-88 | SMRD-88-GW032911 | Pa-231 | Suspended | 1.7 U | 20 | 6 | 9.8 |
| RD-88 | SMRD-88-GW032911 | Pa-231 | Total | -6 | NA | 16 | NA |
| RD-88 | SMRD-88-GW032911 | Pb-212 | Filtered | 1.02 U | 2.4 | 0.79 | 1.2 |
| RD-88 | SMRD-88-GW032911 | Pb-212 | Suspended | -0.3 U | 0.88 | 0.8 | 0.43 |
| RD-88 | SMRD-88-GW032911 | Pb-212 | Total | 0.7 | NA | 1.1 | NA |
| RD-88 | SMRD-88-GW032911 | Pb-214 | Filtered | 1.28 | 2.2 | 0.72 | 1.1 |
| RD-88 | SMRD-88-GW032911 | Pb-214 | Suspended | 1.01 | 1.1 | 0.44 | 0.52 |
| RD-88 | SMRD-88-GW032911 | Pb-214 | Total | 2.29 | NA | 0.84 | NA |
| RD-88 | SMRD-88-GW032911 | Sb-125 | Filtered | -3.5 U | 13 | 3.8 | 6.2 |
| RD-88 | SMRD-88-GW032911 | Sb-125 | Suspended | -1.7 U | 4.7 | 1.4 | 2.3 |
| RD-88 | SMRD-88-GW032911 | Sb-125 | Total | -5.2 | NA | 4.1 | NA |
| RD-88 | SMRD-88-GW032911 | Sn-126 | Filtered | 0 U | 1.4 | 0.41 | 0.67 |
| RD-88 | SMRD-88-GW032911 | Sn-126 | Suspended | 0.31 | 0.62 | 0.19 | 0.29 |
| RD-88 | SMRD-88-GW032911 | Sn-126 | Total | 0.31 | NA | 0.45 | NA |
| RD-88 | SMRD-88-GW032911 | Sr-90 | Filtered | 0.059 U | 0.18 | 0.054 | 0.1 |
| RD-88 | SMRD-88-GW032911 | Sr-90 | Suspended | -0.017 U | 0.057 | 0.016 | 0.032 |
| RD-88 | SMRD-88-GW032911 | Sr-90 | Total | 0.042 | NA | 0.056 | NA |
| RD-88 | SMRD-88-GW032911 | Te-125m | Filtered | -0.81 U | 2.9 | 0.88 | 1.4 |
| RD-88 | SMRD-88-GW032911 | Te-125m | Suspended | -0.4 U | 1.1 | 0.33 | 0.53 |
| RD-88 | SMRD-88-GW032911 | Te-125m | Total | -1.21 | NA | 0.94 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-88 | SMRD-88-GW032911 | Th-231 | Filtered | 0.113 | 0.007 | 0.017 | 0.006 |
| RD-88 | SMRD-88-GW032911 | Th-231 | Suspended | 0.0051 U | 0.0069 | 0.0036 | 0.0053 |
| RD-88 | SMRD-88-GW032911 | Th-231 | Total | 0.118 | NA | 0.018 | NA |
| RD-88 | SMRD-88-GW032911 | Th-234 | Filtered | 3.2 U | 20 | 6.5 | 9.9 |
| RD-88 | SMRD-88-GW032911 | Th-234 | Suspended | 0.1 U | 5 | 1.5 | 2.4 |
| RD-88 | SMRD-88-GW032911 | Th-234 | Total | 3.3 | NA | 6.6 | NA |
| RD-88 | SMRD-88-GW032911 | Tl-208 | Filtered | 0.87 | 1.3 | 0.5 | 0.64 |
| RD-88 | SMRD-88-GW032911 | Tl-208 | Suspended | 0.11 U | 0.62 | 0.17 | 0.3 |
| RD-88 | SMRD-88-GW032911 | Tl-208 | Total | 0.97 | NA | 0.53 | NA |
| RD-88 | SMRD-88-GW032911 | Tm-171 | Filtered | 27 U | 280 | 82 | 130 |
| RD-88 | SMRD-88-GW032911 | Tm-171 | Suspended | 46 | 82 | 25 | 39 |
| RD-88 | SMRD-88-GW032911 | Tm-171 | Total | 73 | NA | 86 | NA |
| RD-88 | SMRD-88-GW032911 | U-233/234 | Filtered | 3.34 | 0.01 | 0.16 | 0.005 |
| RD-88 | SMRD-88-GW032911 | U-233/234 | Suspended | 0.0205 | 0.014 | 0.0084 | 0.0043 |
| RD-88 | SMRD-88-GW032911 | U-233/234 | Total | 3.36 | NA | 0.16 | NA |
| RD-88 | SMRD-88-GW032911 | U-235/236 | Filtered | 0.113 | 0.007 | 0.017 | 0.006 |
| RD-88 | SMRD-88-GW032911 | U-235/236 | Suspended | 0.0051 U | 0.0069 | 0.0036 | 0.0053 |
| RD-88 | SMRD-88-GW032911 | U-235/236 | Total | 0.118 | NA | 0.018 | NA |
| RD-88 | SMRD-88-GW032911 | U-238 | Filtered | 2.81 | 0.01 | 0.14 | 0.005 |
| RD-88 | SMRD-88-GW032911 | U-238 | Suspended | 0.0252 | 0.014 | 0.0086 | 0.0043 |
| RD-88 | SMRD-88-GW032911 | U-238 | Total | 2.83 | NA | 0.14 | NA |
| RD-90 | SMRD-90-GW032911 | Ac-227 | Filtered | -9.1 L U | 12 | 3.8 | 5.9 |
| RD-90 | SMRD-90-GW032911 | Ac-227 | Suspended | -0.4 U | 3.6 | 1.1 | 1.8 |
| RD-90 | SMRD-90-GW032911 | Ac-227 | Total | -9.5 L | NA | 3.9 | NA |
| RD-90 | SMRD-90-GW032911 | Ac-228 | Filtered | 2.3 | 4.5 | 1.4 | 2.1 |
| RD-90 | SMRD-90-GW032911 | Ac-228 | Suspended | 0.89 U | 2.7 | 0.73 | 1.3 |
| RD-90 | SMRD-90-GW032911 | Ac-228 | Total | 3.2 | NA | 1.6 | NA |
| RD-90 | SMRD-90-GW032911 | Ag-108 | Filtered | 0.031 U R | 0.12 | 0.034 | 0.055 |
| RD-90 | SMRD-90-GW032911 | Ag-108 | Suspended | -0.012 U R | 0.054 | 0.016 | 0.026 |
| RD-90 | SMRD-90-GW032911 | Ag-108 | Total | 0.019 R | NA | 0.038 | NA |
| RD-90 | SMRD-90-GW032911 | Ag-108m | Filtered | 0.33 U R | 1.2 | 0.37 | 0.59 |
| RD-90 | SMRD-90-GW032911 | Ag-108m | Suspended | -0.13 U R | 0.58 | 0.17 | 0.28 |
| RD-90 | SMRD-90-GW032911 | Ag-108m | Total | 0.2 R | NA | 0.41 | NA |
| RD-90 | SMRD-90-GW032911 | Ba-133 | Filtered | 3.2 U R | 16 | 4.7 | 7.6 |
| RD-90 | SMRD-90-GW032911 | Ba-133 | Suspended | -1 U R | 6.6 | 2 | 3.2 |
| RD-90 | SMRD-90-GW032911 | Ba-133 | Total | 2.2 R | NA | 5.1 | NA |
| RD-90 | SMRD-90-GW032911 | Ba-137m | Filtered | 0 U | 1.8 | 0.53 | 0.88 |
| RD-90 | SMRD-90-GW032911 | Ba-137m | Suspended | 0.18 U | 0.61 | 0.18 | 0.29 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-90 | SMRD-90-GW032911 | Ba-137m | Total | 0.18 | NA | 0.56 | NA |
| RD-90 | SMRD-90-GW032911 | Bi-212 | Filtered | -3.6 U | 13 | 3.8 | 6 |
| RD-90 | SMRD-90-GW032911 | Bi-212 | Suspended | 2.7 | 5.3 | 1.6 | 2.5 |
| RD-90 | SMRD-90-GW032911 | Bi-212 | Total | -0.9 | NA | 4.1 | NA |
| RD-90 | SMRD-90-GW032911 | Bi-214 | Filtered | 2.3 | 3.5 | 1.3 | 1.7 |
| RD-90 | SMRD-90-GW032911 | Bi-214 | Suspended | 0.55 U | 1.6 | 0.58 | 0.79 |
| RD-90 | SMRD-90-GW032911 | Bi-214 | Total | 2.8 | NA | 1.4 | NA |
| RD-90 | SMRD-90-GW032911 | Cd-113m | Filtered | 1200 U | 17000 | 5000 | 8300 |
| RD-90 | SMRD-90-GW032911 | Cd-113m | Suspended | -1500 U | 6900 | 2100 | 3300 |
| RD-90 | SMRD-90-GW032911 | Cd-113m | Total | -300 | NA | 5400 | NA |
| RD-90 | SMRD-90-GW032911 | Cf-249 | Filtered | 1.5 U R | 6.8 | 2 | 3.3 |
| RD-90 | SMRD-90-GW032911 | Cf-249 | Suspended | -0.94 U R | 2.8 | 0.85 | 1.4 |
| RD-90 | SMRD-90-GW032911 | Cf-249 | Total | 0.6 R | NA | 2.2 | NA |
| RD-90 | SMRD-90-GW032911 | Co-60 | Filtered | 0.13 U | 1.6 | 0.45 | 0.73 |
| RD-90 | SMRD-90-GW032911 | Co-60 | Suspended | 0.27 U | 0.73 | 0.22 | 0.34 |
| RD-90 | SMRD-90-GW032911 | Co-60 | Total | 0.39 | NA | 0.5 | NA |
| RD-90 | SMRD-90-GW032911 | Cs-134 | Filtered | 0.24 U | 1.4 | 0.4 | 0.64 |
| RD-90 | SMRD-90-GW032911 | Cs-134 | Suspended | -0.1 U | 0.85 | 0.25 | 0.41 |
| RD-90 | SMRD-90-GW032911 | Cs-134 | Total | 0.14 | NA | 0.47 | NA |
| RD-90 | SMRD-90-GW032911 | Cs-137 | Filtered | 0 U | 2 | 0.56 | 0.93 |
| RD-90 | SMRD-90-GW032911 | Cs-137 | Suspended | 0.19 U | 0.65 | 0.19 | 0.31 |
| RD-90 | SMRD-90-GW032911 | Cs-137 | Total | 0.19 | NA | 0.6 | NA |
| RD-90 | SMRD-90-GW032911 | Eu-152 | Filtered | -0.7 U | 4.5 | 1.3 | 2.2 |
| RD-90 | SMRD-90-GW032911 | Eu-152 | Suspended | -0.45 U | 1.9 | 0.57 | 0.93 |
| RD-90 | SMRD-90-GW032911 | Eu-152 | Total | -1.2 | NA | 1.4 | NA |
| RD-90 | SMRD-90-GW032911 | Eu-154 | Filtered | 1.8 U | 11 | 3.1 | 4.9 |
| RD-90 | SMRD-90-GW032911 | Eu-154 | Suspended | 1.3 U | 6.1 | 1.8 | 2.9 |
| RD-90 | SMRD-90-GW032911 | Eu-154 | Total | 3.1 | NA | 3.6 | NA |
| RD-90 | SMRD-90-GW032911 | Eu-155 | Filtered | 0.4 U | 4 | 1.2 | 1.9 |
| RD-90 | SMRD-90-GW032911 | Eu-155 | Suspended | -0.08 U | 1.2 | 0.35 | 0.57 |
| RD-90 | SMRD-90-GW032911 | Eu-155 | Total | 0.4 | NA | 1.2 | NA |
| RD-90 | SMRD-90-GW032911 | gross_alpha | Filtered | 13.7 | 0.47 | 0.87 | 0.25 |
| RD-90 | SMRD-90-GW032911 | gross_alpha | Suspended | 0.65 | 0.56 | 0.21 | 0.3 |
| RD-90 | SMRD-90-GW032911 | gross_alpha | Total | 14.4 | NA | 0.9 | NA |
| RD-90 | SMRD-90-GW032911 | gross_beta | Filtered | 9.2 | 3.3 | 1.3 | 1.9 |
| RD-90 | SMRD-90-GW032911 | gross_beta | Suspended | 1.3 | 0.84 | 0.3 | 0.5 |
| RD-90 | SMRD-90-GW032911 | gross_beta | Total | 10.5 | NA | 1.4 | NA |
| RD-90 | SMRD-90-GW032911 | H-3 | Total | 54900 | 100 | 2500 | 70 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-90 | SMRD-90-GW032911 | Ho-166m | Filtered | -0.29 U | 2.5 | 0.71 | 1.2 |
| RD-90 | SMRD-90-GW032911 | Ho-166m | Suspended | -0.14 U | 1.1 | 0.31 | 0.51 |
| RD-90 | SMRD-90-GW032911 | Ho-166m | Total | -0.43 | NA | 0.78 | NA |
| RD-90 | SMRD-90-GW032911 | K-40 | Filtered | -5.6 U | 23 | 8.3 | 11 |
| RD-90 | SMRD-90-GW032911 | K-40 | Suspended | -4.1 U | 11 | 4.3 | 5.3 |
| RD-90 | SMRD-90-GW032911 | K-40 | Total | -9.7 | NA | 9.4 | NA |
| RD-90 | SMRD-90-GW032911 | Na-22 | Filtered | 0.19 U | 1.7 | 0.47 | 0.76 |
| RD-90 | SMRD-90-GW032911 | Na-22 | Suspended | 0.007 U | 0.72 | 0.2 | 0.33 |
| RD-90 | SMRD-90-GW032911 | Na-22 | Total | 0.2 | NA | 0.51 | NA |
| RD-90 | SMRD-90-GW032911 | Nb-94 | Filtered | 0.63 | 0.66 | 0.22 | 0.29 |
| RD-90 | SMRD-90-GW032911 | Nb-94 | Suspended | -0.21 U | 0.63 | 0.19 | 0.3 |
| RD-90 | SMRD-90-GW032911 | Nb-94 | Total | 0.42 | NA | 0.29 | NA |
| RD-90 | SMRD-90-GW032911 | Np-236 | Filtered | 1.05 U | 3.1 | 0.93 | 1.5 |
| RD-90 | SMRD-90-GW032911 | Np-236 | Suspended | -0.38 U | 1.2 | 0.36 | 0.58 |
| RD-90 | SMRD-90-GW032911 | Np-236 | Total | 0.67 | NA | 0.999 | NA |
| RD-90 | SMRD-90-GW032911 | Np-239 | Filtered | 3.9 U | 8.8 | 2.7 | 4.2 |
| RD-90 | SMRD-90-GW032911 | Np-239 | Suspended | 0.2 U | 3.8 | 1.1 | 1.8 |
| RD-90 | SMRD-90-GW032911 | Np-239 | Total | 4 | NA | 2.9 | NA |
| RD-90 | SMRD-90-GW032911 | Pa-231 | Filtered | -1 U | 63 | 18 | 30 |
| RD-90 | SMRD-90-GW032911 | Pa-231 | Suspended | -3 U | 28 | 8.2 | 13 |
| RD-90 | SMRD-90-GW032911 | Pa-231 | Total | -4 | NA | 20 | NA |
| RD-90 | SMRD-90-GW032911 | Pb-212 | Filtered | 1.35 U | 2.9 | 0.97 | 1.4 |
| RD-90 | SMRD-90-GW032911 | Pb-212 | Suspended | -0.05 U | 1.2 | 0.36 | 0.61 |
| RD-90 | SMRD-90-GW032911 | Pb-212 | Total | 1.3 | NA | 1 | NA |
| RD-90 | SMRD-90-GW032911 | Pb-214 | Filtered | 0.7 U | 3.4 | 1.3 | 1.7 |
| RD-90 | SMRD-90-GW032911 | Pb-214 | Suspended | 0.24 U | 1.7 | 0.65 | 0.8 |
| RD-90 | SMRD-90-GW032911 | Pb-214 | Total | 0.9 | NA | 1.4 | NA |
| RD-90 | SMRD-90-GW032911 | Sb-125 | Filtered | 0.06 U | 16 | 4.7 | 7.7 |
| RD-90 | SMRD-90-GW032911 | Sb-125 | Suspended | 0 U | 5.6 | 1.7 | 2.7 |
| RD-90 | SMRD-90-GW032911 | Sb-125 | Total | 0.06 | NA | 5 | NA |
| RD-90 | SMRD-90-GW032911 | Sn-126 | Filtered | -0.08 U | 1.5 | 0.44 | 0.72 |
| RD-90 | SMRD-90-GW032911 | Sn-126 | Suspended | 0.24 U | 0.75 | 0.22 | 0.36 |
| RD-90 | SMRD-90-GW032911 | Sn-126 | Total | 0.16 | NA | 0.49 | NA |
| RD-90 | SMRD-90-GW032911 | Sr-90 | Filtered | 0.011 U | 0.2 | 0.057 | 0.11 |
| RD-90 | SMRD-90-GW032911 | Sr-90 | Suspended | 0.076 | 0.07 | 0.023 | 0.04 |
| RD-90 | SMRD-90-GW032911 | Sr-90 | Total | 0.087 | NA | 0.061 | NA |
| RD-90 | SMRD-90-GW032911 | Te-125m | Filtered | 0.01 U | 3.7 | 1.1 | 1.8 |
| RD-90 | SMRD-90-GW032911 | Te-125m | Suspended | 0 U | 1.3 | 0.38 | 0.63 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|-------|--------|----------------|
| RD-90 | SMRD-90-GW032911 | Te-125m | Total | 0.01 | NA | 1.1 | NA |
| RD-90 | SMRD-90-GW032911 | Th-231 | Filtered | 0.48 | 0.018 | 0.04 | 0.006 |
| RD-90 | SMRD-90-GW032911 | Th-231 | Suspended | 0.0005 U | 0.017 | 0.0032 | 0.0053 |
| RD-90 | SMRD-90-GW032911 | Th-231 | Total | 0.48 | NA | 0.04 | NA |
| RD-90 | SMRD-90-GW032911 | Th-234 | Filtered | -2.2 U | 27 | 9.6 | 13 |
| RD-90 | SMRD-90-GW032911 | Th-234 | Suspended | -2.3 U | 7.2 | 2.5 | 3.5 |
| RD-90 | SMRD-90-GW032911 | Th-234 | Total | -4.5 | NA | 9.9 | NA |
| RD-90 | SMRD-90-GW032911 | Tl-208 | Filtered | -0.12 U | 1.9 | 0.58 | 0.92 |
| RD-90 | SMRD-90-GW032911 | Tl-208 | Suspended | 0.34 | 0.69 | 0.25 | 0.33 |
| RD-90 | SMRD-90-GW032911 | Tl-208 | Total | 0.22 | NA | 0.63 | NA |
| RD-90 | SMRD-90-GW032911 | Tm-171 | Filtered | -10 U | 460 | 140 | 230 |
| RD-90 | SMRD-90-GW032911 | Tm-171 | Suspended | 34 U | 120 | 36 | 58 |
| RD-90 | SMRD-90-GW032911 | Tm-171 | Total | 20 | NA | 140 | NA |
| RD-90 | SMRD-90-GW032911 | U-233/234 | Filtered | 11.3 | 0.01 | 0.5 | 0.005 |
| RD-90 | SMRD-90-GW032911 | U-233/234 | Suspended | 0.04 | 0.006 | 0.01 | 0.004 |
| RD-90 | SMRD-90-GW032911 | U-233/234 | Total | 11.3 | NA | 0.5 | NA |
| RD-90 | SMRD-90-GW032911 | U-235/236 | Filtered | 0.48 | 0.018 | 0.04 | 0.006 |
| RD-90 | SMRD-90-GW032911 | U-235/236 | Suspended | 0.0005 U | 0.017 | 0.0032 | 0.0053 |
| RD-90 | SMRD-90-GW032911 | U-235/236 | Total | 0.48 | NA | 0.04 | NA |
| RD-90 | SMRD-90-GW032911 | U-238 | Filtered | 9.62 | 0.005 | 0.43 | 0.005 |
| RD-90 | SMRD-90-GW032911 | U-238 | Suspended | 0.0311 | 0.014 | 0.0093 | 0.0042 |
| RD-90 | SMRD-90-GW032911 | U-238 | Total | 9.65 | NA | 0.43 | NA |
| RD-91 | SMRD-91-GW033011 | Ac-227 | Filtered | -5.2 U | 9.5 | 2.9 | 4.7 |
| RD-91 | SMRD-91-GW033011 | Ac-227 | Suspended | -0.9 U | 4.5 | 1.3 | 2.2 |
| RD-91 | SMRD-91-GW033011 | Ac-227 | Total | -6.1 | NA | 3.2 | NA |
| RD-91 | SMRD-91-GW033011 | Ac-228 | Filtered | 3.4 | 3.6 | 1.2 | 1.7 |
| RD-91 | SMRD-91-GW033011 | Ac-228 | Suspended | -0.15 U | 2.8 | 0.83 | 1.3 |
| RD-91 | SMRD-91-GW033011 | Ac-228 | Total | 3.2 | NA | 1.4 | NA |
| RD-91 | SMRD-91-GW033011 | Ag-108 | Filtered | 0.015 U R | 0.089 | 0.026 | 0.043 |
| RD-91 | SMRD-91-GW033011 | Ag-108 | Suspended | 0.0001 U R | 0.044 | 0.013 | 0.021 |
| RD-91 | SMRD-91-GW033011 | Ag-108 | Total | 0.015 R | NA | 0.029 | NA |
| RD-91 | SMRD-91-GW033011 | Ag-108m | Filtered | 0.16 U R | 0.96 | 0.28 | 0.46 |
| RD-91 | SMRD-91-GW033011 | Ag-108m | Suspended | 0.001 U R | 0.47 | 0.14 | 0.22 |
| RD-91 | SMRD-91-GW033011 | Ag-108m | Total | 0.16 R | NA | 0.31 | NA |
| RD-91 | SMRD-91-GW033011 | Ba-133 | Filtered | 2.4 U R | 9 | 2.7 | 4.3 |
| RD-91 | SMRD-91-GW033011 | Ba-133 | Suspended | 0.2 U R | 5.4 | 1.6 | 2.6 |
| RD-91 | SMRD-91-GW033011 | Ba-133 | Total | 2.6 R | NA | 3.1 | NA |
| RD-91 | SMRD-91-GW033011 | Ba-137m | Filtered | -0.005 U | 1 | 0.3 | 0.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RD-91 | SMRD-91-GW033011 | Ba-137m | Suspended | 0.27 U | 0.66 | 0.2 | 0.32 |
| RD-91 | SMRD-91-GW033011 | Ba-137m | Total | 0.26 | NA | 0.36 | NA |
| RD-91 | SMRD-91-GW033011 | Bi-212 | Filtered | -0.9 U | 9.2 | 3.9 | 4.4 |
| RD-91 | SMRD-91-GW033011 | Bi-212 | Suspended | 1.8 U | 6 | 1.8 | 2.9 |
| RD-91 | SMRD-91-GW033011 | Bi-212 | Total | 0.9 | NA | 4.2 | NA |
| RD-91 | SMRD-91-GW033011 | Bi-214 | Filtered | 0.8 U | 2.9 | 1.1 | 1.4 |
| RD-91 | SMRD-91-GW033011 | Bi-214 | Suspended | 0.83 | 1.6 | 0.57 | 0.79 |
| RD-91 | SMRD-91-GW033011 | Bi-214 | Total | 1.7 | NA | 1.2 | NA |
| RD-91 | SMRD-91-GW033011 | Cd-113m | Filtered | 4200 U | 13000 | 4000 | 6400 |
| RD-91 | SMRD-91-GW033011 | Cd-113m | Suspended | -2400 U | 7400 | 2200 | 3600 |
| RD-91 | SMRD-91-GW033011 | Cd-113m | Total | 1800 | NA | 4500 | NA |
| RD-91 | SMRD-91-GW033011 | Cf-249 | Filtered | -0.9 U R | 5.1 | 1.5 | 2.4 |
| RD-91 | SMRD-91-GW033011 | Cf-249 | Suspended | -0.24 U R | 2.5 | 0.74 | 1.2 |
| RD-91 | SMRD-91-GW033011 | Cf-249 | Total | -1.1 R | NA | 1.7 | NA |
| RD-91 | SMRD-91-GW033011 | Co-60 | Filtered | 0.27 U | 1.1 | 0.31 | 0.49 |
| RD-91 | SMRD-91-GW033011 | Co-60 | Suspended | 0.2 U | 0.71 | 0.21 | 0.33 |
| RD-91 | SMRD-91-GW033011 | Co-60 | Total | 0.47 | NA | 0.38 | NA |
| RD-91 | SMRD-91-GW033011 | Cs-134 | Filtered | 0.03 U | 1.7 | 0.51 | 0.84 |
| RD-91 | SMRD-91-GW033011 | Cs-134 | Suspended | 0.23 U | 0.77 | 0.23 | 0.37 |
| RD-91 | SMRD-91-GW033011 | Cs-134 | Total | 0.27 | NA | 0.56 | NA |
| RD-91 | SMRD-91-GW033011 | Cs-137 | Filtered | -0.005 U | 1.1 | 0.32 | 0.53 |
| RD-91 | SMRD-91-GW033011 | Cs-137 | Suspended | 0.29 U | 0.7 | 0.21 | 0.33 |
| RD-91 | SMRD-91-GW033011 | Cs-137 | Total | 0.28 | NA | 0.38 | NA |
| RD-91 | SMRD-91-GW033011 | Eu-152 | Filtered | 0.4 U | 3 | 0.9 | 1.5 |
| RD-91 | SMRD-91-GW033011 | Eu-152 | Suspended | -0.04 U | 1.9 | 0.55 | 0.9 |
| RD-91 | SMRD-91-GW033011 | Eu-152 | Total | 0.4 | NA | 1.1 | NA |
| RD-91 | SMRD-91-GW033011 | Eu-154 | Filtered | -1.1 U | 9.2 | 2.7 | 4.3 |
| RD-91 | SMRD-91-GW033011 | Eu-154 | Suspended | 0.05 U | 5.8 | 1.7 | 2.8 |
| RD-91 | SMRD-91-GW033011 | Eu-154 | Total | -1 | NA | 3.1 | NA |
| RD-91 | SMRD-91-GW033011 | Eu-155 | Filtered | -0.5 U | 2.8 | 0.85 | 1.4 |
| RD-91 | SMRD-91-GW033011 | Eu-155 | Suspended | 0.07 U | 1.2 | 0.37 | 0.61 |
| RD-91 | SMRD-91-GW033011 | Eu-155 | Total | -0.42 | NA | 0.93 | NA |
| RD-91 | SMRD-91-GW033011 | gross_alpha | Suspended | 11.9 | 1.8 | 1.3 | 1 |
| RD-91 | SMRD-91-GW033011 | gross_alpha | Total | 20.3 | NA | 1.5 | NA |
| RD-91 | SMRD-91-GW033011 | gross_beta | Suspended | 8.68 | 1.4 | 0.75 | 0.77 |
| RD-91 | SMRD-91-GW033011 | gross_beta | Total | 15.6 | NA | 1.5 | NA |
| RD-91 | SMRD-91-GW033011 | H-3 | Total | -53 U | 140 | 39 | 66 |
| RD-91 | SMRD-91-GW033011 | Ho-166m | Filtered | 0.16 U | 1.8 | 0.54 | 0.87 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-91 | SMRD-91-GW033011 | Ho-166m | Suspended | 0.11 U | 1.2 | 0.34 | 0.55 |
| RD-91 | SMRD-91-GW033011 | Ho-166m | Total | 0.27 | NA | 0.63 | NA |
| RD-91 | SMRD-91-GW033011 | K-40 | Filtered | -4.1 U | 17 | 5.9 | 8.2 |
| RD-91 | SMRD-91-GW033011 | K-40 | Suspended | 14.3 | 9.6 | 3.4 | 4.5 |
| RD-91 | SMRD-91-GW033011 | K-40 | Total | 10.2 | NA | 6.7 | NA |
| RD-91 | SMRD-91-GW033011 | Na-22 | Filtered | 0.29 U | 1.1 | 0.32 | 0.5 |
| RD-91 | SMRD-91-GW033011 | Na-22 | Suspended | -0.02 U | 0.8 | 0.23 | 0.37 |
| RD-91 | SMRD-91-GW033011 | Na-22 | Total | 0.28 | NA | 0.39 | NA |
| RD-91 | SMRD-91-GW033011 | Nb-94 | Filtered | 0.5 | 0.96 | 0.29 | 0.45 |
| RD-91 | SMRD-91-GW033011 | Nb-94 | Suspended | 0 U | 0.66 | 0.19 | 0.31 |
| RD-91 | SMRD-91-GW033011 | Nb-94 | Total | 0.5 | NA | 0.35 | NA |
| RD-91 | SMRD-91-GW033011 | Np-236 | Filtered | -0.64 U | 2.7 | 0.81 | 1.3 |
| RD-91 | SMRD-91-GW033011 | Np-236 | Suspended | 0.21 U | 1.1 | 0.34 | 0.55 |
| RD-91 | SMRD-91-GW033011 | Np-236 | Total | -0.43 | NA | 0.87 | NA |
| RD-91 | SMRD-91-GW033011 | Np-239 | Filtered | 0.3 U | 7.2 | 2.1 | 3.5 |
| RD-91 | SMRD-91-GW033011 | Np-239 | Suspended | 0.7 U | 3.9 | 1.2 | 1.9 |
| RD-91 | SMRD-91-GW033011 | Np-239 | Total | 1 | NA | 2.4 | NA |
| RD-91 | SMRD-91-GW033011 | Pa-231 | Filtered | 13 U | 48 | 14 | 23 |
| RD-91 | SMRD-91-GW033011 | Pa-231 | Suspended | 0 U | 28 | 8.2 | 14 |
| RD-91 | SMRD-91-GW033011 | Pa-231 | Total | 13 | NA | 17 | NA |
| RD-91 | SMRD-91-GW033011 | Pb-212 | Filtered | 0.24 U | 2.3 | 0.73 | 1.1 |
| RD-91 | SMRD-91-GW033011 | Pb-212 | Suspended | 1.48 | 1.2 | 0.45 | 0.58 |
| RD-91 | SMRD-91-GW033011 | Pb-212 | Total | 1.71 | NA | 0.86 | NA |
| RD-91 | SMRD-91-GW033011 | Pb-214 | Filtered | 0.65 U | 2.5 | 0.9 | 1.2 |
| RD-91 | SMRD-91-GW033011 | Pb-214 | Suspended | -0.21 U | 1.5 | 0.58 | 0.72 |
| RD-91 | SMRD-91-GW033011 | Pb-214 | Total | 0.4 | NA | 1.1 | NA |
| RD-91 | SMRD-91-GW033011 | Sb-125 | Filtered | 2.2 U | 12 | 3.6 | 5.8 |
| RD-91 | SMRD-91-GW033011 | Sb-125 | Suspended | 0 U | 5.7 | 1.7 | 2.8 |
| RD-91 | SMRD-91-GW033011 | Sb-125 | Total | 2.2 | NA | 3.9 | NA |
| RD-91 | SMRD-91-GW033011 | Sn-126 | Filtered | 0.14 U | 1.4 | 0.4 | 0.65 |
| RD-91 | SMRD-91-GW033011 | Sn-126 | Suspended | 0 U | 0.83 | 0.24 | 0.39 |
| RD-91 | SMRD-91-GW033011 | Sn-126 | Total | 0.14 | NA | 0.46 | NA |
| RD-91 | SMRD-91-GW033011 | Sr-90 | Suspended | 0.043 | 0.06 | 0.019 | 0.034 |
| RD-91 | SMRD-91-GW033011 | Sr-90 | Total | 0.063 | NA | 0.044 | NA |
| RD-91 | SMRD-91-GW033011 | Te-125m | Filtered | 0.5 U | 2.8 | 0.82 | 1.3 |
| RD-91 | SMRD-91-GW033011 | Te-125m | Suspended | 0 U | 1.3 | 0.39 | 0.64 |
| RD-91 | SMRD-91-GW033011 | Te-125m | Total | 0.5 | NA | 0.91 | NA |
| RD-91 | SMRD-91-GW033011 | Th-231 | Filtered | 0.199 | 0.022 | 0.025 | 0.008 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|--------|----------------|
| RD-91 | SMRD-91-GW033011 | Th-231 | Suspended | 0.0079 | 0.016 | 0.0053 | 0.0051 |
| RD-91 | SMRD-91-GW033011 | Th-231 | Total | 0.207 | NA | 0.025 | NA |
| RD-91 | SMRD-91-GW033011 | Th-234 | Filtered | 8.9 U | 23 | 8.6 | 11 |
| RD-91 | SMRD-91-GW033011 | Th-234 | Suspended | 0.5 U | 7.5 | 2.3 | 3.7 |
| RD-91 | SMRD-91-GW033011 | Th-234 | Total | 9.4 | NA | 9 | NA |
| RD-91 | SMRD-91-GW033011 | Tl-208 | Filtered | 0.61 U | 1.3 | 0.42 | 0.62 |
| RD-91 | SMRD-91-GW033011 | Tl-208 | Suspended | 0.26 U | 0.88 | 0.25 | 0.43 |
| RD-91 | SMRD-91-GW033011 | Tl-208 | Total | 0.87 | NA | 0.49 | NA |
| RD-91 | SMRD-91-GW033011 | Tm-171 | Filtered | -20 U | 370 | 110 | 180 |
| RD-91 | SMRD-91-GW033011 | Tm-171 | Suspended | 19 U | 120 | 35 | 57 |
| RD-91 | SMRD-91-GW033011 | Tm-171 | Total | -3 | NA | 120 | NA |
| RD-91 | SMRD-91-GW033011 | U-233/234 | Filtered | 5.2 | 0.006 | 0.24 | 0.004 |
| RD-91 | SMRD-91-GW033011 | U-233/234 | Suspended | 0.099 | 0.013 | 0.016 | 0.004 |
| RD-91 | SMRD-91-GW033011 | U-233/234 | Total | 5.3 | NA | 0.24 | NA |
| RD-91 | SMRD-91-GW033011 | U-235/236 | Filtered | 0.199 | 0.022 | 0.025 | 0.008 |
| RD-91 | SMRD-91-GW033011 | U-235/236 | Suspended | 0.0079 | 0.016 | 0.0053 | 0.0051 |
| RD-91 | SMRD-91-GW033011 | U-235/236 | Total | 0.207 | NA | 0.025 | NA |
| RD-91 | SMRD-91-GW033011 | U-238 | Filtered | 4.29 | 0.006 | 0.2 | 0.004 |
| RD-91 | SMRD-91-GW033011 | U-238 | Suspended | 0.108 | 0.013 | 0.016 | 0.004 |
| RD-91 | SMRD-91-GW033011 | U-238 | Total | 4.4 | NA | 0.2 | NA |
| RD-92 | SMRD-92-GW032211 | Ac-227 | Filtered | -1.8 U | 8.3 | 2.5 | 4.1 |
| RD-92 | SMRD-92-GW032211 | Ac-227 | Suspended | 0.8 U | 4.7 | 1.4 | 2.3 |
| RD-92 | SMRD-92-GW032211 | Ac-227 | Total | -1 | NA | 2.9 | NA |
| RD-92 | SMRD-92-GW032211 | Ac-228 | Filtered | 2.5 | 4 | 1.2 | 1.9 |
| RD-92 | SMRD-92-GW032211 | Ac-228 | Suspended | -1.1 U | 2.7 | 1.7 | 1.3 |
| RD-92 | SMRD-92-GW032211 | Ac-228 | Total | 1.4 | NA | 2.1 | NA |
| RD-92 | SMRD-92-GW032211 | Ag-108 | Filtered | -0.0008 U R | 0.087 | 0.025 | 0.042 |
| RD-92 | SMRD-92-GW032211 | Ag-108 | Suspended | 0.011 U R | 0.049 | 0.015 | 0.024 |
| RD-92 | SMRD-92-GW032211 | Ag-108 | Total | 0.011 R | NA | 0.029 | NA |
| RD-92 | SMRD-92-GW032211 | Ag-108m | Filtered | -0.009 U R | 0.94 | 0.27 | 0.45 |
| RD-92 | SMRD-92-GW032211 | Ag-108m | Suspended | 0.12 U R | 0.53 | 0.16 | 0.25 |
| RD-92 | SMRD-92-GW032211 | Ag-108m | Total | 0.11 R | NA | 0.31 | NA |
| RD-92 | SMRD-92-GW032211 | Ba-133 | Filtered | -0.3 U R | 10 | 3.1 | 5 |
| RD-92 | SMRD-92-GW032211 | Ba-133 | Suspended | -0.4 U R | 6.2 | 1.8 | 3 |
| RD-92 | SMRD-92-GW032211 | Ba-133 | Total | -0.7 R | NA | 3.6 | NA |
| RD-92 | SMRD-92-GW032211 | Ba-137m | Filtered | 0.18 U | 0.95 | 0.28 | 0.45 |
| RD-92 | SMRD-92-GW032211 | Ba-137m | Suspended | -0.24 U | 0.7 | 0.21 | 0.34 |
| RD-92 | SMRD-92-GW032211 | Ba-137m | Total | -0.06 | NA | 0.35 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-92 | SMRD-92-GW032211 | Bi-212 | Filtered | -2.9 U | 9.5 | 5.4 | 4.5 |
| RD-92 | SMRD-92-GW032211 | Bi-212 | Suspended | 2.2 U | 5.7 | 1.7 | 2.7 |
| RD-92 | SMRD-92-GW032211 | Bi-212 | Total | -0.7 | NA | 5.7 | NA |
| RD-92 | SMRD-92-GW032211 | Bi-214 | Filtered | 1 U | 2.9 | 1.1 | 1.4 |
| RD-92 | SMRD-92-GW032211 | Bi-214 | Suspended | -1.4 U | 1.8 | 1.1 | 0.9 |
| RD-92 | SMRD-92-GW032211 | Bi-214 | Total | -0.4 | NA | 1.6 | NA |
| RD-92 | SMRD-92-GW032211 | Cd-113m | Filtered | 400 U | 13000 | 3900 | 6400 |
| RD-92 | SMRD-92-GW032211 | Cd-113m | Suspended | 600 U | 7100 | 2100 | 3400 |
| RD-92 | SMRD-92-GW032211 | Cd-113m | Total | 1000 | NA | 4400 | NA |
| RD-92 | SMRD-92-GW032211 | Cf-249 | Filtered | 0.07 U R | 4.8 | 1.4 | 2.3 |
| RD-92 | SMRD-92-GW032211 | Cf-249 | Suspended | 1.12 U R | 3 | 0.92 | 1.5 |
| RD-92 | SMRD-92-GW032211 | Cf-249 | Total | 1.2 R | NA | 1.7 | NA |
| RD-92 | SMRD-92-GW032211 | Co-60 | Filtered | 0.14 U | 1.2 | 0.33 | 0.54 |
| RD-92 | SMRD-92-GW032211 | Co-60 | Suspended | 0.23 U | 0.68 | 0.2 | 0.32 |
| RD-92 | SMRD-92-GW032211 | Co-60 | Total | 0.37 | NA | 0.39 | NA |
| RD-92 | SMRD-92-GW032211 | Cs-134 | Filtered | -0.42 U | 1.3 | 0.38 | 0.62 |
| RD-92 | SMRD-92-GW032211 | Cs-134 | Suspended | 0.08 U | 0.71 | 0.21 | 0.34 |
| RD-92 | SMRD-92-GW032211 | Cs-134 | Total | -0.34 | NA | 0.44 | NA |
| RD-92 | SMRD-92-GW032211 | Cs-137 | Filtered | 0.2 U | 1 | 0.29 | 0.47 |
| RD-92 | SMRD-92-GW032211 | Cs-137 | Suspended | -0.25 U | 0.74 | 0.22 | 0.36 |
| RD-92 | SMRD-92-GW032211 | Cs-137 | Total | -0.06 | NA | 0.37 | NA |
| RD-92 | SMRD-92-GW032211 | Eu-152 | Filtered | -0.27 U | 2.9 | 0.86 | 1.4 |
| RD-92 | SMRD-92-GW032211 | Eu-152 | Suspended | -0.41 U | 1.8 | 0.54 | 0.87 |
| RD-92 | SMRD-92-GW032211 | Eu-152 | Total | -0.7 | NA | 1 | NA |
| RD-92 | SMRD-92-GW032211 | Eu-154 | Filtered | 4 | 6.3 | 2 | 2.9 |
| RD-92 | SMRD-92-GW032211 | Eu-154 | Suspended | -1.6 U | 5.4 | 1.6 | 2.5 |
| RD-92 | SMRD-92-GW032211 | Eu-154 | Total | 2.4 | NA | 2.5 | NA |
| RD-92 | SMRD-92-GW032211 | Eu-155 | Filtered | 0.43 U | 2.7 | 0.81 | 1.3 |
| RD-92 | SMRD-92-GW032211 | Eu-155 | Suspended | 0.1 U | 1.2 | 0.36 | 0.58 |
| RD-92 | SMRD-92-GW032211 | Eu-155 | Total | 0.53 | NA | 0.88 | NA |
| RD-92 | SMRD-92-GW032211 | gross_alpha | Filtered | 2.24 | 0.4 | 0.31 | 0.2 |
| RD-92 | SMRD-92-GW032211 | gross_alpha | Suspended | 0.15 U | 0.42 | 0.12 | 0.21 |
| RD-92 | SMRD-92-GW032211 | gross_alpha | Total | 2.39 | NA | 0.33 | NA |
| RD-92 | SMRD-92-GW032211 | gross_beta | Filtered | 2.18 | 1.8 | 0.61 | 1.1 |
| RD-92 | SMRD-92-GW032211 | gross_beta | Suspended | 0.61 | 0.7 | 0.23 | 0.41 |
| RD-92 | SMRD-92-GW032211 | gross_beta | Total | 2.78 | NA | 0.65 | NA |
| RD-92 | SMRD-92-GW032211 | H-3 | Total | 28 U | 150 | 46 | 75 |
| RD-92 | SMRD-92-GW032211 | Ho-166m | Filtered | -0.6 U | 2 | 0.58 | 0.93 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-92 | SMRD-92-GW032211 | Ho-166m | Suspended | -0.39 U | 1.1 | 0.33 | 0.53 |
| RD-92 | SMRD-92-GW032211 | Ho-166m | Total | -1 | NA | 0.67 | NA |
| RD-92 | SMRD-92-GW032211 | K-40 | Filtered | 6.5 U | 18 | 5.2 | 8.5 |
| RD-92 | SMRD-92-GW032211 | K-40 | Suspended | -0.2 U | 12 | 3 | 5.6 |
| RD-92 | SMRD-92-GW032211 | K-40 | Total | 6.3 | NA | 6 | NA |
| RD-92 | SMRD-92-GW032211 | Na-22 | Filtered | -0.21 U | 1.2 | 0.34 | 0.54 |
| RD-92 | SMRD-92-GW032211 | Na-22 | Suspended | 0.09 U | 0.69 | 0.2 | 0.32 |
| RD-92 | SMRD-92-GW032211 | Na-22 | Total | -0.12 | NA | 0.39 | NA |
| RD-92 | SMRD-92-GW032211 | Nb-94 | Filtered | 0.21 U | 1.1 | 0.33 | 0.54 |
| RD-92 | SMRD-92-GW032211 | Nb-94 | Suspended | -0.14 U | 0.64 | 0.19 | 0.3 |
| RD-92 | SMRD-92-GW032211 | Nb-94 | Total | 0.07 | NA | 0.38 | NA |
| RD-92 | SMRD-92-GW032211 | Np-236 | Filtered | 0.56 U | 2.3 | 0.68 | 1.1 |
| RD-92 | SMRD-92-GW032211 | Np-236 | Suspended | 0.42 U | 1.1 | 0.32 | 0.52 |
| RD-92 | SMRD-92-GW032211 | Np-236 | Total | 0.98 | NA | 0.75 | NA |
| RD-92 | SMRD-92-GW032211 | Np-239 | Filtered | 0.2 U | 7.3 | 2.2 | 3.6 |
| RD-92 | SMRD-92-GW032211 | Np-239 | Suspended | 0.5 U | 3.8 | 1.1 | 1.9 |
| RD-92 | SMRD-92-GW032211 | Np-239 | Total | 0.7 | NA | 2.4 | NA |
| RD-92 | SMRD-92-GW032211 | Pa-231 | Filtered | -5 U | 51 | 15 | 24 |
| RD-92 | SMRD-92-GW032211 | Pa-231 | Suspended | -5 U | 28 | 8.2 | 13 |
| RD-92 | SMRD-92-GW032211 | Pa-231 | Total | -10 | NA | 17 | NA |
| RD-92 | SMRD-92-GW032211 | Pb-212 | Filtered | 0.53 U | 2.2 | 0.64 | 1.1 |
| RD-92 | SMRD-92-GW032211 | Pb-212 | Suspended | 0.1 U | 1.2 | 0.39 | 0.57 |
| RD-92 | SMRD-92-GW032211 | Pb-212 | Total | 0.62 | NA | 0.75 | NA |
| RD-92 | SMRD-92-GW032211 | Pb-214 | Filtered | 1.4 | 2.7 | 1.1 | 1.3 |
| RD-92 | SMRD-92-GW032211 | Pb-214 | Suspended | -0.88 U | 1.5 | 0.92 | 0.72 |
| RD-92 | SMRD-92-GW032211 | Pb-214 | Total | 0.5 | NA | 1.4 | NA |
| RD-92 | SMRD-92-GW032211 | Sb-125 | Filtered | 3.4 U | 11 | 3.2 | 5.2 |
| RD-92 | SMRD-92-GW032211 | Sb-125 | Suspended | 0.4 U | 5.6 | 1.7 | 2.7 |
| RD-92 | SMRD-92-GW032211 | Sb-125 | Total | 3.8 | NA | 3.6 | NA |
| RD-92 | SMRD-92-GW032211 | Sn-126 | Filtered | 0.4 U | 1.2 | 0.34 | 0.55 |
| RD-92 | SMRD-92-GW032211 | Sn-126 | Suspended | 0.09 U | 0.78 | 0.23 | 0.38 |
| RD-92 | SMRD-92-GW032211 | Sn-126 | Total | 0.49 | NA | 0.41 | NA |
| RD-92 | SMRD-92-GW032211 | Sr-90 | Filtered | 0 U | 0.057 | 0.016 | 0.032 |
| RD-92 | SMRD-92-GW032211 | Sr-90 | Suspended | 0.021 U | 0.11 | 0.033 | 0.064 |
| RD-92 | SMRD-92-GW032211 | Sr-90 | Total | 0.021 | NA | 0.033 | NA |
| RD-92 | SMRD-92-GW032211 | Te-125m | Filtered | 0.78 U | 2.5 | 0.75 | 1.2 |
| RD-92 | SMRD-92-GW032211 | Te-125m | Suspended | 0.1 U | 1.3 | 0.39 | 0.63 |
| RD-92 | SMRD-92-GW032211 | Te-125m | Total | 0.88 | NA | 0.84 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-92 | SMRD-92-GW032211 | Th-231 | Filtered | 0.0231 | 0.017 | 0.0082 | 0.0052 |
| RD-92 | SMRD-92-GW032211 | Th-231 | Suspended | 0.0094 U | 0.013 | 0.0066 | 0.0097 |
| RD-92 | SMRD-92-GW032211 | Th-231 | Total | 0.032 | NA | 0.011 | NA |
| RD-92 | SMRD-92-GW032211 | Th-234 | Filtered | 5.9 U | 22 | 7.4 | 11 |
| RD-92 | SMRD-92-GW032211 | Th-234 | Suspended | 1.5 U | 8.6 | 2.8 | 4.2 |
| RD-92 | SMRD-92-GW032211 | Th-234 | Total | 7.4 | NA | 7.9 | NA |
| RD-92 | SMRD-92-GW032211 | Tl-208 | Filtered | 0.91 | 1.4 | 0.62 | 0.69 |
| RD-92 | SMRD-92-GW032211 | Tl-208 | Suspended | 0.07 U | 0.82 | 0.31 | 0.4 |
| RD-92 | SMRD-92-GW032211 | Tl-208 | Total | 0.98 | NA | 0.69 | NA |
| RD-92 | SMRD-92-GW032211 | Tm-171 | Filtered | -126 U | 290 | 88 | 140 |
| RD-92 | SMRD-92-GW032211 | Tm-171 | Suspended | -12 U | 110 | 34 | 56 |
| RD-92 | SMRD-92-GW032211 | Tm-171 | Total | -138 | NA | 94 | NA |
| RD-92 | SMRD-92-GW032211 | U-233/234 | Filtered | 0.945 | 0.017 | 0.059 | 0.006 |
| RD-92 | SMRD-92-GW032211 | U-233/234 | Suspended | 0.008 | 0.025 | 0.011 | 0.008 |
| RD-92 | SMRD-92-GW032211 | U-233/234 | Total | 0.952 | NA | 0.06 | NA |
| RD-92 | SMRD-92-GW032211 | U-235/236 | Filtered | 0.0231 | 0.017 | 0.0082 | 0.0052 |
| RD-92 | SMRD-92-GW032211 | U-235/236 | Suspended | 0.0094 U | 0.013 | 0.0066 | 0.0097 |
| RD-92 | SMRD-92-GW032211 | U-235/236 | Total | 0.032 | NA | 0.011 | NA |
| RD-92 | SMRD-92-GW032211 | U-238 | Filtered | 0.763 | 0.005 | 0.051 | 0.004 |
| RD-92 | SMRD-92-GW032211 | U-238 | Suspended | 0.0081 | 0.01 | 0.0092 | 0.0078 |
| RD-92 | SMRD-92-GW032211 | U-238 | Total | 0.771 | NA | 0.052 | NA |
| RD-93 | SMRD-93-GW031711 | Ac-227 | Filtered | -2.1 U | 8.9 | 2.7 | 4.3 |
| RD-93 | SMRD-93-GW031711 | Ac-227 | Suspended | -4.1 L U | 5.2 | 1.6 | 2.6 |
| RD-93 | SMRD-93-GW031711 | Ac-227 | Total | -6.2 | NA | 3.1 | NA |
| RD-93 | SMRD-93-GW031711 | Ac-228 | Filtered | 1.5 U | 4.1 | 1.2 | 1.9 |
| RD-93 | SMRD-93-GW031711 | Ac-228 | Suspended | 4.07 | 2.2 | 0.74 | 1 |
| RD-93 | SMRD-93-GW031711 | Ac-228 | Total | 5.5 | NA | 1.4 | NA |
| RD-93 | SMRD-93-GW031711 | Ag-108 | Filtered | 0.02 R | 0.089 | 0.026 | 0.042 |
| RD-93 | SMRD-93-GW031711 | Ag-108 | Suspended | 0.019 R | 0.047 | 0.014 | 0.022 |
| RD-93 | SMRD-93-GW031711 | Ag-108 | Total | 0.039 R | NA | 0.03 | NA |
| RD-93 | SMRD-93-GW031711 | Ag-108m | Filtered | 0.21 R | 0.96 | 0.28 | 0.45 |
| RD-93 | SMRD-93-GW031711 | Ag-108m | Suspended | 0.21 R | 0.5 | 0.15 | 0.24 |
| RD-93 | SMRD-93-GW031711 | Ag-108m | Total | 0.42 R | NA | 0.32 | NA |
| RD-93 | SMRD-93-GW031711 | Ba-133 | Filtered | -1.1 R | 10 | 3 | 4.9 |
| RD-93 | SMRD-93-GW031711 | Ba-133 | Suspended | 1.5 R | 5.8 | 1.7 | 2.8 |
| RD-93 | SMRD-93-GW031711 | Ba-133 | Total | 0.4 R | NA | 3.5 | NA |
| RD-93 | SMRD-93-GW031711 | Ba-137m | Filtered | -0.29 U | 1.4 | 0.4 | 0.64 |
| RD-93 | SMRD-93-GW031711 | Ba-137m | Suspended | 0.2 U | 0.62 | 0.18 | 0.29 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-93 | SMRD-93-GW031711 | Ba-137m | Total | -0.09 | NA | 0.44 | NA |
| RD-93 | SMRD-93-GW031711 | Bi-212 | Filtered | -1.3 U | 11 | 3.2 | 5.2 |
| RD-93 | SMRD-93-GW031711 | Bi-212 | Suspended | 2.4 U | 5.2 | 1.6 | 2.5 |
| RD-93 | SMRD-93-GW031711 | Bi-212 | Total | 1.1 | NA | 3.6 | NA |
| RD-93 | SMRD-93-GW031711 | Bi-214 | Filtered | 1.29 | 2.4 | 0.74 | 1.1 |
| RD-93 | SMRD-93-GW031711 | Bi-214 | Suspended | 2.21 | 1.7 | 0.69 | 0.82 |
| RD-93 | SMRD-93-GW031711 | Bi-214 | Total | 3.5 | NA | 1 | NA |
| RD-93 | SMRD-93-GW031711 | Cd-113m | Filtered | -3 U | 13000 | 3900 | 6400 |
| RD-93 | SMRD-93-GW031711 | Cd-113m | Suspended | 100 U | 7800 | 2300 | 3800 |
| RD-93 | SMRD-93-GW031711 | Cd-113m | Total | 100 | NA | 4500 | NA |
| RD-93 | SMRD-93-GW031711 | Cf-249 | Filtered | 1.1 R | 5 | 1.5 | 2.3 |
| RD-93 | SMRD-93-GW031711 | Cf-249 | Suspended | -0.38 R | 2.8 | 0.82 | 1.3 |
| RD-93 | SMRD-93-GW031711 | Cf-249 | Total | 0.8 R | NA | 1.7 | NA |
| RD-93 | SMRD-93-GW031711 | Co-60 | Filtered | -0.35 U | 1.6 | 0.46 | 0.73 |
| RD-93 | SMRD-93-GW031711 | Co-60 | Suspended | 0.06 U | 0.58 | 0.16 | 0.26 |
| RD-93 | SMRD-93-GW031711 | Co-60 | Total | -0.3 | NA | 0.49 | NA |
| RD-93 | SMRD-93-GW031711 | Cs-134 | Filtered | 0 U | 1.7 | 0.5 | 0.82 |
| RD-93 | SMRD-93-GW031711 | Cs-134 | Suspended | 0.15 U | 0.63 | 0.19 | 0.3 |
| RD-93 | SMRD-93-GW031711 | Cs-134 | Total | 0.15 | NA | 0.53 | NA |
| RD-93 | SMRD-93-GW031711 | Cs-137 | Filtered | -0.31 U | 1.4 | 0.42 | 0.68 |
| RD-93 | SMRD-93-GW031711 | Cs-137 | Suspended | 0.21 U | 0.65 | 0.2 | 0.31 |
| RD-93 | SMRD-93-GW031711 | Cs-137 | Total | -0.09 | NA | 0.47 | NA |
| RD-93 | SMRD-93-GW031711 | Eu-152 | Filtered | -0.23 U | 3.3 | 0.97 | 1.6 |
| RD-93 | SMRD-93-GW031711 | Eu-152 | Suspended | 0.23 U | 1.7 | 0.51 | 0.83 |
| RD-93 | SMRD-93-GW031711 | Eu-152 | Total | 0.004 | NA | 1.1 | NA |
| RD-93 | SMRD-93-GW031711 | Eu-154 | Filtered | -2.7 U | 11 | 3.3 | 5.2 |
| RD-93 | SMRD-93-GW031711 | Eu-154 | Suspended | 1.3 U | 5.7 | 1.7 | 2.7 |
| RD-93 | SMRD-93-GW031711 | Eu-154 | Total | -1.4 | NA | 3.7 | NA |
| RD-93 | SMRD-93-GW031711 | Eu-155 | Filtered | 0.57 U | 2.6 | 0.78 | 1.3 |
| RD-93 | SMRD-93-GW031711 | Eu-155 | Suspended | 0.37 U | 1.2 | 0.37 | 0.6 |
| RD-93 | SMRD-93-GW031711 | Eu-155 | Total | 0.95 | NA | 0.87 | NA |
| RD-93 | SMRD-93-GW031711 | gross_alpha | Filtered | 15 | 0.44 | 0.9 | 0.23 |
| RD-93 | SMRD-93-GW031711 | gross_alpha | Suspended | 9.5 | 2.2 | 1.4 | 1.1 |
| RD-93 | SMRD-93-GW031711 | gross_alpha | Total | 24.5 | NA | 1.7 | NA |
| RD-93 | SMRD-93-GW031711 | gross_beta | Filtered | 14 | 5 | 2.1 | 2.9 |
| RD-93 | SMRD-93-GW031711 | gross_beta | Suspended | 135 | 3.7 | 6.1 | 2 |
| RD-93 | SMRD-93-GW031711 | gross_beta | Total | 149 | NA | 6.5 | NA |
| RD-93 | SMRD-93-GW031711 | H-3 | Total | 9130 | 210 | 430 | 100 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-93 | SMRD-93-GW031711 | Ho-166m | Filtered | 0.16 U | 2 | 0.56 | 0.92 |
| RD-93 | SMRD-93-GW031711 | Ho-166m | Suspended | -0.41 U | 1.2 | 0.35 | 0.56 |
| RD-93 | SMRD-93-GW031711 | Ho-166m | Total | -0.25 | NA | 0.67 | NA |
| RD-93 | SMRD-93-GW031711 | K-40 | Filtered | -6 U | 20 | 12 | 9 |
| RD-93 | SMRD-93-GW031711 | K-40 | Suspended | 43 | 12 | 4.6 | 5.9 |
| RD-93 | SMRD-93-GW031711 | K-40 | Total | 37 | NA | 12 | NA |
| RD-93 | SMRD-93-GW031711 | Na-22 | Filtered | 0.18 U | 1 | 0.28 | 0.44 |
| RD-93 | SMRD-93-GW031711 | Na-22 | Suspended | -0.14 U | 0.79 | 0.23 | 0.37 |
| RD-93 | SMRD-93-GW031711 | Na-22 | Total | 0.04 | NA | 0.36 | NA |
| RD-93 | SMRD-93-GW031711 | Nb-94 | Filtered | -0.07 U | 1.1 | 0.32 | 0.52 |
| RD-93 | SMRD-93-GW031711 | Nb-94 | Suspended | 0.17 U | 0.69 | 0.21 | 0.33 |
| RD-93 | SMRD-93-GW031711 | Nb-94 | Total | 0.1 | NA | 0.38 | NA |
| RD-93 | SMRD-93-GW031711 | Np-236 | Filtered | -0.31 U | 2.6 | 0.77 | 1.3 |
| RD-93 | SMRD-93-GW031711 | Np-236 | Suspended | -0.36 U | 1.3 | 0.39 | 0.63 |
| RD-93 | SMRD-93-GW031711 | Np-236 | Total | -0.67 | NA | 0.86 | NA |
| RD-93 | SMRD-93-GW031711 | Np-239 | Filtered | 1.3 U | 7.1 | 2.1 | 3.4 |
| RD-93 | SMRD-93-GW031711 | Np-239 | Suspended | 0.01 U | 3.9 | 1.1 | 1.9 |
| RD-93 | SMRD-93-GW031711 | Np-239 | Total | 1.3 | NA | 2.4 | NA |
| RD-93 | SMRD-93-GW031711 | Pa-231 | Filtered | 21 U | 48 | 15 | 23 |
| RD-93 | SMRD-93-GW031711 | Pa-231 | Suspended | 1.2 U | 26 | 7.5 | 12 |
| RD-93 | SMRD-93-GW031711 | Pa-231 | Total | 22 | NA | 16 | NA |
| RD-93 | SMRD-93-GW031711 | Pb-212 | Filtered | -0.8 U | 2.5 | 1.4 | 1.2 |
| RD-93 | SMRD-93-GW031711 | Pb-212 | Suspended | 2.53 | 1.1 | 0.42 | 0.55 |
| RD-93 | SMRD-93-GW031711 | Pb-212 | Total | 1.7 | NA | 1.5 | NA |
| RD-93 | SMRD-93-GW031711 | Pb-214 | Filtered | 0.004 U | 2.6 | 0.71 | 1.2 |
| RD-93 | SMRD-93-GW031711 | Pb-214 | Suspended | 0.65 U | 1.4 | 0.45 | 0.69 |
| RD-93 | SMRD-93-GW031711 | Pb-214 | Total | 0.65 | NA | 0.84 | NA |
| RD-93 | SMRD-93-GW031711 | Sb-125 | Filtered | 2 U | 12 | 3.5 | 5.7 |
| RD-93 | SMRD-93-GW031711 | Sb-125 | Suspended | 0.4 U | 6 | 1.8 | 2.9 |
| RD-93 | SMRD-93-GW031711 | Sb-125 | Total | 2.3 | NA | 3.9 | NA |
| RD-93 | SMRD-93-GW031711 | Sn-126 | Filtered | -0.33 U | 1.4 | 0.42 | 0.67 |
| RD-93 | SMRD-93-GW031711 | Sn-126 | Suspended | 0.01 U | 0.76 | 0.22 | 0.36 |
| RD-93 | SMRD-93-GW031711 | Sn-126 | Total | -0.31 | NA | 0.47 | NA |
| RD-93 | SMRD-93-GW031711 | Sr-90 | Filtered | 0.038 U | 0.16 | 0.047 | 0.091 |
| RD-93 | SMRD-93-GW031711 | Sr-90 | Suspended | 0.002 U | 0.1 | 0.03 | 0.055 |
| RD-93 | SMRD-93-GW031711 | Sr-90 | Total | 0.041 | NA | 0.056 | NA |
| RD-93 | SMRD-93-GW031711 | Te-125m | Filtered | 0.46 U | 2.7 | 0.81 | 1.3 |
| RD-93 | SMRD-93-GW031711 | Te-125m | Suspended | 0.09 U | 1.4 | 0.41 | 0.67 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-93 | SMRD-93-GW031711 | Te-125m | Total | 0.54 | NA | 0.91 | NA |
| RD-93 | SMRD-93-GW031711 | Th-231 | Filtered | 0.379 | 0.007 | 0.035 | 0.006 |
| RD-93 | SMRD-93-GW031711 | Th-231 | Suspended | 0.0244 | 0.018 | 0.0085 | 0.0057 |
| RD-93 | SMRD-93-GW031711 | Th-231 | Total | 0.404 | NA | 0.037 | NA |
| RD-93 | SMRD-93-GW031711 | Th-234 | Filtered | 17.6 | 20 | 6.4 | 9.9 |
| RD-93 | SMRD-93-GW031711 | Th-234 | Suspended | 3.8 U | 8.5 | 2.7 | 4.2 |
| RD-93 | SMRD-93-GW031711 | Th-234 | Total | 21.5 | NA | 6.9 | NA |
| RD-93 | SMRD-93-GW031711 | Tl-208 | Filtered | -0.16 U | 1.5 | 0.58 | 0.7 |
| RD-93 | SMRD-93-GW031711 | Tl-208 | Suspended | 1.08 | 0.75 | 0.3 | 0.36 |
| RD-93 | SMRD-93-GW031711 | Tl-208 | Total | 0.91 | NA | 0.65 | NA |
| RD-93 | SMRD-93-GW031711 | Tm-171 | Filtered | 61 U | 240 | 72 | 120 |
| RD-93 | SMRD-93-GW031711 | Tm-171 | Suspended | -7 U | 110 | 32 | 53 |
| RD-93 | SMRD-93-GW031711 | Tm-171 | Total | 54 | NA | 79 | NA |
| RD-93 | SMRD-93-GW031711 | U-233/234 | Filtered | 7.42 | 0.006 | 0.34 | 0.004 |
| RD-93 | SMRD-93-GW031711 | U-233/234 | Suspended | 0.79 | 0.026 | 0.052 | 0.01 |
| RD-93 | SMRD-93-GW031711 | U-233/234 | Total | 8.21 | NA | 0.34 | NA |
| RD-93 | SMRD-93-GW031711 | U-235/236 | Filtered | 0.379 | 0.007 | 0.035 | 0.006 |
| RD-93 | SMRD-93-GW031711 | U-235/236 | Suspended | 0.0244 | 0.018 | 0.0085 | 0.0057 |
| RD-93 | SMRD-93-GW031711 | U-235/236 | Total | 0.403 | NA | 0.036 | NA |
| RD-93 | SMRD-93-GW031711 | U-238 | Filtered | 6.69 | 0.006 | 0.31 | 0.004 |
| RD-93 | SMRD-93-GW031711 | U-238 | Suspended | 0.727 | 0.018 | 0.049 | 0.006 |
| RD-93 | SMRD-93-GW031711 | U-238 | Total | 7.41 | NA | 0.31 | NA |
| RD-94 | SMRD-94-GW032811 | Ac-227 | Filtered | 1 U | 6.3 | 1.9 | 3 |
| RD-94 | SMRD-94-GW032811 | Ac-227 | Suspended | -3.1 L U | 4.5 | 1.4 | 2.2 |
| RD-94 | SMRD-94-GW032811 | Ac-227 | Total | -2.2 | NA | 2.3 | NA |
| RD-94 | SMRD-94-GW032811 | Ac-228 | Filtered | 2.5 | 3.9 | 1.2 | 1.8 |
| RD-94 | SMRD-94-GW032811 | Ac-228 | Suspended | 0.009 U | 3 | 0.77 | 1.4 |
| RD-94 | SMRD-94-GW032811 | Ac-228 | Total | 2.5 | NA | 1.4 | NA |
| RD-94 | SMRD-94-GW032811 | Ag-108 | Filtered | -0.003 U | 0.08 | 0.023 | 0.038 |
| RD-94 | SMRD-94-GW032811 | Ag-108 | Suspended | -0.013 U | 0.051 | 0.015 | 0.025 |
| RD-94 | SMRD-94-GW032811 | Ag-108 | Total | -0.015 | NA | 0.028 | NA |
| RD-94 | SMRD-94-GW032811 | Ag-108m | Filtered | -0.03 U | 0.86 | 0.25 | 0.41 |
| RD-94 | SMRD-94-GW032811 | Ag-108m | Suspended | -0.14 U | 0.55 | 0.16 | 0.26 |
| RD-94 | SMRD-94-GW032811 | Ag-108m | Total | -0.16 | NA | 0.3 | NA |
| RD-94 | SMRD-94-GW032811 | Ba-133 | Filtered | -0.2 U | 13 | 3.7 | 6.1 |
| RD-94 | SMRD-94-GW032811 | Ba-133 | Suspended | -2.1 U | 5.9 | 1.8 | 2.9 |
| RD-94 | SMRD-94-GW032811 | Ba-133 | Total | -2.3 | NA | 4.1 | NA |
| RD-94 | SMRD-94-GW032811 | Ba-137m | Filtered | 0.5 | 1 | 0.31 | 0.48 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-94 | SMRD-94-GW032811 | Ba-137m | Suspended | -0.01 U | 0.7 | 0.2 | 0.33 |
| RD-94 | SMRD-94-GW032811 | Ba-137m | Total | 0.48 | NA | 0.37 | NA |
| RD-94 | SMRD-94-GW032811 | Bi-212 | Filtered | 3.7 U | 8.4 | 2.5 | 4 |
| RD-94 | SMRD-94-GW032811 | Bi-212 | Suspended | 1.7 U | 5.4 | 1.6 | 2.6 |
| RD-94 | SMRD-94-GW032811 | Bi-212 | Total | 5.5 | NA | 3 | NA |
| RD-94 | SMRD-94-GW032811 | Bi-214 | Filtered | 1.11 | 2.3 | 0.78 | 1.1 |
| RD-94 | SMRD-94-GW032811 | Bi-214 | Suspended | 1.08 | 1.6 | 0.61 | 0.77 |
| RD-94 | SMRD-94-GW032811 | Bi-214 | Total | 2.2 | NA | 0.98 | NA |
| RD-94 | SMRD-94-GW032811 | Cd-113m | Filtered | 4000 U | 14000 | 4200 | 6800 |
| RD-94 | SMRD-94-GW032811 | Cd-113m | Suspended | 300 U | 7100 | 2100 | 3400 |
| RD-94 | SMRD-94-GW032811 | Cd-113m | Total | 4300 | NA | 4700 | NA |
| RD-94 | SMRD-94-GW032811 | Cf-249 | Filtered | -1.5 U | 5.9 | 1.8 | 2.8 |
| RD-94 | SMRD-94-GW032811 | Cf-249 | Suspended | -0.68 U | 3.2 | 0.94 | 1.5 |
| RD-94 | SMRD-94-GW032811 | Cf-249 | Total | -2.1 | NA | 2 | NA |
| RD-94 | SMRD-94-GW032811 | Co-60 | Filtered | 0.12 U | 1 | 0.3 | 0.48 |
| RD-94 | SMRD-94-GW032811 | Co-60 | Suspended | 0 U | 1.1 | 0.32 | 0.53 |
| RD-94 | SMRD-94-GW032811 | Co-60 | Total | 0.12 | NA | 0.44 | NA |
| RD-94 | SMRD-94-GW032811 | Cs-134 | Filtered | -0.15 U | 1.3 | 0.38 | 0.62 |
| RD-94 | SMRD-94-GW032811 | Cs-134 | Suspended | -0.09 U | 0.79 | 0.23 | 0.38 |
| RD-94 | SMRD-94-GW032811 | Cs-134 | Total | -0.24 | NA | 0.45 | NA |
| RD-94 | SMRD-94-GW032811 | Cs-137 | Filtered | 0.53 | 1.1 | 0.33 | 0.51 |
| RD-94 | SMRD-94-GW032811 | Cs-137 | Suspended | -0.01 U | 0.74 | 0.22 | 0.35 |
| RD-94 | SMRD-94-GW032811 | Cs-137 | Total | 0.51 | NA | 0.39 | NA |
| RD-94 | SMRD-94-GW032811 | Eu-152 | Filtered | 0.04 U | 3.3 | 0.95 | 1.6 |
| RD-94 | SMRD-94-GW032811 | Eu-152 | Suspended | 0.23 U | 1.7 | 0.49 | 0.8 |
| RD-94 | SMRD-94-GW032811 | Eu-152 | Total | 0.3 | NA | 1.1 | NA |
| RD-94 | SMRD-94-GW032811 | Eu-154 | Filtered | 3.3 U | 9.3 | 2.8 | 4.4 |
| RD-94 | SMRD-94-GW032811 | Eu-154 | Suspended | -1.1 U | 6 | 1.8 | 2.8 |
| RD-94 | SMRD-94-GW032811 | Eu-154 | Total | 2.2 | NA | 3.3 | NA |
| RD-94 | SMRD-94-GW032811 | Eu-155 | Filtered | -0.7 U | 3.4 | 1 | 1.6 |
| RD-94 | SMRD-94-GW032811 | Eu-155 | Suspended | 0.07 U | 1.4 | 0.41 | 0.67 |
| RD-94 | SMRD-94-GW032811 | Eu-155 | Total | -0.6 | NA | 1.1 | NA |
| RD-94 | SMRD-94-GW032811 | gross_alpha | Filtered | 28.5 L | 0.9 | 1.7 | 0.5 |
| RD-94 | SMRD-94-GW032811 | gross_alpha | Suspended | 0.86 | 0.52 | 0.21 | 0.28 |
| RD-94 | SMRD-94-GW032811 | gross_alpha | Total | 29.3 | NA | 1.7 | NA |
| RD-94 | SMRD-94-GW032811 | gross_beta | Filtered | 16.5 | 4.6 | 2.1 | 2.6 |
| RD-94 | SMRD-94-GW032811 | gross_beta | Suspended | 1 | 1.2 | 0.39 | 0.7 |
| RD-94 | SMRD-94-GW032811 | gross_beta | Total | 17.5 | NA | 2.1 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|-------|----------------|
| RD-94 | SMRD-94-GW032811 | H-3 | Total | 5000 | 170 | 250 | 80 |
| RD-94 | SMRD-94-GW032811 | Ho-166m | Filtered | -0.74 U | 2.1 | 0.64 | 1 |
| RD-94 | SMRD-94-GW032811 | Ho-166m | Suspended | -0.27 U | 1.2 | 0.37 | 0.59 |
| RD-94 | SMRD-94-GW032811 | Ho-166m | Total | -1 | NA | 0.74 | NA |
| RD-94 | SMRD-94-GW032811 | K-40 | Filtered | 6 U | 17 | 4.3 | 7.9 |
| RD-94 | SMRD-94-GW032811 | K-40 | Suspended | -4.5 U | 12 | 4.4 | 5.9 |
| RD-94 | SMRD-94-GW032811 | K-40 | Total | 1.5 | NA | 6.2 | NA |
| RD-94 | SMRD-94-GW032811 | Na-22 | Filtered | -0.14 U | 1.2 | 0.36 | 0.58 |
| RD-94 | SMRD-94-GW032811 | Na-22 | Suspended | -0.18 U | 0.78 | 0.23 | 0.37 |
| RD-94 | SMRD-94-GW032811 | Na-22 | Total | -0.32 | NA | 0.42 | NA |
| RD-94 | SMRD-94-GW032811 | Nb-94 | Filtered | 0.09 U | 0.91 | 0.26 | 0.43 |
| RD-94 | SMRD-94-GW032811 | Nb-94 | Suspended | 0.16 U | 0.66 | 0.2 | 0.32 |
| RD-94 | SMRD-94-GW032811 | Nb-94 | Total | 0.25 | NA | 0.33 | NA |
| RD-94 | SMRD-94-GW032811 | Np-236 | Filtered | -0.11 U | 2.3 | 0.67 | 1.1 |
| RD-94 | SMRD-94-GW032811 | Np-236 | Suspended | -0.28 U | 1.2 | 0.37 | 0.59 |
| RD-94 | SMRD-94-GW032811 | Np-236 | Total | -0.39 | NA | 0.76 | NA |
| RD-94 | SMRD-94-GW032811 | Np-239 | Filtered | 1.6 U | 7.3 | 2.2 | 3.6 |
| RD-94 | SMRD-94-GW032811 | Np-239 | Suspended | -0.04 U | 3.9 | 1.1 | 1.9 |
| RD-94 | SMRD-94-GW032811 | Np-239 | Total | 1.6 | NA | 2.5 | NA |
| RD-94 | SMRD-94-GW032811 | Pa-231 | Filtered | -9 U | 52 | 15 | 25 |
| RD-94 | SMRD-94-GW032811 | Pa-231 | Suspended | -4.2 U | 25 | 7.4 | 12 |
| RD-94 | SMRD-94-GW032811 | Pa-231 | Total | -13 | NA | 17 | NA |
| RD-94 | SMRD-94-GW032811 | Pb-212 | Filtered | 1.09 U | 2.3 | 0.71 | 1.1 |
| RD-94 | SMRD-94-GW032811 | Pb-212 | Suspended | 0.4 U | 1.2 | 0.43 | 0.56 |
| RD-94 | SMRD-94-GW032811 | Pb-212 | Total | 1.49 | NA | 0.83 | NA |
| RD-94 | SMRD-94-GW032811 | Pb-214 | Filtered | 0.8 U | 2.4 | 0.87 | 1.2 |
| RD-94 | SMRD-94-GW032811 | Pb-214 | Suspended | 0.48 U | 1.5 | 0.41 | 0.7 |
| RD-94 | SMRD-94-GW032811 | Pb-214 | Total | 1.27 | NA | 0.96 | NA |
| RD-94 | SMRD-94-GW032811 | Sb-125 | Filtered | 0.4 U | 11 | 3.3 | 5.4 |
| RD-94 | SMRD-94-GW032811 | Sb-125 | Suspended | 0.3 U | 5.8 | 1.7 | 2.8 |
| RD-94 | SMRD-94-GW032811 | Sb-125 | Total | 0.7 | NA | 3.7 | NA |
| RD-94 | SMRD-94-GW032811 | Sn-126 | Filtered | -0.01 U | 1.2 | 0.36 | 0.59 |
| RD-94 | SMRD-94-GW032811 | Sn-126 | Suspended | 0.43 | 0.75 | 0.23 | 0.36 |
| RD-94 | SMRD-94-GW032811 | Sn-126 | Total | 0.42 | NA | 0.43 | NA |
| RD-94 | SMRD-94-GW032811 | Sr-90 | Filtered | 0.003 U | 0.095 | 0.027 | 0.054 |
| RD-94 | SMRD-94-GW032811 | Sr-90 | Suspended | -0.026 U | 0.12 | 0.035 | 0.07 |
| RD-94 | SMRD-94-GW032811 | Sr-90 | Total | -0.023 | NA | 0.044 | NA |
| RD-94 | SMRD-94-GW032811 | Te-125m | Filtered | 0.09 U | 2.6 | 0.75 | 1.2 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-94 | SMRD-94-GW032811 | Te-125m | Suspended | 0.08 U | 1.4 | 0.4 | 0.66 |
| RD-94 | SMRD-94-GW032811 | Te-125m | Total | 0.17 | NA | 0.85 | NA |
| RD-94 | SMRD-94-GW032811 | Th-231 | Filtered | 0.815 | 0.024 | 0.06 | 0.009 |
| RD-94 | SMRD-94-GW032811 | Th-231 | Suspended | 0.0033 U | 0.019 | 0.0048 | 0.0069 |
| RD-94 | SMRD-94-GW032811 | Th-231 | Total | 0.818 | NA | 0.06 | NA |
| RD-94 | SMRD-94-GW032811 | Th-234 | Filtered | 4.7 U | 24 | 7.7 | 12 |
| RD-94 | SMRD-94-GW032811 | Th-234 | Suspended | 3.6 U | 8.8 | 2.8 | 4.3 |
| RD-94 | SMRD-94-GW032811 | Th-234 | Total | 8.3 | NA | 8.2 | NA |
| RD-94 | SMRD-94-GW032811 | Tl-208 | Filtered | 0.43 U | 1.3 | 0.39 | 0.6 |
| RD-94 | SMRD-94-GW032811 | Tl-208 | Suspended | 0.49 | 0.77 | 0.27 | 0.37 |
| RD-94 | SMRD-94-GW032811 | Tl-208 | Total | 0.92 | NA | 0.48 | NA |
| RD-94 | SMRD-94-GW032811 | Tm-171 | Filtered | 140 U | 340 | 100 | 170 |
| RD-94 | SMRD-94-GW032811 | Tm-171 | Suspended | 41 U | 120 | 35 | 57 |
| RD-94 | SMRD-94-GW032811 | Tm-171 | Total | 180 | NA | 110 | NA |
| RD-94 | SMRD-94-GW032811 | U-233/234 | Filtered | 18.1 | 0.006 | 0.79 | 0.005 |
| RD-94 | SMRD-94-GW032811 | U-233/234 | Suspended | 0.081 | 0.016 | 0.014 | 0.006 |
| RD-94 | SMRD-94-GW032811 | U-233/234 | Total | 18.2 | NA | 0.79 | NA |
| RD-94 | SMRD-94-GW032811 | U-235/236 | Filtered | 0.815 | 0.024 | 0.06 | 0.009 |
| RD-94 | SMRD-94-GW032811 | U-235/236 | Suspended | 0.0033 U | 0.019 | 0.0048 | 0.0069 |
| RD-94 | SMRD-94-GW032811 | U-235/236 | Total | 0.818 | NA | 0.06 | NA |
| RD-94 | SMRD-94-GW032811 | U-238 | Filtered | 17.3 | 0.02 | 0.75 | 0.005 |
| RD-94 | SMRD-94-GW032811 | U-238 | Suspended | 0.101 | 0.005 | 0.015 | 0.004 |
| RD-94 | SMRD-94-GW032811 | U-238 | Total | 17.4 | NA | 0.75 | NA |
| RD-95 | SMRD-95-GW031711 | Ac-227 | Filtered | 0.5 U | 7.4 | 2.2 | 3.6 |
| RD-95 | SMRD-95-GW031711 | Ac-227 | Suspended | -0.9 U | 3.9 | 1.2 | 1.9 |
| RD-95 | SMRD-95-GW031711 | Ac-227 | Total | -0.4 | NA | 2.5 | NA |
| RD-95 | SMRD-95-GW031711 | Ac-228 | Filtered | 2.6 | 3.2 | 1 | 1.5 |
| RD-95 | SMRD-95-GW031711 | Ac-228 | Suspended | 0.14 U | 2.7 | 0.7 | 1.3 |
| RD-95 | SMRD-95-GW031711 | Ac-228 | Total | 2.8 | NA | 1.2 | NA |
| RD-95 | SMRD-95-GW031711 | Ag-108 | Filtered | 0.016 R | 0.086 | 0.025 | 0.041 |
| RD-95 | SMRD-95-GW031711 | Ag-108 | Suspended | 0.005 R | 0.051 | 0.015 | 0.025 |
| RD-95 | SMRD-95-GW031711 | Ag-108 | Total | 0.021 R | NA | 0.029 | NA |
| RD-95 | SMRD-95-GW031711 | Ag-108m | Filtered | 0.17 R | 0.92 | 0.27 | 0.44 |
| RD-95 | SMRD-95-GW031711 | Ag-108m | Suspended | 0.05 R | 0.55 | 0.16 | 0.27 |
| RD-95 | SMRD-95-GW031711 | Ag-108m | Total | 0.22 R | NA | 0.32 | NA |
| RD-95 | SMRD-95-GW031711 | Ba-133 | Filtered | 5.5 R | 11 | 3.3 | 5.3 |
| RD-95 | SMRD-95-GW031711 | Ba-133 | Suspended | -0.8 R | 6 | 1.8 | 2.9 |
| RD-95 | SMRD-95-GW031711 | Ba-133 | Total | 4.7 R | NA | 3.8 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-95 | SMRD-95-GW031711 | Ba-137m | Filtered | 0.3 U | 1 | 0.31 | 0.49 |
| RD-95 | SMRD-95-GW031711 | Ba-137m | Suspended | -0.18 U | 0.63 | 0.19 | 0.3 |
| RD-95 | SMRD-95-GW031711 | Ba-137m | Total | 0.12 | NA | 0.36 | NA |
| RD-95 | SMRD-95-GW031711 | Bi-212 | Filtered | -4 U | 10 | 10 | 5 |
| RD-95 | SMRD-95-GW031711 | Bi-212 | Suspended | 1.9 U | 4.9 | 1.5 | 2.3 |
| RD-95 | SMRD-95-GW031711 | Bi-212 | Total | -3 | NA | 10 | NA |
| RD-95 | SMRD-95-GW031711 | Bi-214 | Filtered | 1.16 U | 2.7 | 0.86 | 1.3 |
| RD-95 | SMRD-95-GW031711 | Bi-214 | Suspended | -0.59 U | 1.7 | 0.9 | 0.83 |
| RD-95 | SMRD-95-GW031711 | Bi-214 | Total | 0.6 | NA | 1.2 | NA |
| RD-95 | SMRD-95-GW031711 | Cd-113m | Filtered | 1000 U | 12000 | 3600 | 5900 |
| RD-95 | SMRD-95-GW031711 | Cd-113m | Suspended | 600 U | 6800 | 2000 | 3300 |
| RD-95 | SMRD-95-GW031711 | Cd-113m | Total | 1500 | NA | 4100 | NA |
| RD-95 | SMRD-95-GW031711 | Cf-249 | Filtered | -0.05 R | 5.5 | 1.6 | 2.7 |
| RD-95 | SMRD-95-GW031711 | Cf-249 | Suspended | 0.91 R | 3.1 | 0.92 | 1.5 |
| RD-95 | SMRD-95-GW031711 | Cf-249 | Total | 0.9 R | NA | 1.9 | NA |
| RD-95 | SMRD-95-GW031711 | Co-60 | Filtered | -0.005 U | 1.2 | 0.33 | 0.54 |
| RD-95 | SMRD-95-GW031711 | Co-60 | Suspended | -0.2 U | 0.69 | 0.2 | 0.32 |
| RD-95 | SMRD-95-GW031711 | Co-60 | Total | -0.21 | NA | 0.39 | NA |
| RD-95 | SMRD-95-GW031711 | Cs-134 | Filtered | 0.04 U | 1.2 | 0.34 | 0.56 |
| RD-95 | SMRD-95-GW031711 | Cs-134 | Suspended | 0.04 U | 0.74 | 0.22 | 0.36 |
| RD-95 | SMRD-95-GW031711 | Cs-134 | Total | 0.07 | NA | 0.41 | NA |
| RD-95 | SMRD-95-GW031711 | Cs-137 | Filtered | 0.31 U | 1.1 | 0.33 | 0.52 |
| RD-95 | SMRD-95-GW031711 | Cs-137 | Suspended | -0.19 U | 0.67 | 0.2 | 0.32 |
| RD-95 | SMRD-95-GW031711 | Cs-137 | Total | 0.13 | NA | 0.38 | NA |
| RD-95 | SMRD-95-GW031711 | Eu-152 | Filtered | -0.07 U | 3.6 | 1.1 | 1.7 |
| RD-95 | SMRD-95-GW031711 | Eu-152 | Suspended | -0.03 U | 1.9 | 0.56 | 0.92 |
| RD-95 | SMRD-95-GW031711 | Eu-152 | Total | -0.1 | NA | 1.2 | NA |
| RD-95 | SMRD-95-GW031711 | Eu-154 | Filtered | 2.8 U | 8.6 | 2.6 | 4 |
| RD-95 | SMRD-95-GW031711 | Eu-154 | Suspended | 0 U | 5.8 | 1.7 | 2.8 |
| RD-95 | SMRD-95-GW031711 | Eu-154 | Total | 2.8 | NA | 3.1 | NA |
| RD-95 | SMRD-95-GW031711 | Eu-155 | Filtered | -0.16 U | 2.9 | 0.87 | 1.4 |
| RD-95 | SMRD-95-GW031711 | Eu-155 | Suspended | 0.3 U | 1.2 | 0.36 | 0.58 |
| RD-95 | SMRD-95-GW031711 | Eu-155 | Total | 0.15 | NA | 0.94 | NA |
| RD-95 | SMRD-95-GW031711 | gross_alpha | Filtered | 18.1 | 0.4 | 1.1 | 0.2 |
| RD-95 | SMRD-95-GW031711 | gross_alpha | Suspended | 0.13 U | 0.67 | 0.18 | 0.36 |
| RD-95 | SMRD-95-GW031711 | gross_alpha | Total | 18.2 | NA | 1.1 | NA |
| RD-95 | SMRD-95-GW031711 | gross_beta | Filtered | 5.8 | 4.1 | 1.5 | 2.3 |
| RD-95 | SMRD-95-GW031711 | gross_beta | Suspended | 26.8 | 1.1 | 1.3 | 0.6 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-95 | SMRD-95-GW031711 | gross_beta | Total | 32.6 | NA | 2 | NA |
| RD-95 | SMRD-95-GW031711 | H-3 | Total | 49900 | 200 | 2200 | 90 |
| RD-95 | SMRD-95-GW031711 | Ho-166m | Filtered | -0.1 U | 1.7 | 0.48 | 0.79 |
| RD-95 | SMRD-95-GW031711 | Ho-166m | Suspended | -0.2 U | 1.1 | 0.34 | 0.55 |
| RD-95 | SMRD-95-GW031711 | Ho-166m | Total | -0.3 | NA | 0.59 | NA |
| RD-95 | SMRD-95-GW031711 | K-40 | Filtered | -3.7 U | 20 | 5.6 | 9.4 |
| RD-95 | SMRD-95-GW031711 | K-40 | Suspended | 1.1 U | 12 | 3.1 | 5.6 |
| RD-95 | SMRD-95-GW031711 | K-40 | Total | -2.6 | NA | 6.4 | NA |
| RD-95 | SMRD-95-GW031711 | Na-22 | Filtered | 0.13 U | 1 | 0.29 | 0.46 |
| RD-95 | SMRD-95-GW031711 | Na-22 | Suspended | 0.08 U | 0.7 | 0.2 | 0.33 |
| RD-95 | SMRD-95-GW031711 | Na-22 | Total | 0.22 | NA | 0.35 | NA |
| RD-95 | SMRD-95-GW031711 | Nb-94 | Filtered | 0.22 U | 1.1 | 0.31 | 0.5 |
| RD-95 | SMRD-95-GW031711 | Nb-94 | Suspended | -0.05 U | 0.68 | 0.2 | 0.33 |
| RD-95 | SMRD-95-GW031711 | Nb-94 | Total | 0.17 | NA | 0.37 | NA |
| RD-95 | SMRD-95-GW031711 | Np-236 | Filtered | -0.79 U | 2.6 | 0.8 | 1.3 |
| RD-95 | SMRD-95-GW031711 | Np-236 | Suspended | 0 U | 1.2 | 0.35 | 0.57 |
| RD-95 | SMRD-95-GW031711 | Np-236 | Total | -0.79 | NA | 0.87 | NA |
| RD-95 | SMRD-95-GW031711 | Np-239 | Filtered | 0.05 U | 7.4 | 2.2 | 3.6 |
| RD-95 | SMRD-95-GW031711 | Np-239 | Suspended | -0.1 U | 3.8 | 1.1 | 1.8 |
| RD-95 | SMRD-95-GW031711 | Np-239 | Total | -0.05 | NA | 2.4 | NA |
| RD-95 | SMRD-95-GW031711 | Pa-231 | Filtered | 7 U | 53 | 16 | 26 |
| RD-95 | SMRD-95-GW031711 | Pa-231 | Suspended | -0.7 U | 27 | 7.8 | 13 |
| RD-95 | SMRD-95-GW031711 | Pa-231 | Total | 6 | NA | 17 | NA |
| RD-95 | SMRD-95-GW031711 | Pb-212 | Filtered | 1.08 U | 2.2 | 0.67 | 1.1 |
| RD-95 | SMRD-95-GW031711 | Pb-212 | Suspended | 0.27 U | 1 | 0.3 | 0.49 |
| RD-95 | SMRD-95-GW031711 | Pb-212 | Total | 1.35 | NA | 0.74 | NA |
| RD-95 | SMRD-95-GW031711 | Pb-214 | Filtered | -0.6 U | 2.3 | 1 | 1.1 |
| RD-95 | SMRD-95-GW031711 | Pb-214 | Suspended | 0.41 U | 1.3 | 0.42 | 0.65 |
| RD-95 | SMRD-95-GW031711 | Pb-214 | Total | -0.2 | NA | 1.1 | NA |
| RD-95 | SMRD-95-GW031711 | Sb-125 | Filtered | 2.8 U | 9.6 | 2.9 | 4.6 |
| RD-95 | SMRD-95-GW031711 | Sb-125 | Suspended | 0.3 U | 5.7 | 1.7 | 2.8 |
| RD-95 | SMRD-95-GW031711 | Sb-125 | Total | 3.1 | NA | 3.3 | NA |
| RD-95 | SMRD-95-GW031711 | Sn-126 | Filtered | 0.04 U | 1.1 | 0.32 | 0.52 |
| RD-95 | SMRD-95-GW031711 | Sn-126 | Suspended | 0.36 | 0.61 | 0.19 | 0.29 |
| RD-95 | SMRD-95-GW031711 | Sn-126 | Total | 0.4 | NA | 0.37 | NA |
| RD-95 | SMRD-95-GW031711 | Sr-90 | Filtered | 0.017 U | 0.11 | 0.033 | 0.063 |
| RD-95 | SMRD-95-GW031711 | Sr-90 | Suspended | 0.019 U | 0.15 | 0.043 | 0.088 |
| RD-95 | SMRD-95-GW031711 | Sr-90 | Total | 0.035 | NA | 0.054 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-95 | SMRD-95-GW031711 | Te-125m | Filtered | 0.64 U | 2.2 | 0.66 | 1.1 |
| RD-95 | SMRD-95-GW031711 | Te-125m | Suspended | 0.08 U | 1.3 | 0.39 | 0.64 |
| RD-95 | SMRD-95-GW031711 | Te-125m | Total | 0.72 | NA | 0.77 | NA |
| RD-95 | SMRD-95-GW031711 | Th-231 | Filtered | 0.502 | 0.018 | 0.043 | 0.006 |
| RD-95 | SMRD-95-GW031711 | Th-231 | Suspended | 0.0049 U | 0.0067 | 0.0035 | 0.0057 |
| RD-95 | SMRD-95-GW031711 | Th-231 | Total | 0.508 | NA | 0.043 | NA |
| RD-95 | SMRD-95-GW031711 | Th-234 | Filtered | 19.8 | 23 | 8.7 | 11 |
| RD-95 | SMRD-95-GW031711 | Th-234 | Suspended | 4 U | 8.3 | 2.6 | 4.1 |
| RD-95 | SMRD-95-GW031711 | Th-234 | Total | 23.8 | NA | 9.1 | NA |
| RD-95 | SMRD-95-GW031711 | Tl-208 | Filtered | 0.42 U | 1.2 | 0.34 | 0.56 |
| RD-95 | SMRD-95-GW031711 | Tl-208 | Suspended | 0.41 | 0.69 | 0.24 | 0.33 |
| RD-95 | SMRD-95-GW031711 | Tl-208 | Total | 0.83 | NA | 0.42 | NA |
| RD-95 | SMRD-95-GW031711 | Tm-171 | Filtered | 6 U | 320 | 96 | 160 |
| RD-95 | SMRD-95-GW031711 | Tm-171 | Suspended | 17 U | 110 | 32 | 53 |
| RD-95 | SMRD-95-GW031711 | Tm-171 | Total | 20 | NA | 100 | NA |
| RD-95 | SMRD-95-GW031711 | U-233/234 | Filtered | 10.5 | 0.02 | 0.47 | 0.007 |
| RD-95 | SMRD-95-GW031711 | U-233/234 | Suspended | 0.0054 | 0.015 | 0.0063 | 0.0046 |
| RD-95 | SMRD-95-GW031711 | U-233/234 | Total | 10.5 | NA | 0.47 | NA |
| RD-95 | SMRD-95-GW031711 | U-235/236 | Filtered | 0.502 | 0.018 | 0.043 | 0.006 |
| RD-95 | SMRD-95-GW031711 | U-235/236 | Suspended | 0.0049 U | 0.0067 | 0.0035 | 0.0057 |
| RD-95 | SMRD-95-GW031711 | U-235/236 | Total | 0.507 | NA | 0.043 | NA |
| RD-95 | SMRD-95-GW031711 | U-238 | Filtered | 9.48 | 0.02 | 0.42 | 0.006 |
| RD-95 | SMRD-95-GW031711 | U-238 | Suspended | 0.0081 | 0.018 | 0.0069 | 0.0065 |
| RD-95 | SMRD-95-GW031711 | U-238 | Total | 9.49 | NA | 0.42 | NA |
| RD-96 | SMRD-96-GW032511 | Ac-227 | Filtered | -4.7 U | 9.4 | 2.9 | 4.6 |
| RD-96 | SMRD-96-GW032511 | Ac-227 | Suspended | -2.9 L U | 4.7 | 1.4 | 2.3 |
| RD-96 | SMRD-96-GW032511 | Ac-227 | Total | -7.5 L | NA | 3.2 | NA |
| RD-96 | SMRD-96-GW032511 | Ac-228 | Filtered | 2.6 | 4.3 | 1.3 | 2 |
| RD-96 | SMRD-96-GW032511 | Ac-228 | Suspended | -0.4 U | 2.9 | 1.1 | 1.4 |
| RD-96 | SMRD-96-GW032511 | Ac-228 | Total | 2.2 | NA | 1.7 | NA |
| RD-96 | SMRD-96-GW032511 | Ag-108 | Filtered | 0.057 R | 0.1 | 0.031 | 0.048 |
| RD-96 | SMRD-96-GW032511 | Ag-108 | Suspended | 0.007 U R | 0.052 | 0.015 | 0.025 |
| RD-96 | SMRD-96-GW032511 | Ag-108 | Total | 0.064 R | NA | 0.035 | NA |
| RD-96 | SMRD-96-GW032511 | Ag-108m | Filtered | 0.61 R | 1.1 | 0.34 | 0.52 |
| RD-96 | SMRD-96-GW032511 | Ag-108m | Suspended | 0.07 U R | 0.56 | 0.17 | 0.27 |
| RD-96 | SMRD-96-GW032511 | Ag-108m | Total | 0.68 R | NA | 0.37 | NA |
| RD-96 | SMRD-96-GW032511 | Ba-133 | Filtered | 2.3 U R | 14 | 4 | 6.5 |
| RD-96 | SMRD-96-GW032511 | Ba-133 | Suspended | -0.02 U R | 5.9 | 1.7 | 2.9 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RD-96 | SMRD-96-GW032511 | Ba-133 | Total | 2.3 R | NA | 4.4 | NA |
| RD-96 | SMRD-96-GW032511 | Ba-137m | Filtered | 0.25 U | 1.4 | 0.41 | 0.66 |
| RD-96 | SMRD-96-GW032511 | Ba-137m | Suspended | 0 U | 0.69 | 0.2 | 0.33 |
| RD-96 | SMRD-96-GW032511 | Ba-137m | Total | 0.25 | NA | 0.46 | NA |
| RD-96 | SMRD-96-GW032511 | Bi-212 | Filtered | 1.7 U | 12 | 3.5 | 5.7 |
| RD-96 | SMRD-96-GW032511 | Bi-212 | Suspended | 1 U | 5.4 | 1.6 | 2.5 |
| RD-96 | SMRD-96-GW032511 | Bi-212 | Total | 2.7 | NA | 3.8 | NA |
| RD-96 | SMRD-96-GW032511 | Bi-214 | Filtered | 3 | 2.9 | 1.1 | 1.4 |
| RD-96 | SMRD-96-GW032511 | Bi-214 | Suspended | 0.09 U | 1.8 | 0.66 | 0.85 |
| RD-96 | SMRD-96-GW032511 | Bi-214 | Total | 3.1 | NA | 1.3 | NA |
| RD-96 | SMRD-96-GW032511 | Cd-113m | Filtered | -3000 U | 16000 | 4800 | 7800 |
| RD-96 | SMRD-96-GW032511 | Cd-113m | Suspended | 300 U | 6800 | 2000 | 3300 |
| RD-96 | SMRD-96-GW032511 | Cd-113m | Total | -2700 | NA | 5200 | NA |
| RD-96 | SMRD-96-GW032511 | Cf-249 | Filtered | -1.6 U R | 7.3 | 2.2 | 3.5 |
| RD-96 | SMRD-96-GW032511 | Cf-249 | Suspended | 0.76 U R | 3.1 | 0.92 | 1.5 |
| RD-96 | SMRD-96-GW032511 | Cf-249 | Total | -0.8 R | NA | 2.3 | NA |
| RD-96 | SMRD-96-GW032511 | Co-60 | Filtered | -0.22 U | 1.8 | 0.51 | 0.82 |
| RD-96 | SMRD-96-GW032511 | Co-60 | Suspended | 0.11 U | 0.78 | 0.22 | 0.36 |
| RD-96 | SMRD-96-GW032511 | Co-60 | Total | -0.11 | NA | 0.56 | NA |
| RD-96 | SMRD-96-GW032511 | Cs-134 | Filtered | 0.15 U | 1.2 | 0.33 | 0.54 |
| RD-96 | SMRD-96-GW032511 | Cs-134 | Suspended | 0.49 | 0.8 | 0.13 | 0.39 |
| RD-96 | SMRD-96-GW032511 | Cs-134 | Total | 0.64 SK | NA | 0.36 | NA |
| RD-96 | SMRD-96-GW032511 | Cs-137 | Filtered | 0.26 U | 1.5 | 0.43 | 0.69 |
| RD-96 | SMRD-96-GW032511 | Cs-137 | Suspended | 0 U | 0.73 | 0.21 | 0.35 |
| RD-96 | SMRD-96-GW032511 | Cs-137 | Total | 0.26 | NA | 0.48 | NA |
| RD-96 | SMRD-96-GW032511 | Eu-152 | Filtered | -1.2 U | 4.2 | 1.3 | 2 |
| RD-96 | SMRD-96-GW032511 | Eu-152 | Suspended | 0.37 U | 1.8 | 0.55 | 0.89 |
| RD-96 | SMRD-96-GW032511 | Eu-152 | Total | -0.8 | NA | 1.4 | NA |
| RD-96 | SMRD-96-GW032511 | Eu-154 | Filtered | 4.4 U | 12 | 3.5 | 5.3 |
| RD-96 | SMRD-96-GW032511 | Eu-154 | Suspended | -1.2 U J | 5.4 | 1.6 | 2.5 |
| RD-96 | SMRD-96-GW032511 | Eu-154 | Total | 3.1 | NA | 3.8 | NA |
| RD-96 | SMRD-96-GW032511 | Eu-155 | Filtered | 0.67 U | 3.2 | 0.95 | 1.5 |
| RD-96 | SMRD-96-GW032511 | Eu-155 | Suspended | 0.26 U | 1.2 | 0.37 | 0.6 |
| RD-96 | SMRD-96-GW032511 | Eu-155 | Total | 0.9 SK | NA | 1 | NA |
| RD-96 | SMRD-96-GW032511 | gross_alpha | Filtered | 7.41 | 0.5 | 0.59 | 0.27 |
| RD-96 | SMRD-96-GW032511 | gross_alpha | Suspended | 6.02 | 1.2 | 0.84 | 0.58 |
| RD-96 | SMRD-96-GW032511 | gross_alpha | Total | 12.5 | NA | 1 | NA |
| RD-96 | SMRD-96-GW032511 | gross_beta | Filtered | 7.18 | 1.7 | 0.8 | 1 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|-------|----------------|
| RD-96 | SMRD-96-GW032511 | gross_beta | Suspended | 7.57 | 1.3 | 0.68 | 0.73 |
| RD-96 | SMRD-96-GW032511 | gross_beta | Total | 14.7 | NA | 1.1 | NA |
| RD-96 | SMRD-96-GW032511 | H-3 | Total | 25 U | 120 | 36 | 59 |
| RD-96 | SMRD-96-GW032511 | Ho-166m | Filtered | -0.92 U | 2.9 | 0.88 | 1.4 |
| RD-96 | SMRD-96-GW032511 | Ho-166m | Suspended | 0.04 U | 1.1 | 0.33 | 0.54 |
| RD-96 | SMRD-96-GW032511 | Ho-166m | Total | -0.87 SK | NA | 0.94 | NA |
| RD-96 | SMRD-96-GW032511 | K-40 | Filtered | 9.4 | 18 | 4.8 | 8.1 |
| RD-96 | SMRD-96-GW032511 | K-40 | Suspended | 7.1 | 9.8 | 3.4 | 4.6 |
| RD-96 | SMRD-96-GW032511 | K-40 | Total | 16.5 | NA | 5.9 | NA |
| RD-96 | SMRD-96-GW032511 | Na-22 | Filtered | -0.35 U | 1.8 | 0.51 | 0.81 |
| RD-96 | SMRD-96-GW032511 | Na-22 | Suspended | 0 U | 1 | 0.29 | 0.48 |
| RD-96 | SMRD-96-GW032511 | Na-22 | Total | -0.35 | NA | 0.59 | NA |
| RD-96 | SMRD-96-GW032511 | Nb-94 | Filtered | 0.42 U | 1.1 | 0.34 | 0.52 |
| RD-96 | SMRD-96-GW032511 | Nb-94 | Suspended | 0.22 U | 0.66 | 0.2 | 0.31 |
| RD-96 | SMRD-96-GW032511 | Nb-94 | Total | 0.64 | NA | 0.39 | NA |
| RD-96 | SMRD-96-GW032511 | Np-236 | Filtered | -0.3 U | 2.9 | 0.87 | 1.4 |
| RD-96 | SMRD-96-GW032511 | Np-236 | Suspended | -0.08 U | 1.2 | 0.36 | 0.59 |
| RD-96 | SMRD-96-GW032511 | Np-236 | Total | -0.37 SK | NA | 0.94 | NA |
| RD-96 | SMRD-96-GW032511 | Np-239 | Filtered | 1.1 U | 8 | 2.3 | 3.8 |
| RD-96 | SMRD-96-GW032511 | Np-239 | Suspended | -0.06 U | 3.9 | 1.2 | 1.9 |
| RD-96 | SMRD-96-GW032511 | Np-239 | Total | 1 | NA | 2.6 | NA |
| RD-96 | SMRD-96-GW032511 | Pa-231 | Filtered | 17 U | 55 | 16 | 26 |
| RD-96 | SMRD-96-GW032511 | Pa-231 | Suspended | -0.4 U | 21 | 6.1 | 10 |
| RD-96 | SMRD-96-GW032511 | Pa-231 | Total | 17 | NA | 17 | NA |
| RD-96 | SMRD-96-GW032511 | Pb-212 | Filtered | 0.31 U | 2.4 | 0.76 | 1.1 |
| RD-96 | SMRD-96-GW032511 | Pb-212 | Suspended | 0.83 | 1.1 | 0.36 | 0.52 |
| RD-96 | SMRD-96-GW032511 | Pb-212 | Total | 1.14 | NA | 0.84 | NA |
| RD-96 | SMRD-96-GW032511 | Pb-214 | Filtered | 1.11 U | 2.9 | 0.88 | 1.4 |
| RD-96 | SMRD-96-GW032511 | Pb-214 | Suspended | -0.37 U | 1.6 | 0.57 | 0.77 |
| RD-96 | SMRD-96-GW032511 | Pb-214 | Total | 0.7 | NA | 1 | NA |
| RD-96 | SMRD-96-GW032511 | Sb-125 | Filtered | 2.5 U | 12 | 3.6 | 5.8 |
| RD-96 | SMRD-96-GW032511 | Sb-125 | Suspended | 0.1 U | 5.8 | 1.7 | 2.8 |
| RD-96 | SMRD-96-GW032511 | Sb-125 | Total | 2.6 SK | NA | 4 | NA |
| RD-96 | SMRD-96-GW032511 | Sn-126 | Filtered | 0.23 U | 1.7 | 0.48 | 0.78 |
| RD-96 | SMRD-96-GW032511 | Sn-126 | Suspended | 0.36 U | 0.79 | 0.24 | 0.38 |
| RD-96 | SMRD-96-GW032511 | Sn-126 | Total | 0.59 | NA | 0.54 | NA |
| RD-96 | SMRD-96-GW032511 | Sr-90 | Filtered | -0.028 U | 0.17 | 0.048 | 0.096 |
| RD-96 | SMRD-96-GW032511 | Sr-90 | Suspended | -0.009 U | 0.12 | 0.034 | 0.067 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-96 | SMRD-96-GW032511 | Sr-90 | Total | -0.037 | NA | 0.059 | NA |
| RD-96 | SMRD-96-GW032511 | Te-125m | Filtered | 0.57 U | 2.8 | 0.83 | 1.3 |
| RD-96 | SMRD-96-GW032511 | Te-125m | Suspended | 0.03 U | 1.3 | 0.4 | 0.65 |
| RD-96 | SMRD-96-GW032511 | Te-125m | Total | 0.6 SK | NA | 0.92 | NA |
| RD-96 | SMRD-96-GW032511 | Th-231 | Filtered | 0.242 | 0.018 | 0.028 | 0.006 |
| RD-96 | SMRD-96-GW032511 | Th-231 | Suspended | 0.0109 | 0.0059 | 0.0049 | 0.0045 |
| RD-96 | SMRD-96-GW032511 | Th-231 | Total | 0.253 | NA | 0.028 | NA |
| RD-96 | SMRD-96-GW032511 | Th-234 | Filtered | 5.9 U | 21 | 6.4 | 10 |
| RD-96 | SMRD-96-GW032511 | Th-234 | Suspended | -0.9 U | 7 | 2.2 | 3.4 |
| RD-96 | SMRD-96-GW032511 | Th-234 | Total | 5 | NA | 6.8 | NA |
| RD-96 | SMRD-96-GW032511 | Tl-208 | Filtered | -0.34 U | 1.7 | 0.67 | 0.8 |
| RD-96 | SMRD-96-GW032511 | Tl-208 | Suspended | 0.73 | 0.78 | 0.34 | 0.38 |
| RD-96 | SMRD-96-GW032511 | Tl-208 | Total | 0.39 | NA | 0.75 | NA |
| RD-96 | SMRD-96-GW032511 | Tm-171 | Filtered | 100 U | 250 | 77 | 120 |
| RD-96 | SMRD-96-GW032511 | Tm-171 | Suspended | 4 U | 110 | 33 | 55 |
| RD-96 | SMRD-96-GW032511 | Tm-171 | Total | 104 | NA | 84 | NA |
| RD-96 | SMRD-96-GW032511 | U-233/234 | Filtered | 4.1 | 0.01 | 0.2 | 0.005 |
| RD-96 | SMRD-96-GW032511 | U-233/234 | Suspended | 0.107 | 0.017 | 0.015 | 0.006 |
| RD-96 | SMRD-96-GW032511 | U-233/234 | Total | 4.21 | NA | 0.2 | NA |
| RD-96 | SMRD-96-GW032511 | U-235/236 | Filtered | 0.242 | 0.018 | 0.028 | 0.006 |
| RD-96 | SMRD-96-GW032511 | U-235/236 | Suspended | 0.0109 | 0.0059 | 0.0049 | 0.0045 |
| RD-96 | SMRD-96-GW032511 | U-235/236 | Total | 0.253 | NA | 0.028 | NA |
| RD-96 | SMRD-96-GW032511 | U-238 | Filtered | 3.8 | 0.02 | 0.18 | 0.006 |
| RD-96 | SMRD-96-GW032511 | U-238 | Suspended | 0.062 | 0.014 | 0.012 | 0.005 |
| RD-96 | SMRD-96-GW032511 | U-238 | Total | 3.86 | NA | 0.18 | NA |
| RD-97 | SMRD-97-GW033011 | Ac-227 | Filtered | -7.6 L U | 11 | 3.5 | 5.5 |
| RD-97 | SMRD-97-GW033011 | Ac-227 | Suspended | -4 L U | 5 | 1.6 | 2.5 |
| RD-97 | SMRD-97-GW033011 | Ac-227 | Total | -11.7 R | NA | 3.8 | NA |
| RD-97 | SMRD-97-GW033011 | Ac-228 | Filtered | 6.5 | 5.1 | 1.7 | 2.4 |
| RD-97 | SMRD-97-GW033011 | Ac-228 | Suspended | 3.5 | 2.4 | 0.96 | 1.1 |
| RD-97 | SMRD-97-GW033011 | Ac-228 | Total | 10 | NA | 2 | NA |
| RD-97 | SMRD-97-GW033011 | Ag-108 | Filtered | 0.033 U R | 0.12 | 0.034 | 0.055 |
| RD-97 | SMRD-97-GW033011 | Ag-108 | Suspended | -0.009 U R | 0.051 | 0.015 | 0.024 |
| RD-97 | SMRD-97-GW033011 | Ag-108 | Total | 0.024 R | NA | 0.037 | NA |
| RD-97 | SMRD-97-GW033011 | Ag-108m | Filtered | 0.35 U R | 1.2 | 0.37 | 0.59 |
| RD-97 | SMRD-97-GW033011 | Ag-108m | Suspended | -0.1 U R | 0.55 | 0.16 | 0.26 |
| RD-97 | SMRD-97-GW033011 | Ag-108m | Total | 0.25 R | NA | 0.4 | NA |
| RD-97 | SMRD-97-GW033011 | Am-241 | Filtered | 0.0119 | 0.018 | 0.0063 | 0.0065 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-97 | SMRD-97-GW033011 | Am-241 | Suspended | 0.0011 U | 0.017 | 0.0041 | 0.0064 |
| RD-97 | SMRD-97-GW033011 | Am-241 | Total | 0.0129 | NA | 0.0075 | NA |
| RD-97 | SMRD-97-GW033011 | Ba-133 | Filtered | 0.5 U R | 15 | 4.5 | 7.5 |
| RD-97 | SMRD-97-GW033011 | Ba-133 | Suspended | 1.5 U R | 6 | 1.8 | 2.9 |
| RD-97 | SMRD-97-GW033011 | Ba-133 | Total | 2.1 R | NA | 4.9 | NA |
| RD-97 | SMRD-97-GW033011 | Ba-137m | Filtered | -0.37 U | 1.5 | 0.45 | 0.72 |
| RD-97 | SMRD-97-GW033011 | Ba-137m | Suspended | -0.007 U | 0.67 | 0.19 | 0.32 |
| RD-97 | SMRD-97-GW033011 | Ba-137m | Total | -0.37 | NA | 0.49 | NA |
| RD-97 | SMRD-97-GW033011 | Bi-212 | Filtered | 4.8 | 10 | 3.1 | 4.8 |
| RD-97 | SMRD-97-GW033011 | Bi-212 | Suspended | 1.9 U | 6 | 1.8 | 2.9 |
| RD-97 | SMRD-97-GW033011 | Bi-212 | Total | 6.7 | NA | 3.6 | NA |
| RD-97 | SMRD-97-GW033011 | Bi-214 | Filtered | 1.1 U | 3.9 | 1.6 | 1.8 |
| RD-97 | SMRD-97-GW033011 | Bi-214 | Suspended | 1.12 | 1.9 | 0.81 | 0.9 |
| RD-97 | SMRD-97-GW033011 | Bi-214 | Total | 2.2 | NA | 1.8 | NA |
| RD-97 | SMRD-97-GW033011 | C-14 | Total | 1.18 R | 2.1 | 0.66 | 1 |
| RD-97 | SMRD-97-GW033011 | Cd-113m | Filtered | -5500 U | 18000 | 5400 | 8700 |
| RD-97 | SMRD-97-GW033011 | Cd-113m | Suspended | -600 U | 7300 | 2200 | 3500 |
| RD-97 | SMRD-97-GW033011 | Cd-113m | Total | -6200 | NA | 5800 | NA |
| RD-97 | SMRD-97-GW033011 | Cf-249 | Filtered | -0.7 U R | 7.8 | 2.3 | 3.8 |
| RD-97 | SMRD-97-GW033011 | Cf-249 | Suspended | -0.82 U R | 3.3 | 0.99 | 1.6 |
| RD-97 | SMRD-97-GW033011 | Cf-249 | Total | -1.5 R | NA | 2.5 | NA |
| RD-97 | SMRD-97-GW033011 | Cm-243/244 | Filtered | 0.0039 U | 0.018 | 0.0047 | 0.0064 |
| RD-97 | SMRD-97-GW033011 | Cm-243/244 | Suspended | 0.0003 U | 0.012 | 0.0023 | 0.0036 |
| RD-97 | SMRD-97-GW033011 | Cm-243/244 | Total | 0.0042 | NA | 0.0053 | NA |
| RD-97 | SMRD-97-GW033011 | Cm-245/246 | Filtered | 0.0099 J | 0.019 | 0.0062 | 0.0066 |
| RD-97 | SMRD-97-GW033011 | Cm-245/246 | Suspended | 0.0207 | 0.017 | 0.0074 | 0.0059 |
| RD-97 | SMRD-97-GW033011 | Cm-245/246 | Total | 0.0306 J | NA | 0.0097 | NA |
| RD-97 | SMRD-97-GW033011 | Co-60 | Filtered | 0.01 U | 1.7 | 0.47 | 0.78 |
| RD-97 | SMRD-97-GW033011 | Co-60 | Suspended | 0.32 | 0.68 | 0.21 | 0.31 |
| RD-97 | SMRD-97-GW033011 | Co-60 | Total | 0.33 | NA | 0.52 | NA |
| RD-97 | SMRD-97-GW033011 | Cs-134 | Filtered | 0.02 U | 0.95 | 0.27 | 0.44 |
| RD-97 | SMRD-97-GW033011 | Cs-134 | Suspended | -0.22 U | 0.86 | 0.26 | 0.41 |
| RD-97 | SMRD-97-GW033011 | Cs-134 | Total | -0.2 | NA | 0.37 | NA |
| RD-97 | SMRD-97-GW033011 | Cs-137 | Filtered | -0.39 U | 1.6 | 0.48 | 0.76 |
| RD-97 | SMRD-97-GW033011 | Cs-137 | Suspended | -0.007 U | 0.71 | 0.21 | 0.34 |
| RD-97 | SMRD-97-GW033011 | Cs-137 | Total | -0.4 | NA | 0.52 | NA |
| RD-97 | SMRD-97-GW033011 | Eu-152 | Filtered | 0.1 U | 3.7 | 1.1 | 1.8 |
| RD-97 | SMRD-97-GW033011 | Eu-152 | Suspended | 0.22 U | 1.4 | 0.42 | 0.69 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RD-97 | SMRD-97-GW033011 | Eu-152 | Total | 0.3 | NA | 1.2 | NA |
| RD-97 | SMRD-97-GW033011 | Eu-154 | Filtered | -0.9 U | 13 | 3.6 | 5.9 |
| RD-97 | SMRD-97-GW033011 | Eu-154 | Suspended | 0.8 U | 6.4 | 1.9 | 3 |
| RD-97 | SMRD-97-GW033011 | Eu-154 | Total | -0.08 | NA | 4.1 | NA |
| RD-97 | SMRD-97-GW033011 | Eu-155 | Filtered | 0 U | 4.2 | 1.3 | 2.1 |
| RD-97 | SMRD-97-GW033011 | Eu-155 | Suspended | 0.26 U | 1.2 | 0.36 | 0.59 |
| RD-97 | SMRD-97-GW033011 | Eu-155 | Total | 0.3 | NA | 1.3 | NA |
| RD-97 | SMRD-97-GW033011 | gross_alpha | Filtered | 6.24 J | 0.59 | 0.57 | 0.31 |
| RD-97 | SMRD-97-GW033011 | gross_alpha | Suspended | 2.97 | 0.56 | 0.37 | 0.3 |
| RD-97 | SMRD-97-GW033011 | gross_alpha | Total | 9.2 J | NA | 0.68 | NA |
| RD-97 | SMRD-97-GW033011 | gross_beta | Filtered | 4.09 R | 1.1 | 0.51 | 0.64 |
| RD-97 | SMRD-97-GW033011 | gross_beta | Suspended | 1.58 | 0.7 | 0.28 | 0.41 |
| RD-97 | SMRD-97-GW033011 | gross_beta | Total | 5.67 R | NA | 0.58 | NA |
| RD-97 | SMRD-97-GW033011 | H-3 | Total | 10 U | 140 | 40 | 66 |
| RD-97 | SMRD-97-GW033011 | Ho-166m | Filtered | -0.3 U | 2.5 | 0.71 | 1.2 |
| RD-97 | SMRD-97-GW033011 | Ho-166m | Suspended | 0.16 U | 1.2 | 0.34 | 0.56 |
| RD-97 | SMRD-97-GW033011 | Ho-166m | Total | -0.14 | NA | 0.79 | NA |
| RD-97 | SMRD-97-GW033011 | I-129 | Filtered | -0.08 U | 0.57 | 0.17 | 0.28 |
| RD-97 | SMRD-97-GW033011 | I-129 | Suspended | 0.02 U | 0.47 | 0.14 | 0.23 |
| RD-97 | SMRD-97-GW033011 | I-129 | Total | -0.06 | NA | 0.22 | NA |
| RD-97 | SMRD-97-GW033011 | K-40 | Filtered | 25.3 | 20 | 7.3 | 9.5 |
| RD-97 | SMRD-97-GW033011 | K-40 | Suspended | -2 U | 11 | 3.4 | 5.3 |
| RD-97 | SMRD-97-GW033011 | K-40 | Total | 23.3 | NA | 8.1 | NA |
| RD-97 | SMRD-97-GW033011 | Na-22 | Filtered | 0.06 U | 1.5 | 0.41 | 0.68 |
| RD-97 | SMRD-97-GW033011 | Na-22 | Suspended | 0.01 U | 0.62 | 0.17 | 0.29 |
| RD-97 | SMRD-97-GW033011 | Na-22 | Total | 0.07 | NA | 0.45 | NA |
| RD-97 | SMRD-97-GW033011 | Nb-94 | Filtered | -0.28 U | 1.4 | 0.41 | 0.66 |
| RD-97 | SMRD-97-GW033011 | Nb-94 | Suspended | 0.001 U | 0.66 | 0.19 | 0.31 |
| RD-97 | SMRD-97-GW033011 | Nb-94 | Total | -0.28 | NA | 0.45 | NA |
| RD-97 | SMRD-97-GW033011 | Np-236 | Filtered | 0.45 U | 2.8 | 0.82 | 1.3 |
| RD-97 | SMRD-97-GW033011 | Np-236 | Suspended | -0.33 U | 1.3 | 0.38 | 0.62 |
| RD-97 | SMRD-97-GW033011 | Np-236 | Total | 0.12 | NA | 0.91 | NA |
| RD-97 | SMRD-97-GW033011 | Np-237 | Filtered | -0.0024 U | 0.026 | 0.0024 | 0.0055 |
| RD-97 | SMRD-97-GW033011 | Np-237 | Suspended | -0.002 U | 0.022 | 0.002 | 0.0056 |
| RD-97 | SMRD-97-GW033011 | Np-237 | Total | -0.0044 | NA | 0.0031 | NA |
| RD-97 | SMRD-97-GW033011 | Np-239 | Filtered | -2.4 U | 9.5 | 2.9 | 4.6 |
| RD-97 | SMRD-97-GW033011 | Np-239 | Suspended | 0.3 U | 3.9 | 1.1 | 1.9 |
| RD-97 | SMRD-97-GW033011 | Np-239 | Total | -2 | NA | 3.1 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-97 | SMRD-97-GW033011 | Pa-231 | Filtered | 0 U | 73 | 21 | 35 |
| RD-97 | SMRD-97-GW033011 | Pa-231 | Suspended | -4 U | 28 | 8.3 | 14 |
| RD-97 | SMRD-97-GW033011 | Pa-231 | Total | -4 | NA | 23 | NA |
| RD-97 | SMRD-97-GW033011 | Pb-212 | Filtered | 0.84 U | 2.5 | 0.75 | 1.2 |
| RD-97 | SMRD-97-GW033011 | Pb-212 | Suspended | 1.27 | 1.1 | 0.42 | 0.55 |
| RD-97 | SMRD-97-GW033011 | Pb-212 | Total | 2.11 | NA | 0.86 | NA |
| RD-97 | SMRD-97-GW033011 | Pb-214 | Filtered | 1.3 U | 3.2 | 1.2 | 1.5 |
| RD-97 | SMRD-97-GW033011 | Pb-214 | Suspended | -0.4 U | 1.4 | 0.59 | 0.68 |
| RD-97 | SMRD-97-GW033011 | Pb-214 | Total | 0.9 | NA | 1.3 | NA |
| RD-97 | SMRD-97-GW033011 | Pu-238 | Filtered | 0.0032 U | 0.019 | 0.005 | 0.0071 |
| RD-97 | SMRD-97-GW033011 | Pu-238 | Suspended | 0.0176 | 0.011 | 0.0056 | 0.0034 |
| RD-97 | SMRD-97-GW033011 | Pu-238 | Total | 0.0207 | NA | 0.0075 | NA |
| RD-97 | SMRD-97-GW033011 | Pu-239/240 | Filtered | 0.004 U | 0.0053 | 0.0028 | 0.0046 |
| RD-97 | SMRD-97-GW033011 | Pu-239/240 | Suspended | 0.0029 U | 0.004 | 0.0021 | 0.0038 |
| RD-97 | SMRD-97-GW033011 | Pu-239/240 | Total | 0.0069 | NA | 0.0035 | NA |
| RD-97 | SMRD-97-GW033011 | Pu-242 | Filtered | 0 U | 0.0053 | 0.002 | 0.0046 |
| RD-97 | SMRD-97-GW033011 | Pu-242 | Suspended | -0.0044 U | 0.016 | 0.0028 | 0.0059 |
| RD-97 | SMRD-97-GW033011 | Pu-242 | Total | -0.0044 | NA | 0.0035 | NA |
| RD-97 | SMRD-97-GW033011 | Ra-226 | Filtered | 1.28 | 0.14 | 0.13 | 0.07 |
| RD-97 | SMRD-97-GW033011 | Ra-226 | Suspended | 1.03 | 0.22 | 0.13 | 0.12 |
| RD-97 | SMRD-97-GW033011 | Ra-226 | Total | 2.31 | NA | 0.18 | NA |
| RD-97 | SMRD-97-GW033011 | Sb-125 | Filtered | 1.7 U | 15 | 4.5 | 7.3 |
| RD-97 | SMRD-97-GW033011 | Sb-125 | Suspended | 0.5 U | 5.7 | 1.7 | 2.7 |
| RD-97 | SMRD-97-GW033011 | Sb-125 | Total | 2.2 | NA | 4.8 | NA |
| RD-97 | SMRD-97-GW033011 | Sn-126 | Filtered | -0.14 U | 1.6 | 0.47 | 0.76 |
| RD-97 | SMRD-97-GW033011 | Sn-126 | Suspended | 0.26 U | 0.72 | 0.22 | 0.34 |
| RD-97 | SMRD-97-GW033011 | Sn-126 | Total | 0.12 | NA | 0.52 | NA |
| RD-97 | SMRD-97-GW033011 | Sr-90 | Filtered | 0.073 U | 0.17 | 0.051 | 0.096 |
| RD-97 | SMRD-97-GW033011 | Sr-90 | Suspended | 0.152 | 0.091 | 0.031 | 0.051 |
| RD-97 | SMRD-97-GW033011 | Sr-90 | Total | 0.226 | NA | 0.06 | NA |
| RD-97 | SMRD-97-GW033011 | Tc-99 | Filtered | -0.14 U | 1.2 | 0.38 | 0.62 |
| RD-97 | SMRD-97-GW033011 | Tc-99 | Suspended | 0.09 U | 1.5 | 0.44 | 0.73 |
| RD-97 | SMRD-97-GW033011 | Tc-99 | Total | -0.05 | NA | 0.58 | NA |
| RD-97 | SMRD-97-GW033011 | Te-125m | Filtered | 0.4 U | 3.5 | 1 | 1.7 |
| RD-97 | SMRD-97-GW033011 | Te-125m | Suspended | 0.12 U | 1.3 | 0.39 | 0.63 |
| RD-97 | SMRD-97-GW033011 | Te-125m | Total | 0.5 | NA | 1.1 | NA |
| RD-97 | SMRD-97-GW033011 | Th-231 | Filtered | 0.175 | 0.007 | 0.023 | 0.006 |
| RD-97 | SMRD-97-GW033011 | Th-231 | Suspended | 0.0005 U | 0.017 | 0.0033 | 0.0054 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|--------|----------------|
| RD-97 | SMRD-97-GW033011 | Th-231 | Total | 0.175 | NA | 0.023 | NA |
| RD-97 | SMRD-97-GW033011 | Th-234 | Filtered | 4.3 U | 25 | 7.8 | 12 |
| RD-97 | SMRD-97-GW033011 | Th-234 | Suspended | 1 U | 7.6 | 2.5 | 3.7 |
| RD-97 | SMRD-97-GW033011 | Th-234 | Total | 5.3 | NA | 8.2 | NA |
| RD-97 | SMRD-97-GW033011 | Tl-208 | Filtered | 0.28 U | 1.6 | 0.51 | 0.75 |
| RD-97 | SMRD-97-GW033011 | Tl-208 | Suspended | 1.08 | 0.75 | 0.32 | 0.36 |
| RD-97 | SMRD-97-GW033011 | Tl-208 | Total | 1.35 | NA | 0.6 | NA |
| RD-97 | SMRD-97-GW033011 | Tm-171 | Filtered | 120 U | 450 | 130 | 220 |
| RD-97 | SMRD-97-GW033011 | Tm-171 | Suspended | 1 U | 120 | 34 | 56 |
| RD-97 | SMRD-97-GW033011 | Tm-171 | Total | 130 | NA | 140 | NA |
| RD-97 | SMRD-97-GW033011 | U-233/234 | Filtered | 3.77 | 0.006 | 0.18 | 0.005 |
| RD-97 | SMRD-97-GW033011 | U-233/234 | Suspended | 0.149 | 0.02 | 0.02 | 0.008 |
| RD-97 | SMRD-97-GW033011 | U-233/234 | Total | 3.92 | NA | 0.18 | NA |
| RD-97 | SMRD-97-GW033011 | U-235/236 | Filtered | 0.175 | 0.007 | 0.023 | 0.006 |
| RD-97 | SMRD-97-GW033011 | U-235/236 | Suspended | 0.0005 U | 0.017 | 0.0033 | 0.0054 |
| RD-97 | SMRD-97-GW033011 | U-235/236 | Total | 0.175 | NA | 0.023 | NA |
| RD-97 | SMRD-97-GW033011 | U-238 | Filtered | 3.46 | 0.006 | 0.17 | 0.005 |
| RD-97 | SMRD-97-GW033011 | U-238 | Suspended | 0.144 | 0.006 | 0.019 | 0.004 |
| RD-97 | SMRD-97-GW033011 | U-238 | Total | 3.61 | NA | 0.17 | NA |
| RD-98 | SMRD-98-GW041911 | Ac-227 | Filtered | 2.5 U | 6.1 | 1.8 | 2.9 |
| RD-98 | SMRD-98-GW041911 | Ac-227 | Suspended | -0.4 U | 3.7 | 1.1 | 1.8 |
| RD-98 | SMRD-98-GW041911 | Ac-227 | Total | 2.1 | NA | 2.1 | NA |
| RD-98 | SMRD-98-GW041911 | Ac-228 | Filtered | 2.7 | 3.2 | 1 | 1.5 |
| RD-98 | SMRD-98-GW041911 | Ac-228 | Suspended | 1.94 | 1.9 | 0.64 | 0.87 |
| RD-98 | SMRD-98-GW041911 | Ac-228 | Total | 4.6 | NA | 1.2 | NA |
| RD-98 | SMRD-98-GW041911 | Ag-108 | Filtered | -0.0004 U R | 0.099 | 0.029 | 0.047 |
| RD-98 | SMRD-98-GW041911 | Ag-108 | Suspended | 0.0052 U R | 0.034 | 0.0096 | 0.015 |
| RD-98 | SMRD-98-GW041911 | Ag-108 | Total | 0.005 R | NA | 0.03 | NA |
| RD-98 | SMRD-98-GW041911 | Ag-108m | Filtered | -0.004 U R | 1.1 | 0.31 | 0.51 |
| RD-98 | SMRD-98-GW041911 | Ag-108m | Suspended | 0.06 U R | 0.36 | 0.1 | 0.17 |
| RD-98 | SMRD-98-GW041911 | Ag-108m | Total | 0.05 R | NA | 0.33 | NA |
| RD-98 | SMRD-98-GW041911 | Am-241 | Filtered | 0.0036 U | 0.019 | 0.005 | 0.0072 |
| RD-98 | SMRD-98-GW041911 | Am-241 | Suspended | -0.0003 U | 0.018 | 0.0043 | 0.0072 |
| RD-98 | SMRD-98-GW041911 | Am-241 | Total | 0.0032 | NA | 0.0066 | NA |
| RD-98 | SMRD-98-GW041911 | Ba-133 | Filtered | 0.7 U R | 12 | 3.6 | 5.8 |
| RD-98 | SMRD-98-GW041911 | Ba-133 | Suspended | -1.1 U R | 5.6 | 1.7 | 2.7 |
| RD-98 | SMRD-98-GW041911 | Ba-133 | Total | -0.3 R | NA | 3.9 | NA |
| RD-98 | SMRD-98-GW041911 | Ba-137m | Filtered | -0.01 U | 1 | 0.28 | 0.47 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RD-98 | SMRD-98-GW041911 | Ba-137m | Suspended | 0.11 U | 0.59 | 0.17 | 0.27 |
| RD-98 | SMRD-98-GW041911 | Ba-137m | Total | 0.1 | NA | 0.33 | NA |
| RD-98 | SMRD-98-GW041911 | Bi-212 | Filtered | 2.8 U | 9.7 | 2.9 | 4.6 |
| RD-98 | SMRD-98-GW041911 | Bi-212 | Suspended | 1.6 U | 4.5 | 1.3 | 2.1 |
| RD-98 | SMRD-98-GW041911 | Bi-212 | Total | 4.4 | NA | 3.2 | NA |
| RD-98 | SMRD-98-GW041911 | Bi-214 | Filtered | 0.42 U | 2.8 | 0.99 | 1.3 |
| RD-98 | SMRD-98-GW041911 | Bi-214 | Suspended | 1.19 | 1.5 | 0.56 | 0.7 |
| RD-98 | SMRD-98-GW041911 | Bi-214 | Total | 1.6 | NA | 1.1 | NA |
| RD-98 | SMRD-98-GW041911 | C-14 | Total | 0.78 U R | 2.2 | 0.68 | 1.1 |
| RD-98 | SMRD-98-GW041911 | Cd-113m | Filtered | 1200 U | 15000 | 4400 | 7200 |
| RD-98 | SMRD-98-GW041911 | Cd-113m | Suspended | -2600 U | 7200 | 2200 | 3400 |
| RD-98 | SMRD-98-GW041911 | Cd-113m | Total | -1400 | NA | 4900 | NA |
| RD-98 | SMRD-98-GW041911 | Cf-249 | Filtered | -1.2 U R | 6.1 | 1.8 | 2.9 |
| RD-98 | SMRD-98-GW041911 | Cf-249 | Suspended | 0.62 U R | 2.7 | 0.8 | 1.3 |
| RD-98 | SMRD-98-GW041911 | Cf-249 | Total | -0.5 R | NA | 2 | NA |
| RD-98 | SMRD-98-GW041911 | Cm-243/244 | Filtered | 0.0087 U | 0.026 | 0.0076 | 0.011 |
| RD-98 | SMRD-98-GW041911 | Cm-243/244 | Suspended | -0.001 U | 0.014 | 0.0027 | 0.005 |
| RD-98 | SMRD-98-GW041911 | Cm-243/244 | Total | 0.0077 | NA | 0.0081 | NA |
| RD-98 | SMRD-98-GW041911 | Cm-245/246 | Filtered | 0.009 J | 0.0061 | 0.0045 | 0.0052 |
| RD-98 | SMRD-98-GW041911 | Cm-245/246 | Suspended | 0.0122 | 0.013 | 0.0055 | 0.0041 |
| RD-98 | SMRD-98-GW041911 | Cm-245/246 | Total | 0.0211 J | NA | 0.0071 | NA |
| RD-98 | SMRD-98-GW041911 | Co-60 | Filtered | 0.41 U | 1.3 | 0.38 | 0.59 |
| RD-98 | SMRD-98-GW041911 | Co-60 | Suspended | 0.26 U | 0.74 | 0.22 | 0.33 |
| RD-98 | SMRD-98-GW041911 | Co-60 | Total | 0.67 | NA | 0.44 | NA |
| RD-98 | SMRD-98-GW041911 | Cs-134 | Filtered | 0.03 U | 1.2 | 0.35 | 0.58 |
| RD-98 | SMRD-98-GW041911 | Cs-134 | Suspended | -0.19 U | 0.68 | 0.2 | 0.32 |
| RD-98 | SMRD-98-GW041911 | Cs-134 | Total | -0.16 | NA | 0.41 | NA |
| RD-98 | SMRD-98-GW041911 | Cs-137 | Filtered | -0.01 U | 1.1 | 0.3 | 0.49 |
| RD-98 | SMRD-98-GW041911 | Cs-137 | Suspended | 0.12 U | 0.63 | 0.18 | 0.29 |
| RD-98 | SMRD-98-GW041911 | Cs-137 | Total | 0.11 | NA | 0.35 | NA |
| RD-98 | SMRD-98-GW041911 | Eu-152 | Filtered | -0.17 U | 3.4 | 0.99 | 1.6 |
| RD-98 | SMRD-98-GW041911 | Eu-152 | Suspended | 0.57 U | 1.6 | 0.47 | 0.74 |
| RD-98 | SMRD-98-GW041911 | Eu-152 | Total | 0.4 | NA | 1.1 | NA |
| RD-98 | SMRD-98-GW041911 | Eu-154 | Filtered | -0.01 U | 10 | 2.9 | 4.7 |
| RD-98 | SMRD-98-GW041911 | Eu-154 | Suspended | 1.3 U | 5.5 | 1.6 | 2.5 |
| RD-98 | SMRD-98-GW041911 | Eu-154 | Total | 1.3 | NA | 3.3 | NA |
| RD-98 | SMRD-98-GW041911 | Eu-155 | Filtered | 0.3 U | 3.4 | 1 | 1.7 |
| RD-98 | SMRD-98-GW041911 | Eu-155 | Suspended | -0.01 U | 0.79 | 0.23 | 0.38 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RD-98 | SMRD-98-GW041911 | Eu-155 | Total | 0.3 | NA | 1 | NA |
| RD-98 | SMRD-98-GW041911 | gross_alpha | Filtered | 6.05 J | 0.67 | 0.57 | 0.37 |
| RD-98 | SMRD-98-GW041911 | gross_alpha | Suspended | 0.99 | 0.51 | 0.23 | 0.26 |
| RD-98 | SMRD-98-GW041911 | gross_alpha | Total | 7.04 J | NA | 0.61 | NA |
| RD-98 | SMRD-98-GW041911 | gross_beta | Filtered | 325 R | 1 | 12 | 0.6 |
| RD-98 | SMRD-98-GW041911 | gross_beta | Suspended | 1.5 | 0.84 | 0.31 | 0.5 |
| RD-98 | SMRD-98-GW041911 | gross_beta | Total | 327 R | NA | 12 | NA |
| RD-98 | SMRD-98-GW041911 | H-3 | Total | 23 U | 120 | 36 | 58 |
| RD-98 | SMRD-98-GW041911 | Ho-166m | Filtered | -0.11 U | 1.6 | 0.47 | 0.76 |
| RD-98 | SMRD-98-GW041911 | Ho-166m | Suspended | -0.01 U | 1.1 | 0.3 | 0.5 |
| RD-98 | SMRD-98-GW041911 | Ho-166m | Total | -0.12 | NA | 0.56 | NA |
| RD-98 | SMRD-98-GW041911 | I-129 | Filtered | 0.21 U | 0.58 | 0.18 | 0.29 |
| RD-98 | SMRD-98-GW041911 | I-129 | Suspended | 0.2 U | 0.56 | 0.17 | 0.28 |
| RD-98 | SMRD-98-GW041911 | I-129 | Total | 0.41 | NA | 0.24 | NA |
| RD-98 | SMRD-98-GW041911 | K-40 | Filtered | -2.1 U | 18 | 5.3 | 8.5 |
| RD-98 | SMRD-98-GW041911 | K-40 | Suspended | 5.9 | 8.5 | 2.1 | 3.8 |
| RD-98 | SMRD-98-GW041911 | K-40 | Total | 3.8 | NA | 5.7 | NA |
| RD-98 | SMRD-98-GW041911 | Na-22 | Filtered | 0.12 U | 1.2 | 0.33 | 0.54 |
| RD-98 | SMRD-98-GW041911 | Na-22 | Suspended | 0.2 U | 0.72 | 0.21 | 0.32 |
| RD-98 | SMRD-98-GW041911 | Na-22 | Total | 0.32 | NA | 0.39 | NA |
| RD-98 | SMRD-98-GW041911 | Nb-94 | Filtered | 0.22 U | 1 | 0.3 | 0.48 |
| RD-98 | SMRD-98-GW041911 | Nb-94 | Suspended | 0.04 U | 0.61 | 0.17 | 0.28 |
| RD-98 | SMRD-98-GW041911 | Nb-94 | Total | 0.26 | NA | 0.35 | NA |
| RD-98 | SMRD-98-GW041911 | Np-236 | Filtered | -0.04 U | 3 | 0.87 | 1.4 |
| RD-98 | SMRD-98-GW041911 | Np-236 | Suspended | 0.1 U | 1 | 0.31 | 0.5 |
| RD-98 | SMRD-98-GW041911 | Np-236 | Total | 0.06 | NA | 0.93 | NA |
| RD-98 | SMRD-98-GW041911 | Np-237 | Filtered | 0 U | 0.011 | 0.0028 | 0.0056 |
| RD-98 | SMRD-98-GW041911 | Np-237 | Suspended | 0 U | 0.01 | 0.0027 | 0.0056 |
| RD-98 | SMRD-98-GW041911 | Np-237 | Total | 0 | NA | 0.0039 | NA |
| RD-98 | SMRD-98-GW041911 | Np-239 | Filtered | -2.5 U | 8.4 | 2.5 | 4.1 |
| RD-98 | SMRD-98-GW041911 | Np-239 | Suspended | 0.9 U | 3.4 | 1 | 1.6 |
| RD-98 | SMRD-98-GW041911 | Np-239 | Total | -1.6 | NA | 2.7 | NA |
| RD-98 | SMRD-98-GW041911 | Pa-231 | Filtered | -3 U | 55 | 16 | 27 |
| RD-98 | SMRD-98-GW041911 | Pa-231 | Suspended | 6.5 U | 24 | 7.3 | 12 |
| RD-98 | SMRD-98-GW041911 | Pa-231 | Total | 4 | NA | 18 | NA |
| RD-98 | SMRD-98-GW041911 | Pb-212 | Filtered | 0.35 U | 2.4 | 0.81 | 1.2 |
| RD-98 | SMRD-98-GW041911 | Pb-212 | Suspended | 0.48 U | 1.1 | 0.39 | 0.53 |
| RD-98 | SMRD-98-GW041911 | Pb-212 | Total | 0.84 | NA | 0.9 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RD-98 | SMRD-98-GW041911 | Pb-214 | Filtered | 0.98 U | 2.7 | 0.76 | 1.3 |
| RD-98 | SMRD-98-GW041911 | Pb-214 | Suspended | 0 U | 1.3 | 0.38 | 0.6 |
| RD-98 | SMRD-98-GW041911 | Pb-214 | Total | 0.98 | NA | 0.85 | NA |
| RD-98 | SMRD-98-GW041911 | Pu-238 | Filtered | 0.003 U | 0.018 | 0.0045 | 0.0062 |
| RD-98 | SMRD-98-GW041911 | Pu-238 | Suspended | 0.0063 | 0.015 | 0.0046 | 0.0052 |
| RD-98 | SMRD-98-GW041911 | Pu-238 | Total | 0.0093 | NA | 0.0065 | NA |
| RD-98 | SMRD-98-GW041911 | Pu-239/240 | Filtered | -0.0017 U | 0.014 | 0.0019 | 0.0044 |
| RD-98 | SMRD-98-GW041911 | Pu-239/240 | Suspended | -0.0016 U | 0.012 | 0.0018 | 0.0037 |
| RD-98 | SMRD-98-GW041911 | Pu-239/240 | Total | -0.0033 | NA | 0.0026 | NA |
| RD-98 | SMRD-98-GW041911 | Pu-242 | Filtered | 0.0042 U | 0.0057 | 0.003 | 0.0049 |
| RD-98 | SMRD-98-GW041911 | Pu-242 | Suspended | 0.0032 U | 0.012 | 0.0033 | 0.0037 |
| RD-98 | SMRD-98-GW041911 | Pu-242 | Total | 0.0074 | NA | 0.0044 | NA |
| RD-98 | SMRD-98-GW041911 | Ra-226 | Filtered | 0.339 | 0.12 | 0.065 | 0.059 |
| RD-98 | SMRD-98-GW041911 | Ra-226 | Suspended | 0.156 | 0.19 | 0.064 | 0.1 |
| RD-98 | SMRD-98-GW041911 | Ra-226 | Total | 0.495 | NA | 0.092 | NA |
| RD-98 | SMRD-98-GW041911 | Sb-125 | Filtered | -2.6 U | 14 | 4 | 6.6 |
| RD-98 | SMRD-98-GW041911 | Sb-125 | Suspended | -1.3 U | 5.2 | 1.6 | 2.5 |
| RD-98 | SMRD-98-GW041911 | Sb-125 | Total | -3.8 | NA | 4.3 | NA |
| RD-98 | SMRD-98-GW041911 | Sn-126 | Filtered | 0 U | 1.5 | 0.42 | 0.69 |
| RD-98 | SMRD-98-GW041911 | Sn-126 | Suspended | 0.34 | 0.66 | 0.2 | 0.31 |
| RD-98 | SMRD-98-GW041911 | Sn-126 | Total | 0.34 | NA | 0.47 | NA |
| RD-98 | SMRD-98-GW041911 | Sr-90 | Filtered | 183 | 0.3 | 7.7 | 0.2 |
| RD-98 | SMRD-98-GW041911 | Sr-90 | Suspended | 0.16 | 0.084 | 0.03 | 0.048 |
| RD-98 | SMRD-98-GW041911 | Sr-90 | Total | 183 | NA | 7.7 | NA |
| RD-98 | SMRD-98-GW041911 | Tc-99 | Filtered | -0.33 U | 1.5 | 0.47 | 0.77 |
| RD-98 | SMRD-98-GW041911 | Tc-99 | Suspended | 0.09 U | 1.5 | 0.44 | 0.72 |
| RD-98 | SMRD-98-GW041911 | Tc-99 | Total | -0.24 | NA | 0.64 | NA |
| RD-98 | SMRD-98-GW041911 | Te-125m | Filtered | -0.59 U | 3.1 | 0.93 | 1.5 |
| RD-98 | SMRD-98-GW041911 | Te-125m | Suspended | -0.3 U | 1.2 | 0.36 | 0.58 |
| RD-98 | SMRD-98-GW041911 | Te-125m | Total | -0.89 | NA | 0.999 | NA |
| RD-98 | SMRD-98-GW041911 | Th-231 | Filtered | 0.182 | 0.007 | 0.023 | 0.005 |
| RD-98 | SMRD-98-GW041911 | Th-231 | Suspended | 0.0074 | 0.015 | 0.005 | 0.0048 |
| RD-98 | SMRD-98-GW041911 | Th-231 | Total | 0.19 | NA | 0.023 | NA |
| RD-98 | SMRD-98-GW041911 | Th-234 | Filtered | -1.5 U | 22 | 8 | 11 |
| RD-98 | SMRD-98-GW041911 | Th-234 | Suspended | 7 | 6.6 | 2.3 | 3.2 |
| RD-98 | SMRD-98-GW041911 | Th-234 | Total | 5.5 | NA | 8.3 | NA |
| RD-98 | SMRD-98-GW041911 | Tl-208 | Filtered | -0.12 U | 1.6 | 0.47 | 0.75 |
| RD-98 | SMRD-98-GW041911 | Tl-208 | Suspended | 0.62 | 0.74 | 0.28 | 0.35 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RD-98 | SMRD-98-GW041911 | Tl-208 | Total | 0.5 | NA | 0.55 | NA |
| RD-98 | SMRD-98-GW041911 | Tm-171 | Filtered | 300 | 360 | 110 | 170 |
| RD-98 | SMRD-98-GW041911 | Tm-171 | Suspended | -15 U | 94 | 28 | 45 |
| RD-98 | SMRD-98-GW041911 | Tm-171 | Total | 290 | NA | 110 | NA |
| RD-98 | SMRD-98-GW041911 | U-233/234 | Filtered | 4.82 | 0.01 | 0.23 | 0.004 |
| RD-98 | SMRD-98-GW041911 | U-233/234 | Suspended | 0.008 | 0.0051 | 0.0059 | 0.0039 |
| RD-98 | SMRD-98-GW041911 | U-233/234 | Total | 4.83 | NA | 0.23 | NA |
| RD-98 | SMRD-98-GW041911 | U-235/236 | Filtered | 0.182 | 0.007 | 0.023 | 0.005 |
| RD-98 | SMRD-98-GW041911 | U-235/236 | Suspended | 0.0074 | 0.015 | 0.005 | 0.0048 |
| RD-98 | SMRD-98-GW041911 | U-235/236 | Total | 0.19 | NA | 0.023 | NA |
| RD-98 | SMRD-98-GW041911 | U-238 | Filtered | 1.54 | 0.006 | 0.086 | 0.004 |
| RD-98 | SMRD-98-GW041911 | U-238 | Suspended | 0.0204 | 0.012 | 0.0077 | 0.0039 |
| RD-98 | SMRD-98-GW041911 | U-238 | Total | 1.56 | NA | 0.086 | NA |
| RS-11 | SMRS-11-GW033111 | Ac-227 | Filtered | -5.8 U | 12 | 3.7 | 6 |
| RS-11 | SMRS-11-GW033111 | Ac-227 | Suspended | -0.6 U | 4.2 | 1.3 | 2 |
| RS-11 | SMRS-11-GW033111 | Ac-227 | Total | -6.4 | NA | 4 | NA |
| RS-11 | SMRS-11-GW033111 | Ac-228 | Filtered | 3.2 | 5 | 1.5 | 2.3 |
| RS-11 | SMRS-11-GW033111 | Ac-228 | Suspended | -2.3 U | 3.2 | 4.2 | 1.5 |
| RS-11 | SMRS-11-GW033111 | Ac-228 | Total | 0.9 | NA | 4.5 | NA |
| RS-11 | SMRS-11-GW033111 | Ag-108 | Filtered | 0.019 U R | 0.12 | 0.036 | 0.058 |
| RS-11 | SMRS-11-GW033111 | Ag-108 | Suspended | -0.006 U R | 0.055 | 0.016 | 0.026 |
| RS-11 | SMRS-11-GW033111 | Ag-108 | Total | 0.013 R | NA | 0.039 | NA |
| RS-11 | SMRS-11-GW033111 | Ag-108m | Filtered | 0.2 U R | 1.3 | 0.38 | 0.62 |
| RS-11 | SMRS-11-GW033111 | Ag-108m | Suspended | -0.06 U R | 0.59 | 0.17 | 0.28 |
| RS-11 | SMRS-11-GW033111 | Ag-108m | Total | 0.14 R | NA | 0.42 | NA |
| RS-11 | SMRS-11-GW033111 | Ba-133 | Filtered | -5.2 U R | 15 | 4.4 | 7.1 |
| RS-11 | SMRS-11-GW033111 | Ba-133 | Suspended | -0.2 U R | 5.8 | 1.7 | 2.8 |
| RS-11 | SMRS-11-GW033111 | Ba-133 | Total | -5.5 R | NA | 4.7 | NA |
| RS-11 | SMRS-11-GW033111 | Ba-137m | Filtered | -0.28 U | 1.6 | 0.47 | 0.76 |
| RS-11 | SMRS-11-GW033111 | Ba-137m | Suspended | -0.06 U | 0.8 | 0.23 | 0.38 |
| RS-11 | SMRS-11-GW033111 | Ba-137m | Total | -0.34 | NA | 0.52 | NA |
| RS-11 | SMRS-11-GW033111 | Bi-212 | Filtered | -0.6 U | 10 | 3 | 4.9 |
| RS-11 | SMRS-11-GW033111 | Bi-212 | Suspended | 2.7 | 5.2 | 1.6 | 2.4 |
| RS-11 | SMRS-11-GW033111 | Bi-212 | Total | 2.1 | NA | 3.4 | NA |
| RS-11 | SMRS-11-GW033111 | Bi-214 | Filtered | -0.6 U | 4.1 | 1.3 | 2 |
| RS-11 | SMRS-11-GW033111 | Bi-214 | Suspended | 1.2 | 1.8 | 0.75 | 0.86 |
| RS-11 | SMRS-11-GW033111 | Bi-214 | Total | 0.6 | NA | 1.5 | NA |
| RS-11 | SMRS-11-GW033111 | Cd-113m | Filtered | -1400 U | 18000 | 5300 | 8700 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RS-11 | SMRS-11-GW033111 | Cd-113m | Suspended | -100 U | 5700 | 1700 | 2700 |
| RS-11 | SMRS-11-GW033111 | Cd-113m | Total | -1500 | NA | 5500 | NA |
| RS-11 | SMRS-11-GW033111 | Cf-249 | Filtered | -2.4 U R | 7.6 | 2.3 | 3.7 |
| RS-11 | SMRS-11-GW033111 | Cf-249 | Suspended | 0.34 U R | 3.1 | 0.91 | 1.5 |
| RS-11 | SMRS-11-GW033111 | Cf-249 | Total | -2 R | NA | 2.5 | NA |
| RS-11 | SMRS-11-GW033111 | Co-60 | Filtered | 0.25 U | 1.6 | 0.44 | 0.7 |
| RS-11 | SMRS-11-GW033111 | Co-60 | Suspended | 0.009 U | 0.7 | 0.2 | 0.32 |
| RS-11 | SMRS-11-GW033111 | Co-60 | Total | 0.26 | NA | 0.48 | NA |
| RS-11 | SMRS-11-GW033111 | Cs-134 | Filtered | -0.07 U | 1.6 | 0.48 | 0.79 |
| RS-11 | SMRS-11-GW033111 | Cs-134 | Suspended | 0.33 U | 0.79 | 0.24 | 0.38 |
| RS-11 | SMRS-11-GW033111 | Cs-134 | Total | 0.26 | NA | 0.54 | NA |
| RS-11 | SMRS-11-GW033111 | Cs-137 | Filtered | -0.3 U | 1.7 | 0.5 | 0.8 |
| RS-11 | SMRS-11-GW033111 | Cs-137 | Suspended | -0.06 U | 0.84 | 0.25 | 0.4 |
| RS-11 | SMRS-11-GW033111 | Cs-137 | Total | -0.36 | NA | 0.55 | NA |
| RS-11 | SMRS-11-GW033111 | Eu-152 | Filtered | -0.4 U | 4.4 | 1.3 | 2.1 |
| RS-11 | SMRS-11-GW033111 | Eu-152 | Suspended | 0.28 U | 1.7 | 0.51 | 0.83 |
| RS-11 | SMRS-11-GW033111 | Eu-152 | Total | -0.1 | NA | 1.4 | NA |
| RS-11 | SMRS-11-GW033111 | Eu-154 | Filtered | -0.8 U | 16 | 4.6 | 7.5 |
| RS-11 | SMRS-11-GW033111 | Eu-154 | Suspended | 0.008 U | 5.5 | 1.6 | 2.6 |
| RS-11 | SMRS-11-GW033111 | Eu-154 | Total | -0.7 | NA | 4.8 | NA |
| RS-11 | SMRS-11-GW033111 | Eu-155 | Filtered | -0.03 U | 3.7 | 1.1 | 1.8 |
| RS-11 | SMRS-11-GW033111 | Eu-155 | Suspended | 0.43 U | 1.3 | 0.39 | 0.63 |
| RS-11 | SMRS-11-GW033111 | Eu-155 | Total | 0.4 | NA | 1.1 | NA |
| RS-11 | SMRS-11-GW033111 | gross_alpha | Filtered | 45.2 | 0.4 | 2.2 | 0.2 |
| RS-11 | SMRS-11-GW033111 | gross_alpha | Suspended | 0.82 | 0.42 | 0.19 | 0.22 |
| RS-11 | SMRS-11-GW033111 | gross_alpha | Total | 27.2 | NA | 1.5 | NA |
| RS-11 | SMRS-11-GW033111 | gross_beta | Filtered | 9.4 | 6.2 | 2.4 | 3.5 |
| RS-11 | SMRS-11-GW033111 | gross_beta | Suspended | 0.75 | 0.91 | 0.3 | 0.54 |
| RS-11 | SMRS-11-GW033111 | gross_beta | Total | 10.2 | NA | 2.4 | NA |
| RS-11 | SMRS-11-GW033111 | H-3 | Total | -30 U | 180 | 54 | 90 |
| RS-11 | SMRS-11-GW033111 | Ho-166m | Filtered | -0.81 U | 2.8 | 0.83 | 1.3 |
| RS-11 | SMRS-11-GW033111 | Ho-166m | Suspended | 0.18 U | 0.95 | 0.28 | 0.45 |
| RS-11 | SMRS-11-GW033111 | Ho-166m | Total | -0.63 | NA | 0.88 | NA |
| RS-11 | SMRS-11-GW033111 | K-40 | Filtered | 1.2 U | 22 | 6.4 | 10 |
| RS-11 | SMRS-11-GW033111 | K-40 | Suspended | -7.7 U | 13 | 4.7 | 6.2 |
| RS-11 | SMRS-11-GW033111 | K-40 | Total | -6.5 | NA | 7.9 | NA |
| RS-11 | SMRS-11-GW033111 | Na-22 | Filtered | -0.31 U | 1.9 | 0.55 | 0.87 |
| RS-11 | SMRS-11-GW033111 | Na-22 | Suspended | -0.13 U | 0.82 | 0.24 | 0.38 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RS-11 | SMRS-11-GW033111 | Na-22 | Total | -0.44 | NA | 0.6 | NA |
| RS-11 | SMRS-11-GW033111 | Nb-94 | Filtered | 0 U | 1.5 | 0.44 | 0.72 |
| RS-11 | SMRS-11-GW033111 | Nb-94 | Suspended | -0.09 U | 0.55 | 0.16 | 0.26 |
| RS-11 | SMRS-11-GW033111 | Nb-94 | Total | -0.09 | NA | 0.47 | NA |
| RS-11 | SMRS-11-GW033111 | Np-236 | Filtered | -0.3 U | 3.6 | 1.1 | 1.8 |
| RS-11 | SMRS-11-GW033111 | Np-236 | Suspended | -0.3 U | 1.3 | 0.39 | 0.63 |
| RS-11 | SMRS-11-GW033111 | Np-236 | Total | -0.6 | NA | 1.1 | NA |
| RS-11 | SMRS-11-GW033111 | Np-239 | Filtered | 2.2 U | 9.1 | 2.7 | 4.4 |
| RS-11 | SMRS-11-GW033111 | Np-239 | Suspended | -0.1 U | 3.9 | 1.1 | 1.9 |
| RS-11 | SMRS-11-GW033111 | Np-239 | Total | 2.1 | NA | 3 | NA |
| RS-11 | SMRS-11-GW033111 | Pa-231 | Filtered | 5 U | 65 | 19 | 31 |
| RS-11 | SMRS-11-GW033111 | Pa-231 | Suspended | -5.4 U | 27 | 8 | 13 |
| RS-11 | SMRS-11-GW033111 | Pa-231 | Total | -0.5 | NA | 21 | NA |
| RS-11 | SMRS-11-GW033111 | Pb-212 | Filtered | 1.28 U | 2.9 | 0.94 | 1.4 |
| RS-11 | SMRS-11-GW033111 | Pb-212 | Suspended | 0.27 U | 1 | 0.33 | 0.51 |
| RS-11 | SMRS-11-GW033111 | Pb-212 | Total | 1.55 | NA | 0.997 | NA |
| RS-11 | SMRS-11-GW033111 | Pb-214 | Filtered | 0.51 U | 3 | 0.95 | 1.5 |
| RS-11 | SMRS-11-GW033111 | Pb-214 | Suspended | 1.1 | 1.4 | 0.56 | 0.68 |
| RS-11 | SMRS-11-GW033111 | Pb-214 | Total | 1.6 | NA | 1.1 | NA |
| RS-11 | SMRS-11-GW033111 | Sb-125 | Filtered | 0.4 U | 16 | 4.6 | 7.6 |
| RS-11 | SMRS-11-GW033111 | Sb-125 | Suspended | -0.009 U | 5.9 | 1.8 | 2.9 |
| RS-11 | SMRS-11-GW033111 | Sb-125 | Total | 0.4 | NA | 4.9 | NA |
| RS-11 | SMRS-11-GW033111 | Sn-126 | Filtered | 0.72 U | 1.6 | 0.5 | 0.77 |
| RS-11 | SMRS-11-GW033111 | Sn-126 | Suspended | -0.002 U | 0.87 | 0.25 | 0.42 |
| RS-11 | SMRS-11-GW033111 | Sn-126 | Total | 0.72 | NA | 0.56 | NA |
| RS-11 | SMRS-11-GW033111 | Sr-90 | Filtered | 0.0005 U | 0.13 | 0.038 | 0.075 |
| RS-11 | SMRS-11-GW033111 | Sr-90 | Suspended | -0.037 U | 0.07 | 0.019 | 0.04 |
| RS-11 | SMRS-11-GW033111 | Sr-90 | Total | -0.037 | NA | 0.042 | NA |
| RS-11 | SMRS-11-GW033111 | Te-125m | Filtered | 0.09 U | 3.6 | 1.1 | 1.8 |
| RS-11 | SMRS-11-GW033111 | Te-125m | Suspended | -0.002 U | 1.4 | 0.4 | 0.67 |
| RS-11 | SMRS-11-GW033111 | Te-125m | Total | 0.09 | NA | 1.1 | NA |
| RS-11 | SMRS-11-GW033111 | Th-231 | Filtered | 1.47 | 0.01 | 0.096 | 0.008 |
| RS-11 | SMRS-11-GW033111 | Th-231 | Suspended | 0.0025 U | 0.0069 | 0.0025 | 0.0053 |
| RS-11 | SMRS-11-GW033111 | Th-231 | Total | 1.47 | NA | 0.096 | NA |
| RS-11 | SMRS-11-GW033111 | Th-234 | Filtered | 23.2 | 28 | 6.3 | 14 |
| RS-11 | SMRS-11-GW033111 | Th-234 | Suspended | -1.8 U | 8.8 | 2.9 | 4.3 |
| RS-11 | SMRS-11-GW033111 | Th-234 | Total | 21.4 | NA | 6.9 | NA |
| RS-11 | SMRS-11-GW033111 | Tl-208 | Filtered | 0.13 U | 2 | 0.52 | 0.94 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RS-11 | SMRS-11-GW033111 | Tl-208 | Suspended | 0.2 U | 0.78 | 0.27 | 0.37 |
| RS-11 | SMRS-11-GW033111 | Tl-208 | Total | 0.33 | NA | 0.59 | NA |
| RS-11 | SMRS-11-GW033111 | Tm-171 | Filtered | 40 U | 480 | 140 | 240 |
| RS-11 | SMRS-11-GW033111 | Tm-171 | Suspended | 23 U | 120 | 36 | 59 |
| RS-11 | SMRS-11-GW033111 | Tm-171 | Total | 60 | NA | 150 | NA |
| RS-11 | SMRS-11-GW033111 | U-233/234 | Filtered | 30.9 | 0.02 | 1.3 | 0.006 |
| RS-11 | SMRS-11-GW033111 | U-233/234 | Suspended | 0.0218 | 0.0055 | 0.0082 | 0.0043 |
| RS-11 | SMRS-11-GW033111 | U-233/234 | Total | 30.9 | NA | 1.3 | NA |
| RS-11 | SMRS-11-GW033111 | U-235/236 | Filtered | 1.47 | 0.01 | 0.096 | 0.008 |
| RS-11 | SMRS-11-GW033111 | U-235/236 | Suspended | 0.0025 U | 0.0069 | 0.0025 | 0.0053 |
| RS-11 | SMRS-11-GW033111 | U-235/236 | Total | 1.47 | NA | 0.096 | NA |
| RS-11 | SMRS-11-GW033111 | U-238 | Filtered | 28.1 | 0.02 | 1.2 | 0.006 |
| RS-11 | SMRS-11-GW033111 | U-238 | Suspended | 0.0144 | 0.0055 | 0.0068 | 0.0042 |
| RS-11 | SMRS-11-GW033111 | U-238 | Total | 28.1 | NA | 1.2 | NA |
| RS-16 | SMRS-16-GW033011 | Ac-227 | Filtered | -3.3 U | 9.2 | 2.8 | 4.4 |
| RS-16 | SMRS-16-GW033011 | Ac-227 | Suspended | -2.3 U | 4.2 | 1.3 | 2.1 |
| RS-16 | SMRS-16-GW033011 | Ac-227 | Total | -5.6 | NA | 3.1 | NA |
| RS-16 | SMRS-16-GW033011 | Ac-228 | Filtered | 2.9 | 4.9 | 1.5 | 2.2 |
| RS-16 | SMRS-16-GW033011 | Ac-228 | Suspended | 0.13 U | 3.1 | 0.83 | 1.5 |
| RS-16 | SMRS-16-GW033011 | Ac-228 | Total | 3 | NA | 1.7 | NA |
| RS-16 | SMRS-16-GW033011 | Ag-108 | Filtered | -0.02 U R | 0.1 | 0.03 | 0.047 |
| RS-16 | SMRS-16-GW033011 | Ag-108 | Suspended | 0.002 U R | 0.055 | 0.016 | 0.026 |
| RS-16 | SMRS-16-GW033011 | Ag-108 | Total | -0.018 R | NA | 0.034 | NA |
| RS-16 | SMRS-16-GW033011 | Ag-108m | Filtered | -0.22 U R | 1.1 | 0.32 | 0.51 |
| RS-16 | SMRS-16-GW033011 | Ag-108m | Suspended | 0.02 U R | 0.59 | 0.17 | 0.28 |
| RS-16 | SMRS-16-GW033011 | Ag-108m | Total | -0.2 R | NA | 0.36 | NA |
| RS-16 | SMRS-16-GW033011 | Ba-133 | Filtered | 2.6 U R | 14 | 4.1 | 6.6 |
| RS-16 | SMRS-16-GW033011 | Ba-133 | Suspended | 0.06 U R | 5.6 | 1.6 | 2.7 |
| RS-16 | SMRS-16-GW033011 | Ba-133 | Total | 2.6 R | NA | 4.4 | NA |
| RS-16 | SMRS-16-GW033011 | Ba-137m | Filtered | 0.54 U | 1.4 | 0.42 | 0.65 |
| RS-16 | SMRS-16-GW033011 | Ba-137m | Suspended | 0.08 U | 0.7 | 0.21 | 0.33 |
| RS-16 | SMRS-16-GW033011 | Ba-137m | Total | 0.62 | NA | 0.46 | NA |
| RS-16 | SMRS-16-GW033011 | Bi-212 | Filtered | 0.1 U | 11 | 3.2 | 5.3 |
| RS-16 | SMRS-16-GW033011 | Bi-212 | Suspended | 0.2 U | 5.6 | 1.6 | 2.7 |
| RS-16 | SMRS-16-GW033011 | Bi-212 | Total | 0.3 | NA | 3.6 | NA |
| RS-16 | SMRS-16-GW033011 | Bi-214 | Filtered | 5.5 | 3 | 1.3 | 1.4 |
| RS-16 | SMRS-16-GW033011 | Bi-214 | Suspended | 0.99 | 1.6 | 0.62 | 0.76 |
| RS-16 | SMRS-16-GW033011 | Bi-214 | Total | 6.5 | NA | 1.4 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RS-16 | SMRS-16-GW033011 | Cd-113m | Filtered | 5200 U | 14000 | 4200 | 6700 |
| RS-16 | SMRS-16-GW033011 | Cd-113m | Suspended | 1300 U | 6800 | 2000 | 3300 |
| RS-16 | SMRS-16-GW033011 | Cd-113m | Total | 6500 | NA | 4700 | NA |
| RS-16 | SMRS-16-GW033011 | Cf-249 | Filtered | -0.5 U R | 6.9 | 2 | 3.3 |
| RS-16 | SMRS-16-GW033011 | Cf-249 | Suspended | -0.21 U R | 2.8 | 0.84 | 1.4 |
| RS-16 | SMRS-16-GW033011 | Cf-249 | Total | -0.7 R | NA | 2.2 | NA |
| RS-16 | SMRS-16-GW033011 | Co-60 | Filtered | -0.1 U | 1.4 | 0.4 | 0.64 |
| RS-16 | SMRS-16-GW033011 | Co-60 | Suspended | 0.02 U | 0.62 | 0.17 | 0.28 |
| RS-16 | SMRS-16-GW033011 | Co-60 | Total | -0.08 | NA | 0.43 | NA |
| RS-16 | SMRS-16-GW033011 | Cs-134 | Filtered | 0.46 U | 1.1 | 0.33 | 0.51 |
| RS-16 | SMRS-16-GW033011 | Cs-134 | Suspended | -0.09 U | 0.69 | 0.2 | 0.33 |
| RS-16 | SMRS-16-GW033011 | Cs-134 | Total | 0.37 | NA | 0.39 | NA |
| RS-16 | SMRS-16-GW033011 | Cs-137 | Filtered | 0.57 U | 1.5 | 0.44 | 0.69 |
| RS-16 | SMRS-16-GW033011 | Cs-137 | Suspended | 0.08 U | 0.74 | 0.22 | 0.35 |
| RS-16 | SMRS-16-GW033011 | Cs-137 | Total | 0.65 | NA | 0.49 | NA |
| RS-16 | SMRS-16-GW033011 | Eu-152 | Filtered | -0.09 U | 3.4 | 0.98 | 1.6 |
| RS-16 | SMRS-16-GW033011 | Eu-152 | Suspended | -0.52 U | 1.8 | 0.53 | 0.86 |
| RS-16 | SMRS-16-GW033011 | Eu-152 | Total | -0.6 | NA | 1.1 | NA |
| RS-16 | SMRS-16-GW033011 | Eu-154 | Filtered | -2.6 U | 14 | 4 | 6.4 |
| RS-16 | SMRS-16-GW033011 | Eu-154 | Suspended | -1.9 U | 6 | 1.8 | 2.9 |
| RS-16 | SMRS-16-GW033011 | Eu-154 | Total | -4.5 | NA | 4.4 | NA |
| RS-16 | SMRS-16-GW033011 | Eu-155 | Filtered | 1.27 U | 3 | 0.91 | 1.5 |
| RS-16 | SMRS-16-GW033011 | Eu-155 | Suspended | 0.33 U | 1.3 | 0.38 | 0.62 |
| RS-16 | SMRS-16-GW033011 | Eu-155 | Total | 1.6 | NA | 0.99 | NA |
| RS-16 | SMRS-16-GW033011 | gross_alpha | Suspended | 2.77 | 0.4 | 0.32 | 0.21 |
| RS-16 | SMRS-16-GW033011 | gross_alpha | Total | 17.8 | NA | 1 | NA |
| RS-16 | SMRS-16-GW033011 | gross_beta | Suspended | 6.13 | 1.2 | 0.61 | 0.71 |
| RS-16 | SMRS-16-GW033011 | gross_beta | Total | 13.8 | NA | 0.97 | NA |
| RS-16 | SMRS-16-GW033011 | H-3 | Total | -21 U | 130 | 38 | 63 |
| RS-16 | SMRS-16-GW033011 | Ho-166m | Filtered | 0.9 U | 2 | 0.61 | 0.93 |
| RS-16 | SMRS-16-GW033011 | Ho-166m | Suspended | -0.27 U | 1.3 | 0.37 | 0.6 |
| RS-16 | SMRS-16-GW033011 | Ho-166m | Total | 0.63 | NA | 0.72 | NA |
| RS-16 | SMRS-16-GW033011 | K-40 | Filtered | -7 U | 24 | 13 | 11 |
| RS-16 | SMRS-16-GW033011 | K-40 | Suspended | 1.5 U | 12 | 3.5 | 5.8 |
| RS-16 | SMRS-16-GW033011 | K-40 | Total | -5 | NA | 13 | NA |
| RS-16 | SMRS-16-GW033011 | Na-22 | Filtered | 0 U | 1.7 | 0.48 | 0.8 |
| RS-16 | SMRS-16-GW033011 | Na-22 | Suspended | -0.09 U | 0.81 | 0.23 | 0.38 |
| RS-16 | SMRS-16-GW033011 | Na-22 | Total | -0.09 | NA | 0.54 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RS-16 | SMRS-16-GW033011 | Nb-94 | Filtered | -0.0008 U | 1.4 | 0.4 | 0.66 |
| RS-16 | SMRS-16-GW033011 | Nb-94 | Suspended | 0.15 U | 0.66 | 0.19 | 0.31 |
| RS-16 | SMRS-16-GW033011 | Nb-94 | Total | 0.15 | NA | 0.44 | NA |
| RS-16 | SMRS-16-GW033011 | Np-236 | Filtered | -0.43 U | 2.9 | 0.86 | 1.4 |
| RS-16 | SMRS-16-GW033011 | Np-236 | Suspended | 0.25 U | 1.2 | 0.36 | 0.58 |
| RS-16 | SMRS-16-GW033011 | Np-236 | Total | -0.18 | NA | 0.93 | NA |
| RS-16 | SMRS-16-GW033011 | Np-239 | Filtered | -0.06 U | 7.3 | 2.1 | 3.5 |
| RS-16 | SMRS-16-GW033011 | Np-239 | Suspended | 0.8 U | 3.6 | 1.1 | 1.8 |
| RS-16 | SMRS-16-GW033011 | Np-239 | Total | 0.7 | NA | 2.4 | NA |
| RS-16 | SMRS-16-GW033011 | Pa-231 | Filtered | -19 U | 61 | 18 | 29 |
| RS-16 | SMRS-16-GW033011 | Pa-231 | Suspended | 2.4 U | 25 | 7.4 | 12 |
| RS-16 | SMRS-16-GW033011 | Pa-231 | Total | -17 | NA | 20 | NA |
| RS-16 | SMRS-16-GW033011 | Pb-212 | Filtered | 0.89 U | 2.5 | 0.85 | 1.2 |
| RS-16 | SMRS-16-GW033011 | Pb-212 | Suspended | -0.07 U | 1.1 | 0.44 | 0.56 |
| RS-16 | SMRS-16-GW033011 | Pb-212 | Total | 0.82 | NA | 0.96 | NA |
| RS-16 | SMRS-16-GW033011 | Pb-214 | Filtered | 1.02 U | 3.2 | 0.86 | 1.5 |
| RS-16 | SMRS-16-GW033011 | Pb-214 | Suspended | 0.29 U | 1.4 | 0.38 | 0.67 |
| RS-16 | SMRS-16-GW033011 | Pb-214 | Total | 1.3 | NA | 0.94 | NA |
| RS-16 | SMRS-16-GW033011 | Sb-125 | Filtered | 2.8 U | 13 | 3.9 | 6.3 |
| RS-16 | SMRS-16-GW033011 | Sb-125 | Suspended | -1.2 U | 4.5 | 1.3 | 2.2 |
| RS-16 | SMRS-16-GW033011 | Sb-125 | Total | 1.7 | NA | 4.1 | NA |
| RS-16 | SMRS-16-GW033011 | Sn-126 | Filtered | -0.04 U | 1.9 | 0.54 | 0.89 |
| RS-16 | SMRS-16-GW033011 | Sn-126 | Suspended | 0.3 U | 0.83 | 0.25 | 0.4 |
| RS-16 | SMRS-16-GW033011 | Sn-126 | Total | 0.26 | NA | 0.6 | NA |
| RS-16 | SMRS-16-GW033011 | Te-125m | Filtered | 0.65 U | 3 | 0.9 | 1.5 |
| RS-16 | SMRS-16-GW033011 | Te-125m | Suspended | -0.27 U | 1 | 0.31 | 0.5 |
| RS-16 | SMRS-16-GW033011 | Te-125m | Total | 0.38 | NA | 0.96 | NA |
| RS-16 | SMRS-16-GW033011 | Th-231 | Filtered | 0.429 | 0.007 | 0.038 | 0.005 |
| RS-16 | SMRS-16-GW033011 | Th-231 | Suspended | 0.0025 U | 0.0068 | 0.0025 | 0.0052 |
| RS-16 | SMRS-16-GW033011 | Th-231 | Total | 0.431 | NA | 0.038 | NA |
| RS-16 | SMRS-16-GW033011 | Th-234 | Filtered | 15.3 | 22 | 8.1 | 11 |
| RS-16 | SMRS-16-GW033011 | Th-234 | Suspended | 4.1 U | 9 | 3 | 4.4 |
| RS-16 | SMRS-16-GW033011 | Th-234 | Total | 19.4 | NA | 8.7 | NA |
| RS-16 | SMRS-16-GW033011 | Tl-208 | Filtered | -0.33 U | 1.7 | 0.67 | 0.81 |
| RS-16 | SMRS-16-GW033011 | Tl-208 | Suspended | -0.004 U | 0.72 | 0.22 | 0.34 |
| RS-16 | SMRS-16-GW033011 | Tl-208 | Total | -0.33 | NA | 0.71 | NA |
| RS-16 | SMRS-16-GW033011 | Tm-171 | Filtered | 89 U | 320 | 97 | 160 |
| RS-16 | SMRS-16-GW033011 | Tm-171 | Suspended | 13 U | 110 | 31 | 51 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RS-16 | SMRS-16-GW033011 | Tm-171 | Total | 100 | NA | 100 | NA |
| RS-16 | SMRS-16-GW033011 | U-233/234 | Filtered | 8.18 | 0.01 | 0.37 | 0.004 |
| RS-16 | SMRS-16-GW033011 | U-233/234 | Suspended | 0.0358 | 0.0054 | 0.0098 | 0.0042 |
| RS-16 | SMRS-16-GW033011 | U-233/234 | Total | 8.22 | NA | 0.37 | NA |
| RS-16 | SMRS-16-GW033011 | U-235/236 | Filtered | 0.429 | 0.007 | 0.038 | 0.005 |
| RS-16 | SMRS-16-GW033011 | U-235/236 | Suspended | 0.0025 U | 0.0068 | 0.0025 | 0.0052 |
| RS-16 | SMRS-16-GW033011 | U-235/236 | Total | 0.431 | NA | 0.038 | NA |
| RS-16 | SMRS-16-GW033011 | U-238 | Filtered | 8.41 | 0.01 | 0.38 | 0.004 |
| RS-16 | SMRS-16-GW033011 | U-238 | Suspended | 0.0063 K | 0.0054 | 0.0053 | 0.0042 |
| RS-16 | SMRS-16-GW033011 | U-238 | Total | 8.41 | NA | 0.38 | NA |
| RS-18 | SMRS-18-GW031811 | Ac-227 | Filtered | -0.3 U | 12 | 3.6 | 6 |
| RS-18 | SMRS-18-GW031811 | Ac-227 | Suspended | -3.4 L U | 4.6 | 1.4 | 2.3 |
| RS-18 | SMRS-18-GW031811 | Ac-227 | Total | -3.7 | NA | 3.9 | NA |
| RS-18 | SMRS-18-GW031811 | Ac-228 | Filtered | 1.9 U | 4.4 | 1.3 | 2 |
| RS-18 | SMRS-18-GW031811 | Ac-228 | Suspended | -0.27 U | 2.6 | 0.81 | 1.2 |
| RS-18 | SMRS-18-GW031811 | Ac-228 | Total | 1.6 | NA | 1.6 | NA |
| RS-18 | SMRS-18-GW031811 | Ag-108 | Filtered | 0 U | 0.12 | 0.036 | 0.059 |
| RS-18 | SMRS-18-GW031811 | Ag-108 | Suspended | 0.002 U | 0.053 | 0.015 | 0.025 |
| RS-18 | SMRS-18-GW031811 | Ag-108 | Total | 0.002 | NA | 0.039 | NA |
| RS-18 | SMRS-18-GW031811 | Ag-108m | Filtered | 0 U | 1.3 | 0.38 | 0.63 |
| RS-18 | SMRS-18-GW031811 | Ag-108m | Suspended | 0.02 U | 0.57 | 0.17 | 0.27 |
| RS-18 | SMRS-18-GW031811 | Ag-108m | Total | 0.02 | NA | 0.42 | NA |
| RS-18 | SMRS-18-GW031811 | Ba-133 | Filtered | -3.5 U | 16 | 4.7 | 7.6 |
| RS-18 | SMRS-18-GW031811 | Ba-133 | Suspended | 0 U | 5.4 | 1.6 | 2.6 |
| RS-18 | SMRS-18-GW031811 | Ba-133 | Total | -3.5 | NA | 5 | NA |
| RS-18 | SMRS-18-GW031811 | Ba-137m | Filtered | 0.37 U | 1.5 | 0.45 | 0.71 |
| RS-18 | SMRS-18-GW031811 | Ba-137m | Suspended | -0.1 U | 0.7 | 0.21 | 0.34 |
| RS-18 | SMRS-18-GW031811 | Ba-137m | Total | 0.28 | NA | 0.49 | NA |
| RS-18 | SMRS-18-GW031811 | Bi-212 | Filtered | -8 U | 10 | 1300 | 6 |
| RS-18 | SMRS-18-GW031811 | Bi-212 | Suspended | 1.5 U | 5.7 | 1.7 | 2.7 |
| RS-18 | SMRS-18-GW031811 | Bi-212 | Total | -7 | NA | 1300 | NA |
| RS-18 | SMRS-18-GW031811 | Bi-214 | Filtered | 1.4 U | 3.5 | 0.94 | 1.6 |
| RS-18 | SMRS-18-GW031811 | Bi-214 | Suspended | 0.33 U | 1.8 | 0.68 | 0.86 |
| RS-18 | SMRS-18-GW031811 | Bi-214 | Total | 1.7 | NA | 1.2 | NA |
| RS-18 | SMRS-18-GW031811 | Cd-113m | Filtered | -2600 U | 16000 | 4700 | 7600 |
| RS-18 | SMRS-18-GW031811 | Cd-113m | Suspended | 2200 U | 6000 | 1800 | 2900 |
| RS-18 | SMRS-18-GW031811 | Cd-113m | Total | -400 | NA | 5000 | NA |
| RS-18 | SMRS-18-GW031811 | Cf-249 | Filtered | 0.9 U | 4.7 | 1.4 | 2.2 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RS-18 | SMRS-18-GW031811 | Cf-249 | Suspended | 0.79 U | 2.3 | 0.7 | 1.1 |
| RS-18 | SMRS-18-GW031811 | Cf-249 | Total | 1.7 | NA | 1.5 | NA |
| RS-18 | SMRS-18-GW031811 | Co-60 | Filtered | 0.28 U | 1.6 | 0.46 | 0.72 |
| RS-18 | SMRS-18-GW031811 | Co-60 | Suspended | 0.11 U | 0.77 | 0.22 | 0.36 |
| RS-18 | SMRS-18-GW031811 | Co-60 | Total | 0.39 | NA | 0.51 | NA |
| RS-18 | SMRS-18-GW031811 | Cs-134 | Filtered | 0.0002 U | 1.5 | 0.42 | 0.7 |
| RS-18 | SMRS-18-GW031811 | Cs-134 | Suspended | 0.08 U | 0.71 | 0.21 | 0.34 |
| RS-18 | SMRS-18-GW031811 | Cs-134 | Total | 0.08 | NA | 0.47 | NA |
| RS-18 | SMRS-18-GW031811 | Cs-137 | Filtered | 0.39 U | 1.6 | 0.47 | 0.75 |
| RS-18 | SMRS-18-GW031811 | Cs-137 | Suspended | -0.1 U | 0.74 | 0.22 | 0.36 |
| RS-18 | SMRS-18-GW031811 | Cs-137 | Total | 0.29 | NA | 0.52 | NA |
| RS-18 | SMRS-18-GW031811 | Eu-152 | Filtered | 0.22 U | 2.9 | 0.84 | 1.4 |
| RS-18 | SMRS-18-GW031811 | Eu-152 | Suspended | 0.25 U | 1.6 | 0.47 | 0.76 |
| RS-18 | SMRS-18-GW031811 | Eu-152 | Total | 0.47 | NA | 0.96 | NA |
| RS-18 | SMRS-18-GW031811 | Eu-154 | Filtered | 0.8 U | 12 | 3.5 | 5.7 |
| RS-18 | SMRS-18-GW031811 | Eu-154 | Suspended | 0.1 U | 6.1 | 1.8 | 2.9 |
| RS-18 | SMRS-18-GW031811 | Eu-154 | Total | 1 | NA | 3.9 | NA |
| RS-18 | SMRS-18-GW031811 | Eu-155 | Filtered | 0.4 U | 3.1 | 0.92 | 1.5 |
| RS-18 | SMRS-18-GW031811 | Eu-155 | Suspended | 0.34 U | 1.2 | 0.36 | 0.58 |
| RS-18 | SMRS-18-GW031811 | Eu-155 | Total | 0.74 | NA | 0.99 | NA |
| RS-18 | SMRS-18-GW031811 | gross_alpha | Filtered | 14.8 L | 0.47 | 0.92 | 0.25 |
| RS-18 | SMRS-18-GW031811 | gross_alpha | Suspended | 2.01 | 0.56 | 0.33 | 0.29 |
| RS-18 | SMRS-18-GW031811 | gross_alpha | Total | 16.8 | NA | 0.98 | NA |
| RS-18 | SMRS-18-GW031811 | gross_beta | Filtered | 5.9 | 3.1 | 1.2 | 1.8 |
| RS-18 | SMRS-18-GW031811 | gross_beta | Suspended | 2.2 | 1 | 0.4 | 0.6 |
| RS-18 | SMRS-18-GW031811 | gross_beta | Total | 8.1 | NA | 1.2 | NA |
| RS-18 | SMRS-18-GW031811 | H-3 | Total | 26 U | 150 | 45 | 73 |
| RS-18 | SMRS-18-GW031811 | Ho-166m | Filtered | -0.68 U | 2.6 | 0.76 | 1.2 |
| RS-18 | SMRS-18-GW031811 | Ho-166m | Suspended | 0.003 U | 1.2 | 0.34 | 0.56 |
| RS-18 | SMRS-18-GW031811 | Ho-166m | Total | -0.68 | NA | 0.83 | NA |
| RS-18 | SMRS-18-GW031811 | K-40 | Filtered | -13 U | 24 | 18 | 11 |
| RS-18 | SMRS-18-GW031811 | K-40 | Suspended | -1.1 U | 12 | 3.4 | 5.7 |
| RS-18 | SMRS-18-GW031811 | K-40 | Total | -14 | NA | 18 | NA |
| RS-18 | SMRS-18-GW031811 | Na-22 | Filtered | -0.13 U | 1.6 | 0.44 | 0.71 |
| RS-18 | SMRS-18-GW031811 | Na-22 | Suspended | 0.23 U | 0.68 | 0.2 | 0.32 |
| RS-18 | SMRS-18-GW031811 | Na-22 | Total | 0.1 | NA | 0.49 | NA |
| RS-18 | SMRS-18-GW031811 | Nb-94 | Filtered | 0.33 U | 1.2 | 0.35 | 0.55 |
| RS-18 | SMRS-18-GW031811 | Nb-94 | Suspended | -0.07 U | 0.65 | 0.19 | 0.31 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RS-18 | SMRS-18-GW031811 | Nb-94 | Total | 0.26 | NA | 0.4 | NA |
| RS-18 | SMRS-18-GW031811 | Np-236 | Filtered | 0.1 U | 2.9 | 0.84 | 1.4 |
| RS-18 | SMRS-18-GW031811 | Np-236 | Suspended | -0.26 U | 1.1 | 0.33 | 0.54 |
| RS-18 | SMRS-18-GW031811 | Np-236 | Total | -0.17 | NA | 0.91 | NA |
| RS-18 | SMRS-18-GW031811 | Np-239 | Filtered | 2.9 U | 8.3 | 2.5 | 4 |
| RS-18 | SMRS-18-GW031811 | Np-239 | Suspended | -0.05 U | 3.7 | 1.1 | 1.8 |
| RS-18 | SMRS-18-GW031811 | Np-239 | Total | 2.8 | NA | 2.7 | NA |
| RS-18 | SMRS-18-GW031811 | Pa-231 | Filtered | -18 U | 62 | 18 | 30 |
| RS-18 | SMRS-18-GW031811 | Pa-231 | Suspended | 1.5 U | 23 | 6.7 | 11 |
| RS-18 | SMRS-18-GW031811 | Pa-231 | Total | -17 | NA | 20 | NA |
| RS-18 | SMRS-18-GW031811 | Pb-212 | Filtered | 1.35 | 2.5 | 0.9 | 1.2 |
| RS-18 | SMRS-18-GW031811 | Pb-212 | Suspended | -0.4 U | 1 | 0.42 | 0.51 |
| RS-18 | SMRS-18-GW031811 | Pb-212 | Total | 0.95 | NA | 0.99 | NA |
| RS-18 | SMRS-18-GW031811 | Pb-214 | Filtered | 1.5 | 3.2 | 1.1 | 1.5 |
| RS-18 | SMRS-18-GW031811 | Pb-214 | Suspended | -0.81 U | 1.7 | 0.78 | 0.81 |
| RS-18 | SMRS-18-GW031811 | Pb-214 | Total | 0.7 | NA | 1.4 | NA |
| RS-18 | SMRS-18-GW031811 | Sb-125 | Filtered | -3.4 U | 14 | 4.3 | 6.9 |
| RS-18 | SMRS-18-GW031811 | Sb-125 | Suspended | -0.06 U | 5.7 | 1.7 | 2.8 |
| RS-18 | SMRS-18-GW031811 | Sb-125 | Total | -3.5 | NA | 4.6 | NA |
| RS-18 | SMRS-18-GW031811 | Sn-126 | Filtered | 0.32 U | 1.5 | 0.44 | 0.7 |
| RS-18 | SMRS-18-GW031811 | Sn-126 | Suspended | 0.32 U | 0.77 | 0.23 | 0.37 |
| RS-18 | SMRS-18-GW031811 | Sn-126 | Total | 0.64 | NA | 0.5 | NA |
| RS-18 | SMRS-18-GW031811 | Sr-90 | Filtered | 0.077 U | 0.18 | 0.055 | 0.11 |
| RS-18 | SMRS-18-GW031811 | Sr-90 | Suspended | 0.055 U | 0.15 | 0.045 | 0.089 |
| RS-18 | SMRS-18-GW031811 | Sr-90 | Total | 0.132 | NA | 0.071 | NA |
| RS-18 | SMRS-18-GW031811 | Te-125m | Filtered | -0.8 U | 3.3 | 0.98 | 1.6 |
| RS-18 | SMRS-18-GW031811 | Te-125m | Suspended | -0.01 U | 1.3 | 0.39 | 0.64 |
| RS-18 | SMRS-18-GW031811 | Te-125m | Total | -0.8 | NA | 1.1 | NA |
| RS-18 | SMRS-18-GW031811 | Th-231 | Filtered | 0.34 | 0.008 | 0.035 | 0.006 |
| RS-18 | SMRS-18-GW031811 | Th-231 | Suspended | 0 U | 0.006 | 0.0018 | 0.0046 |
| RS-18 | SMRS-18-GW031811 | Th-231 | Total | 0.34 | NA | 0.035 | NA |
| RS-18 | SMRS-18-GW031811 | Th-234 | Filtered | -5 U | 22 | 7.9 | 10 |
| RS-18 | SMRS-18-GW031811 | Th-234 | Suspended | 2 U | 8.6 | 2.8 | 4.2 |
| RS-18 | SMRS-18-GW031811 | Th-234 | Total | -3 | NA | 8.4 | NA |
| RS-18 | SMRS-18-GW031811 | Tl-208 | Filtered | 0.22 U | 1.8 | 0.48 | 0.86 |
| RS-18 | SMRS-18-GW031811 | Tl-208 | Suspended | 0.27 U | 0.73 | 0.25 | 0.35 |
| RS-18 | SMRS-18-GW031811 | Tl-208 | Total | 0.48 | NA | 0.55 | NA |
| RS-18 | SMRS-18-GW031811 | Tm-171 | Filtered | 4 U | 340 | 100 | 170 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RS-18 | SMRS-18-GW031811 | Tm-171 | Suspended | -8 U | 100 | 31 | 50 |
| RS-18 | SMRS-18-GW031811 | Tm-171 | Total | -4 | NA | 100 | NA |
| RS-18 | SMRS-18-GW031811 | U-233/234 | Filtered | 7.07 | 0.02 | 0.32 | 0.005 |
| RS-18 | SMRS-18-GW031811 | U-233/234 | Suspended | 0.04 | 0.017 | 0.01 | 0.006 |
| RS-18 | SMRS-18-GW031811 | U-233/234 | Total | 7.11 | NA | 0.32 | NA |
| RS-18 | SMRS-18-GW031811 | U-235/236 | Filtered | 0.34 | 0.008 | 0.035 | 0.006 |
| RS-18 | SMRS-18-GW031811 | U-235/236 | Suspended | 0 U | 0.006 | 0.0018 | 0.0046 |
| RS-18 | SMRS-18-GW031811 | U-235/236 | Total | 0.34 | NA | 0.035 | NA |
| RS-18 | SMRS-18-GW031811 | U-238 | Filtered | 6.75 | 0.02 | 0.31 | 0.005 |
| RS-18 | SMRS-18-GW031811 | U-238 | Suspended | 0.0373 | 0.0048 | 0.009 | 0.0037 |
| RS-18 | SMRS-18-GW031811 | U-238 | Total | 6.79 | NA | 0.31 | NA |
| RS-23 | SMRS-23-GW032111 | Ac-227 | Filtered | -5.1 U | 9.6 | 2.9 | 4.7 |
| RS-23 | SMRS-23-GW032111 | Ac-227 | Suspended | -1 U | 3.3 | 0.99 | 1.6 |
| RS-23 | SMRS-23-GW032111 | Ac-227 | Total | -6.1 | NA | 3.1 | NA |
| RS-23 | SMRS-23-GW032111 | Ac-228 | Filtered | -0.2 U | 4.4 | 1.3 | 2.1 |
| RS-23 | SMRS-23-GW032111 | Ac-228 | Suspended | 1.6 | 1.7 | 0.55 | 0.78 |
| RS-23 | SMRS-23-GW032111 | Ac-228 | Total | 1.4 | NA | 1.4 | NA |
| RS-23 | SMRS-23-GW032111 | Ag-108 | Filtered | 0.031 U R | 0.086 | 0.026 | 0.041 |
| RS-23 | SMRS-23-GW032111 | Ag-108 | Suspended | 0.002 U R | 0.037 | 0.011 | 0.018 |
| RS-23 | SMRS-23-GW032111 | Ag-108 | Total | 0.033 R | NA | 0.028 | NA |
| RS-23 | SMRS-23-GW032111 | Ag-108m | Filtered | 0.34 U R | 0.93 | 0.28 | 0.44 |
| RS-23 | SMRS-23-GW032111 | Ag-108m | Suspended | 0.02 U R | 0.4 | 0.12 | 0.19 |
| RS-23 | SMRS-23-GW032111 | Ag-108m | Total | 0.36 R | NA | 0.3 | NA |
| RS-23 | SMRS-23-GW032111 | Ba-133 | Filtered | -0.7 U R | 10 | 3.1 | 5 |
| RS-23 | SMRS-23-GW032111 | Ba-133 | Suspended | 0.9 U R | 4.5 | 1.3 | 2.2 |
| RS-23 | SMRS-23-GW032111 | Ba-133 | Total | 0.2 R | NA | 3.4 | NA |
| RS-23 | SMRS-23-GW032111 | Ba-137m | Filtered | -0.2 U | 1.1 | 0.32 | 0.52 |
| RS-23 | SMRS-23-GW032111 | Ba-137m | Suspended | -0.02 U | 0.57 | 0.16 | 0.27 |
| RS-23 | SMRS-23-GW032111 | Ba-137m | Total | -0.22 | NA | 0.36 | NA |
| RS-23 | SMRS-23-GW032111 | Bi-212 | Filtered | 8.5 | 8.6 | 3.4 | 4.1 |
| RS-23 | SMRS-23-GW032111 | Bi-212 | Suspended | 3.1 | 3.9 | 1.2 | 1.8 |
| RS-23 | SMRS-23-GW032111 | Bi-212 | Total | 11.7 | NA | 3.6 | NA |
| RS-23 | SMRS-23-GW032111 | Bi-214 | Filtered | 3.1 | 2.8 | 1.1 | 1.3 |
| RS-23 | SMRS-23-GW032111 | Bi-214 | Suspended | 1.14 | 1.3 | 0.51 | 0.61 |
| RS-23 | SMRS-23-GW032111 | Bi-214 | Total | 4.3 | NA | 1.2 | NA |
| RS-23 | SMRS-23-GW032111 | Cd-113m | Filtered | -1900 U | 14000 | 4100 | 6700 |
| RS-23 | SMRS-23-GW032111 | Cd-113m | Suspended | 2100 | 4000 | 1200 | 1900 |
| RS-23 | SMRS-23-GW032111 | Cd-113m | Total | 200 | NA | 4300 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| RS-23 | SMRS-23-GW032111 | Cf-249 | Filtered | 0.9 U R | 5.5 | 1.6 | 2.6 |
| RS-23 | SMRS-23-GW032111 | Cf-249 | Suspended | 0.1 U R | 2 | 0.57 | 0.94 |
| RS-23 | SMRS-23-GW032111 | Cf-249 | Total | 1 R | NA | 1.7 | NA |
| RS-23 | SMRS-23-GW032111 | Co-60 | Filtered | 0.16 U | 1 | 0.29 | 0.47 |
| RS-23 | SMRS-23-GW032111 | Co-60 | Suspended | 0.23 U | 0.57 | 0.17 | 0.26 |
| RS-23 | SMRS-23-GW032111 | Co-60 | Total | 0.39 | NA | 0.34 | NA |
| RS-23 | SMRS-23-GW032111 | Cs-134 | Filtered | -0.39 U | 1.3 | 0.4 | 0.64 |
| RS-23 | SMRS-23-GW032111 | Cs-134 | Suspended | 0.61 SK | 0.41 | 0.18 | 0.19 |
| RS-23 | SMRS-23-GW032111 | Cs-134 | Total | 0.23 SK | NA | 0.44 | NA |
| RS-23 | SMRS-23-GW032111 | Cs-137 | Filtered | -0.21 U | 1.2 | 0.34 | 0.55 |
| RS-23 | SMRS-23-GW032111 | Cs-137 | Suspended | -0.02 U | 0.6 | 0.17 | 0.28 |
| RS-23 | SMRS-23-GW032111 | Cs-137 | Total | -0.24 | NA | 0.38 | NA |
| RS-23 | SMRS-23-GW032111 | Eu-152 | Filtered | 1.31 U | 3.1 | 0.95 | 1.5 |
| RS-23 | SMRS-23-GW032111 | Eu-152 | Suspended | -0.32 U | 1.2 | 0.36 | 0.58 |
| RS-23 | SMRS-23-GW032111 | Eu-152 | Total | 1 | NA | 1 | NA |
| RS-23 | SMRS-23-GW032111 | Eu-154 | Filtered | 0.4 U | 7.4 | 2.1 | 3.4 |
| RS-23 | SMRS-23-GW032111 | Eu-154 | Suspended | 0.1 U | 4.3 | 1.2 | 2 |
| RS-23 | SMRS-23-GW032111 | Eu-154 | Total | 0.5 | NA | 2.4 | NA |
| RS-23 | SMRS-23-GW032111 | Eu-155 | Filtered | -0.01 U | 2.9 | 0.86 | 1.4 |
| RS-23 | SMRS-23-GW032111 | Eu-155 | Suspended | -0.27 U | 1.1 | 0.32 | 0.52 |
| RS-23 | SMRS-23-GW032111 | Eu-155 | Total | -0.28 | NA | 0.91 | NA |
| RS-23 | SMRS-23-GW032111 | gross_alpha | Filtered | 74.1 | 0.5 | 3.4 | 0.2 |
| RS-23 | SMRS-23-GW032111 | gross_alpha | Suspended | 142 | 1.3 | 6.4 | 0.7 |
| RS-23 | SMRS-23-GW032111 | gross_alpha | Total | 216 | NA | 7.3 | NA |
| RS-23 | SMRS-23-GW032111 | gross_beta | Filtered | 32.1 | 2.2 | 1.9 | 1.2 |
| RS-23 | SMRS-23-GW032111 | gross_beta | Suspended | 281 | 2 | 11 | 0.9 |
| RS-23 | SMRS-23-GW032111 | gross_beta | Total | 313 | NA | 11 | NA |
| RS-23 | SMRS-23-GW032111 | H-3 | Total | 43 U | 150 | 44 | 72 |
| RS-23 | SMRS-23-GW032111 | Ho-166m | Filtered | 0.51 U | 1.8 | 0.53 | 0.85 |
| RS-23 | SMRS-23-GW032111 | Ho-166m | Suspended | 0.09 U | 0.83 | 0.24 | 0.39 |
| RS-23 | SMRS-23-GW032111 | Ho-166m | Total | 0.61 | NA | 0.58 | NA |
| RS-23 | SMRS-23-GW032111 | K-40 | Filtered | 0.3 U | 18 | 4.5 | 8.4 |
| RS-23 | SMRS-23-GW032111 | K-40 | Suspended | 6.9 | 8.3 | 2.9 | 3.9 |
| RS-23 | SMRS-23-GW032111 | K-40 | Total | 7.2 | NA | 5.4 | NA |
| RS-23 | SMRS-23-GW032111 | Na-22 | Filtered | 0.0005 U | 1.1 | 0.3 | 0.49 |
| RS-23 | SMRS-23-GW032111 | Na-22 | Suspended | 0.15 U | 0.51 | 0.15 | 0.23 |
| RS-23 | SMRS-23-GW032111 | Na-22 | Total | 0.15 | NA | 0.33 | NA |
| RS-23 | SMRS-23-GW032111 | Nb-94 | Filtered | 0.12 U | 0.94 | 0.27 | 0.44 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|--------|----------------|
| RS-23 | SMRS-23-GW032111 | Nb-94 | Suspended | -0.008 U | 0.54 | 0.16 | 0.26 |
| RS-23 | SMRS-23-GW032111 | Nb-94 | Total | 0.11 | NA | 0.31 | NA |
| RS-23 | SMRS-23-GW032111 | Np-236 | Filtered | 0.3 U | 2.4 | 0.72 | 1.2 |
| RS-23 | SMRS-23-GW032111 | Np-236 | Suspended | -0.06 U | 0.95 | 0.28 | 0.46 |
| RS-23 | SMRS-23-GW032111 | Np-236 | Total | 0.24 | NA | 0.78 | NA |
| RS-23 | SMRS-23-GW032111 | Np-239 | Filtered | 0.3 U | 7.5 | 2.2 | 3.7 |
| RS-23 | SMRS-23-GW032111 | Np-239 | Suspended | 0.37 U | 3 | 0.88 | 1.4 |
| RS-23 | SMRS-23-GW032111 | Np-239 | Total | 0.6 | NA | 2.4 | NA |
| RS-23 | SMRS-23-GW032111 | Pa-231 | Filtered | 0.3 U | 51 | 15 | 25 |
| RS-23 | SMRS-23-GW032111 | Pa-231 | Suspended | 3 U | 21 | 6.2 | 10 |
| RS-23 | SMRS-23-GW032111 | Pa-231 | Total | 3 | NA | 16 | NA |
| RS-23 | SMRS-23-GW032111 | Pb-212 | Filtered | 0.14 U | 2.3 | 0.72 | 1.1 |
| RS-23 | SMRS-23-GW032111 | Pb-212 | Suspended | 0.54 | 0.66 | 0.24 | 0.32 |
| RS-23 | SMRS-23-GW032111 | Pb-212 | Total | 0.68 | NA | 0.76 | NA |
| RS-23 | SMRS-23-GW032111 | Pb-214 | Filtered | 0.19 U | 2.4 | 0.74 | 1.1 |
| RS-23 | SMRS-23-GW032111 | Pb-214 | Suspended | 0.36 U | 1.1 | 0.31 | 0.53 |
| RS-23 | SMRS-23-GW032111 | Pb-214 | Total | 0.55 | NA | 0.81 | NA |
| RS-23 | SMRS-23-GW032111 | Sb-125 | Filtered | -2 U | 12 | 3.6 | 5.9 |
| RS-23 | SMRS-23-GW032111 | Sb-125 | Suspended | -0.3 U | 4.8 | 1.4 | 2.3 |
| RS-23 | SMRS-23-GW032111 | Sb-125 | Total | -2.3 | NA | 3.9 | NA |
| RS-23 | SMRS-23-GW032111 | Sn-126 | Filtered | 0.27 U | 1.2 | 0.36 | 0.59 |
| RS-23 | SMRS-23-GW032111 | Sn-126 | Suspended | 0.31 | 0.54 | 0.17 | 0.26 |
| RS-23 | SMRS-23-GW032111 | Sn-126 | Total | 0.59 | NA | 0.4 | NA |
| RS-23 | SMRS-23-GW032111 | Sr-90 | Filtered | 0.017 U | 0.053 | 0.016 | 0.03 |
| RS-23 | SMRS-23-GW032111 | Sr-90 | Suspended | 0.26 | 0.15 | 0.054 | 0.087 |
| RS-23 | SMRS-23-GW032111 | Sr-90 | Total | 0.277 | NA | 0.056 | NA |
| RS-23 | SMRS-23-GW032111 | Te-125m | Filtered | -0.47 U | 2.8 | 0.83 | 1.4 |
| RS-23 | SMRS-23-GW032111 | Te-125m | Suspended | -0.06 U | 1.1 | 0.33 | 0.53 |
| RS-23 | SMRS-23-GW032111 | Te-125m | Total | -0.53 | NA | 0.89 | NA |
| RS-23 | SMRS-23-GW032111 | Th-231 | Filtered | 0.057 | 0.007 | 0.012 | 0.005 |
| RS-23 | SMRS-23-GW032111 | Th-231 | Suspended | 0.0143 | 0.013 | 0.0083 | 0.0099 |
| RS-23 | SMRS-23-GW032111 | Th-231 | Total | 0.072 | NA | 0.015 | NA |
| RS-23 | SMRS-23-GW032111 | Th-234 | Filtered | 12.6 | 22 | 7.9 | 11 |
| RS-23 | SMRS-23-GW032111 | Th-234 | Suspended | 0.4 U | 5.5 | 1.6 | 2.7 |
| RS-23 | SMRS-23-GW032111 | Th-234 | Total | 13 | NA | 8 | NA |
| RS-23 | SMRS-23-GW032111 | Tl-208 | Filtered | 0.72 | 1.3 | 0.44 | 0.62 |
| RS-23 | SMRS-23-GW032111 | Tl-208 | Suspended | 0.04 U | 0.59 | 0.16 | 0.28 |
| RS-23 | SMRS-23-GW032111 | Tl-208 | Total | 0.76 | NA | 0.47 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| RS-23 | SMRS-23-GW032111 | Tm-171 | Filtered | -120 U | 340 | 100 | 170 |
| RS-23 | SMRS-23-GW032111 | Tm-171 | Suspended | 20 U | 92 | 28 | 45 |
| RS-23 | SMRS-23-GW032111 | Tm-171 | Total | -100 | NA | 110 | NA |
| RS-23 | SMRS-23-GW032111 | U-233/234 | Filtered | 1.02 | 0.006 | 0.063 | 0.004 |
| RS-23 | SMRS-23-GW032111 | U-233/234 | Suspended | 0.233 | 0.01 | 0.033 | 0.008 |
| RS-23 | SMRS-23-GW032111 | U-233/234 | Total | 1.26 | NA | 0.071 | NA |
| RS-23 | SMRS-23-GW032111 | U-235/236 | Filtered | 0.057 | 0.007 | 0.012 | 0.005 |
| RS-23 | SMRS-23-GW032111 | U-235/236 | Suspended | 0.0143 | 0.013 | 0.0083 | 0.0099 |
| RS-23 | SMRS-23-GW032111 | U-235/236 | Total | 0.072 | NA | 0.015 | NA |
| RS-23 | SMRS-23-GW032111 | U-238 | Filtered | 0.838 | 0.014 | 0.055 | 0.004 |
| RS-23 | SMRS-23-GW032111 | U-238 | Suspended | 0.184 | 0.01 | 0.029 | 0.008 |
| RS-23 | SMRS-23-GW032111 | U-238 | Total | 1.02 | NA | 0.062 | NA |
| RS-25 | SMRS-25-GW032411 | Ac-227 | Filtered | -8.6 L U | 12 | 3.7 | 5.8 |
| RS-25 | SMRS-25-GW032411 | Ac-227 | Suspended | 0.2 U | 7.5 | 2.2 | 3.7 |
| RS-25 | SMRS-25-GW032411 | Ac-227 | Total | -8.4 | NA | 4.3 | NA |
| RS-25 | SMRS-25-GW032411 | Ac-228 | Filtered | 3.1 | 4.9 | 1.5 | 2.3 |
| RS-25 | SMRS-25-GW032411 | Ac-228 | Suspended | 4.42 | 2.4 | 0.8 | 1.1 |
| RS-25 | SMRS-25-GW032411 | Ac-228 | Total | 7.5 | NA | 1.7 | NA |
| RS-25 | SMRS-25-GW032411 | Ag-108 | Filtered | 0.012 U R | 0.12 | 0.035 | 0.056 |
| RS-25 | SMRS-25-GW032411 | Ag-108 | Suspended | 0.009 U R | 0.048 | 0.014 | 0.023 |
| RS-25 | SMRS-25-GW032411 | Ag-108 | Total | 0.021 R | NA | 0.037 | NA |
| RS-25 | SMRS-25-GW032411 | Ag-108m | Filtered | 0.13 U R | 1.3 | 0.37 | 0.61 |
| RS-25 | SMRS-25-GW032411 | Ag-108m | Suspended | 0.1 U R | 0.52 | 0.15 | 0.25 |
| RS-25 | SMRS-25-GW032411 | Ag-108m | Total | 0.22 R | NA | 0.4 | NA |
| RS-25 | SMRS-25-GW032411 | Ba-133 | Filtered | -3.5 U R | 15 | 4.4 | 7.1 |
| RS-25 | SMRS-25-GW032411 | Ba-133 | Suspended | -0.2 U R | 4.8 | 1.4 | 2.3 |
| RS-25 | SMRS-25-GW032411 | Ba-133 | Total | -3.7 R | NA | 4.6 | NA |
| RS-25 | SMRS-25-GW032411 | Ba-137m | Filtered | 0.53 U | 1.3 | 0.4 | 0.62 |
| RS-25 | SMRS-25-GW032411 | Ba-137m | Suspended | 0.33 | 0.58 | 0.18 | 0.27 |
| RS-25 | SMRS-25-GW032411 | Ba-137m | Total | 0.86 | NA | 0.44 | NA |
| RS-25 | SMRS-25-GW032411 | Bi-212 | Filtered | -4.8 U | 13 | 3.9 | 6.1 |
| RS-25 | SMRS-25-GW032411 | Bi-212 | Suspended | 0.9 U | 5.2 | 1.5 | 2.5 |
| RS-25 | SMRS-25-GW032411 | Bi-212 | Total | -4 | NA | 4.2 | NA |
| RS-25 | SMRS-25-GW032411 | Bi-214 | Filtered | 1.1 U | 3.4 | 1.2 | 1.6 |
| RS-25 | SMRS-25-GW032411 | Bi-214 | Suspended | 1.36 | 1.7 | 0.62 | 0.8 |
| RS-25 | SMRS-25-GW032411 | Bi-214 | Total | 2.4 | NA | 1.3 | NA |
| RS-25 | SMRS-25-GW032411 | Cd-113m | Filtered | 2400 U | 18000 | 5300 | 8600 |
| RS-25 | SMRS-25-GW032411 | Cd-113m | Suspended | -400 U | 7600 | 2200 | 3700 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|------|------|----------------|
| RS-25 | SMRS-25-GW032411 | Cd-113m | Total | 2000 | NA | 5700 | NA |
| RS-25 | SMRS-25-GW032411 | Cf-249 | Filtered | 1.7 U R | 5.7 | 1.7 | 2.7 |
| RS-25 | SMRS-25-GW032411 | Cf-249 | Suspended | -0.35 U R | 3.2 | 0.96 | 1.6 |
| RS-25 | SMRS-25-GW032411 | Cf-249 | Total | 1.3 R | NA | 1.9 | NA |
| RS-25 | SMRS-25-GW032411 | Co-60 | Filtered | 0.03 U | 1.6 | 0.44 | 0.71 |
| RS-25 | SMRS-25-GW032411 | Co-60 | Suspended | 0.18 U | 0.72 | 0.21 | 0.33 |
| RS-25 | SMRS-25-GW032411 | Co-60 | Total | 0.21 | NA | 0.48 | NA |
| RS-25 | SMRS-25-GW032411 | Cs-134 | Filtered | -0.19 U | 1.5 | 0.45 | 0.73 |
| RS-25 | SMRS-25-GW032411 | Cs-134 | Suspended | -0.01 U | 0.82 | 0.24 | 0.4 |
| RS-25 | SMRS-25-GW032411 | Cs-134 | Total | -0.2 | NA | 0.51 | NA |
| RS-25 | SMRS-25-GW032411 | Cs-137 | Filtered | 0.56 U | 1.4 | 0.42 | 0.66 |
| RS-25 | SMRS-25-GW032411 | Cs-137 | Suspended | 0.35 | 0.62 | 0.19 | 0.29 |
| RS-25 | SMRS-25-GW032411 | Cs-137 | Total | 0.9 | NA | 0.46 | NA |
| RS-25 | SMRS-25-GW032411 | Eu-152 | Filtered | 1 U | 3.7 | 1.1 | 1.8 |
| RS-25 | SMRS-25-GW032411 | Eu-152 | Suspended | 0.33 U | 1.7 | 0.5 | 0.81 |
| RS-25 | SMRS-25-GW032411 | Eu-152 | Total | 1.3 | NA | 1.2 | NA |
| RS-25 | SMRS-25-GW032411 | Eu-154 | Filtered | 3.8 U | 12 | 3.7 | 5.8 |
| RS-25 | SMRS-25-GW032411 | Eu-154 | Suspended | -1.2 U | 6.1 | 1.8 | 2.9 |
| RS-25 | SMRS-25-GW032411 | Eu-154 | Total | 2.6 | NA | 4.1 | NA |
| RS-25 | SMRS-25-GW032411 | Eu-155 | Filtered | -0.7 U | 3.9 | 1.2 | 1.9 |
| RS-25 | SMRS-25-GW032411 | Eu-155 | Suspended | 0.68 | 1.2 | 0.36 | 0.57 |
| RS-25 | SMRS-25-GW032411 | Eu-155 | Total | -0.03 | NA | 1.2 | NA |
| RS-25 | SMRS-25-GW032411 | gross_alpha | Filtered | 4.41 | 0.58 | 0.45 | 0.31 |
| RS-25 | SMRS-25-GW032411 | gross_alpha | Suspended | 5.75 | 0.72 | 0.62 | 0.37 |
| RS-25 | SMRS-25-GW032411 | gross_alpha | Total | 10.2 | NA | 0.77 | NA |
| RS-25 | SMRS-25-GW032411 | gross_beta | Filtered | 2.34 K | 2.5 | 0.87 | 1.5 |
| RS-25 | SMRS-25-GW032411 | gross_beta | Suspended | 30 | 1.2 | 1.5 | 0.7 |
| RS-25 | SMRS-25-GW032411 | gross_beta | Total | 32.3 | NA | 1.7 | NA |
| RS-25 | SMRS-25-GW082510 | H-3 | Filtered | -15 U | 130 | 40 | 66 |
| RS-25 | SMRS-25-GW082510 | H-3 | Suspended | 14.3 R | 13 | 4.7 | 5.6 |
| RS-25 | SMRS-25-GW082510 | H-3 | Total | -0.9 R | NA | 40 | NA |
| RS-25 | SMRS-25-GW032411 | H-3 | Total | -7 U | 140 | 42 | 70 |
| RS-25 | SMRS-25-GW032411 | Ho-166m | Filtered | -0.62 U | 2.6 | 0.77 | 1.2 |
| RS-25 | SMRS-25-GW032411 | Ho-166m | Suspended | 0.45 U | 1.1 | 0.34 | 0.53 |
| RS-25 | SMRS-25-GW032411 | Ho-166m | Total | -0.17 | NA | 0.84 | NA |
| RS-25 | SMRS-25-GW032411 | K-40 | Filtered | 8.2 U | 23 | 8 | 11 |
| RS-25 | SMRS-25-GW032411 | K-40 | Suspended | 12.8 | 10 | 3.7 | 4.8 |
| RS-25 | SMRS-25-GW032411 | K-40 | Total | 21 | NA | 8.9 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RS-25 | SMRS-25-GW032411 | Na-22 | Filtered | 0.39 U | 1.3 | 0.39 | 0.6 |
| RS-25 | SMRS-25-GW032411 | Na-22 | Suspended | -0.1 U | 0.82 | 0.24 | 0.38 |
| RS-25 | SMRS-25-GW032411 | Na-22 | Total | 0.29 | NA | 0.46 | NA |
| RS-25 | SMRS-25-GW032411 | Nb-94 | Filtered | 0.05 U | 1.5 | 0.43 | 0.7 |
| RS-25 | SMRS-25-GW032411 | Nb-94 | Suspended | -0.07 U | 0.59 | 0.17 | 0.28 |
| RS-25 | SMRS-25-GW032411 | Nb-94 | Total | -0.02 | NA | 0.46 | NA |
| RS-25 | SMRS-25-GW032411 | Np-236 | Filtered | 0.0009 U | 3.4 | 0.99 | 1.6 |
| RS-25 | SMRS-25-GW032411 | Np-236 | Suspended | 0.32 U | 1.1 | 0.34 | 0.55 |
| RS-25 | SMRS-25-GW032411 | Np-236 | Total | 0.3 | NA | 1 | NA |
| RS-25 | SMRS-25-GW032411 | Np-239 | Filtered | 2 U | 9.4 | 2.8 | 4.6 |
| RS-25 | SMRS-25-GW032411 | Np-239 | Suspended | -0.2 U | 3.9 | 1.2 | 1.9 |
| RS-25 | SMRS-25-GW032411 | Np-239 | Total | 1.8 | NA | 3 | NA |
| RS-25 | SMRS-25-GW032411 | Pa-231 | Filtered | 6 U | 66 | 19 | 32 |
| RS-25 | SMRS-25-GW032411 | Pa-231 | Suspended | -0.3 U | 28 | 8.2 | 13 |
| RS-25 | SMRS-25-GW032411 | Pa-231 | Total | 5 | NA | 21 | NA |
| RS-25 | SMRS-25-GW032411 | Pb-212 | Filtered | 0.56 U | 2.7 | 0.82 | 1.3 |
| RS-25 | SMRS-25-GW032411 | Pb-212 | Suspended | 2.66 | 1.2 | 0.45 | 0.56 |
| RS-25 | SMRS-25-GW032411 | Pb-212 | Total | 3.22 | NA | 0.93 | NA |
| RS-25 | SMRS-25-GW032411 | Pb-214 | Filtered | 2 | 3.1 | 1.2 | 1.5 |
| RS-25 | SMRS-25-GW032411 | Pb-214 | Suspended | 0.16 U | 1.4 | 0.46 | 0.7 |
| RS-25 | SMRS-25-GW032411 | Pb-214 | Total | 2.2 | NA | 1.3 | NA |
| RS-25 | SMRS-25-GW032411 | Sb-125 | Filtered | 6 U | 15 | 4.7 | 7.5 |
| RS-25 | SMRS-25-GW032411 | Sb-125 | Suspended | -0.5 U | 6 | 1.8 | 2.9 |
| RS-25 | SMRS-25-GW032411 | Sb-125 | Total | 5.6 | NA | 5 | NA |
| RS-25 | SMRS-25-GW032411 | Sn-126 | Filtered | 0.29 U | 1.6 | 0.47 | 0.75 |
| RS-25 | SMRS-25-GW032411 | Sn-126 | Suspended | 0.4 | 0.68 | 0.21 | 0.32 |
| RS-25 | SMRS-25-GW032411 | Sn-126 | Total | 0.69 | NA | 0.51 | NA |
| RS-25 | SMRS-25-GW032411 | Sr-90 | Filtered | 0.033 U | 0.059 | 0.018 | 0.034 |
| RS-25 | SMRS-25-GW032411 | Sr-90 | Suspended | 0.051 | 0.077 | 0.024 | 0.043 |
| RS-25 | SMRS-25-GW032411 | Sr-90 | Total | 0.083 | NA | 0.03 | NA |
| RS-25 | SMRS-25-GW032411 | Te-125m | Filtered | 1.4 U | 3.6 | 1.1 | 1.7 |
| RS-25 | SMRS-25-GW032411 | Te-125m | Suspended | -0.11 U | 1.4 | 0.41 | 0.67 |
| RS-25 | SMRS-25-GW032411 | Te-125m | Total | 1.3 | NA | 1.2 | NA |
| RS-25 | SMRS-25-GW032411 | Th-231 | Filtered | 0.166 | 0.007 | 0.021 | 0.005 |
| RS-25 | SMRS-25-GW032411 | Th-231 | Suspended | 0.0165 | 0.0064 | 0.0063 | 0.0055 |
| RS-25 | SMRS-25-GW032411 | Th-231 | Total | 0.182 | NA | 0.022 | NA |
| RS-25 | SMRS-25-GW032411 | Th-234 | Filtered | 3 U | 28 | 10 | 14 |
| RS-25 | SMRS-25-GW032411 | Th-234 | Suspended | 3.1 U | 8.4 | 3 | 4.1 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|------------|--------|--------|----------------|
| RS-25 | SMRS-25-GW032411 | Th-234 | Total | 6 | NA | 11 | NA |
| RS-25 | SMRS-25-GW032411 | Tl-208 | Filtered | -0.75 U | 2 | 0.94 | 0.97 |
| RS-25 | SMRS-25-GW032411 | Tl-208 | Suspended | 1.4 | 0.71 | 0.32 | 0.34 |
| RS-25 | SMRS-25-GW032411 | Tl-208 | Total | 0.65 | NA | 0.99 | NA |
| RS-25 | SMRS-25-GW032411 | Tm-171 | Filtered | 40 U | 380 | 110 | 190 |
| RS-25 | SMRS-25-GW032411 | Tm-171 | Suspended | 33 U | 120 | 35 | 57 |
| RS-25 | SMRS-25-GW032411 | Tm-171 | Total | 70 | NA | 120 | NA |
| RS-25 | SMRS-25-GW032411 | U-233/234 | Filtered | 2.7 | 0.005 | 0.14 | 0.004 |
| RS-25 | SMRS-25-GW032411 | U-233/234 | Suspended | 0.682 | 0.013 | 0.046 | 0.004 |
| RS-25 | SMRS-25-GW032411 | U-233/234 | Total | 3.39 | NA | 0.14 | NA |
| RS-25 | SMRS-25-GW032411 | U-235/236 | Filtered | 0.166 | 0.007 | 0.021 | 0.005 |
| RS-25 | SMRS-25-GW032411 | U-235/236 | Suspended | 0.0164 | 0.0064 | 0.0063 | 0.0049 |
| RS-25 | SMRS-25-GW032411 | U-235/236 | Total | 0.182 | NA | 0.022 | NA |
| RS-25 | SMRS-25-GW032411 | U-238 | Filtered | 2.67 | 0.005 | 0.13 | 0.004 |
| RS-25 | SMRS-25-GW032411 | U-238 | Suspended | 0.635 | 0.005 | 0.044 | 0.004 |
| RS-25 | SMRS-25-GW032411 | U-238 | Total | 3.3 | NA | 0.14 | NA |
| RS-27 | SMRS-27-GW033011 | Ac-227 | Filtered | -5 U | 10 | 3.1 | 5 |
| RS-27 | SMRS-27-GW033011 | Ac-227 | Suspended | 0.4 U | 5.7 | 1.7 | 2.8 |
| RS-27 | SMRS-27-GW033011 | Ac-227 | Total | -4.5 | NA | 3.6 | NA |
| RS-27 | SMRS-27-GW033011 | Ac-228 | Filtered | 0 U | 5.7 | 1.6 | 2.7 |
| RS-27 | SMRS-27-GW033011 | Ac-228 | Suspended | 0.37 U | 2.8 | 0.73 | 1.3 |
| RS-27 | SMRS-27-GW033011 | Ac-228 | Total | 0.4 | NA | 1.8 | NA |
| RS-27 | SMRS-27-GW033011 | Ag-108 | Filtered | -0.018 U R | 0.1 | 0.03 | 0.049 |
| RS-27 | SMRS-27-GW033011 | Ag-108 | Suspended | -0.002 U R | 0.056 | 0.017 | 0.027 |
| RS-27 | SMRS-27-GW033011 | Ag-108 | Total | -0.02 R | NA | 0.035 | NA |
| RS-27 | SMRS-27-GW033011 | Ag-108m | Filtered | -0.19 U R | 1.1 | 0.33 | 0.53 |
| RS-27 | SMRS-27-GW033011 | Ag-108m | Suspended | -0.02 U R | 0.61 | 0.18 | 0.29 |
| RS-27 | SMRS-27-GW033011 | Ag-108m | Total | -0.21 R | NA | 0.37 | NA |
| RS-27 | SMRS-27-GW033011 | Ba-133 | Filtered | 1.1 U R | 10 | 3 | 4.8 |
| RS-27 | SMRS-27-GW033011 | Ba-133 | Suspended | 1.2 U R | 5.6 | 1.7 | 2.7 |
| RS-27 | SMRS-27-GW033011 | Ba-133 | Total | 2.3 R | NA | 3.4 | NA |
| RS-27 | SMRS-27-GW033011 | Ba-137m | Filtered | -0.37 U | 1.3 | 0.38 | 0.61 |
| RS-27 | SMRS-27-GW033011 | Ba-137m | Suspended | 0.18 U | 0.66 | 0.2 | 0.32 |
| RS-27 | SMRS-27-GW033011 | Ba-137m | Total | -0.19 | NA | 0.43 | NA |
| RS-27 | SMRS-27-GW033011 | Bi-212 | Filtered | 3.1 U | 9.7 | 2.9 | 4.6 |
| RS-27 | SMRS-27-GW033011 | Bi-212 | Suspended | 2.3 U | 5.7 | 1.7 | 2.7 |
| RS-27 | SMRS-27-GW033011 | Bi-212 | Total | 5.4 | NA | 3.4 | NA |
| RS-27 | SMRS-27-GW033011 | Bi-214 | Filtered | 1.59 | 2.7 | 0.96 | 1.3 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| RS-27 | SMRS-27-GW033011 | Bi-214 | Suspended | 0.96 | 1.8 | 0.75 | 0.86 |
| RS-27 | SMRS-27-GW033011 | Bi-214 | Total | 2.5 | NA | 1.2 | NA |
| RS-27 | SMRS-27-GW033011 | Cd-113m | Filtered | 50 U | 15000 | 4400 | 7300 |
| RS-27 | SMRS-27-GW033011 | Cd-113m | Suspended | -10 U | 6700 | 2000 | 3200 |
| RS-27 | SMRS-27-GW033011 | Cd-113m | Total | 40 | NA | 4800 | NA |
| RS-27 | SMRS-27-GW033011 | Cf-249 | Filtered | 0 U R | 6.7 | 2 | 3.2 |
| RS-27 | SMRS-27-GW033011 | Cf-249 | Suspended | 0.23 U R | 3.1 | 0.91 | 1.5 |
| RS-27 | SMRS-27-GW033011 | Cf-249 | Total | 0.2 R | NA | 2.2 | NA |
| RS-27 | SMRS-27-GW033011 | Co-60 | Filtered | 0.19 U | 1.2 | 0.36 | 0.57 |
| RS-27 | SMRS-27-GW033011 | Co-60 | Suspended | -0.04 U | 0.78 | 0.22 | 0.36 |
| RS-27 | SMRS-27-GW033011 | Co-60 | Total | 0.15 | NA | 0.42 | NA |
| RS-27 | SMRS-27-GW033011 | Cs-134 | Filtered | -0.0006 U | 1.4 | 0.39 | 0.65 |
| RS-27 | SMRS-27-GW033011 | Cs-134 | Suspended | -0.27 U | 0.81 | 0.24 | 0.39 |
| RS-27 | SMRS-27-GW033011 | Cs-134 | Total | -0.27 | NA | 0.46 | NA |
| RS-27 | SMRS-27-GW033011 | Cs-137 | Filtered | -0.39 U | 1.4 | 0.41 | 0.65 |
| RS-27 | SMRS-27-GW033011 | Cs-137 | Suspended | 0.19 U | 0.7 | 0.21 | 0.33 |
| RS-27 | SMRS-27-GW033011 | Cs-137 | Total | -0.2 | NA | 0.46 | NA |
| RS-27 | SMRS-27-GW033011 | Eu-152 | Filtered | -0.3 U | 3.4 | 1 | 1.6 |
| RS-27 | SMRS-27-GW033011 | Eu-152 | Suspended | -0.0001 U | 1.8 | 0.53 | 0.88 |
| RS-27 | SMRS-27-GW033011 | Eu-152 | Total | -0.3 | NA | 1.1 | NA |
| RS-27 | SMRS-27-GW033011 | Eu-154 | Filtered | -2.1 U | 11 | 3.3 | 5.3 |
| RS-27 | SMRS-27-GW033011 | Eu-154 | Suspended | 1.4 U | 5.9 | 1.7 | 2.8 |
| RS-27 | SMRS-27-GW033011 | Eu-154 | Total | -0.6 | NA | 3.7 | NA |
| RS-27 | SMRS-27-GW033011 | Eu-155 | Filtered | 0.38 U | 3.3 | 0.97 | 1.6 |
| RS-27 | SMRS-27-GW033011 | Eu-155 | Suspended | -0.11 U | 1.3 | 0.37 | 0.61 |
| RS-27 | SMRS-27-GW033011 | Eu-155 | Total | 0.3 | NA | 1 | NA |
| RS-27 | SMRS-27-GW033011 | gross_alpha | Filtered | 4.07 | 0.69 | 0.48 | 0.37 |
| RS-27 | SMRS-27-GW033011 | gross_alpha | Suspended | 19.1 | 0.7 | 1.2 | 0.4 |
| RS-27 | SMRS-27-GW033011 | gross_alpha | Total | 37.9 | NA | 1.7 | NA |
| RS-27 | SMRS-27-GW033011 | gross_beta | Filtered | 20.1 | 1.5 | 1.2 | 0.8 |
| RS-27 | SMRS-27-GW033011 | gross_beta | Suspended | 73.4 | 1.2 | 3 | 0.6 |
| RS-27 | SMRS-27-GW033011 | gross_beta | Total | 93.5 | NA | 3.3 | NA |
| RS-27 | SMRS-27-GW033011 | H-3 | Total | 0.5 U | 140 | 42 | 69 |
| RS-27 | SMRS-27-GW033011 | Ho-166m | Filtered | 0.17 U | 1.9 | 0.56 | 0.91 |
| RS-27 | SMRS-27-GW033011 | Ho-166m | Suspended | 0.22 U | 1.2 | 0.35 | 0.57 |
| RS-27 | SMRS-27-GW033011 | Ho-166m | Total | 0.38 | NA | 0.66 | NA |
| RS-27 | SMRS-27-GW033011 | K-40 | Filtered | -6.2 U | 19 | 8.1 | 8.7 |
| RS-27 | SMRS-27-GW033011 | K-40 | Suspended | 9 | 9.5 | 2.9 | 4.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RS-27 | SMRS-27-GW033011 | K-40 | Total | 2.8 | NA | 8.6 | NA |
| RS-27 | SMRS-27-GW033011 | Na-22 | Filtered | -0.003 U | 1.3 | 0.35 | 0.57 |
| RS-27 | SMRS-27-GW033011 | Na-22 | Suspended | -0.06 U | 0.76 | 0.22 | 0.35 |
| RS-27 | SMRS-27-GW033011 | Na-22 | Total | -0.07 | NA | 0.41 | NA |
| RS-27 | SMRS-27-GW033011 | Nb-94 | Filtered | 0.28 U | 1.1 | 0.32 | 0.51 |
| RS-27 | SMRS-27-GW033011 | Nb-94 | Suspended | -0.12 U | 0.74 | 0.22 | 0.35 |
| RS-27 | SMRS-27-GW033011 | Nb-94 | Total | 0.16 | NA | 0.39 | NA |
| RS-27 | SMRS-27-GW033011 | Np-236 | Filtered | 0.29 U | 2.8 | 0.85 | 1.4 |
| RS-27 | SMRS-27-GW033011 | Np-236 | Suspended | 0.41 U | 1 | 0.3 | 0.48 |
| RS-27 | SMRS-27-GW033011 | Np-236 | Total | 0.7 | NA | 0.9 | NA |
| RS-27 | SMRS-27-GW033011 | Np-239 | Filtered | -2 U | 7.8 | 2.3 | 3.8 |
| RS-27 | SMRS-27-GW033011 | Np-239 | Suspended | 1.63 | 3.3 | 1 | 1.6 |
| RS-27 | SMRS-27-GW033011 | Np-239 | Total | -0.4 | NA | 2.5 | NA |
| RS-27 | SMRS-27-GW033011 | Pa-231 | Filtered | 16 U | 48 | 14 | 23 |
| RS-27 | SMRS-27-GW033011 | Pa-231 | Suspended | -1.1 U | 30 | 8.7 | 14 |
| RS-27 | SMRS-27-GW033011 | Pa-231 | Total | 15 | NA | 17 | NA |
| RS-27 | SMRS-27-GW033011 | Pb-212 | Filtered | 0.32 U | 2.4 | 0.61 | 1.2 |
| RS-27 | SMRS-27-GW033011 | Pb-212 | Suspended | 0.59 | 1.1 | 0.39 | 0.55 |
| RS-27 | SMRS-27-GW033011 | Pb-212 | Total | 0.91 | NA | 0.73 | NA |
| RS-27 | SMRS-27-GW033011 | Pb-214 | Filtered | 0.17 U | 2.3 | 0.74 | 1.1 |
| RS-27 | SMRS-27-GW033011 | Pb-214 | Suspended | 0.17 U | 1.5 | 0.52 | 0.71 |
| RS-27 | SMRS-27-GW033011 | Pb-214 | Total | 0.34 | NA | 0.9 | NA |
| RS-27 | SMRS-27-GW033011 | Sb-125 | Filtered | 3 U | 13 | 3.8 | 6.2 |
| RS-27 | SMRS-27-GW033011 | Sb-125 | Suspended | 0.09 U | 6 | 1.8 | 2.9 |
| RS-27 | SMRS-27-GW033011 | Sb-125 | Total | 3.1 | NA | 4.2 | NA |
| RS-27 | SMRS-27-GW033011 | Sn-126 | Filtered | 0.18 U | 1.3 | 0.37 | 0.6 |
| RS-27 | SMRS-27-GW033011 | Sn-126 | Suspended | 0.16 U | 0.86 | 0.25 | 0.41 |
| RS-27 | SMRS-27-GW033011 | Sn-126 | Total | 0.34 | NA | 0.45 | NA |
| RS-27 | SMRS-27-GW033011 | Sr-90 | Filtered | 0.056 | 0.099 | 0.03 | 0.056 |
| RS-27 | SMRS-27-GW033011 | Sr-90 | Suspended | 0.018 U | 0.061 | 0.018 | 0.035 |
| RS-27 | SMRS-27-GW033011 | Sr-90 | Total | 0.075 | NA | 0.035 | NA |
| RS-27 | SMRS-27-GW033011 | Te-125m | Filtered | 0.7 U | 3 | 0.89 | 1.4 |
| RS-27 | SMRS-27-GW033011 | Te-125m | Suspended | 0.02 U | 1.4 | 0.41 | 0.68 |
| RS-27 | SMRS-27-GW033011 | Te-125m | Total | 0.72 | NA | 0.98 | NA |
| RS-27 | SMRS-27-GW033011 | Th-231 | Filtered | 0.0071 | 0.0064 | 0.0041 | 0.0049 |
| RS-27 | SMRS-27-GW033011 | Th-231 | Suspended | 0.0132 | 0.0072 | 0.006 | 0.0055 |
| RS-27 | SMRS-27-GW033011 | Th-231 | Total | 0.0204 | NA | 0.0072 | NA |
| RS-27 | SMRS-27-GW033011 | Th-234 | Filtered | 2.4 U | 25 | 6.9 | 12 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RS-27 | SMRS-27-GW033011 | Th-234 | Suspended | -2.4 U | 7.9 | 3.5 | 3.9 |
| RS-27 | SMRS-27-GW033011 | Th-234 | Total | 0.02 | NA | 7.8 | NA |
| RS-27 | SMRS-27-GW033011 | Tl-208 | Filtered | -0.54 U | 1.6 | 0.79 | 0.78 |
| RS-27 | SMRS-27-GW033011 | Tl-208 | Suspended | 0.58 | 0.67 | 0.23 | 0.32 |
| RS-27 | SMRS-27-GW033011 | Tl-208 | Total | 0.04 | NA | 0.82 | NA |
| RS-27 | SMRS-27-GW033011 | Tm-171 | Filtered | 200 | 360 | 110 | 180 |
| RS-27 | SMRS-27-GW033011 | Tm-171 | Suspended | 1 U | 120 | 34 | 57 |
| RS-27 | SMRS-27-GW033011 | Tm-171 | Total | 200 | NA | 120 | NA |
| RS-27 | SMRS-27-GW033011 | U-233/234 | Filtered | 0.075 | 0.013 | 0.013 | 0.004 |
| RS-27 | SMRS-27-GW033011 | U-233/234 | Suspended | 0.222 | 0.018 | 0.024 | 0.006 |
| RS-27 | SMRS-27-GW033011 | U-233/234 | Total | 0.297 | NA | 0.028 | NA |
| RS-27 | SMRS-27-GW033011 | U-235/236 | Filtered | 0.0071 | 0.0064 | 0.0041 | 0.0049 |
| RS-27 | SMRS-27-GW033011 | U-235/236 | Suspended | 0.0132 | 0.0072 | 0.006 | 0.0055 |
| RS-27 | SMRS-27-GW033011 | U-235/236 | Total | 0.0204 | NA | 0.0072 | NA |
| RS-27 | SMRS-27-GW033011 | U-238 | Filtered | 0.068 | 0.013 | 0.012 | 0.004 |
| RS-27 | SMRS-27-GW033011 | U-238 | Suspended | 0.192 | 0.006 | 0.022 | 0.004 |
| RS-27 | SMRS-27-GW033011 | U-238 | Total | 0.259 | NA | 0.025 | NA |
| RS-54 | SMRS-54-GW032811 | Ac-227 | Filtered | 0 U | 12 | 3.5 | 5.8 |
| RS-54 | SMRS-54-GW032811 | Ac-227 | Suspended | -0.3 U | 3 | 0.89 | 1.5 |
| RS-54 | SMRS-54-GW032811 | Ac-227 | Total | -0.3 | NA | 3.6 | NA |
| RS-54 | SMRS-54-GW032811 | Ac-228 | Filtered | 2.9 | 5 | 1.6 | 2.3 |
| RS-54 | SMRS-54-GW032811 | Ac-228 | Suspended | 1.28 | 1.9 | 0.59 | 0.89 |
| RS-54 | SMRS-54-GW032811 | Ac-228 | Total | 4.2 | NA | 1.7 | NA |
| RS-54 | SMRS-54-GW032811 | Ag-108 | Filtered | 0.008 U | 0.11 | 0.032 | 0.052 |
| RS-54 | SMRS-54-GW032811 | Ag-108 | Suspended | 0.009 U | 0.041 | 0.012 | 0.02 |
| RS-54 | SMRS-54-GW032811 | Ag-108 | Total | 0.017 | NA | 0.034 | NA |
| RS-54 | SMRS-54-GW032811 | Ag-108m | Filtered | 0.08 U | 1.2 | 0.34 | 0.55 |
| RS-54 | SMRS-54-GW032811 | Ag-108m | Suspended | 0.1 U | 0.44 | 0.13 | 0.21 |
| RS-54 | SMRS-54-GW032811 | Ag-108m | Total | 0.18 | NA | 0.36 | NA |
| RS-54 | SMRS-54-GW032811 | Ba-133 | Filtered | -0.3 U | 16 | 4.8 | 7.9 |
| RS-54 | SMRS-54-GW032811 | Ba-133 | Suspended | 0.7 U | 4.6 | 1.4 | 2.2 |
| RS-54 | SMRS-54-GW032811 | Ba-133 | Total | 0.4 | NA | 5 | NA |
| RS-54 | SMRS-54-GW032811 | Ba-137m | Filtered | 0.1 U | 1.5 | 0.42 | 0.69 |
| RS-54 | SMRS-54-GW032811 | Ba-137m | Suspended | -0.01 U | 0.47 | 0.13 | 0.22 |
| RS-54 | SMRS-54-GW032811 | Ba-137m | Total | 0.09 | NA | 0.44 | NA |
| RS-54 | SMRS-54-GW032811 | Bi-212 | Filtered | 1.4 U | 11 | 3.1 | 5 |
| RS-54 | SMRS-54-GW032811 | Bi-212 | Suspended | 1.1 U | 3.9 | 1.2 | 1.8 |
| RS-54 | SMRS-54-GW032811 | Bi-212 | Total | 2.5 | NA | 3.3 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|-------|------|----------------|
| RS-54 | SMRS-54-GW032811 | Bi-214 | Filtered | 1.8 | 3.1 | 1.1 | 1.5 |
| RS-54 | SMRS-54-GW032811 | Bi-214 | Suspended | 0.38 U | 1.4 | 0.54 | 0.65 |
| RS-54 | SMRS-54-GW032811 | Bi-214 | Total | 2.2 | NA | 1.2 | NA |
| RS-54 | SMRS-54-GW032811 | Cd-113m | Filtered | 1200 U | 11000 | 3200 | 5300 |
| RS-54 | SMRS-54-GW032811 | Cd-113m | Suspended | 0 U | 5600 | 1600 | 2700 |
| RS-54 | SMRS-54-GW032811 | Cd-113m | Total | 1200 | NA | 3600 | NA |
| RS-54 | SMRS-54-GW032811 | Cf-249 | Filtered | 2.8 U | 6.3 | 1.9 | 3 |
| RS-54 | SMRS-54-GW032811 | Cf-249 | Suspended | 0.06 U | 1.9 | 0.57 | 0.93 |
| RS-54 | SMRS-54-GW032811 | Cf-249 | Total | 2.8 | NA | 2 | NA |
| RS-54 | SMRS-54-GW032811 | Co-60 | Filtered | 0.12 U | 1.5 | 0.43 | 0.69 |
| RS-54 | SMRS-54-GW032811 | Co-60 | Suspended | 0.21 | 0.44 | 0.13 | 0.2 |
| RS-54 | SMRS-54-GW032811 | Co-60 | Total | 0.33 | NA | 0.45 | NA |
| RS-54 | SMRS-54-GW032811 | Cs-134 | Filtered | 0.4 U | 1.3 | 0.38 | 0.6 |
| RS-54 | SMRS-54-GW032811 | Cs-134 | Suspended | -0.27 U | 0.63 | 0.19 | 0.3 |
| RS-54 | SMRS-54-GW032811 | Cs-134 | Total | 0.13 | NA | 0.43 | NA |
| RS-54 | SMRS-54-GW032811 | Cs-137 | Filtered | 0.11 U | 1.6 | 0.45 | 0.73 |
| RS-54 | SMRS-54-GW032811 | Cs-137 | Suspended | -0.01 U | 0.5 | 0.14 | 0.23 |
| RS-54 | SMRS-54-GW032811 | Cs-137 | Total | 0.1 | NA | 0.47 | NA |
| RS-54 | SMRS-54-GW032811 | Eu-152 | Filtered | 1.1 U | 3.7 | 1.1 | 1.7 |
| RS-54 | SMRS-54-GW032811 | Eu-152 | Suspended | 0.52 U | 1.2 | 0.35 | 0.55 |
| RS-54 | SMRS-54-GW032811 | Eu-152 | Total | 1.7 | NA | 1.1 | NA |
| RS-54 | SMRS-54-GW032811 | Eu-154 | Filtered | -0.1 U | 12 | 3.4 | 5.5 |
| RS-54 | SMRS-54-GW032811 | Eu-154 | Suspended | -0.5 U | 4.7 | 1.4 | 2.2 |
| RS-54 | SMRS-54-GW032811 | Eu-154 | Total | -0.7 | NA | 3.6 | NA |
| RS-54 | SMRS-54-GW032811 | Eu-155 | Filtered | 0.68 U | 2.9 | 0.87 | 1.4 |
| RS-54 | SMRS-54-GW032811 | Eu-155 | Suspended | 0.01 U | 0.96 | 0.28 | 0.46 |
| RS-54 | SMRS-54-GW032811 | Eu-155 | Total | 0.69 | NA | 0.92 | NA |
| RS-54 | SMRS-54-GW032811 | gross_alpha | Filtered | 14.9 L | 0.8 | 1 | 0.5 |
| RS-54 | SMRS-54-GW032811 | gross_alpha | Suspended | 4.21 | 0.5 | 0.44 | 0.26 |
| RS-54 | SMRS-54-GW032811 | gross_alpha | Total | 19.1 | NA | 1.1 | NA |
| RS-54 | SMRS-54-GW032811 | gross_beta | Filtered | 7.8 | 3.3 | 1.4 | 1.9 |
| RS-54 | SMRS-54-GW032811 | gross_beta | Suspended | 3.28 | 1.2 | 0.5 | 0.7 |
| RS-54 | SMRS-54-GW032811 | gross_beta | Total | 11.1 | NA | 1.4 | NA |
| RS-54 | SMRS-54-GW032811 | H-3 | Total | -58 U | 170 | 49 | 84 |
| RS-54 | SMRS-54-GW032811 | Ho-166m | Filtered | 0.36 U | 2.2 | 0.65 | 1 |
| RS-54 | SMRS-54-GW032811 | Ho-166m | Suspended | 0.18 U | 0.88 | 0.26 | 0.42 |
| RS-54 | SMRS-54-GW032811 | Ho-166m | Total | 0.54 | NA | 0.7 | NA |
| RS-54 | SMRS-54-GW032811 | K-40 | Filtered | -4.3 U | 24 | 9 | 11 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| RS-54 | SMRS-54-GW032811 | K-40 | Suspended | -1.5 U | 8 | 2.7 | 3.8 |
| RS-54 | SMRS-54-GW032811 | K-40 | Total | -5.8 | NA | 9.4 | NA |
| RS-54 | SMRS-54-GW032811 | Na-22 | Filtered | 0 U | 2.5 | 0.72 | 1.2 |
| RS-54 | SMRS-54-GW032811 | Na-22 | Suspended | 0.15 U | 0.53 | 0.16 | 0.24 |
| RS-54 | SMRS-54-GW032811 | Na-22 | Total | 0.15 | NA | 0.73 | NA |
| RS-54 | SMRS-54-GW032811 | Nb-94 | Filtered | -0.09 U | 1.3 | 0.38 | 0.63 |
| RS-54 | SMRS-54-GW032811 | Nb-94 | Suspended | 0.38 | 0.35 | 0.12 | 0.16 |
| RS-54 | SMRS-54-GW032811 | Nb-94 | Total | 0.29 | NA | 0.4 | NA |
| RS-54 | SMRS-54-GW032811 | Np-236 | Filtered | -0.41 U | 2.9 | 0.87 | 1.4 |
| RS-54 | SMRS-54-GW032811 | Np-236 | Suspended | 0.25 U | 0.84 | 0.25 | 0.41 |
| RS-54 | SMRS-54-GW032811 | Np-236 | Total | -0.17 | NA | 0.9 | NA |
| RS-54 | SMRS-54-GW032811 | Np-239 | Filtered | -0.3 U | 9.1 | 2.7 | 4.4 |
| RS-54 | SMRS-54-GW032811 | Np-239 | Suspended | 0.37 U | 2.9 | 0.87 | 1.4 |
| RS-54 | SMRS-54-GW032811 | Np-239 | Total | 0.04 | NA | 2.8 | NA |
| RS-54 | SMRS-54-GW032811 | Pa-231 | Filtered | -1 U | 57 | 16 | 27 |
| RS-54 | SMRS-54-GW032811 | Pa-231 | Suspended | -1.9 U | 21 | 6.1 | 10 |
| RS-54 | SMRS-54-GW032811 | Pa-231 | Total | -3 | NA | 18 | NA |
| RS-54 | SMRS-54-GW032811 | Pb-212 | Filtered | -0.18 U | 2.6 | 0.97 | 1.3 |
| RS-54 | SMRS-54-GW032811 | Pb-212 | Suspended | 0.4 | 0.67 | 0.24 | 0.32 |
| RS-54 | SMRS-54-GW032811 | Pb-212 | Total | 0.22 | NA | 0.997 | NA |
| RS-54 | SMRS-54-GW032811 | Pb-214 | Filtered | 0.52 U | 3.2 | 0.84 | 1.5 |
| RS-54 | SMRS-54-GW032811 | Pb-214 | Suspended | 0.59 | 0.96 | 0.34 | 0.46 |
| RS-54 | SMRS-54-GW032811 | Pb-214 | Total | 1.11 | NA | 0.91 | NA |
| RS-54 | SMRS-54-GW032811 | Sb-125 | Filtered | -3.5 U | 14 | 4 | 6.5 |
| RS-54 | SMRS-54-GW032811 | Sb-125 | Suspended | 0.2 U | 4.2 | 1.2 | 2 |
| RS-54 | SMRS-54-GW032811 | Sb-125 | Total | -3.3 | NA | 4.2 | NA |
| RS-54 | SMRS-54-GW032811 | Sn-126 | Filtered | -0.38 U | 1.7 | 0.51 | 0.81 |
| RS-54 | SMRS-54-GW032811 | Sn-126 | Suspended | 0.23 U | 0.57 | 0.17 | 0.27 |
| RS-54 | SMRS-54-GW032811 | Sn-126 | Total | -0.15 | NA | 0.54 | NA |
| RS-54 | SMRS-54-GW032811 | Sr-90 | Filtered | 0.005 U | 0.072 | 0.021 | 0.041 |
| RS-54 | SMRS-54-GW032811 | Sr-90 | Suspended | 0.001 U | 0.063 | 0.018 | 0.035 |
| RS-54 | SMRS-54-GW032811 | Sr-90 | Total | 0.006 | NA | 0.028 | NA |
| RS-54 | SMRS-54-GW032811 | Te-125m | Filtered | -0.81 U | 3.1 | 0.93 | 1.5 |
| RS-54 | SMRS-54-GW032811 | Te-125m | Suspended | 0.04 U | 0.98 | 0.29 | 0.47 |
| RS-54 | SMRS-54-GW032811 | Te-125m | Total | -0.77 | NA | 0.98 | NA |
| RS-54 | SMRS-54-GW032811 | Th-231 | Filtered | 0.614 | 0.007 | 0.047 | 0.005 |
| RS-54 | SMRS-54-GW032811 | Th-231 | Suspended | 0.0023 U | 0.0061 | 0.0023 | 0.0047 |
| RS-54 | SMRS-54-GW032811 | Th-231 | Total | 0.616 | NA | 0.047 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|--------|--------|----------------|
| RS-54 | SMRS-54-GW032811 | Th-234 | Filtered | 23 | 21 | 7.6 | 10 |
| RS-54 | SMRS-54-GW032811 | Th-234 | Suspended | 0.2 U | 5.3 | 1.6 | 2.6 |
| RS-54 | SMRS-54-GW032811 | Th-234 | Total | 23.2 | NA | 7.8 | NA |
| RS-54 | SMRS-54-GW032811 | Tl-208 | Filtered | -0.45 U | 1.8 | 0.86 | 0.86 |
| RS-54 | SMRS-54-GW032811 | Tl-208 | Suspended | 0.05 U | 0.6 | 0.16 | 0.29 |
| RS-54 | SMRS-54-GW032811 | Tl-208 | Total | -0.41 | NA | 0.87 | NA |
| RS-54 | SMRS-54-GW032811 | Tm-171 | Filtered | 137 U | 320 | 96 | 150 |
| RS-54 | SMRS-54-GW032811 | Tm-171 | Suspended | 40 U | 86 | 26 | 42 |
| RS-54 | SMRS-54-GW032811 | Tm-171 | Total | 178 | NA | 99 | NA |
| RS-54 | SMRS-54-GW032811 | U-233/234 | Filtered | 12.2 | 0.006 | 0.54 | 0.004 |
| RS-54 | SMRS-54-GW032811 | U-233/234 | Suspended | 0.078 | 0.012 | 0.013 | 0.004 |
| RS-54 | SMRS-54-GW032811 | U-233/234 | Total | 12.3 | NA | 0.54 | NA |
| RS-54 | SMRS-54-GW032811 | U-235/236 | Filtered | 0.614 | 0.007 | 0.047 | 0.005 |
| RS-54 | SMRS-54-GW032811 | U-235/236 | Suspended | 0.0023 U | 0.0061 | 0.0023 | 0.0047 |
| RS-54 | SMRS-54-GW032811 | U-235/236 | Total | 0.616 | NA | 0.047 | NA |
| RS-54 | SMRS-54-GW032811 | U-238 | Filtered | 11.3 | 0.006 | 0.5 | 0.004 |
| RS-54 | SMRS-54-GW032811 | U-238 | Suspended | 0.087 | 0.005 | 0.014 | 0.004 |
| RS-54 | SMRS-54-GW032811 | U-238 | Total | 11.4 | NA | 0.5 | NA |
| WS-07 | SMWS-07-GW041911 | Ac-227 | Filtered | -1 U | 9.9 | 2.9 | 4.8 |
| WS-07 | SMWS-07-GW041911 | Ac-227 | Suspended | 0.06 U | 5.2 | 1.5 | 2.6 |
| WS-07 | SMWS-07-GW041911 | Ac-227 | Total | -1 | NA | 3.3 | NA |
| WS-07 | SMWS-07-GW041911 | Ac-228 | Filtered | 3.5 | 5.1 | 1.6 | 2.4 |
| WS-07 | SMWS-07-GW041911 | Ac-228 | Suspended | -0.8 U | 3.2 | 1.4 | 1.5 |
| WS-07 | SMWS-07-GW041911 | Ac-228 | Total | 2.7 | NA | 2.1 | NA |
| WS-07 | SMWS-07-GW041911 | Ag-108 | Filtered | 0.021 U R | 0.11 | 0.032 | 0.051 |
| WS-07 | SMWS-07-GW041911 | Ag-108 | Suspended | 0.005 U R | 0.054 | 0.016 | 0.026 |
| WS-07 | SMWS-07-GW041911 | Ag-108 | Total | 0.026 R | NA | 0.035 | NA |
| WS-07 | SMWS-07-GW041911 | Ag-108m | Filtered | 0.22 U R | 1.2 | 0.34 | 0.55 |
| WS-07 | SMWS-07-GW041911 | Ag-108m | Suspended | 0.06 U R | 0.58 | 0.17 | 0.28 |
| WS-07 | SMWS-07-GW041911 | Ag-108m | Total | 0.28 R | NA | 0.38 | NA |
| WS-07 | SMWS-07-GW041911 | Ba-133 | Filtered | 0 U R | 16 | 4.5 | 7.5 |
| WS-07 | SMWS-07-GW041911 | Ba-133 | Suspended | -0.02 U R | 6 | 1.8 | 2.9 |
| WS-07 | SMWS-07-GW041911 | Ba-133 | Total | -0.02 R | NA | 4.9 | NA |
| WS-07 | SMWS-07-GW041911 | Ba-137m | Filtered | -0.03 U | 1.3 | 0.38 | 0.63 |
| WS-07 | SMWS-07-GW041911 | Ba-137m | Suspended | 0.2 U | 0.72 | 0.22 | 0.35 |
| WS-07 | SMWS-07-GW041911 | Ba-137m | Total | 0.17 | NA | 0.44 | NA |
| WS-07 | SMWS-07-GW041911 | Bi-212 | Filtered | 4.9 U | 11 | 3.3 | 5.1 |
| WS-07 | SMWS-07-GW041911 | Bi-212 | Suspended | 3.4 | 5.3 | 1.6 | 2.5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|------|----------------|
| WS-07 | SMWS-07-GW041911 | Bi-212 | Total | 8.3 | NA | 3.7 | NA |
| WS-07 | SMWS-07-GW041911 | Bi-214 | Filtered | 1.1 U | 3.7 | 1 | 1.8 |
| WS-07 | SMWS-07-GW041911 | Bi-214 | Suspended | 0.91 | 1.7 | 0.61 | 0.8 |
| WS-07 | SMWS-07-GW041911 | Bi-214 | Total | 2 | NA | 1.2 | NA |
| WS-07 | SMWS-07-GW041911 | Cd-113m | Filtered | 4600 U | 16000 | 4900 | 7900 |
| WS-07 | SMWS-07-GW041911 | Cd-113m | Suspended | 700 U | 7100 | 2100 | 3400 |
| WS-07 | SMWS-07-GW041911 | Cd-113m | Total | 5400 | NA | 5300 | NA |
| WS-07 | SMWS-07-GW041911 | Cf-249 | Filtered | 1.7 U R | 6.8 | 2 | 3.2 |
| WS-07 | SMWS-07-GW041911 | Cf-249 | Suspended | 0.005 U R | 3.1 | 0.92 | 1.5 |
| WS-07 | SMWS-07-GW041911 | Cf-249 | Total | 1.7 R | NA | 2.2 | NA |
| WS-07 | SMWS-07-GW041911 | Co-60 | Filtered | 0.36 U | 1.4 | 0.42 | 0.65 |
| WS-07 | SMWS-07-GW041911 | Co-60 | Suspended | -0.02 U | 0.57 | 0.16 | 0.26 |
| WS-07 | SMWS-07-GW041911 | Co-60 | Total | 0.34 | NA | 0.45 | NA |
| WS-07 | SMWS-07-GW041911 | Cs-134 | Filtered | -0.66 U | 1.8 | 0.54 | 0.86 |
| WS-07 | SMWS-07-GW041911 | Cs-134 | Suspended | 0.21 U | 0.72 | 0.22 | 0.35 |
| WS-07 | SMWS-07-GW041911 | Cs-134 | Total | -0.44 | NA | 0.58 | NA |
| WS-07 | SMWS-07-GW041911 | Cs-137 | Filtered | -0.03 U | 1.4 | 0.4 | 0.66 |
| WS-07 | SMWS-07-GW041911 | Cs-137 | Suspended | 0.21 U | 0.76 | 0.23 | 0.36 |
| WS-07 | SMWS-07-GW041911 | Cs-137 | Total | 0.18 | NA | 0.46 | NA |
| WS-07 | SMWS-07-GW041911 | Eu-152 | Filtered | 1 U | 4.3 | 1.3 | 2.1 |
| WS-07 | SMWS-07-GW041911 | Eu-152 | Suspended | -0.19 U | 1.9 | 0.55 | 0.9 |
| WS-07 | SMWS-07-GW041911 | Eu-152 | Total | 0.8 | NA | 1.4 | NA |
| WS-07 | SMWS-07-GW041911 | Eu-154 | Filtered | 0.9 U | 11 | 3.2 | 5.3 |
| WS-07 | SMWS-07-GW041911 | Eu-154 | Suspended | 2.8 | 6 | 1.8 | 2.8 |
| WS-07 | SMWS-07-GW041911 | Eu-154 | Total | 3.8 | NA | 3.7 | NA |
| WS-07 | SMWS-07-GW041911 | Eu-155 | Filtered | -1.5 U | 5 | 1.5 | 2.4 |
| WS-07 | SMWS-07-GW041911 | Eu-155 | Suspended | 0.33 U | 1.4 | 0.42 | 0.68 |
| WS-07 | SMWS-07-GW041911 | Eu-155 | Total | -1.2 | NA | 1.5 | NA |
| WS-07 | SMWS-07-GW041911 | gross_alpha | Filtered | 2.82 | 0.48 | 0.33 | 0.26 |
| WS-07 | SMWS-07-GW041911 | gross_alpha | Suspended | 0.38 | 0.59 | 0.19 | 0.32 |
| WS-07 | SMWS-07-GW041911 | gross_alpha | Total | 3.2 | NA | 0.38 | NA |
| WS-07 | SMWS-07-GW041911 | gross_beta | Filtered | 5.2 | 2.8 | 1 | 1.7 |
| WS-07 | SMWS-07-GW041911 | gross_beta | Suspended | -0.17 U | 0.82 | 0.23 | 0.49 |
| WS-07 | SMWS-07-GW041911 | gross_beta | Total | 5 | NA | 1.1 | NA |
| WS-07 | SMWS-07-GW041911 | H-3 | Total | -12 U | 150 | 45 | 75 |
| WS-07 | SMWS-07-GW041911 | Ho-166m | Filtered | -0.12 U | 2.5 | 0.71 | 1.2 |
| WS-07 | SMWS-07-GW041911 | Ho-166m | Suspended | 0.4 U | 1.2 | 0.36 | 0.57 |
| WS-07 | SMWS-07-GW041911 | Ho-166m | Total | 0.28 | NA | 0.79 | NA |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-----------|-------|--------|----------------|
| WS-07 | SMWS-07-GW041911 | K-40 | Filtered | -9 U | 21 | 19 | 10 |
| WS-07 | SMWS-07-GW041911 | K-40 | Suspended | 7.9 | 12 | 3.2 | 5.7 |
| WS-07 | SMWS-07-GW041911 | K-40 | Total | -2 | NA | 19 | NA |
| WS-07 | SMWS-07-GW041911 | Na-22 | Filtered | -0.03 U | 1.6 | 0.45 | 0.74 |
| WS-07 | SMWS-07-GW041911 | Na-22 | Suspended | 0.06 U | 0.69 | 0.2 | 0.32 |
| WS-07 | SMWS-07-GW041911 | Na-22 | Total | 0.03 | NA | 0.49 | NA |
| WS-07 | SMWS-07-GW041911 | Nb-94 | Filtered | 0 U | 1.6 | 0.47 | 0.78 |
| WS-07 | SMWS-07-GW041911 | Nb-94 | Suspended | -0.11 U | 0.56 | 0.16 | 0.26 |
| WS-07 | SMWS-07-GW041911 | Nb-94 | Total | -0.11 | NA | 0.5 | NA |
| WS-07 | SMWS-07-GW041911 | Np-236 | Filtered | -0.01 U | 3.6 | 1.1 | 1.8 |
| WS-07 | SMWS-07-GW041911 | Np-236 | Suspended | 0.02 U | 1.2 | 0.36 | 0.6 |
| WS-07 | SMWS-07-GW041911 | Np-236 | Total | 0.002 | NA | 1.1 | NA |
| WS-07 | SMWS-07-GW041911 | Np-239 | Filtered | 1 U | 8.9 | 2.6 | 4.3 |
| WS-07 | SMWS-07-GW041911 | Np-239 | Suspended | 0.6 U | 3.8 | 1.1 | 1.9 |
| WS-07 | SMWS-07-GW041911 | Np-239 | Total | 1.7 | NA | 2.9 | NA |
| WS-07 | SMWS-07-GW041911 | Pa-231 | Filtered | -2 U | 61 | 18 | 29 |
| WS-07 | SMWS-07-GW041911 | Pa-231 | Suspended | -2.5 U | 26 | 7.6 | 12 |
| WS-07 | SMWS-07-GW041911 | Pa-231 | Total | -4 | NA | 19 | NA |
| WS-07 | SMWS-07-GW041911 | Pb-212 | Filtered | 1.02 U | 2.8 | 0.79 | 1.3 |
| WS-07 | SMWS-07-GW041911 | Pb-212 | Suspended | 0.24 U | 1.2 | 0.4 | 0.56 |
| WS-07 | SMWS-07-GW041911 | Pb-212 | Total | 1.26 | NA | 0.89 | NA |
| WS-07 | SMWS-07-GW041911 | Pb-214 | Filtered | 1.46 U | 3.1 | 0.94 | 1.5 |
| WS-07 | SMWS-07-GW041911 | Pb-214 | Suspended | 1.25 | 1.4 | 0.53 | 0.67 |
| WS-07 | SMWS-07-GW041911 | Pb-214 | Total | 2.7 | NA | 1.1 | NA |
| WS-07 | SMWS-07-GW041911 | Sb-125 | Filtered | 3.9 U | 16 | 4.9 | 7.9 |
| WS-07 | SMWS-07-GW041911 | Sb-125 | Suspended | 1.8 U | 6 | 1.8 | 2.9 |
| WS-07 | SMWS-07-GW041911 | Sb-125 | Total | 5.7 | NA | 5.2 | NA |
| WS-07 | SMWS-07-GW041911 | Sn-126 | Filtered | 0.4 U | 1.6 | 0.46 | 0.73 |
| WS-07 | SMWS-07-GW041911 | Sn-126 | Suspended | -0.05 U | 0.89 | 0.26 | 0.43 |
| WS-07 | SMWS-07-GW041911 | Sn-126 | Total | 0.35 | NA | 0.53 | NA |
| WS-07 | SMWS-07-GW041911 | Sr-90 | Filtered | 0 U | 0.15 | 0.044 | 0.087 |
| WS-07 | SMWS-07-GW041911 | Sr-90 | Suspended | -0.007 U | 0.064 | 0.018 | 0.034 |
| WS-07 | SMWS-07-GW041911 | Sr-90 | Total | -0.05 | NA | 0.057 | NA |
| WS-07 | SMWS-07-GW041911 | Te-125m | Filtered | 0.9 U | 3.8 | 1.1 | 1.8 |
| WS-07 | SMWS-07-GW041911 | Te-125m | Suspended | 0.41 U | 1.4 | 0.41 | 0.67 |
| WS-07 | SMWS-07-GW041911 | Te-125m | Total | 1.3 | NA | 1.2 | NA |
| WS-07 | SMWS-07-GW041911 | Th-231 | Filtered | 0.052 | 0.007 | 0.012 | 0.005 |
| WS-07 | SMWS-07-GW041911 | Th-231 | Suspended | -0.0021 U | 0.018 | 0.0021 | 0.0055 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|-------------|-------|--------|----------------|
| WS-07 | SMWS-07-GW041911 | Th-231 | Total | 0.05 | NA | 0.012 | NA |
| WS-07 | SMWS-07-GW041911 | Th-234 | Filtered | 0.5 U | 47 | 16 | 23 |
| WS-07 | SMWS-07-GW041911 | Th-234 | Suspended | 1.1 U | 8.8 | 2.5 | 4.3 |
| WS-07 | SMWS-07-GW041911 | Th-234 | Total | 2 | NA | 16 | NA |
| WS-07 | SMWS-07-GW041911 | Tl-208 | Filtered | 1.1 | 1.3 | 0.41 | 0.6 |
| WS-07 | SMWS-07-GW041911 | Tl-208 | Suspended | 0.14 U | 0.72 | 0.22 | 0.34 |
| WS-07 | SMWS-07-GW041911 | Tl-208 | Total | 1.25 | NA | 0.46 | NA |
| WS-07 | SMWS-07-GW041911 | Tm-171 | Filtered | -190 U | 740 | 220 | 360 |
| WS-07 | SMWS-07-GW041911 | Tm-171 | Suspended | 20 U | 120 | 35 | 57 |
| WS-07 | SMWS-07-GW041911 | Tm-171 | Total | -170 | NA | 230 | NA |
| WS-07 | SMWS-07-GW041911 | U-233/234 | Filtered | 1.19 | 0.014 | 0.071 | 0.004 |
| WS-07 | SMWS-07-GW041911 | U-233/234 | Suspended | -0.003 U | 0.022 | 0.0066 | 0.0088 |
| WS-07 | SMWS-07-GW041911 | U-233/234 | Total | 1.18 | NA | 0.071 | NA |
| WS-07 | SMWS-07-GW041911 | U-235/236 | Filtered | 0.052 | 0.007 | 0.012 | 0.005 |
| WS-07 | SMWS-07-GW041911 | U-235/236 | Suspended | -0.0021 U | 0.018 | 0.0021 | 0.0055 |
| WS-07 | SMWS-07-GW041911 | U-235/236 | Total | 0.05 | NA | 0.012 | NA |
| WS-07 | SMWS-07-GW041911 | U-238 | Filtered | 0.958 | 0.006 | 0.06 | 0.004 |
| WS-07 | SMWS-07-GW041911 | U-238 | Suspended | 0.0011 U | 0.018 | 0.0057 | 0.0062 |
| WS-07 | SMWS-07-GW041911 | U-238 | Total | 0.959 | NA | 0.061 | NA |
| WS-9A | SOWS-09A-GW060311 | Ac-227 | Filtered | -3.8 U | 13 | 3.9 | 6.4 |
| WS-9A | SOWS-09A-GW060311 | Ac-227 | Suspended | 0.04 U | 6.3 | 1.9 | 3.1 |
| WS-9A | SOWS-09A-GW060311 | Ac-227 | Total | -3.8 | NA | 4.4 | NA |
| WS-9A | SOWS-09A-GW060311 | Ac-228 | Filtered | 1.9 U | 6.6 | 1 | 3 |
| WS-9A | SOWS-09A-GW060311 | Ac-228 | Suspended | 1.07 U | 3.4 | 0.48 | 1.6 |
| WS-9A | SOWS-09A-GW060311 | Ac-228 | Total | 3 | NA | 1.1 | NA |
| WS-9A | SOWS-09A-GW060311 | Ag-108 | Filtered | -0.035 U R | 0.12 | 0.037 | 0.06 |
| WS-9A | SOWS-09A-GW060311 | Ag-108 | Suspended | 0.0029 U R | 0.065 | 0.002 | 0.031 |
| WS-9A | SOWS-09A-GW060311 | Ag-108 | Total | -0.032 R | NA | 0.037 | NA |
| WS-9A | SOWS-09A-GW060311 | Ag-108m | Filtered | -0.37 U R | 1.3 | 0.4 | 0.64 |
| WS-9A | SOWS-09A-GW060311 | Ag-108m | Suspended | 0.031 U R | 0.7 | 0.021 | 0.34 |
| WS-9A | SOWS-09A-GW060311 | Ag-108m | Total | -0.34 R | NA | 0.4 | NA |
| WS-9A | SOWS-09A-GW060311 | Ba-133 | Filtered | 0.42 U R | 1.2 | 0.35 | 0.55 |
| WS-9A | SOWS-09A-GW060311 | Ba-133 | Suspended | -0.0088 U R | 0.66 | 0.0054 | 0.32 |
| WS-9A | SOWS-09A-GW060311 | Ba-133 | Total | 0.41 R | NA | 0.35 | NA |
| WS-9A | SOWS-09A-GW060311 | Ba-137m | Filtered | 0.03 U | 1.1 | 0.31 | 0.51 |
| WS-9A | SOWS-09A-GW060311 | Ba-137m | Suspended | -0.03 U | 0.56 | 0.16 | 0.26 |
| WS-9A | SOWS-09A-GW060311 | Ba-137m | Total | 0.0004 | NA | 0.35 | NA |
| WS-9A | SOWS-09A-GW060311 | Bi-212 | Filtered | 3.6 U | 11 | 1.7 | 5 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|------|------|----------------|
| WS-9A | SOWS-09A-GW060311 | Bi-212 | Suspended | -2.2 U | 6.1 | 3.5 | 2.9 |
| WS-9A | SOWS-09A-GW060311 | Bi-212 | Total | 1.4 | NA | 3.9 | NA |
| WS-9A | SOWS-09A-GW060311 | Bi-214 | Filtered | 1.6 | 3 | 1.1 | 1.4 |
| WS-9A | SOWS-09A-GW060311 | Bi-214 | Suspended | 1.07 | 1.7 | 0.69 | 0.8 |
| WS-9A | SOWS-09A-GW060311 | Bi-214 | Total | 2.7 | NA | 1.3 | NA |
| WS-9A | SOWS-09A-GW060311 | Cd-113m | Filtered | -200 U | 3400 | 1000 | 1700 |
| WS-9A | SOWS-09A-GW060311 | Cd-113m | Suspended | 180 U | 1800 | 530 | 860 |
| WS-9A | SOWS-09A-GW060311 | Cd-113m | Total | -50 | NA | 1100 | NA |
| WS-9A | SOWS-09A-GW060311 | Cf-249 | Filtered | 0.44 U R | 6 | 0.3 | 2.9 |
| WS-9A | SOWS-09A-GW060311 | Cf-249 | Suspended | 0.37 U R | 2.9 | 0.85 | 1.4 |
| WS-9A | SOWS-09A-GW060311 | Cf-249 | Total | 0.81 R | NA | 0.91 | NA |
| WS-9A | SOWS-09A-GW060311 | Co-60 | Filtered | 0.53 U | 1.3 | 0.3 | 0.59 |
| WS-9A | SOWS-09A-GW060311 | Co-60 | Suspended | 0.14 U | 0.51 | 0.12 | 0.23 |
| WS-9A | SOWS-09A-GW060311 | Co-60 | Total | 0.67 | NA | 0.32 | NA |
| WS-9A | SOWS-09A-GW060311 | Cs-134 | Filtered | 0.32 U | 1.2 | 0.19 | 0.59 |
| WS-9A | SOWS-09A-GW060311 | Cs-134 | Suspended | 0.36 U | 0.78 | 0.14 | 0.38 |
| WS-9A | SOWS-09A-GW060311 | Cs-134 | Total | 0.68 | NA | 0.24 | NA |
| WS-9A | SOWS-09A-GW060311 | Cs-137 | Filtered | 0.03 U | 1.1 | 0.33 | 0.53 |
| WS-9A | SOWS-09A-GW060311 | Cs-137 | Suspended | -0.03 U | 0.59 | 0.17 | 0.28 |
| WS-9A | SOWS-09A-GW060311 | Cs-137 | Total | 0.0004 | NA | 0.37 | NA |
| WS-9A | SOWS-09A-GW060311 | Eu-152 | Filtered | 1.4 U | 3.3 | 1 | 1.6 |
| WS-9A | SOWS-09A-GW060311 | Eu-152 | Suspended | -0.07 U | 1.7 | 0.49 | 0.81 |
| WS-9A | SOWS-09A-GW060311 | Eu-152 | Total | 1.4 | NA | 1.1 | NA |
| WS-9A | SOWS-09A-GW060311 | Eu-154 | Filtered | 0.51 U | 7.2 | 0.85 | 3.4 |
| WS-9A | SOWS-09A-GW060311 | Eu-154 | Suspended | -0.26 U | 3.8 | 0.25 | 1.8 |
| WS-9A | SOWS-09A-GW060311 | Eu-154 | Total | 0.25 | NA | 0.89 | NA |
| WS-9A | SOWS-09A-GW060311 | Eu-155 | Filtered | 0.17 U | 2.6 | 0.77 | 1.3 |
| WS-9A | SOWS-09A-GW060311 | Eu-155 | Suspended | 0.16 U | 1.1 | 0.34 | 0.55 |
| WS-9A | SOWS-09A-GW060311 | Eu-155 | Total | 0.33 | NA | 0.84 | NA |
| WS-9A | SOWS-09A-GW060311 | gross_alpha | Filtered | 1.64 | 0.47 | 0.28 | 0.24 |
| WS-9A | SOWS-09A-GW060311 | gross_alpha | Suspended | 0.37 U | 0.77 | 0.24 | 0.42 |
| WS-9A | SOWS-09A-GW060311 | gross_alpha | Total | 2.01 | NA | 0.36 | NA |
| WS-9A | SOWS-09A-GW060311 | gross_beta | Filtered | 2.36 | 2.4 | 0.8 | 1.5 |
| WS-9A | SOWS-09A-GW060311 | gross_beta | Suspended | -0.1 U | 0.97 | 0.27 | 0.59 |
| WS-9A | SOWS-09A-GW060311 | gross_beta | Total | 2.26 | NA | 0.84 | NA |
| WS-9A | SOWS-09A-GW060311 | H-3 | Total | -14 U | 140 | 42 | 70 |
| WS-9A | SOWS-09A-GW060311 | Ho-166m | Filtered | 0.35 U | 1.7 | 0.4 | 0.77 |
| WS-9A | SOWS-09A-GW060311 | Ho-166m | Suspended | 0.11 U | 0.97 | 0.28 | 0.46 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| WS-9A | SOWS-09A-GW060311 | Ho-166m | Total | 0.46 | NA | 0.49 | NA |
| WS-9A | SOWS-09A-GW060311 | K-40 | Filtered | -5.6 U | 18 | 8.8 | 8.4 |
| WS-9A | SOWS-09A-GW060311 | K-40 | Suspended | 0.2 U | 7.6 | 1.8 | 3.6 |
| WS-9A | SOWS-09A-GW060311 | K-40 | Total | -5.3 | NA | 8.9 | NA |
| WS-9A | SOWS-09A-GW060311 | Na-22 | Filtered | 0 U | 1.7 | 0.29 | 0.82 |
| WS-9A | SOWS-09A-GW060311 | Na-22 | Suspended | -0.04 U | 0.68 | 0.19 | 0.32 |
| WS-9A | SOWS-09A-GW060311 | Na-22 | Total | -0.04 | NA | 0.34 | NA |
| WS-9A | SOWS-09A-GW060311 | Nb-94 | Filtered | -0.21 U | 1.1 | 0.32 | 0.51 |
| WS-9A | SOWS-09A-GW060311 | Nb-94 | Suspended | -0.01 U | 0.62 | 0.18 | 0.29 |
| WS-9A | SOWS-09A-GW060311 | Nb-94 | Total | -0.22 | NA | 0.36 | NA |
| WS-9A | SOWS-09A-GW060311 | Np-236 | Filtered | -0.37 U | 3 | 0.88 | 1.4 |
| WS-9A | SOWS-09A-GW060311 | Np-236 | Suspended | -0.004 U | 1 | 0.31 | 0.51 |
| WS-9A | SOWS-09A-GW060311 | Np-236 | Total | -0.38 | NA | 0.94 | NA |
| WS-9A | SOWS-09A-GW060311 | Np-239 | Filtered | -1.9 U | 7.7 | 2.3 | 3.7 |
| WS-9A | SOWS-09A-GW060311 | Np-239 | Suspended | 0.1 U | 3.6 | 1.1 | 1.8 |
| WS-9A | SOWS-09A-GW060311 | Np-239 | Total | -1.8 | NA | 2.6 | NA |
| WS-9A | SOWS-09A-GW060311 | Pa-231 | Filtered | -2 U | 56 | 16 | 27 |
| WS-9A | SOWS-09A-GW060311 | Pa-231 | Suspended | -6.6 U | 27 | 8 | 13 |
| WS-9A | SOWS-09A-GW060311 | Pa-231 | Total | -9 | NA | 18 | NA |
| WS-9A | SOWS-09A-GW060311 | Pb-212 | Filtered | 0.99 U | 2.3 | 0.76 | 1.1 |
| WS-9A | SOWS-09A-GW060311 | Pb-212 | Suspended | 0.4 U | 1.2 | 0.4 | 0.6 |
| WS-9A | SOWS-09A-GW060311 | Pb-212 | Total | 1.39 | NA | 0.86 | NA |
| WS-9A | SOWS-09A-GW060311 | Pb-214 | Filtered | 0.83 U | 2.3 | 0.81 | 1.1 |
| WS-9A | SOWS-09A-GW060311 | Pb-214 | Suspended | 0.4 U | 1.4 | 0.51 | 0.68 |
| WS-9A | SOWS-09A-GW060311 | Pb-214 | Total | 1.24 | NA | 0.96 | NA |
| WS-9A | SOWS-09A-GW060311 | Sb-125 | Filtered | 0.82 U | 3.7 | 0.81 | 1.8 |
| WS-9A | SOWS-09A-GW060311 | Sb-125 | Suspended | 0.22 U | 1.7 | 0.24 | 0.8 |
| WS-9A | SOWS-09A-GW060311 | Sb-125 | Total | 1.05 | NA | 0.85 | NA |
| WS-9A | SOWS-09A-GW060311 | Sn-126 | Filtered | 0.25 U | 1.2 | 0.36 | 0.58 |
| WS-9A | SOWS-09A-GW060311 | Sn-126 | Suspended | 0.48 | 0.74 | 0.23 | 0.36 |
| WS-9A | SOWS-09A-GW060311 | Sn-126 | Total | 0.73 | NA | 0.43 | NA |
| WS-9A | SOWS-09A-GW060311 | Sr-90 | Filtered | 0.04 U | 0.15 | 0.044 | 0.084 |
| WS-9A | SOWS-09A-GW060311 | Sr-90 | Suspended | 0.071 K | 0.12 | 0.037 | 0.068 |
| WS-9A | SOWS-09A-GW060311 | Sr-90 | Total | 0.111 | NA | 0.058 | NA |
| WS-9A | SOWS-09A-GW060311 | Te-125m | Filtered | 0.19 U | 0.86 | 0.19 | 0.41 |
| WS-9A | SOWS-09A-GW060311 | Te-125m | Suspended | 0.052 U | 0.38 | 0.055 | 0.18 |
| WS-9A | SOWS-09A-GW060311 | Te-125m | Total | 0.24 | NA | 0.2 | NA |
| WS-9A | SOWS-09A-GW060311 | Th-231 | Filtered | 0.0177 | 0.0068 | 0.0067 | 0.0059 |

Table D.2
Radionuclide Analytical Results
Phase II Groundwater Sampling

| Well Identification | Sample Identification | Analyte Name | Analysis Basis | Activity | MDC | TPU | Critical Value |
|---------------------|-----------------------|--------------|----------------|----------|--------|--------|----------------|
| WS-9A | SOWS-09A-GW060311 | Th-231 | Suspended | 0 U | 0.0072 | 0.0027 | 0.0062 |
| WS-9A | SOWS-09A-GW060311 | Th-231 | Total | 0.0177 | NA | 0.0072 | NA |
| WS-9A | SOWS-09A-GW060311 | Th-234 | Filtered | 4.2 U | 15 | 5.2 | 7.5 |
| WS-9A | SOWS-09A-GW060311 | Th-234 | Suspended | 2 U | 5.9 | 1.5 | 2.9 |
| WS-9A | SOWS-09A-GW060311 | Th-234 | Total | 6.2 | NA | 5.4 | NA |
| WS-9A | SOWS-09A-GW060311 | Tl-208 | Filtered | 0.04 U | 1.4 | 0.22 | 0.69 |
| WS-9A | SOWS-09A-GW060311 | Tl-208 | Suspended | 0.14 U | 0.74 | 0.23 | 0.35 |
| WS-9A | SOWS-09A-GW060311 | Tl-208 | Total | 0.19 | NA | 0.31 | NA |
| WS-9A | SOWS-09A-GW060311 | Tm-171 | Filtered | 40 U | 360 | 110 | 170 |
| WS-9A | SOWS-09A-GW060311 | Tm-171 | Suspended | 12 U | 120 | 35 | 58 |
| WS-9A | SOWS-09A-GW060311 | Tm-171 | Total | 50 | NA | 110 | NA |
| WS-9A | SOWS-09A-GW060311 | U-233/234 | Filtered | 0.771 | 0.019 | 0.051 | 0.007 |
| WS-9A | SOWS-09A-GW060311 | U-233/234 | Suspended | 0.0107 | 0.0058 | 0.0048 | 0.005 |
| WS-9A | SOWS-09A-GW060311 | U-233/234 | Total | 0.782 | NA | 0.052 | NA |
| WS-9A | SOWS-09A-GW060311 | U-235/236 | Filtered | 0.0177 | 0.0068 | 0.0067 | 0.0059 |
| WS-9A | SOWS-09A-GW060311 | U-235/236 | Suspended | 0 U | 0.0072 | 0.0027 | 0.0062 |
| WS-9A | SOWS-09A-GW060311 | U-235/236 | Total | 0.0177 | NA | 0.0072 | NA |
| WS-9A | SOWS-09A-GW060311 | U-238 | Filtered | 0.568 | 0.03 | 0.042 | 0.012 |
| WS-9A | SOWS-09A-GW060311 | U-238 | Suspended | 0 U | 0.02 | 0.0043 | 0.007 |
| WS-9A | SOWS-09A-GW060311 | U-238 | Total | 0.568 | NA | 0.043 | NA |

Notes:

The MDC and Critical Value was not calculated for the "total" fraction of the sample as per the Quality Assurance Project Plan.

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

Reporting units in picocuries per liter

MDC - minimum detectable concentration

NA - not applicable

NORM - naturally occurring radioactive material

TPU - total propagated uncertainty

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 - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

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

R - The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

U - Not considered detected. 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.

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-13 | RD-13_082410_01 | Sb-125 | Dissolved | 1.61 U | 2.9 | 5 | SMRD-013-GW082410 | Sb-125 | Filtered | 0.09 U | 3.9 | 13 |
| RD-13 | RD-13_082410_01 | Sb-125 | Particulate | -1.13 U | 5.3 | 9.28 | SMRD-013-GW082410 | Sb-125 | Suspended | 0.1 U | 1.4 | 4.9 |
| RD-13 | RD-13_082410_01 | Cs-134 | Dissolved | -0.167 U | 1.1 | 1.91 | SMRD-013-GW082410 | Cs-134 | Filtered | -0.19 U | 0.46 | 1.6 |
| RD-13 | RD-13_082410_01 | Cs-134 | Particulate | -2.5 U | 2.6 | 4.84 | SMRD-013-GW082410 | Cs-134 | Suspended | 0.09 U | 0.17 | 0.58 |
| RD-13 | RD-13_082410_01 | Cs-137 | Dissolved | 1.59 U | 1.6 | 2.74 | SMRD-013-GW082410 | Cs-137 | Filtered | -0.4 U | 1.2 | 1.9 |
| RD-13 | RD-13_082410_01 | Cs-137 | Particulate | -0.33 U | 1.7 | 3.04 | SMRD-013-GW082410 | Cs-137 | Suspended | 0.31 | 0.17 | 0.55 |
| RD-13 | RD-13_082410_01 | Co-60 | Dissolved | -0.215 U | 0.97 | 1.79 | SMRD-013-GW082410 | Co-60 | Filtered | 0.009 U | 0.44 | 1.6 |
| RD-13 | RD-13_082410_01 | Co-60 | Particulate | -0.612 U | 2.1 | 3.89 | SMRD-013-GW082410 | Co-60 | Suspended | 0 U | 0.042 | 0.2 |
| RD-13 | RD-13_082410_01 | Eu-152 | Dissolved | -0.826 U | 3.5 | 6.04 | SMRD-013-GW082410 | Eu-152 | Filtered | -0.8 U | 1.3 | 4.5 |
| RD-13 | RD-13_082410_01 | Eu-152 | Particulate | 3.02 U | 5.3 | 8.97 | SMRD-013-GW082410 | Eu-152 | Suspended | -0.07 U | 0.33 | 1.2 |
| RD-13 | RD-13_082410_01 | Eu-154 | Dissolved | 1.02 U | 2.5 | 4.44 | SMRD-013-GW082410 | Eu-154 | Filtered | -2.4 U | 4.2 | 14 |
| RD-13 | RD-13_082410_01 | Eu-154 | Particulate | 0.006 U | 5.1 | 9.36 | SMRD-013-GW082410 | Eu-154 | Suspended | -0.6 U | 1.6 | 5.6 |
| RD-13 | RD-13_082410_01 | Eu-155 | Dissolved | 2.62 U | 3.4 | 5.74 | SMRD-013-GW082410 | Eu-155 | Filtered | 0 U | 0.95 | 3.2 |
| RD-13 | RD-13_082410_01 | Eu-155 | Particulate | 3.94 U | 5.2 | 8.81 | SMRD-013-GW082410 | Eu-155 | Suspended | 0.61 SK | 0.31 | 1 |
| RD-13 | RD-13_082410_01 | gross_alpha | Dissolved | 4.03 | 1.6 | 1.61 | SMRD-013-GW082410 | gross_alpha | Filtered | 5.84 | 0.55 | 0.4 |
| RD-13 | RD-13_082410_01 | gross_alpha | Particulate | 0.919 U | 0.79 | 1.17 | SMRD-013-GW082410 | gross_alpha | Suspended | 0.41 | 0.19 | 0.55 |
| RD-13 | RD-13_082410_01 | gross_beta | Dissolved | 4.62 | 2.2 | 3.29 | SMRD-013-GW082410 | gross_beta | Filtered | 5.5 | 1 | 2.8 |
| RD-13 | RD-13_082410_01 | gross_beta | Particulate | -0.661 U | 1.9 | 3.23 | SMRD-013-GW082410 | gross_beta | Suspended | 0.3 U | 0.22 | 0.72 |
| RD-13 | RD-13_082410_01 | K-40 | Dissolved | -2.47 U | 15 | 27 | SMRD-013-GW082410 | K-40 | Filtered | -19 U | 33 | 27 |
| RD-13 | RD-13_082410_01 | K-40 | Particulate | 2.75 U | 31 | 55.2 | SMRD-013-GW082410 | K-40 | Suspended | -2.2 U | 3.3 | 9.8 |
| RD-13 | RD-13_082410_01 | Na-22 | Dissolved | 0.353 U | 0.87 | 1.54 | SMRD-013-GW082410 | Na-22 | Filtered | 0.02 U | 0.53 | 1.9 |
| RD-13 | RD-13_082410_01 | Na-22 | Particulate | 0.002 U | 1.8 | 3.24 | SMRD-013-GW082410 | Na-22 | Suspended | 0.15 U | 0.16 | 0.56 |
| RD-13 | RD-13_082410_01 | Sr-90 | Dissolved | -0.1 U | 0.33 | 0.595 | SMRD-013-GW082410 | Sr-90 | Filtered | 0.111 U | 0.07 | 0.23 |
| RD-13 | RD-13_082410_01 | Sr-90 | Particulate | -0.088 U | 0.24 | 0.482 | SMRD-013-GW082410 | Sr-90 | Suspended | -0.023 U | 0.045 | 0.16 |
| RD-13 | RD-13_082410_01 | H-3 | Total | 73.3 U | 89 | 146 | SMRD-013-GW082410 | H-3 | Filtered | -28 U | 42 | 150 |
| RD-13 | RD-13_082410_01 | U-233/234 | Dissolved | 2.37 | 0.3 | 0.126 | SMRD-013-GW082410 | U-233/234 | Filtered | 2.54 | 0.16 | 0.04 |
| RD-13 | RD-13_082410_01 | U-233/234 | Particulate | 0 U | 0.024 | 0.074 | SMRD-013-GW082410 | U-233/234 | Suspended | -0.0112 U | 0.0098 | 0.04 |
| RD-13 | RD-13_082410_01 | U-235/236 | Dissolved | 0.1 J | 0.08 | 0.096 | SMRD-013-GW082410 | U-235/236 | Filtered | 0.064 | 0.021 | 0.038 |
| RD-13 | RD-13_082410_01 | U-235/236 | Particulate | 0 U | 0.015 | 0.056 | SMRD-013-GW082410 | U-235/236 | Suspended | -0.003 U | 0.0093 | 0.044 |
| RD-13 | RD-13_082410_01 | U-238 | Dissolved | 1.86 | 0.26 | 0.091 | SMRD-013-GW082410 | U-238 | Filtered | 1.85 | 0.12 | 0.04 |
| RD-13 | RD-13_082410_01 | U-238 | Particulate | -0.006 U | 0.012 | 0.046 | SMRD-013-GW082410 | U-238 | Suspended | 0.0032 U | 0.0092 | 0.029 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-14 | RD-14_081910_01 | Sb-125 | Dissolved | 1.1 U | 3.5 | 5.99 | SMRD-14-GW081910 | Sb-125 | Filtered | -1.6 U | 4 | 13 |
| RD-14 | RD-14_081910_01 | Sb-125 | Particulate | 0.616 U | 2.8 | 4.81 | SMRD-14-GW081910 | Sb-125 | Suspended | 1.8 U | 1.8 | 6 |
| RD-14 | RD-14_081910_01 | Cs-134 | Dissolved | 0.3 U | 1.5 | 2.62 | SMRD-14-GW081910 | Cs-134 | Filtered | -0.64 U | 0.51 | 1.7 |
| RD-14 | RD-14_081910_01 | Cs-134 | Particulate | -0.046 U | 2.2 | 2.67 | SMRD-14-GW081910 | Cs-134 | Suspended | -0.005 U | 0.23 | 0.78 |
| RD-14 | RD-14_081910_01 | Cs-137 | Dissolved | 0.223 U | 1.3 | 2.32 | SMRD-14-GW081910 | Cs-137 | Filtered | -0.23 U | 0.46 | 1.6 |
| RD-14 | RD-14_081910_01 | Cs-137 | Particulate | 0.471 U | 1.6 | 2.78 | SMRD-14-GW081910 | Cs-137 | Suspended | 0.18 U | 0.19 | 0.63 |
| RD-14 | RD-14_081910_01 | Co-60 | Dissolved | 0.662 U | 1.2 | 2 | SMRD-14-GW081910 | Co-60 | Filtered | 0.37 U | 0.38 | 1.3 |
| RD-14 | RD-14_081910_01 | Co-60 | Particulate | -0.565 U | 1.1 | 2.2 | SMRD-14-GW081910 | Co-60 | Suspended | 0.28 U | 0.2 | 0.67 |
| RD-14 | RD-14_081910_01 | Eu-152 | Dissolved | -2.04 U | 4.3 | 7.49 | SMRD-14-GW081910 | Eu-152 | Filtered | 0.17 U | 0.87 | 3 |
| RD-14 | RD-14_081910_01 | Eu-152 | Particulate | 1.24 U | 4.1 | 7.14 | SMRD-14-GW081910 | Eu-152 | Suspended | -0.38 U | 0.53 | 1.8 |
| RD-14 | RD-14_081910_01 | Eu-154 | Dissolved | -0.015 U | 2.5 | 4.52 | SMRD-14-GW081910 | Eu-154 | Filtered | 2.6 U | 3.2 | 11 |
| RD-14 | RD-14_081910_01 | Eu-154 | Particulate | -0.692 U | 2.4 | 4.69 | SMRD-14-GW081910 | Eu-154 | Suspended | 2.2 U | 1.6 | 5.5 |
| RD-14 | RD-14_081910_01 | Eu-155 | Dissolved | -2.65 U | 6.4 | 10.9 | SMRD-14-GW081910 | Eu-155 | Filtered | -0.2 U | 0.64 | 2.2 |
| RD-14 | RD-14_081910_01 | Eu-155 | Particulate | 0.477 U | 3.8 | 6.55 | SMRD-14-GW081910 | Eu-155 | Suspended | 0.05 U | 0.35 | 1.2 |
| RD-14 | RD-14_081910_01 | gross_alpha | Dissolved | 2.21 J | 1.3 | 1.6 | SMRD-14-GW081910 | gross_alpha | Filtered | 3.92 | 0.39 | 0.51 |
| RD-14 | RD-14_081910_01 | gross_alpha | Particulate | 2.7 J | 0.93 | 0.938 | SMRD-14-GW081910 | gross_alpha | Suspended | 1.02 | 0.27 | 0.64 |
| RD-14 | RD-14_081910_01 | gross_beta | Dissolved | 5.88 | 1.8 | 2.7 | SMRD-14-GW081910 | gross_beta | Filtered | 4.93 | 0.57 | 1.2 |
| RD-14 | RD-14_081910_01 | gross_beta | Particulate | 2.03 U | 1.6 | 2.57 | SMRD-14-GW081910 | gross_beta | Suspended | 1.51 | 0.3 | 0.8 |
| RD-14 | RD-14_081910_01 | K-40 | Dissolved | -4.1 U | 20 | 35.5 | SMRD-14-GW081910 | K-40 | Filtered | 29.5 | 5 | 6.9 |
| RD-14 | RD-14_081910_01 | K-40 | Particulate | -2.84 U | 19 | 34.3 | SMRD-14-GW081910 | K-40 | Suspended | 5.7 | 3.6 | 12 |
| RD-14 | RD-14_081910_01 | Na-22 | Dissolved | -0.005 U | 0.86 | 1.57 | SMRD-14-GW081910 | Na-22 | Filtered | -0.38 U | 0.47 | 1.6 |
| RD-14 | RD-14_081910_01 | Na-22 | Particulate | -0.239 U | 0.83 | 1.62 | SMRD-14-GW081910 | Na-22 | Suspended | 0.18 U | 0.24 | 0.81 |
| RD-14 | RD-14_081910_01 | Sr-90 | Dissolved | 0.084 U | 0.34 | 0.622 | SMRD-14-GW081910 | Sr-90 | Suspended | -0.005 U | 0.021 | 0.074 |
| RD-14 | RD-14_081910_01 | H-3 | Total | -41.7 U | 91 | 156 | SMRD-14-GW081910 | H-3 | Filtered | 6 U | 41 | 140 |
| RD-14 | RD-14_081910_01 | U-233/234 | Dissolved | 2.08 | 0.21 | 0.069 | SMRD-14-GW081910 | U-233/234 | Filtered | 2.35 | 0.14 | 0.04 |
| RD-14 | RD-14_081910_01 | U-233/234 | Particulate | 0.082 J | 0.047 | 0.064 | SMRD-14-GW081910 | U-233/234 | Suspended | 0.013 U | 0.014 | 0.043 |
| RD-14 | RD-14_081910_01 | U-235/236 | Dissolved | 0.081 J | 0.044 | 0.052 | SMRD-14-GW081910 | U-235/236 | Filtered | 0.104 | 0.027 | 0.044 |
| RD-14 | RD-14_081910_01 | U-235/236 | Particulate | 0.007 U | 0.014 | 0.054 | SMRD-14-GW081910 | U-235/236 | Suspended | 0 U | 0.0021 | 0.015 |
| RD-14 | RD-14_081910_01 | U-238 | Dissolved | 1.59 | 0.18 | 0.05 | SMRD-14-GW081910 | U-238 | Filtered | 2.07 | 0.13 | 0.01 |
| RD-14 | RD-14_081910_01 | U-238 | Particulate | 0.017 U | 0.023 | 0.056 | SMRD-14-GW081910 | U-238 | Suspended | 0.022 | 0.012 | 0.028 |
| RD-18 | RD-18_081910_01 | Sb-125 | Dissolved | 0.635 U | 2.7 | 4.75 | SMRD-18-GW081910 | Sb-125 | Filtered | -0.2 U | 3.6 | 12 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-18 | RD-18_081910_01 | Sb-125 | Particulate | 0.536 U | 5.5 | 9.52 | SMRD-18-GW081910 | Sb-125 | Suspended | -0.5 U | 1.7 | 5.6 |
| RD-18 | RD-18_081910_01 | Cs-134 | Dissolved | -0.34 U | 1.3 | 2.25 | SMRD-18-GW081910 | Cs-134 | Filtered | -0.33 U | 0.45 | 1.5 |
| RD-18 | RD-18_081910_01 | Cs-134 | Particulate | 1.52 U | 2.7 | 3.55 | SMRD-18-GW081910 | Cs-134 | Suspended | 0.004 U | 0.27 | 0.92 |
| RD-18 | RD-18_081910_01 | Cs-137 | Dissolved | 0.431 U | 1.2 | 2.01 | SMRD-18-GW081910 | Cs-137 | Filtered | 0.38 U | 0.33 | 1.1 |
| RD-18 | RD-18_081910_01 | Cs-137 | Particulate | -0.373 U | 1.7 | 2.99 | SMRD-18-GW081910 | Cs-137 | Suspended | 0.17 U | 0.2 | 0.69 |
| RD-18 | RD-18_081910_01 | Co-60 | Dissolved | -0.115 U | 1.4 | 2.52 | SMRD-18-GW081910 | Co-60 | Filtered | -0.01 U | 0.35 | 1.2 |
| RD-18 | RD-18_081910_01 | Co-60 | Particulate | 0.1 U | 2.3 | 4.02 | SMRD-18-GW081910 | Co-60 | Suspended | 0.004 U | 0.22 | 0.78 |
| RD-18 | RD-18_081910_01 | Eu-152 | Dissolved | -2.78 U | 4.5 | 7.88 | SMRD-18-GW081910 | Eu-152 | Filtered | -0.5 U | 1 | 3.4 |
| RD-18 | RD-18_081910_01 | Eu-152 | Particulate | 0.853 U | 4.6 | 7.97 | SMRD-18-GW081910 | Eu-152 | Suspended | 0.34 U | 0.53 | 1.8 |
| RD-18 | RD-18_081910_01 | Eu-154 | Dissolved | -0.584 U | 2 | 3.81 | SMRD-18-GW081910 | Eu-154 | Filtered | -1 U | 2.7 | 9.5 |
| RD-18 | RD-18_081910_01 | Eu-154 | Particulate | -2.32 U | 3.6 | 7.04 | SMRD-18-GW081910 | Eu-154 | Suspended | 2.1 U | 1.7 | 5.6 |
| RD-18 | RD-18_081910_01 | Eu-155 | Dissolved | 2.06 U | 3.2 | 5.43 | SMRD-18-GW081910 | Eu-155 | Filtered | 0.6 U | 1 | 3.4 |
| RD-18 | RD-18_081910_01 | Eu-155 | Particulate | 2.83 U | 3.4 | 5.75 | SMRD-18-GW081910 | Eu-155 | Suspended | 0.38 U | 0.31 | 1 |
| RD-18 | RD-18_081910_01 | gross_alpha | Dissolved | 5.94 | 1.3 | 1.17 | SMRD-18-GW081910 | gross_alpha | Filtered | 5.84 | 0.49 | 0.41 |
| RD-18 | RD-18_081910_01 | gross_alpha | Particulate | 0.158 U | 0.28 | 0.528 | SMRD-18-GW081910 | gross_alpha | Suspended | 9.67 | 0.92 | 0.9 |
| RD-18 | RD-18_081910_01 | gross_beta | Dissolved | 6.88 | 1.6 | 2.54 | SMRD-18-GW081910 | gross_beta | Filtered | 5.19 | 0.56 | 1.1 |
| RD-18 | RD-18_081910_01 | gross_beta | Particulate | -0.824 U | 0.88 | 1.58 | SMRD-18-GW081910 | gross_beta | Suspended | 0.62 | 0.27 | 0.83 |
| RD-18 | RD-18_081910_01 | K-40 | Dissolved | 7.88 U | 12 | 20 | SMRD-18-GW081910 | K-40 | Filtered | 2.4 U | 5.9 | 23 |
| RD-18 | RD-18_081910_01 | K-40 | Particulate | -11.4 U | 22 | 40.6 | SMRD-18-GW081910 | K-40 | Suspended | 2.6 U | 3.1 | 9.6 |
| RD-18 | RD-18_081910_01 | Na-22 | Dissolved | -0.202 U | 0.68 | 1.32 | SMRD-18-GW081910 | Na-22 | Filtered | -0.13 U | 0.34 | 1.2 |
| RD-18 | RD-18_081910_01 | Na-22 | Particulate | -0.804 U | 1.2 | 2.44 | SMRD-18-GW081910 | Na-22 | Suspended | 0.33 | 0.21 | 0.71 |
| RD-18 | RD-18_081910_01 | Sr-90 | Dissolved | -0.116 U | 0.31 | 0.602 | SMRD-18-GW081910 | Sr-90 | Suspended | -0.004 U | 0.024 | 0.083 |
| RD-18 | RD-18_081910_01 | H-3 | Total | -4.53 U | 90 | 153 | SMRD-18-GW081910 | H-3 | Filtered | -4 U | 41 | 140 |
| RD-18 | RD-18_081910_01 | U-233/234 | Dissolved | 3.05 | 0.26 | 0.066 | SMRD-18-GW081910 | U-233/234 | Filtered | 3.39 | 0.19 | 0.05 |
| RD-18 | RD-18_081910_01 | U-233/234 | Particulate | 0.032 U | 0.043 | 0.072 | SMRD-18-GW081910 | U-233/234 | Suspended | 0.015 U | 0.014 | 0.042 |
| RD-18 | RD-18_081910_01 | U-235/236 | Dissolved | 0.139 J | 0.056 | 0.043 | SMRD-18-GW081910 | U-235/236 | Filtered | 0.146 | 0.031 | 0.036 |
| RD-18 | RD-18_081910_01 | U-235/236 | Particulate | 0.007 U | 0.026 | 0.063 | SMRD-18-GW081910 | U-235/236 | Suspended | 0.0094 | 0.0085 | 0.029 |
| RD-18 | RD-18_081910_01 | U-238 | Dissolved | 2.57 | 0.24 | 0.057 | SMRD-18-GW081910 | U-238 | Filtered | 2.48 | 0.15 | 0.04 |
| RD-18 | RD-18_081910_01 | U-238 | Particulate | 0.005 U | 0.022 | 0.06 | SMRD-18-GW081910 | U-238 | Suspended | 0.018 | 0.013 | 0.035 |
| RD-19 | RD-19_081910_01 | Sb-125 | Dissolved | 1.92 U | 4.4 | 7.62 | SMRD-019-GW081910 | Sb-125 | Filtered | 0.9 U | 4.9 | 16 |
| RD-19 | RD-19_081910_01 | Sb-125 | Particulate | -0.859 U | 3.7 | 6.63 | SMRD-019-GW081910 | Sb-125 | Suspended | 1.3 U | 1.6 | 5.2 |

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Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-19 | RD-19_081910_01 | Cs-134 | Dissolved | -0.609 U | 1.9 | 3.59 | SMRD-019-GW081910 | Cs-134 | Filtered | 0.32 U | 0.46 | 1.5 |
| RD-19 | RD-19_081910_01 | Cs-134 | Particulate | 0.056 U | 2.2 | 3.97 | SMRD-019-GW081910 | Cs-134 | Suspended | 0.337 U | 0.099 | 0.73 |
| RD-19 | RD-19_081910_01 | Cs-137 | Dissolved | 1.52 U | 2.3 | 3.93 | SMRD-019-GW081910 | Cs-137 | Filtered | 0.6 U | 0.41 | 1.4 |
| RD-19 | RD-19_081910_01 | Cs-137 | Particulate | 0.184 U | 2 | 3.61 | SMRD-019-GW081910 | Cs-137 | Suspended | 0.02 U | 0.23 | 0.78 |
| RD-19 | RD-19_081910_01 | Co-60 | Dissolved | 0.752 U | 2.1 | 3.78 | SMRD-019-GW081910 | Co-60 | Filtered | 0.55 U | 0.41 | 1.4 |
| RD-19 | RD-19_081910_01 | Co-60 | Particulate | -1.68 U | 1.9 | 3.84 | SMRD-019-GW081910 | Co-60 | Suspended | 0.1 U | 0.19 | 0.65 |
| RD-19 | RD-19_081910_01 | Eu-152 | Dissolved | 2.2 U | 10 | 17.7 | SMRD-019-GW081910 | Eu-152 | Filtered | 1 U | 1.2 | 4.1 |
| RD-19 | RD-19_081910_01 | Eu-152 | Particulate | -4.27 U | 5.2 | 9.36 | SMRD-019-GW081910 | Eu-152 | Suspended | 0.02 U | 0.5 | 1.7 |
| RD-19 | RD-19_081910_01 | Eu-154 | Dissolved | -1.32 U | 5.9 | 11 | SMRD-019-GW081910 | Eu-154 | Filtered | -1.3 U | 3.3 | 11 |
| RD-19 | RD-19_081910_01 | Eu-154 | Particulate | -3.04 U | 5.1 | 9.99 | SMRD-019-GW081910 | Eu-154 | Suspended | 1.3 U | 1.6 | 5.5 |
| RD-19 | RD-19_081910_01 | Eu-155 | Dissolved | 5.45 U | 8.2 | 13.8 | SMRD-019-GW081910 | Eu-155 | Filtered | 0.7 U | 1.3 | 4.2 |
| RD-19 | RD-19_081910_01 | Eu-155 | Particulate | 0.726 U | 4.7 | 8.04 | SMRD-019-GW081910 | Eu-155 | Suspended | -0.24 U | 0.34 | 1.1 |
| RD-19 | RD-19_081910_01 | gross_alpha | Dissolved | 20.5 | 5.6 | 5.51 | SMRD-019-GW081910 | gross_alpha | Filtered | 29.1 | 1.9 | 0.4 |
| RD-19 | RD-19_081910_01 | gross_alpha | Particulate | 0.081 U | 0.7 | 1.48 | SMRD-019-GW081910 | gross_alpha | Suspended | 0.47 | 0.16 | 0.41 |
| RD-19 | RD-19_081910_01 | gross_beta | Dissolved | 18 | 4.4 | 5.87 | SMRD-019-GW081910 | gross_beta | Filtered | 16.8 | 2.5 | 6.1 |
| RD-19 | RD-19_081910_01 | gross_beta | Particulate | 1.84 U | 3.6 | 6.18 | SMRD-019-GW081910 | gross_beta | Suspended | 0.99 | 0.23 | 0.64 |
| RD-19 | RD-19_081910_01 | K-40 | Dissolved | 7.96 U | 40 | 68.9 | SMRD-019-GW081910 | K-40 | Filtered | -11.5 U | 9.4 | 21 |
| RD-19 | RD-19_081910_01 | K-40 | Particulate | -14.9 U | 36 | 65 | SMRD-019-GW081910 | K-40 | Suspended | -4.4 U | 4.1 | 12 |
| RD-19 | RD-19_081910_01 | Na-22 | Dissolved | -0.459 U | 2 | 3.82 | SMRD-019-GW081910 | Na-22 | Filtered | -0.16 U | 0.41 | 1.4 |
| RD-19 | RD-19_081910_01 | Na-22 | Particulate | -1.05 U | 1.8 | 3.45 | SMRD-019-GW081910 | Na-22 | Suspended | 0.23 U | 0.2 | 0.69 |
| RD-19 | RD-19_081910_01 | Sr-90 | Dissolved | -0.095 U | 0.28 | 0.57 | SMRD-019-GW081910 | Sr-90 | Filtered | 0.01 U | 0.071 | 0.25 |
| RD-19 | RD-19_081910_01 | Sr-90 | Particulate | 0.111 U | 0.3 | 0.57 | SMRD-019-GW081910 | Sr-90 | Suspended | -0.053 U | 0.046 | 0.17 |
| RD-19 | RD-19_081910_01 | H-3 | Total | 9.53 U | 95 | 161 | SMRD-019-GW081910 | H-3 | Filtered | -43 U | 42 | 150 |
| RD-19 | RD-19_081910_01 | U-233/234 | Dissolved | 13.3 | 0.54 | 0.095 | SMRD-019-GW081910 | U-233/234 | Filtered | 14.1 | 0.66 | 0.04 |
| RD-19 | RD-19_081910_01 | U-233/234 | Particulate | 0.041 U | 0.081 | 0.138 | SMRD-019-GW081910 | U-233/234 | Suspended | 0.028 | 0.014 | 0.027 |
| RD-19 | RD-19_081910_01 | U-235/236 | Dissolved | 1.05 | 0.13 | 0.048 | SMRD-019-GW081910 | U-235/236 | Filtered | 0.719 | 0.083 | 0.049 |
| RD-19 | RD-19_081910_01 | U-235/236 | Particulate | 0 U | 0.033 | 0.091 | SMRD-019-GW081910 | U-235/236 | Suspended | -0.0021 U | 0.0066 | 0.028 |
| RD-19 | RD-19_081910_01 | U-238 | Dissolved | 12.2 | 0.51 | 0.09 | SMRD-019-GW081910 | U-238 | Filtered | 13.3 | 0.63 | 0.04 |
| RD-19 | RD-19_081910_01 | U-238 | Particulate | 0 U | 0.041 | 0.084 | SMRD-019-GW081910 | U-238 | Suspended | 0.027 | 0.013 | 0.023 |
| RD-33A | RD-33A_081810_01A | Sb-125 | Dissolved | -3.83 U | 4.6 | 8 | SMRD-33A-GW081810 | Sb-125 | Filtered | 0.8 U | 4.7 | 16 |
| RD-33A | RD-33A_081810_01A | Sb-125 | Particulate | -0.196 U | 3.1 | 5.38 | SMRD-33A-GW081810 | Sb-125 | Suspended | 0.8 U | 1.7 | 5.7 |

**Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)**

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-33A | RD-33A_081810_01A | Cs-134 | Dissolved | 0.021 U | 2.1 | 3.68 | SMRD-33A-GW081810 | Cs-134 | Filtered | 0.04 U | 0.48 | 1.6 |
| RD-33A | RD-33A_081810_01A | Cs-134 | Particulate | -1 U | 2.1 | 3.77 | SMRD-33A-GW081810 | Cs-134 | Suspended | -0.17 U | 0.22 | 0.75 |
| RD-33A | RD-33A_081810_01A | Cs-137 | Dissolved | -1.47 U | 2 | 3.49 | SMRD-33A-GW081810 | Cs-137 | Filtered | -0.31 U | 0.46 | 1.6 |
| RD-33A | RD-33A_081810_01A | Cs-137 | Particulate | 1.96 U | 2.5 | 4.26 | SMRD-33A-GW081810 | Cs-137 | Suspended | 0.14 U | 0.18 | 0.62 |
| RD-33A | RD-33A_081810_01A | Co-60 | Dissolved | -0.291 U | 1.4 | 2.57 | SMRD-33A-GW081810 | Co-60 | Filtered | 0.66 | 0.43 | 1.4 |
| RD-33A | RD-33A_081810_01A | Co-60 | Particulate | -0.351 U | 2 | 3.59 | SMRD-33A-GW081810 | Co-60 | Suspended | 0 U | 0.3 | 1 |
| RD-33A | RD-33A_081810_01A | Eu-152 | Dissolved | -3.9 U | 5.6 | 9.7 | SMRD-33A-GW081810 | Eu-152 | Filtered | 0.2 U | 1.2 | 4.1 |
| RD-33A | RD-33A_081810_01A | Eu-152 | Particulate | 1.41 U | 4.7 | 8.12 | SMRD-33A-GW081810 | Eu-152 | Suspended | -0.16 U | 0.51 | 1.7 |
| RD-33A | RD-33A_081810_01A | Eu-154 | Dissolved | 0.214 U | 3.2 | 5.78 | SMRD-33A-GW081810 | Eu-154 | Filtered | -0.02 U | 3.5 | 12 |
| RD-33A | RD-33A_081810_01A | Eu-154 | Particulate | 2.24 U | 4.7 | 8.12 | SMRD-33A-GW081810 | Eu-154 | Suspended | -1.2 U | 1.7 | 5.9 |
| RD-33A | RD-33A_081810_01A | Eu-155 | Dissolved | 0.135 U | 3.8 | 6.55 | SMRD-33A-GW081810 | Eu-155 | Filtered | 1.5 U | 1.2 | 4 |
| RD-33A | RD-33A_081810_01A | Eu-155 | Particulate | 0.444 U | 4.9 | 8.29 | SMRD-33A-GW081810 | Eu-155 | Suspended | -0.15 U | 0.34 | 1.1 |
| RD-33A | RD-33A_081810_01A | gross_beta | Dissolved | 7.32 | 1.1 | 1.25 | SMRD-33A-GW081810 | gross_beta | Filtered | 4.64 | 0.74 | 1.8 |
| RD-33A | RD-33A_081810_01A | gross_beta | Particulate | 0.504 U | 1 | 1.76 | SMRD-33A-GW081810 | gross_beta | Suspended | 0.33 U | 0.2 | 0.67 |
| RD-33A | RD-33A_081810_01A | K-40 | Dissolved | 18.7 U | 27 | 46 | SMRD-33A-GW081810 | K-40 | Filtered | 13.7 | 7 | 19 |
| RD-33A | RD-33A_081810_01A | K-40 | Particulate | 4.54 U | 6.9 | 51.4 | SMRD-33A-GW081810 | K-40 | Suspended | 2.2 U | 3 | 11 |
| RD-33A | RD-33A_081810_01A | Na-22 | Dissolved | 0.073 U | 1.1 | 1.97 | SMRD-33A-GW081810 | Na-22 | Filtered | 0.22 U | 0.37 | 1.3 |
| RD-33A | RD-33A_081810_01A | Na-22 | Particulate | 0.765 U | 1.6 | 2.77 | SMRD-33A-GW081810 | Na-22 | Suspended | -0.13 U | 0.22 | 0.74 |
| RD-33A | RD-33A_081810_01A | Sr-90 | Dissolved | -0.043 U | 0.36 | 0.652 | SMRD-33A-GW081810 | Sr-90 | Filtered | -0.03 U | 0.067 | 0.24 |
| RD-33A | RD-33A_081810_01A | Sr-90 | Particulate | -0.119 U | 0.28 | 0.571 | SMRD-33A-GW081810 | Sr-90 | Suspended | -0.005 U | 0.054 | 0.19 |
| RD-33A | RD-33A_081810_01A | H-3 | Total | 64.8 U | 310 | 121 | SMRD-33A-GW081810 | H-3 | Filtered | 30 U | 43 | 150 |
| RD-33A | RD-33A_081810_01A | U-233/234 | Dissolved | 1.79 | 0.22 | 0.082 | SMRD-33A-GW081810 | U-233/234 | Filtered | 1.61 | 0.11 | 0.07 |
| RD-33A | RD-33A_081810_01A | U-233/234 | Particulate | 0 U | 0.023 | 0.07 | SMRD-33A-GW081810 | U-233/234 | Suspended | 0.004 U | 0.011 | 0.034 |
| RD-33A | RD-33A_081810_01A | U-235/236 | Dissolved | 0.059 J | 0.044 | 0.056 | SMRD-33A-GW081810 | U-235/236 | Filtered | 0.031 | 0.017 | 0.048 |
| RD-33A | RD-33A_081810_01A | U-235/236 | Particulate | 0 U | 0.014 | 0.053 | SMRD-33A-GW081810 | U-235/236 | Suspended | -0.0069 U | 0.009 | 0.042 |
| RD-33A | RD-33A_081810_01A | U-238 | Dissolved | 1.02 | 0.16 | 0.067 | SMRD-33A-GW081810 | U-238 | Filtered | 1.17 | 0.091 | 0.047 |
| RD-33A | RD-33A_081810_01A | U-238 | Particulate | 0.023 U | 0.023 | 0.044 | SMRD-33A-GW081810 | U-238 | Suspended | 0.0036 U | 0.0096 | 0.03 |
| RD-33B | RD-33B_090210_01 | Sb-125 | Dissolved | -0.013 U | 2.7 | 4.79 | SMRD-33B-GW090210 | Sb-125 | Filtered | -2.5 U | 4.1 | 14 |
| RD-33B | RD-33B_090210_01 | Sb-125 | Particulate | 4.5 U | 5.6 | 9.37 | SMRD-33B-GW090210 | Sb-125 | Suspended | 1.5 U | 1.3 | 4.3 |
| RD-33B | RD-33B_090210_01 | Cs-134 | Dissolved | 0.648 U | 0.82 | 1.39 | SMRD-33B-GW090210 | Cs-134 | Filtered | 0.55 U | 0.43 | 1.4 |
| RD-33B | RD-33B_090210_01 | Cs-134 | Particulate | 2.24 U | 3 | 5.12 | SMRD-33B-GW090210 | Cs-134 | Suspended | 0.006 U | 0.14 | 0.49 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-33B | RD-33B_090210_01 | Cs-137 | Dissolved | -0.236 U | 1.1 | 1.9 | SMRD-33B-GW090210 | Cs-137 | Filtered | 0.17 U | 0.46 | 1.6 |
| RD-33B | RD-33B_090210_01 | Cs-137 | Particulate | 1.55 U | 2.6 | 4.38 | SMRD-33B-GW090210 | Cs-137 | Suspended | -0.18 U | 0.2 | 0.66 |
| RD-33B | RD-33B_090210_01 | Co-60 | Dissolved | -0.207 U | 1 | 1.86 | SMRD-33B-GW090210 | Co-60 | Filtered | -0.23 U | 0.45 | 1.6 |
| RD-33B | RD-33B_090210_01 | Co-60 | Particulate | 0.943 U | 2.6 | 4.5 | SMRD-33B-GW090210 | Co-60 | Suspended | -0.0001 U | 0.18 | 0.66 |
| RD-33B | RD-33B_090210_01 | Eu-152 | Dissolved | -1.6 U | 2.4 | 5.34 | SMRD-33B-GW090210 | Eu-152 | Filtered | 0.02 U | 0.84 | 2.9 |
| RD-33B | RD-33B_090210_01 | Eu-152 | Particulate | 1.54 U | 2.8 | 7.84 | SMRD-33B-GW090210 | Eu-152 | Suspended | 0.31 U | 0.42 | 1.4 |
| RD-33B | RD-33B_090210_01 | Eu-154 | Dissolved | -0.984 U | 2.2 | 4.32 | SMRD-33B-GW090210 | Eu-154 | Filtered | 0.1 U | 3.4 | 12 |
| RD-33B | RD-33B_090210_01 | Eu-154 | Particulate | 0.296 U | 3.7 | 6.82 | SMRD-33B-GW090210 | Eu-154 | Suspended | -1 U | 1.6 | 5.4 |
| RD-33B | RD-33B_090210_01 | Eu-155 | Dissolved | 2.4 U | 3.2 | 5.33 | SMRD-33B-GW090210 | Eu-155 | Filtered | 0.44 U | 0.87 | 2.9 |
| RD-33B | RD-33B_090210_01 | Eu-155 | Particulate | -0.223 U | 3.9 | 6.71 | SMRD-33B-GW090210 | Eu-155 | Suspended | 0.24 U | 0.3 | 1 |
| RD-33B | RD-33B_090210_01 | gross_alpha | Dissolved | 1.64 J | 1 | 1.45 | SMRD-33B-GW090210 | gross_alpha | Filtered | 3.64 | 0.41 | 0.48 |
| RD-33B | RD-33B_090210_01 | gross_alpha | Particulate | 0.764 J | 0.51 | 0.613 | SMRD-33B-GW090210 | gross_alpha | Suspended | 1.37 | 0.29 | 0.64 |
| RD-33B | RD-33B_090210_01 | gross_beta | Dissolved | 4.56 | 1.9 | 3.03 | SMRD-33B-GW090210 | gross_beta | Filtered | 7.03 | 0.93 | 2.2 |
| RD-33B | RD-33B_090210_01 | gross_beta | Particulate | 0.507 U | 1.2 | 2 | SMRD-33B-GW090210 | gross_beta | Suspended | 0.3 U | 0.23 | 0.77 |
| RD-33B | RD-33B_090210_01 | K-40 | Dissolved | 0.275 U | 13 | 23 | SMRD-33B-GW090210 | K-40 | Filtered | -23 U | 35 | 26 |
| RD-33B | RD-33B_090210_01 | K-40 | Particulate | -13.1 U | 24 | 44 | SMRD-33B-GW090210 | K-40 | Suspended | 3.7 U | 2.5 | 8.8 |
| RD-33B | RD-33B_090210_01 | Na-22 | Dissolved | -0.34 U | 0.78 | 1.5 | SMRD-33B-GW090210 | Na-22 | Filtered | 0.03 U | 0.45 | 1.6 |
| RD-33B | RD-33B_090210_01 | Na-22 | Particulate | 0.102 U | 1.3 | 2.36 | SMRD-33B-GW090210 | Na-22 | Suspended | 0.03 U | 0.2 | 0.72 |
| RD-33B | RD-33B_090210_01 | Sr-90 | Dissolved | 0.128 U | 0.28 | 0.521 | SMRD-33B-GW090210 | Sr-90 | Filtered | -0.041 U | 0.058 | 0.21 |
| RD-33B | RD-33B_090210_01 | Sr-90 | Particulate | -0.222 U | 0.24 | 0.511 | SMRD-33B-GW090210 | Sr-90 | Suspended | 0.048 U | 0.05 | 0.17 |
| RD-33B | RD-33B_090210_01 | H-3 | Total | 90.7 U | 95 | 156 | SMRD-33B-GW090210 | H-3 | Filtered | -32 U | 41 | 140 |
| RD-33B | RD-33B_090210_01 | U-233/234 | Dissolved | -0.024 U | 0.047 | 0.121 | SMRD-33B-GW090210 | U-233/234 | Filtered | 0.214 | 0.034 | 0.029 |
| RD-33B | RD-33B_090210_01 | U-233/234 | Particulate | 0.014 U | 0.042 | 0.077 | SMRD-33B-GW090210 | U-233/234 | Suspended | -0.003 U | 0.013 | 0.045 |
| RD-33B | RD-33B_090210_01 | U-235/236 | Dissolved | -0.01 U | 0.057 | 0.117 | SMRD-33B-GW090210 | U-235/236 | Filtered | 0.0037 U | 0.0063 | 0.03 |
| RD-33B | RD-33B_090210_01 | U-235/236 | Particulate | 0 U | 0.017 | 0.064 | SMRD-33B-GW090210 | U-235/236 | Suspended | 0.0039 U | 0.0074 | 0.032 |
| RD-33B | RD-33B_090210_01 | U-238 | Dissolved | -0.008 U | 0.032 | 0.087 | SMRD-33B-GW090210 | U-238 | Filtered | 0.101 | 0.023 | 0.013 |
| RD-33B | RD-33B_090210_01 | U-238 | Particulate | 0.007 U | 0.014 | 0.053 | SMRD-33B-GW090210 | U-238 | Suspended | -0.0047 U | 0.0094 | 0.037 |
| RD-33C | RD-33C_090310_01 | Sb-125 | Dissolved | -3.52 U | 3.9 | 6.96 | SMRD-033C-GW090310 | Sb-125 | Filtered | -1.7 U | 4.3 | 15 |
| RD-33C | RD-33C_090310_01 | Sb-125 | Particulate | 2.52 U | 4.4 | 7.54 | SMRD-033C-GW090310 | Sb-125 | Suspended | 1.7 U | 1.9 | 6.3 |
| RD-33C | RD-33C_090310_01 | Cs-134 | Dissolved | -0.215 U | 1.1 | 1.96 | SMRD-033C-GW090310 | Cs-134 | Filtered | 0.71 SK | 0.4 | 1.3 |
| RD-33C | RD-33C_090310_01 | Cs-134 | Particulate | 0.479 U | 1.4 | 2.52 | SMRD-033C-GW090310 | Cs-134 | Suspended | -0.02 U | 0.36 | 1.2 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-33C | RD-33C_090310_01 | Cs-137 | Dissolved | -0.697 U | 1.5 | 2.74 | SMRD-033C-GW090310 | Cs-137 | Filtered | 0.28 U | 0.43 | 1.5 |
| RD-33C | RD-33C_090310_01 | Cs-137 | Particulate | -0.562 U | 1.5 | 2.64 | SMRD-033C-GW090310 | Cs-137 | Suspended | 0.02 U | 0.21 | 0.73 |
| RD-33C | RD-33C_090310_01 | Co-60 | Dissolved | 1.2 U | 2 | 3.4 | SMRD-033C-GW090310 | Co-60 | Filtered | 0.51 U | 0.47 | 1.6 |
| RD-33C | RD-33C_090310_01 | Co-60 | Particulate | 0.158 U | 1.5 | 2.66 | SMRD-033C-GW090310 | Co-60 | Suspended | 0.17 U | 0.23 | 0.8 |
| RD-33C | RD-33C_090310_01 | Eu-152 | Dissolved | 0.246 U | 1.1 | 4.79 | SMRD-033C-GW090310 | Eu-152 | Filtered | 0.6 U | 1.1 | 3.7 |
| RD-33C | RD-33C_090310_01 | Eu-152 | Particulate | 1.31 U | 1.6 | 4.25 | SMRD-033C-GW090310 | Eu-152 | Suspended | 0.74 U | 0.56 | 1.8 |
| RD-33C | RD-33C_090310_01 | Eu-154 | Dissolved | 0.535 U | 2.4 | 4.36 | SMRD-033C-GW090310 | Eu-154 | Filtered | -0.8 U | 3.2 | 11 |
| RD-33C | RD-33C_090310_01 | Eu-154 | Particulate | 0.921 U | 2.5 | 4.55 | SMRD-033C-GW090310 | Eu-154 | Suspended | -0.04 U | 1.5 | 5.3 |
| RD-33C | RD-33C_090310_01 | Eu-155 | Dissolved | 3.48 U | 4.2 | 6.98 | SMRD-033C-GW090310 | Eu-155 | Filtered | -1.4 U | 1 | 3.4 |
| RD-33C | RD-33C_090310_01 | Eu-155 | Particulate | -2.55 U | 3.9 | 6.82 | SMRD-033C-GW090310 | Eu-155 | Suspended | -0.02 U | 0.38 | 1.3 |
| RD-33C | RD-33C_090310_01 | gross_alpha | Dissolved | 4.29 | 1.9 | 1.91 | SMRD-033C-GW090310 | gross_alpha | Filtered | 4.81 | 0.5 | 0.57 |
| RD-33C | RD-33C_090310_01 | gross_alpha | Particulate | 0.455 U | 0.63 | 1.02 | SMRD-033C-GW090310 | gross_alpha | Suspended | 1.8 | 0.32 | 0.61 |
| RD-33C | RD-33C_090310_01 | gross_beta | Dissolved | 4.8 | 1.9 | 2.79 | SMRD-033C-GW090310 | gross_beta | Filtered | 4.63 | 0.54 | 1.1 |
| RD-33C | RD-33C_090310_01 | gross_beta | Particulate | -0.893 U | 1.5 | 2.67 | SMRD-033C-GW090310 | gross_beta | Suspended | 0.63 | 0.25 | 0.76 |
| RD-33C | RD-33C_090310_01 | K-40 | Dissolved | 1.3 U | 17 | 29.6 | SMRD-033C-GW090310 | K-40 | Filtered | -0.7 U | 5 | 22 |
| RD-33C | RD-33C_090310_01 | K-40 | Particulate | -9.33 U | 18 | 32.7 | SMRD-033C-GW090310 | K-40 | Suspended | 1.3 U | 3 | 10 |
| RD-33C | RD-33C_090310_01 | Na-22 | Dissolved | 0.185 U | 0.83 | 1.51 | SMRD-033C-GW090310 | Na-22 | Filtered | 0.43 U | 0.48 | 1.7 |
| RD-33C | RD-33C_090310_01 | Na-22 | Particulate | 0.319 U | 0.87 | 1.57 | SMRD-033C-GW090310 | Na-22 | Suspended | -0.09 U | 0.26 | 0.91 |
| RD-33C | RD-33C_090310_01 | Sr-90 | Dissolved | -0.052 U | 0.2 | 0.407 | SMRD-033C-GW090310 | Sr-90 | Filtered | -0.005 U | 0.033 | 0.11 |
| RD-33C | RD-33C_090310_01 | Sr-90 | Particulate | -0.135 U | 0.21 | 0.435 | SMRD-033C-GW090310 | Sr-90 | Suspended | -0.022 U | 0.025 | 0.092 |
| RD-33C | RD-33C_090310_01 | H-3 | Total | -59.2 U | 84 | 145 | SMRD-033C-GW090310 | H-3 | Filtered | -16 U | 38 | 130 |
| RD-33C | RD-33C_090310_01 | U-233/234 | Dissolved | 0.152 U | 0.064 | 0.061 | SMRD-033C-GW090310 | U-233/234 | Filtered | 0.223 | 0.024 | 0.015 |
| RD-33C | RD-33C_090310_01 | U-233/234 | Particulate | -0.006 U | 0.022 | 0.068 | SMRD-033C-GW090310 | U-233/234 | Suspended | -0.0011 U | 0.0052 | 0.014 |
| RD-33C | RD-33C_090310_01 | U-235/236 | Dissolved | -0.008 U | 0.015 | 0.059 | SMRD-033C-GW090310 | U-235/236 | Filtered | 0.0099 | 0.0049 | 0.0067 |
| RD-33C | RD-33C_090310_01 | U-235/236 | Particulate | 0.007 U | 0.013 | 0.051 | SMRD-033C-GW090310 | U-235/236 | Suspended | 0.0049 U | 0.0035 | 0.0066 |
| RD-33C | RD-33C_090310_01 | U-238 | Dissolved | 0.044 U | 0.038 | 0.061 | SMRD-033C-GW090310 | U-238 | Filtered | 0.11 | 0.017 | 0.026 |
| RD-33C | RD-33C_090310_01 | U-238 | Particulate | -0.006 U | 0.011 | 0.053 | SMRD-033C-GW090310 | U-238 | Suspended | -0.0022 U | 0.0044 | 0.014 |
| RD-34A | RD-34A_082010_01 | Sb-125 | Dissolved | 0.877 U | 3.1 | 5.3 | SMRD-034A-GW082010 | Sb-125 | Filtered | 3.2 U | 3.6 | 12 |
| RD-34A | RD-34A_082010_01 | Sb-125 | Particulate | 4.31 U | 4.5 | 7.48 | SMRD-034A-GW082010 | Sb-125 | Suspended | 1.4 U | 1.8 | 6.2 |
| RD-34A | RD-34A_082010_01 | Cs-134 | Dissolved | 0.89 U | 1.6 | 2.7 | SMRD-034A-GW082010 | Cs-134 | Filtered | -0.64 U | 0.51 | 1.7 |
| RD-34A | RD-34A_082010_01 | Cs-134 | Particulate | -0.503 U | 2 | 3.47 | SMRD-034A-GW082010 | Cs-134 | Suspended | 0.07 U | 0.2 | 0.69 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-34A | RD-34A_082010_01 | Cs-137 | Dissolved | 0.049 U | 1.4 | 2.4 | SMRD-034A-GW082010 | Cs-137 | Filtered | 0.31 U | 0.38 | 1.3 |
| RD-34A | RD-34A_082010_01 | Cs-137 | Particulate | -0.702 U | 2.3 | 3.98 | SMRD-034A-GW082010 | Cs-137 | Suspended | -0.006 U | 0.16 | 0.57 |
| RD-34A | RD-34A_082010_01 | Co-60 | Dissolved | 0.127 U | 2.1 | 3.72 | SMRD-034A-GW082010 | Co-60 | Filtered | -0.02 U | 0.45 | 1.6 |
| RD-34A | RD-34A_082010_01 | Co-60 | Particulate | 0.936 U | 1.6 | 2.77 | SMRD-034A-GW082010 | Co-60 | Suspended | -0.05 U | 0.26 | 0.92 |
| RD-34A | RD-34A_082010_01 | Eu-152 | Dissolved | 0.246 U | 2.3 | 5.37 | SMRD-034A-GW082010 | Eu-152 | Filtered | 0.8 U | 0.98 | 3.3 |
| RD-34A | RD-34A_082010_01 | Eu-152 | Particulate | 2.57 U | 5.1 | 8.7 | SMRD-034A-GW082010 | Eu-152 | Suspended | -0.31 U | 0.48 | 1.6 |
| RD-34A | RD-34A_082010_01 | Eu-154 | Dissolved | -1.63 U | 2.8 | 5.41 | SMRD-034A-GW082010 | Eu-154 | Filtered | 0.8 U | 3.5 | 12 |
| RD-34A | RD-34A_082010_01 | Eu-154 | Particulate | 1.31 U | 3.3 | 5.8 | SMRD-034A-GW082010 | Eu-154 | Suspended | 2.2 U | 1.6 | 5.2 |
| RD-34A | RD-34A_082010_01 | Eu-155 | Dissolved | 0.327 U | 3.3 | 5.58 | SMRD-034A-GW082010 | Eu-155 | Filtered | -1.69 U | 0.92 | 3 |
| RD-34A | RD-34A_082010_01 | Eu-155 | Particulate | 1.87 U | 4 | 6.76 | SMRD-034A-GW082010 | Eu-155 | Suspended | 0.29 U | 0.36 | 1.2 |
| RD-34A | RD-34A_082010_01 | gross_alpha | Dissolved | 12.4 | 2.9 | 2.18 | SMRD-034A-GW082010 | gross_alpha | Filtered | 19.4 | 1.1 | 0.4 |
| RD-34A | RD-34A_082010_01 | gross_alpha | Particulate | 20.8 | 2.4 | 0.768 | SMRD-034A-GW082010 | gross_alpha | Suspended | 0.4 U | 0.27 | 0.89 |
| RD-34A | RD-34A_082010_01 | gross_beta | Dissolved | 17.3 | 2.6 | 3.43 | SMRD-034A-GW082010 | gross_beta | Filtered | 14.3 | 1.6 | 3.2 |
| RD-34A | RD-34A_082010_01 | gross_beta | Particulate | 19.2 | 2.9 | 3.96 | SMRD-034A-GW082010 | gross_beta | Suspended | 2.03 | 0.32 | 0.79 |
| RD-34A | RD-34A_082010_01 | K-40 | Dissolved | 6.07 U | 18 | 31.5 | SMRD-034A-GW082010 | K-40 | Filtered | 7.9 | 4.9 | 16 |
| RD-34A | RD-34A_082010_01 | K-40 | Particulate | -12.2 U | 28 | 49.9 | SMRD-034A-GW082010 | K-40 | Suspended | 0.6 U | 3.7 | 12 |
| RD-34A | RD-34A_082010_01 | Na-22 | Dissolved | -0.567 U | 0.97 | 1.88 | SMRD-034A-GW082010 | Na-22 | Filtered | -0.34 U | 0.53 | 1.8 |
| RD-34A | RD-34A_082010_01 | Na-22 | Particulate | 0.456 U | 1.1 | 2.02 | SMRD-034A-GW082010 | Na-22 | Suspended | -0.13 U | 0.25 | 0.85 |
| RD-34A | RD-34A_082010_01 | Sr-90 | Particulate | -0.078 U | 0.38 | 0.748 | SMRD-034A-GW082010 | Sr-90 | Suspended | 0.002 U | 0.021 | 0.072 |
| RD-34A | RD-34A_082010_01 | H-3 | Total | 992 | 130 | 180 | SMRD-034A-GW082010 | H-3 | Filtered | 966 | 65 | 130 |
| RD-34A | RD-34A_082010_01 | U-233/234 | Dissolved | 9.59 | 0.43 | 0.073 | SMRD-034A-GW082010 | U-233/234 | Filtered | 10.8 | 0.52 | 0.04 |
| RD-34A | RD-34A_082010_01 | U-233/234 | Particulate | 0.109 J | 0.05 | 0.052 | SMRD-034A-GW082010 | U-233/234 | Suspended | 0.016 | 0.014 | 0.039 |
| RD-34A | RD-34A_082010_01 | U-235/236 | Dissolved | 0.546 J | 0.089 | 0.035 | SMRD-034A-GW082010 | U-235/236 | Filtered | 0.578 | 0.07 | 0.038 |
| RD-34A | RD-34A_082010_01 | U-235/236 | Particulate | 0.02 U | 0.02 | 0.039 | SMRD-034A-GW082010 | U-235/236 | Suspended | -0.0023 U | 0.0023 | 0.031 |
| RD-34A | RD-34A_082010_01 | U-238 | Dissolved | 9.78 | 0.44 | 0.067 | SMRD-034A-GW082010 | U-238 | Filtered | 10.9 | 0.52 | 0.04 |
| RD-34A | RD-34A_082010_01 | U-238 | Particulate | 0.1 J | 0.042 | 0.032 | SMRD-034A-GW082010 | U-238 | Suspended | 0.03 | 0.014 | 0.025 |
| RD-34B | RD-34B_082010_01 | Sb-125 | Dissolved | -0.78 U | 4 | 6.97 | SMRD-034B-GW082010 | Sb-125 | Filtered | -0.5 U | 4.6 | 16 |
| RD-34B | RD-34B_082010_01 | Sb-125 | Particulate | 2.13 U | 2.8 | 4.77 | SMRD-034B-GW082010 | Sb-125 | Suspended | -0.7 U | 1.8 | 6 |
| RD-34B | RD-34B_082010_01 | Cs-134 | Dissolved | 0.143 U | 1.3 | 2.25 | SMRD-034B-GW082010 | Cs-134 | Filtered | 0.08 U | 0.49 | 1.7 |
| RD-34B | RD-34B_082010_01 | Cs-134 | Particulate | 0.168 U | 1.3 | 2.34 | SMRD-034B-GW082010 | Cs-134 | Suspended | -0.32 U | 0.24 | 0.79 |
| RD-34B | RD-34B_082010_01 | Cs-137 | Dissolved | -0.694 U | 1.5 | 2.7 | SMRD-034B-GW082010 | Cs-137 | Filtered | -0.01 U | 0.4 | 1.4 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-34B | RD-34B_082010_01 | Cs-137 | Particulate | -0.548 U | 1.4 | 2.59 | SMRD-034B-GW082010 | Cs-137 | Suspended | -0.31 U | 0.53 | 0.8 |
| RD-34B | RD-34B_082010_01 | Co-60 | Dissolved | 0.666 U | 1.4 | 2.38 | SMRD-034B-GW082010 | Co-60 | Filtered | 0.41 U | 0.42 | 1.4 |
| RD-34B | RD-34B_082010_01 | Co-60 | Particulate | -0.401 U | 1.3 | 2.44 | SMRD-034B-GW082010 | Co-60 | Suspended | 0.25 U | 0.19 | 0.63 |
| RD-34B | RD-34B_082010_01 | Eu-152 | Dissolved | -4.19 U | 4.9 | 8.54 | SMRD-034B-GW082010 | Eu-152 | Filtered | -2.3 U | 1.4 | 4.5 |
| RD-34B | RD-34B_082010_01 | Eu-152 | Particulate | 0.622 U | 2 | 4.01 | SMRD-034B-GW082010 | Eu-152 | Suspended | -0.53 U | 0.51 | 1.7 |
| RD-34B | RD-34B_082010_01 | Eu-154 | Dissolved | -0.587 U | 2.5 | 4.66 | SMRD-034B-GW082010 | Eu-154 | Filtered | 0 U | 3.6 | 13 |
| RD-34B | RD-34B_082010_01 | Eu-154 | Particulate | 2.1 U | 2.6 | 4.44 | SMRD-034B-GW082010 | Eu-154 | Suspended | -0.9 U | 1.6 | 5.5 |
| RD-34B | RD-34B_082010_01 | Eu-155 | Dissolved | 0.124 U | 4.3 | 7.38 | SMRD-034B-GW082010 | Eu-155 | Filtered | 0.88 U | 0.94 | 3.2 |
| RD-34B | RD-34B_082010_01 | Eu-155 | Particulate | -1.79 U | 3.4 | 6.01 | SMRD-034B-GW082010 | Eu-155 | Suspended | 0.44 U | 0.36 | 1.2 |
| RD-34B | RD-34B_082010_01 | gross_alpha | Dissolved | 3.3 U | 2.1 | 3.31 | SMRD-034B-GW082010 | gross_alpha | Filtered | 4.73 | 0.43 | 0.46 |
| RD-34B | RD-34B_082010_01 | gross_alpha | Particulate | 0.14 U | 0.89 | 1.64 | SMRD-034B-GW082010 | gross_alpha | Suspended | 1.12 | 0.38 | 1.1 |
| RD-34B | RD-34B_082010_01 | gross_beta | Dissolved | 5.67 | 2.6 | 3.87 | SMRD-034B-GW082010 | gross_beta | Filtered | 6.51 | 0.8 | 1.7 |
| RD-34B | RD-34B_082010_01 | gross_beta | Particulate | -0.115 U | 2.2 | 3.77 | SMRD-034B-GW082010 | gross_beta | Suspended | 0.28 U | 0.23 | 0.77 |
| RD-34B | RD-34B_082010_01 | K-40 | Dissolved | -5.56 U | 23 | 39.7 | SMRD-034B-GW082010 | K-40 | Filtered | -20 U | 37 | 27 |
| RD-34B | RD-34B_082010_01 | K-40 | Particulate | 6.49 U | 17 | 29.2 | SMRD-034B-GW082010 | K-40 | Suspended | -0.5 U | 2.1 | 8.7 |
| RD-34B | RD-34B_082010_01 | Na-22 | Dissolved | -0.204 U | 0.87 | 1.62 | SMRD-034B-GW082010 | Na-22 | Filtered | -0.0003 U | 0.49 | 1.8 |
| RD-34B | RD-34B_082010_01 | Na-22 | Particulate | 0.728 U | 0.91 | 1.54 | SMRD-034B-GW082010 | Na-22 | Suspended | 0.19 U | 0.2 | 0.67 |
| RD-34B | RD-34B_082010_01 | Sr-90 | Particulate | 0.007 U | 0.36 | 0.709 | SMRD-034B-GW082010 | Sr-90 | Suspended | 0.014 U | 0.023 | 0.076 |
| RD-34B | RD-34B_082010_01 | H-3 | Total | 50.5 U | 110 | 184 | SMRD-034B-GW082010 | H-3 | Filtered | 191 | 44 | 140 |
| RD-34B | RD-34B_082010_01 | U-233/234 | Dissolved | 1.19 | 0.14 | 0.051 | SMRD-034B-GW082010 | U-233/234 | Filtered | 1.75 | 0.12 | 0.03 |
| RD-34B | RD-34B_082010_01 | U-233/234 | Particulate | 0.023 U | 0.035 | 0.071 | SMRD-034B-GW082010 | U-233/234 | Suspended | 0.031 | 0.015 | 0.036 |
| RD-34B | RD-34B_082010_01 | U-235/236 | Dissolved | 0.059 J | 0.037 | 0.035 | SMRD-034B-GW082010 | U-235/236 | Filtered | 0.108 | 0.026 | 0.031 |
| RD-34B | RD-34B_082010_01 | U-235/236 | Particulate | 0 | 0.028 | 0.077 | SMRD-034B-GW082010 | U-235/236 | Suspended | 0.0056 U | 0.0056 | 0.015 |
| RD-34B | RD-34B_082010_01 | U-238 | Dissolved | 0.964 J | 0.12 | 0.046 | SMRD-034B-GW082010 | U-238 | Filtered | 1.51 | 0.11 | 0.03 |
| RD-34B | RD-34B_082010_01 | U-238 | Particulate | 0.006 U | 0.023 | 0.064 | SMRD-034B-GW082010 | U-238 | Suspended | 0.012 | 0.01 | 0.027 |
| RD-34C | RD-34C_083010_01 | Sb-125 | Dissolved | -2.52 U | 3.3 | 6 | SMRD-34C-GW083010 | Sb-125 | Filtered | -1.2 U | 4.1 | 14 |
| RD-34C | RD-34C_083010_01 | Sb-125 | Particulate | 1.31 U | 3.2 | 5.43 | SMRD-34C-GW083010 | Sb-125 | Suspended | 0.8 U | 1.7 | 5.8 |
| RD-34C | RD-34C_083010_01 | Cs-134 | Dissolved | 0.918 U | 2 | 2.76 | SMRD-34C-GW083010 | Cs-134 | Filtered | -0.23 U | 0.47 | 1.6 |
| RD-34C | RD-34C_083010_01 | Cs-134 | Particulate | -0.405 U | 1.4 | 2.56 | SMRD-34C-GW083010 | Cs-134 | Suspended | 0.36 U | 0.26 | 0.86 |
| RD-34C | RD-34C_083010_01 | Cs-137 | Dissolved | -1.56 U | 1.6 | 2.9 | SMRD-34C-GW083010 | Cs-137 | Filtered | 0.36 U | 0.42 | 1.4 |
| RD-34C | RD-34C_083010_01 | Cs-137 | Particulate | 0.023 U | 1.3 | 2.34 | SMRD-34C-GW083010 | Cs-137 | Suspended | 0.13 U | 0.21 | 0.71 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-34C | RD-34C_083010_01 | Co-60 | Dissolved | -0.433 U | 1.9 | 3.48 | SMRD-34C-GW083010 | Co-60 | Filtered | 0.002 U | 0.43 | 1.6 |
| RD-34C | RD-34C_083010_01 | Co-60 | Particulate | -0.327 U | 1.6 | 2.96 | SMRD-34C-GW083010 | Co-60 | Suspended | 0.02 U | 0.23 | 0.82 |
| RD-34C | RD-34C_083010_01 | Eu-152 | Dissolved | -1.48 U | 7.1 | 12.2 | SMRD-34C-GW083010 | Eu-152 | Filtered | 0.8 U | 1.1 | 3.7 |
| RD-34C | RD-34C_083010_01 | Eu-152 | Particulate | -0.634 U | 4.2 | 5.24 | SMRD-34C-GW083010 | Eu-152 | Suspended | 0.52 U | 0.51 | 1.7 |
| RD-34C | RD-34C_083010_01 | Eu-154 | Dissolved | 2.47 U | 3.7 | 6.41 | SMRD-34C-GW083010 | Eu-154 | Filtered | 3.4 U | 3.2 | 11 |
| RD-34C | RD-34C_083010_01 | Eu-154 | Particulate | -0.16 U | 2.6 | 4.82 | SMRD-34C-GW083010 | Eu-154 | Suspended | 0.2 U | 1.1 | 3.8 |
| RD-34C | RD-34C_083010_01 | Eu-155 | Dissolved | -0.151 U | 4.4 | 7.54 | SMRD-34C-GW083010 | Eu-155 | Filtered | 0.44 U | 0.96 | 3.3 |
| RD-34C | RD-34C_083010_01 | Eu-155 | Particulate | 0.606 U | 2.8 | 4.85 | SMRD-34C-GW083010 | Eu-155 | Suspended | 0.32 U | 0.37 | 1.2 |
| RD-34C | RD-34C_083010_01 | gross_alpha | Dissolved | 2.25 J | 1.2 | 1.27 | SMRD-34C-GW083010 | gross_alpha | Filtered | 1.23 | 0.23 | 0.47 |
| RD-34C | RD-34C_083010_01 | gross_alpha | Particulate | -0.102 U | 0.36 | 0.973 | SMRD-34C-GW083010 | gross_alpha | Suspended | 0.25 | 0.13 | 0.4 |
| RD-34C | RD-34C_083010_01 | gross_beta | Dissolved | 2.76 U | 2.2 | 3.44 | SMRD-34C-GW083010 | gross_beta | Filtered | 4.81 | 0.82 | 2.1 |
| RD-34C | RD-34C_083010_01 | gross_beta | Particulate | -0.913 U | 1.4 | 2.53 | SMRD-34C-GW083010 | gross_beta | Suspended | -0.31 U | 0.19 | 0.72 |
| RD-34C | RD-34C_083010_01 | K-40 | Dissolved | 17.9 U | 28 | 47.8 | SMRD-34C-GW083010 | K-40 | Filtered | -10 U | 13 | 22 |
| RD-34C | RD-34C_083010_01 | K-40 | Particulate | -7.25 U | 14 | 25.3 | SMRD-34C-GW083010 | K-40 | Suspended | 8.9 | 2.8 | 9.1 |
| RD-34C | RD-34C_083010_01 | Na-22 | Dissolved | 0.855 U | 1.3 | 2.22 | SMRD-34C-GW083010 | Na-22 | Filtered | 0.06 U | 0.42 | 1.5 |
| RD-34C | RD-34C_083010_01 | Na-22 | Particulate | -0.056 U | 0.89 | 1.67 | SMRD-34C-GW083010 | Na-22 | Suspended | 0.06 U | 0.19 | 0.67 |
| RD-34C | RD-34C_083010_01 | Sr-90 | Dissolved | -0.102 U | 0.17 | 0.352 | SMRD-34C-GW083010 | Sr-90 | Filtered | -0.008 U | 0.049 | 0.18 |
| RD-34C | RD-34C_083010_01 | Sr-90 | Particulate | 0.077 U | 0.22 | 0.403 | SMRD-34C-GW083010 | Sr-90 | Suspended | 0.017 U | 0.041 | 0.14 |
| RD-34C | RD-34C_083010_01 | H-3 | Total | 9.71 U | 92 | 156 | SMRD-34C-GW083010 | H-3 | Filtered | 11 U | 40 | 130 |
| RD-34C | RD-34C_083010_01 | U-233/234 | Dissolved | 0.259 U | 0.073 | 0.075 | SMRD-34C-GW083010 | U-233/234 | Filtered | 0.293 | 0.029 | 0.02 |
| RD-34C | RD-34C_083010_01 | U-233/234 | Particulate | 0 U | 0.031 | 0.075 | SMRD-34C-GW083010 | U-233/234 | Suspended | 0.004 U | 0.011 | 0.037 |
| RD-34C | RD-34C_083010_01 | U-235/236 | Dissolved | 0 U | 0.029 | 0.06 | SMRD-34C-GW083010 | U-235/236 | Filtered | 0.008 | 0.0046 | 0.0072 |
| RD-34C | RD-34C_083010_01 | U-235/236 | Particulate | 0.009 U | 0.019 | 0.073 | SMRD-34C-GW083010 | U-235/236 | Suspended | 0 U | 0.0022 | 0.016 |
| RD-34C | RD-34C_083010_01 | U-238 | Dissolved | 0.061 J | 0.041 | 0.05 | SMRD-34C-GW083010 | U-238 | Filtered | 0.043 | 0.011 | 0.02 |
| RD-34C | RD-34C_083010_01 | U-238 | Particulate | -0.008 U | 0.016 | 0.06 | SMRD-34C-GW083010 | U-238 | Suspended | 0.017 K | 0.012 | 0.028 |
| RD-50 (Port 2) | RD-50_081810_01A | Sb-125 | Dissolved | -0.421 U | 3.8 | 6.64 | SMRD-50-GW081810 | Sb-125 | Filtered | 0.3 U | 4.6 | 15 |
| RD-50 (Port 2) | RD-50_081810_01A | Sb-125 | Particulate | -2.24 U | 2.9 | 5.4 | SMRD-50-GW081810 | Sb-125 | Suspended | 1.1 U | 1.7 | 5.8 |
| RD-50 (Port 2) | RD-50_081810_01A | Cs-134 | Dissolved | 0.439 U | 1.4 | 2.5 | SMRD-50-GW081810 | Cs-134 | Filtered | -0.06 U | 0.62 | 2.1 |
| RD-50 (Port 2) | RD-50_081810_01A | Cs-134 | Particulate | 0.604 U | 1.8 | 2.36 | SMRD-50-GW081810 | Cs-134 | Suspended | 0.01 U | 0.2 | 0.7 |
| RD-50 (Port 2) | RD-50_081810_01A | Cs-137 | Dissolved | 0.949 U | 1.7 | 2.87 | SMRD-50-GW081810 | Cs-137 | Filtered | 0.48 U | 0.38 | 1.3 |
| RD-50 (Port 2) | RD-50_081810_01A | Cs-137 | Particulate | -0.13 U | 1.5 | 2.57 | SMRD-50-GW081810 | Cs-137 | Suspended | -0.05 U | 0.22 | 0.75 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|-------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-50 (Port 2) | RD-50_081810_01A | Co-60 | Dissolved | 1.28 U | 2.3 | 3.86 | SMRD-50-GW081810 | Co-60 | Filtered | 0.01 U | 0.44 | 1.6 |
| RD-50 (Port 2) | RD-50_081810_01A | Co-60 | Particulate | -0.502 U | 1.1 | 2.06 | SMRD-50-GW081810 | Co-60 | Suspended | -0.004 U | 0.21 | 0.74 |
| RD-50 (Port 2) | RD-50_081810_01A | Eu-152 | Dissolved | 2.29 U | 3.5 | 5.91 | SMRD-50-GW081810 | Eu-152 | Filtered | -0.2 U | 1.3 | 4.5 |
| RD-50 (Port 2) | RD-50_081810_01A | Eu-152 | Particulate | 1.2 U | 4 | 6.83 | SMRD-50-GW081810 | Eu-152 | Suspended | 0.3 U | 0.48 | 1.6 |
| RD-50 (Port 2) | RD-50_081810_01A | Eu-154 | Dissolved | 3.52 U | 6.5 | 11.1 | SMRD-50-GW081810 | Eu-154 | Filtered | 0.2 U | 3.8 | 13 |
| RD-50 (Port 2) | RD-50_081810_01A | Eu-154 | Particulate | -1.89 U | 2.4 | 5.04 | SMRD-50-GW081810 | Eu-154 | Suspended | -1.3 U | 1.6 | 5.4 |
| RD-50 (Port 2) | RD-50_081810_01A | Eu-155 | Dissolved | 1.75 U | 2.6 | 4.42 | SMRD-50-GW081810 | Eu-155 | Filtered | -0.7 U | 1.5 | 5.1 |
| RD-50 (Port 2) | RD-50_081810_01A | Eu-155 | Particulate | -4.04 U | 4.7 | 8.3 | SMRD-50-GW081810 | Eu-155 | Suspended | 0.03 U | 0.32 | 1.1 |
| RD-50 (Port 2) | RD-50_081810_01A | gross_alpha | Dissolved | 18.8 | 3.8 | 2.35 | SMRD-50-GW081810 | gross_alpha | Filtered | 22.3 | 1.5 | 0.4 |
| RD-50 (Port 2) | RD-50_081810_01A | gross_alpha | Particulate | 0.176 U | 0.39 | 0.69 | SMRD-50-GW081810 | gross_alpha | Suspended | 0.52 | 0.19 | 0.5 |
| RD-50 (Port 2) | RD-50_081810_01A | gross_beta | Dissolved | 14.6 | 1.9 | 2.11 | SMRD-50-GW081810 | gross_beta | Filtered | 10 | 1.1 | 2.3 |
| RD-50 (Port 2) | RD-50_081810_01A | gross_beta | Particulate | -0.399 U | 1.1 | 1.99 | SMRD-50-GW081810 | gross_beta | Suspended | 0.5 | 0.24 | 0.76 |
| RD-50 (Port 2) | RD-50_081810_01A | K-40 | Dissolved | -1.03 U | 15 | 27.5 | SMRD-50-GW081810 | K-40 | Filtered | 4.2 U | 3.7 | 17 |
| RD-50 (Port 2) | RD-50_081810_01A | K-40 | Particulate | -12.2 U | 15 | 28.5 | SMRD-50-GW081810 | K-40 | Suspended | -0.5 U | 3 | 12 |
| RD-50 (Port 2) | RD-50_081810_01A | Na-22 | Dissolved | 1.2 U | 2.2 | 3.79 | SMRD-50-GW081810 | Na-22 | Filtered | -0.03 U | 0.43 | 1.5 |
| RD-50 (Port 2) | RD-50_081810_01A | Na-22 | Particulate | -0.646 U | 0.84 | 1.72 | SMRD-50-GW081810 | Na-22 | Suspended | 0.02 U | 0.17 | 0.6 |
| RD-50 (Port 2) | RD-50_081810_01A | Sr-90 | Dissolved | -0.01 U | 0.29 | 0.574 | SMRD-50-GW081810 | Sr-90 | Filtered | 0.113 U | 0.066 | 0.22 |
| RD-50 (Port 2) | RD-50_081810_01A | Sr-90 | Particulate | 0.009 U | 0.28 | 0.559 | SMRD-50-GW081810 | Sr-90 | Suspended | 0.044 U | 0.057 | 0.19 |
| RD-50 (Port 2) | RD-50_081810_01A | H-3 | Total | -8.9 U | 290 | 119 | SMRD-50-GW081810 | H-3 | Filtered | -2 U | 44 | 150 |
| RD-50 (Port 2) | RD-50_081810_01A | U-233/234 | Dissolved | 11.1 | 0.65 | 0.11 | SMRD-50-GW081810 | U-233/234 | Filtered | 13.3 | 0.62 | 0.05 |
| RD-50 (Port 2) | RD-50_081810_01A | U-233/234 | Particulate | 0.006 U | 0.034 | 0.069 | SMRD-50-GW081810 | U-233/234 | Suspended | 0.02 | 0.014 | 0.029 |
| RD-50 (Port 2) | RD-50_081810_01A | U-235/236 | Dissolved | 0.547 J | 0.12 | 0.072 | SMRD-50-GW081810 | U-235/236 | Filtered | 0.72 | 0.078 | 0.055 |
| RD-50 (Port 2) | RD-50_081810_01A | U-235/236 | Particulate | 0 U | 0.014 | 0.052 | SMRD-50-GW081810 | U-235/236 | Suspended | 0.008 U | 0.01 | 0.036 |
| RD-50 (Port 2) | RD-50_081810_01A | U-238 | Dissolved | 8.45 | 0.53 | 0.099 | SMRD-50-GW081810 | U-238 | Filtered | 10.6 | 0.51 | 0.04 |
| RD-50 (Port 2) | RD-50_081810_01A | U-238 | Particulate | 0.006 U | 0.022 | 0.054 | SMRD-50-GW081810 | U-238 | Suspended | 0.007 U | 0.011 | 0.033 |
| RD-57 (Port 7) | RD-57_081810_01A | Sb-125 | Dissolved | -3.46 U | 3.5 | 6.35 | SMRD-57-GW081910 | Sb-125 | Filtered | -0.9 U | 4.3 | 15 |
| RD-57 (Port 7) | RD-57_081810_01A | Sb-125 | Particulate | 0.888 U | 4 | 6.94 | SMRD-57-GW081910 | Sb-125 | Suspended | 1.2 U | 1.8 | 6 |
| RD-57 (Port 7) | RD-57_081810_01A | Cs-134 | Dissolved | 0.141 U | 1.4 | 2.48 | SMRD-57-GW081910 | Cs-134 | Filtered | -0.29 U | 0.5 | 1.7 |
| RD-57 (Port 7) | RD-57_081810_01A | Cs-134 | Particulate | -0.557 U | 2.3 | 4.12 | SMRD-57-GW081910 | Cs-134 | Suspended | 0.01 U | 0.23 | 0.8 |
| RD-57 (Port 7) | RD-57_081810_01A | Cs-137 | Dissolved | 2.67 U | 1.7 | 2.7 | SMRD-57-GW081910 | Cs-137 | Filtered | 0.7 | 0.37 | 1.2 |
| RD-57 (Port 7) | RD-57_081810_01A | Cs-137 | Particulate | 0.783 U | 2.2 | 3.83 | SMRD-57-GW081910 | Cs-137 | Suspended | 0.09 U | 0.2 | 0.69 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-57 (Port 7) | RD-57_081810_01A | Co-60 | Dissolved | -0.107 U | 1 | 1.94 | SMRD-57-GW081910 | Co-60 | Filtered | 0.29 U | 0.52 | 1.8 |
| RD-57 (Port 7) | RD-57_081810_01A | Co-60 | Particulate | -0.049 U | 2 | 3.75 | SMRD-57-GW081910 | Co-60 | Suspended | 0.26 U | 0.21 | 0.72 |
| RD-57 (Port 7) | RD-57_081810_01A | Eu-152 | Dissolved | -0.454 U | 3 | 5.41 | SMRD-57-GW081910 | Eu-152 | Filtered | -1.1 U | 1.3 | 4.3 |
| RD-57 (Port 7) | RD-57_081810_01A | Eu-152 | Particulate | -1.68 U | 6.4 | 11.2 | SMRD-57-GW081910 | Eu-152 | Suspended | -0.35 U | 0.52 | 1.8 |
| RD-57 (Port 7) | RD-57_081810_01A | Eu-154 | Dissolved | 0.143 U | 2.2 | 4.11 | SMRD-57-GW081910 | Eu-154 | Filtered | -0.6 U | 3.7 | 13 |
| RD-57 (Port 7) | RD-57_081810_01A | Eu-154 | Particulate | 2.03 U | 5.1 | 9.06 | SMRD-57-GW081910 | Eu-154 | Suspended | -0.8 U | 1.7 | 5.7 |
| RD-57 (Port 7) | RD-57_081810_01A | Eu-155 | Dissolved | 0.517 U | 3.1 | 5.34 | SMRD-57-GW081910 | Eu-155 | Filtered | 0.3 U | 1 | 3.4 |
| RD-57 (Port 7) | RD-57_081810_01A | Eu-155 | Particulate | -1.24 U | 5.8 | 10.1 | SMRD-57-GW081910 | Eu-155 | Suspended | 0.05 U | 0.36 | 1.2 |
| RD-57 (Port 7) | RD-57_081810_01A | gross_alpha | Dissolved | 8.91 | 2.4 | 1.93 | SMRD-57-GW081910 | gross_alpha | Filtered | 8.1 | 0.6 | 0.4 |
| RD-57 (Port 7) | RD-57_081810_01A | gross_alpha | Particulate | -0.239 U | 0.43 | 0.983 | SMRD-57-GW081910 | gross_alpha | Suspended | 0 U | 0.15 | 0.62 |
| RD-57 (Port 7) | RD-57_081810_01A | gross_beta | Dissolved | 12.1 | 2.1 | 2.82 | SMRD-57-GW081910 | gross_beta | Filtered | 8.18 | 0.8 | 1.5 |
| RD-57 (Port 7) | RD-57_081810_01A | gross_beta | Particulate | -0.323 U | 1.3 | 2.17 | SMRD-57-GW081910 | gross_beta | Suspended | 0.66 | 0.26 | 0.82 |
| RD-57 (Port 7) | RD-57_081810_01A | K-40 | Dissolved | -8.26 U | 18 | 33.6 | SMRD-57-GW081910 | K-40 | Filtered | -19 U | 31 | 25 |
| RD-57 (Port 7) | RD-57_081810_01A | K-40 | Particulate | -27 U | 39 | 70.3 | SMRD-57-GW081910 | K-40 | Suspended | -3.2 U | 3.5 | 12 |
| RD-57 (Port 7) | RD-57_081810_01A | Na-22 | Dissolved | 0.049 U | 0.74 | 1.4 | SMRD-57-GW081910 | Na-22 | Filtered | -0.32 U | 0.55 | 1.9 |
| RD-57 (Port 7) | RD-57_081810_01A | Na-22 | Particulate | 0.692 U | 1.7 | 3.09 | SMRD-57-GW081910 | Na-22 | Suspended | 0.01 U | 0.25 | 0.89 |
| RD-57 (Port 7) | RD-57_081810_01A | Sr-90 | Particulate | -0.042 U | 0.4 | 0.701 | SMRD-57-GW081910 | Sr-90 | Suspended | -0.024 U | 0.019 | 0.069 |
| RD-57 (Port 7) | RD-57_081810_01A | H-3 | Total | 33 U | 310 | 118 | SMRD-57-GW081910 | H-3 | Filtered | -15 U | 41 | 140 |
| RD-57 (Port 7) | RD-57_081810_01A | U-233/234 | Dissolved | 4.42 | 0.4 | 0.094 | SMRD-57-GW081910 | U-233/234 | Filtered | 5.03 | 0.26 | 0.03 |
| RD-57 (Port 7) | RD-57_081810_01A | U-233/234 | Particulate | 0.021 U | 0.064 | 0.13 | SMRD-57-GW081910 | U-233/234 | Suspended | 0.004 U | 0.011 | 0.034 |
| RD-57 (Port 7) | RD-57_081810_01A | U-235/236 | Dissolved | 0.264 J | 0.1 | 0.065 | SMRD-57-GW081910 | U-235/236 | Filtered | 0.203 | 0.037 | 0.042 |
| RD-57 (Port 7) | RD-57_081810_01A | U-235/236 | Particulate | 0 U | 0.026 | 0.098 | SMRD-57-GW081910 | U-235/236 | Suspended | -0.0023 U | 0.0023 | 0.032 |
| RD-57 (Port 7) | RD-57_081810_01A | U-238 | Dissolved | 3.76 | 0.36 | 0.094 | SMRD-57-GW081910 | U-238 | Filtered | 3.86 | 0.21 | 0.03 |
| RD-57 (Port 7) | RD-57_081810_01A | U-238 | Particulate | -0.011 U | 0.042 | 0.102 | SMRD-57-GW081910 | U-238 | Suspended | -0.0044 U | 0.0053 | 0.025 |
| RD-85 | RD-85_082610_01 | Sb-125 | Dissolved | 0.484 U | 5.2 | 8.97 | SMRD-085-GW081910 | Sb-125 | Filtered | 1.9 U | 2.9 | 9.9 |
| RD-85 | RD-85_082610_01 | Sb-125 | Particulate | -2.83 U | 5.4 | 9.6 | SMRD-085-GW081910 | Sb-125 | Suspended | 0.0007 U | 1.8 | 6.1 |
| RD-85 | RD-85_082610_01 | Cs-134 | Dissolved | 0.322 U | 1.3 | 2.34 | SMRD-085-GW081910 | Cs-134 | Filtered | -0.02 U | 0.44 | 1.5 |
| RD-85 | RD-85_082610_01 | Cs-134 | Particulate | -1.21 U | 1.9 | 3.6 | SMRD-085-GW081910 | Cs-134 | Suspended | 0.02 U | 0.37 | 1.2 |
| RD-85 | RD-85_082610_01 | Cs-137 | Dissolved | 0.086 U | 1.2 | 2.01 | SMRD-085-GW081910 | Cs-137 | Filtered | 0.04 U | 0.46 | 1.6 |
| RD-85 | RD-85_082610_01 | Cs-137 | Particulate | 1.2 U | 2.2 | 3.77 | SMRD-085-GW081910 | Cs-137 | Suspended | 0.16 U | 0.16 | 0.52 |
| RD-85 | RD-85_082610_01 | Co-60 | Dissolved | -0.793 U | 1 | 1.99 | SMRD-085-GW081910 | Co-60 | Filtered | -0.19 U | 0.48 | 1.7 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-85 | RD-85_082610_01 | Co-60 | Particulate | -1.3 U | 1.9 | 3.77 | SMRD-085-GW081910 | Co-60 | Suspended | 0 U | 0.37 | 1.3 |
| RD-85 | RD-85_082610_01 | Eu-152 | Dissolved | -4.41 U | 4.7 | 8.3 | SMRD-085-GW081910 | Eu-152 | Filtered | 0.04 U | 1.1 | 3.9 |
| RD-85 | RD-85_082610_01 | Eu-152 | Particulate | -0.121 U | 4.9 | 8.62 | SMRD-085-GW081910 | Eu-152 | Suspended | -0.03 U | 0.45 | 1.6 |
| RD-85 | RD-85_082610_01 | Eu-154 | Dissolved | -1.68 U | 2.6 | 4.92 | SMRD-085-GW081910 | Eu-154 | Filtered | -1.7 U | 3.8 | 13 |
| RD-85 | RD-85_082610_01 | Eu-154 | Particulate | 2 U | 4.3 | 7.71 | SMRD-085-GW081910 | Eu-154 | Suspended | 0.1 U | 1.8 | 6.2 |
| RD-85 | RD-85_082610_01 | Eu-155 | Dissolved | 2.61 U | 3.7 | 6.16 | SMRD-085-GW081910 | Eu-155 | Filtered | 0.97 U | 0.94 | 3.1 |
| RD-85 | RD-85_082610_01 | Eu-155 | Particulate | -1.95 U | 5.1 | 8.89 | SMRD-085-GW081910 | Eu-155 | Suspended | -0.27 U | 0.39 | 1.3 |
| RD-85 | RD-85_082610_01 | gross_alpha | Dissolved | 3.77 | 2.5 | 3.3 | SMRD-085-GW081910 | gross_alpha | Filtered | 6.7 | 0.55 | 0.46 |
| RD-85 | RD-85_082610_01 | gross_alpha | Particulate | 1.38 U | 0.94 | 1.52 | SMRD-085-GW081910 | gross_alpha | Suspended | 4.45 | 0.48 | 0.66 |
| RD-85 | RD-85_082610_01 | gross_beta | Dissolved | 6.74 | 4.1 | 6.66 | SMRD-085-GW081910 | gross_beta | Filtered | 5.22 | 0.9 | 2.2 |
| RD-85 | RD-85_082610_01 | gross_beta | Particulate | 0.136 U | 2.5 | 4.18 | SMRD-085-GW081910 | gross_beta | Suspended | 2.61 | 0.36 | 0.79 |
| RD-85 | RD-85_082610_01 | K-40 | Dissolved | 15.2 U | 21 | 34.8 | SMRD-085-GW081910 | K-40 | Filtered | 3 U | 5.9 | 22 |
| RD-85 | RD-85_082610_01 | K-40 | Particulate | 16.8 U | 32 | 54.4 | SMRD-085-GW081910 | K-40 | Suspended | 10.8 | 2.7 | 8.9 |
| RD-85 | RD-85_082610_01 | Na-22 | Dissolved | -0.583 U | 0.89 | 1.71 | SMRD-085-GW081910 | Na-22 | Filtered | -0.14 U | 0.53 | 1.9 |
| RD-85 | RD-85_082610_01 | Na-22 | Particulate | 0.695 U | 1.5 | 2.68 | SMRD-085-GW081910 | Na-22 | Suspended | -0.08 U | 0.24 | 0.85 |
| RD-85 | RD-85_082610_01 | Sr-90 | Particulate | -0.16 U | 0.18 | 0.402 | SMRD-085-GW081910 | Sr-90 | Suspended | -0.024 U | 0.019 | 0.07 |
| RD-85 | RD-85_082610_01 | H-3 | Total | 30 U | 86 | 144 | SMRD-085-GW081910 | H-3 | Filtered | 54 U | 40 | 130 |
| RD-85 | RD-85_082610_01 | U-233/234 | Dissolved | 1.48 U | 0.18 | 0.062 | SMRD-085-GW081910 | U-233/234 | Filtered | 2.35 | 0.15 | 0.03 |
| RD-85 | RD-85_082610_01 | U-233/234 | Particulate | 0.031 U | 0.041 | 0.069 | SMRD-085-GW081910 | U-233/234 | Suspended | 0.037 | 0.017 | 0.041 |
| RD-85 | RD-85_082610_01 | U-235/236 | Dissolved | 0.08 | 0.049 | 0.047 | SMRD-085-GW081910 | U-235/236 | Filtered | 0.159 | 0.033 | 0.017 |
| RD-85 | RD-85_082610_01 | U-235/236 | Particulate | -0.006 U | 0.013 | 0.048 | SMRD-085-GW081910 | U-235/236 | Suspended | 0.0015 U | 0.0068 | 0.036 |
| RD-85 | RD-85_082610_01 | U-238 | Dissolved | 1.01 | 0.15 | 0.056 | SMRD-085-GW081910 | U-238 | Filtered | 1.93 | 0.13 | 0.03 |
| RD-85 | RD-85_082610_01 | U-238 | Particulate | -0.005 U | 0.01 | 0.049 | SMRD-085-GW081910 | U-238 | Suspended | 0.019 U | 0.02 | 0.067 |
| RD-86 | RD-86_081910_01 | Sb-125 | Dissolved | -1.98 U | 3.8 | 6.73 | SMRD-086-GW081910 | Sb-125 | Filtered | -1 U | 4.3 | 15 |
| RD-86 | RD-86_081910_01 | Sb-125 | Particulate | 1.46 U | 4.3 | 7.46 | SMRD-086-GW081910 | Sb-125 | Suspended | -1.6 U | 1.9 | 6.2 |
| RD-86 | RD-86_081910_01 | Cs-134 | Dissolved | 0.461 U | 1.1 | 1.88 | SMRD-086-GW081910 | Cs-134 | Filtered | -0.31 U | 0.43 | 1.4 |
| RD-86 | RD-86_081910_01 | Cs-134 | Particulate | 0.176 U | 1.9 | 3.37 | SMRD-086-GW081910 | Cs-134 | Suspended | 0.09 U | 0.18 | 0.62 |
| RD-86 | RD-86_081910_01 | Cs-137 | Dissolved | 1.51 U | 1.7 | 2.92 | SMRD-086-GW081910 | Cs-137 | Filtered | -0.53 U | 0.39 | 1.3 |
| RD-86 | RD-86_081910_01 | Cs-137 | Particulate | -1.41 U | 1.7 | 3.14 | SMRD-086-GW081910 | Cs-137 | Suspended | 0.13 U | 0.18 | 0.61 |
| RD-86 | RD-86_081910_01 | Co-60 | Dissolved | 0.041 U | 0.98 | 1.77 | SMRD-086-GW081910 | Co-60 | Filtered | 0 U | 0.5 | 1.7 |
| RD-86 | RD-86_081910_01 | Co-60 | Particulate | 0.689 U | 1.6 | 2.88 | SMRD-086-GW081910 | Co-60 | Suspended | -0.02 U | 0.21 | 0.74 |

**Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)**

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-86 | RD-86_081910_01 | Eu-152 | Dissolved | 0.267 U | 24 | 3.48 | SMRD-086-GW081910 | Eu-152 | Filtered | -0.9 U | 1.1 | 3.5 |
| RD-86 | RD-86_081910_01 | Eu-152 | Particulate | -0.665 U | 5.4 | 9.49 | SMRD-086-GW081910 | Eu-152 | Suspended | 0.26 U | 0.41 | 1.4 |
| RD-86 | RD-86_081910_01 | Eu-154 | Dissolved | -4.7 U | 5.9 | 5.96 | SMRD-086-GW081910 | Eu-154 | Filtered | 0.5 U | 2.8 | 9.7 |
| RD-86 | RD-86_081910_01 | Eu-154 | Particulate | -4.76 U | 5.1 | 10.2 | SMRD-086-GW081910 | Eu-154 | Suspended | -0.5 U | 1.8 | 6.2 |
| RD-86 | RD-86_081910_01 | Eu-155 | Dissolved | 4.56 U | 4.6 | 7.74 | SMRD-086-GW081910 | Eu-155 | Filtered | 0.2 U | 1.1 | 3.6 |
| RD-86 | RD-86_081910_01 | Eu-155 | Particulate | 1.49 U | 6 | 10.2 | SMRD-086-GW081910 | Eu-155 | Suspended | -0.05 U | 0.37 | 1.2 |
| RD-86 | RD-86_081910_01 | gross_alpha | Dissolved | 1.8 J | 1.2 | 1.77 | SMRD-086-GW081910 | gross_alpha | Filtered | 3.97 | 0.4 | 0.42 |
| RD-86 | RD-86_081910_01 | gross_alpha | Particulate | 1.23 J | 0.66 | 1.03 | SMRD-086-GW081910 | gross_alpha | Suspended | 0.14 U | 0.21 | 0.76 |
| RD-86 | RD-86_081910_01 | gross_beta | Dissolved | 3.58 J | 2 | 3.12 | SMRD-086-GW081910 | gross_beta | Filtered | 206 | 8.5 | 2.4 |
| RD-86 | RD-86_081910_01 | gross_beta | Particulate | 1.27 U | 1.4 | 2.3 | SMRD-086-GW081910 | gross_beta | Suspended | 0.64 | 0.24 | 0.74 |
| RD-86 | RD-86_081910_01 | K-40 | Dissolved | -4.17 U | 22 | 37.7 | SMRD-086-GW081910 | K-40 | Filtered | -1.3 U | 7.5 | 25 |
| RD-86 | RD-86_081910_01 | K-40 | Particulate | -17.8 U | 36 | 65.2 | SMRD-086-GW081910 | K-40 | Suspended | 6.7 | 3.4 | 9.6 |
| RD-86 | RD-86_081910_01 | Na-22 | Dissolved | 0.064 U | 1.3 | 2.22 | SMRD-086-GW081910 | Na-22 | Filtered | -0.27 U | 0.38 | 1.3 |
| RD-86 | RD-86_081910_01 | Na-22 | Particulate | -1.65 U | 1.8 | 3.54 | SMRD-086-GW081910 | Na-22 | Suspended | 0.11 U | 0.23 | 0.79 |
| RD-86 | RD-86_081910_01 | Sr-90 | Particulate | -0.023 U | 0.27 | 0.544 | SMRD-086-GW081910 | Sr-90 | Suspended | 0.025 U | 0.022 | 0.074 |
| RD-86 | RD-86_081910_01 | H-3 | Total | -17 U | 92 | 157 | SMRD-086-GW081910 | H-3 | Filtered | -5 U | 40 | 140 |
| RD-86 | RD-86_081910_01 | U-233/234 | Dissolved | 2.33 | 0.2 | 0.059 | SMRD-086-GW081910 | U-233/234 | Filtered | 1.98 | 0.13 | 0.04 |
| RD-86 | RD-86_081910_01 | U-233/234 | Particulate | 0.048 U | 0.038 | 0.059 | SMRD-086-GW081910 | U-233/234 | Suspended | 0.024 | 0.014 | 0.033 |
| RD-86 | RD-86_081910_01 | U-235/236 | Dissolved | 0.08 J | 0.035 | 0.034 | SMRD-086-GW081910 | U-235/236 | Filtered | 0.102 | 0.025 | 0.016 |
| RD-86 | RD-86_081910_01 | U-235/236 | Particulate | 0 U | 0.023 | 0.056 | SMRD-086-GW081910 | U-235/236 | Suspended | 0 U | 0.0021 | 0.015 |
| RD-86 | RD-86_081910_01 | U-238 | Dissolved | 1.93 | 0.18 | 0.045 | SMRD-086-GW081910 | U-238 | Filtered | 2 | 0.13 | 0.02 |
| RD-86 | RD-86_081910_01 | U-238 | Particulate | 0.014 U | 0.019 | 0.046 | SMRD-086-GW081910 | U-238 | Suspended | 0.024 | 0.013 | 0.03 |
| RD-96 | RD-96_081910_01 | Sb-125 | Dissolved | 1.65 U | 3.7 | 6.22 | SMRD-96-GW081910 | Sb-125 | Filtered | 2.4 U | 4.2 | 14 |
| RD-96 | RD-96_081910_01 | Sb-125 | Particulate | -1.85 U | 3.2 | 5.72 | SMRD-96-GW081910 | Sb-125 | Suspended | 0.7 U | 1.8 | 6.1 |
| RD-96 | RD-96_081910_01 | Cs-134 | Dissolved | 0.014 U | 0.46 | 2.09 | SMRD-96-GW081910 | Cs-134 | Filtered | 0.32 U | 0.42 | 1.4 |
| RD-96 | RD-96_081910_01 | Cs-134 | Particulate | 0.071 U | 1.9 | 3.39 | SMRD-96-GW081910 | Cs-134 | Suspended | -0.14 U | 0.28 | 0.95 |
| RD-96 | RD-96_081910_01 | Cs-137 | Dissolved | -1.19 U | 1.4 | 2.56 | SMRD-96-GW081910 | Cs-137 | Filtered | 0 U | 0.45 | 1.6 |
| RD-96 | RD-96_081910_01 | Cs-137 | Particulate | 0.367 U | 1.7 | 2.9 | SMRD-96-GW081910 | Cs-137 | Suspended | 0.13 U | 0.22 | 0.74 |
| RD-96 | RD-96_081910_01 | Co-60 | Dissolved | 0.431 U | 1.3 | 2.31 | SMRD-96-GW081910 | Co-60 | Filtered | -0.001 U | 0.51 | 1.8 |
| RD-96 | RD-96_081910_01 | Co-60 | Particulate | -0.156 U | 1.2 | 2.2 | SMRD-96-GW081910 | Co-60 | Suspended | 0.13 U | 0.21 | 0.74 |
| RD-96 | RD-96_081910_01 | Eu-152 | Dissolved | 0.018 U | 0.35 | 3.49 | SMRD-96-GW081910 | Eu-152 | Filtered | 0.08 U | 1.1 | 3.7 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-96 | RD-96_081910_01 | Eu-152 | Particulate | -0.673 U | 4.8 | 8.32 | SMRD-96-GW081910 | Eu-152 | Suspended | 0.11 U | 0.52 | 1.8 |
| RD-96 | RD-96_081910_01 | Eu-154 | Dissolved | -0.065 U | 2.5 | 4.63 | SMRD-96-GW081910 | Eu-154 | Filtered | -0.3 U | 2.4 | 8.9 |
| RD-96 | RD-96_081910_01 | Eu-154 | Particulate | 1.91 U | 3.9 | 6.77 | SMRD-96-GW081910 | Eu-154 | Suspended | -0.04 U | 1.4 | 5 |
| RD-96 | RD-96_081910_01 | Eu-155 | Dissolved | -0.394 U | 3.8 | 6.59 | SMRD-96-GW081910 | Eu-155 | Filtered | 0.334 U | 0.997 | 3.4 |
| RD-96 | RD-96_081910_01 | Eu-155 | Particulate | -0.178 U | 3.7 | 6.37 | SMRD-96-GW081910 | Eu-155 | Suspended | 0.31 U | 0.37 | 1.2 |
| RD-96 | RD-96_081910_01 | gross_alpha | Dissolved | 5.06 | 1.5 | 1.59 | SMRD-96-GW081910 | gross_alpha | Filtered | 11.7 | 0.83 | 0.53 |
| RD-96 | RD-96_081910_01 | gross_alpha | Particulate | 7.19 | 1.8 | 1.28 | SMRD-96-GW081910 | gross_alpha | Suspended | 8.63 | 0.7 | 0.59 |
| RD-96 | RD-96_081910_01 | gross_beta | Dissolved | 7.04 | 1.7 | 2.48 | SMRD-96-GW081910 | gross_beta | Filtered | 13.4 | 1.2 | 2.1 |
| RD-96 | RD-96_081910_01 | gross_beta | Particulate | 9.06 | 2.4 | 3.33 | SMRD-96-GW081910 | gross_beta | Suspended | 7.28 | 0.54 | 0.79 |
| RD-96 | RD-96_081910_01 | K-40 | Dissolved | -4.22 U | 20 | 35.8 | SMRD-96-GW081910 | K-40 | Filtered | -5.2 U | 7.8 | 23 |
| RD-96 | RD-96_081910_01 | K-40 | Particulate | 8.84 U | 16 | 27.6 | SMRD-96-GW081910 | K-40 | Suspended | 6.4 | 3 | 9.7 |
| RD-96 | RD-96_081910_01 | Na-22 | Dissolved | -0.022 U | 0.88 | 1.61 | SMRD-96-GW081910 | Na-22 | Filtered | -0.01 U | 0.44 | 1.6 |
| RD-96 | RD-96_081910_01 | Na-22 | Particulate | 0.661 U | 1.3 | 2.35 | SMRD-96-GW081910 | Na-22 | Suspended | 0.28 U | 0.25 | 0.83 |
| RD-96 | RD-96_081910_01 | Sr-90 | Dissolved | -0.094 U | 0.3 | 0.596 | SMRD-96-GW081910 | Sr-90 | Suspended | 0.082 | 0.023 | 0.069 |
| RD-96 | RD-96_081910_01 | H-3 | Total | 80.2 U | 95 | 156 | SMRD-96-GW081910 | H-3 | Filtered | 43 U | 40 | 130 |
| RD-96 | RD-96_081910_01 | U-233/234 | Dissolved | 3.88 | 0.29 | 0.076 | SMRD-96-GW081910 | U-233/234 | Filtered | 3.89 | 0.21 | 0.06 |
| RD-96 | RD-96_081910_01 | U-233/234 | Particulate | 0.187 J | 0.082 | 0.094 | SMRD-96-GW081910 | U-233/234 | Suspended | 0.396 | 0.046 | 0.012 |
| RD-96 | RD-96_081910_01 | U-235/236 | Dissolved | 0.175 J | 0.06 | 0.038 | SMRD-96-GW081910 | U-235/236 | Filtered | 0.225 | 0.038 | 0.016 |
| RD-96 | RD-96_081910_01 | U-235/236 | Particulate | 0.014 U | 0.028 | 0.054 | SMRD-96-GW081910 | U-235/236 | Suspended | 0.0056 U | 0.0056 | 0.015 |
| RD-96 | RD-96_081910_01 | U-238 | Dissolved | 3.54 | 0.27 | 0.059 | SMRD-96-GW081910 | U-238 | Filtered | 3.83 | 0.21 | 0.03 |
| RD-96 | RD-96_081910_01 | U-238 | Particulate | 0.216 J | 0.071 | 0.045 | SMRD-96-GW081910 | U-238 | Suspended | 0.249 | 0.036 | 0.012 |
| RD-98 | RD-98_111910_01 | Sb-125 | Dissolved | 0.833 U | 3.3 | 5.63 | SMRD-098-GW090210 | Sb-125 | Filtered | 0.07 U | 4.2 | 14 |
| RD-98 | RD-98_111910_01 | Sb-125 | Particulate | -1.18 U | 3.5 | 6.17 | SMRD-098-GW090210 | Sb-125 | Suspended | -0.03 U | 0.97 | 3.3 |
| RD-98 | RD-98_111910_01 | Cs-134 | Dissolved | 0.7 U | 1 | 1.76 | SMRD-098-GW090210 | Cs-134 | Filtered | -0.18 U | 0.36 | 1.2 |
| RD-98 | RD-98_111910_01 | Cs-134 | Particulate | -0.114 U | 2.8 | 4.82 | SMRD-098-GW090210 | Cs-134 | Suspended | -0.23 U | 0.18 | 0.59 |
| RD-98 | RD-98_111910_01 | Cs-137 | Dissolved | -0.061 U | 2.1 | 3.56 | SMRD-098-GW090210 | Cs-137 | Filtered | -0.26 U | 0.39 | 1.3 |
| RD-98 | RD-98_111910_01 | Cs-137 | Particulate | -0.398 U | 2.3 | 4.06 | SMRD-098-GW090210 | Cs-137 | Suspended | -0.02 U | 0.14 | 0.51 |
| RD-98 | RD-98_111910_01 | Co-60 | Dissolved | 0.223 U | 1.7 | 3 | SMRD-098-GW090210 | Co-60 | Filtered | 0 U | 0.25 | 0.9 |
| RD-98 | RD-98_111910_01 | Co-60 | Particulate | 0.318 U | 2 | 3.53 | SMRD-098-GW090210 | Co-60 | Suspended | -0.01 U | 0.18 | 0.64 |
| RD-98 | RD-98_111910_01 | Eu-152 | Dissolved | -0.512 U | 3.3 | 7.15 | SMRD-098-GW090210 | Eu-152 | Filtered | -0.4 U | 1.2 | 3.9 |
| RD-98 | RD-98_111910_01 | Eu-152 | Particulate | 1.48 U | 2.6 | 6.98 | SMRD-098-GW090210 | Eu-152 | Suspended | 0.27 U | 0.33 | 1.1 |

Table D.3
Boeing - USEPA Data Comparison
Phase I Samples (August - September 2010)

| Well Identification | BOEING DATA | | | | | | USEPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-98 | RD-98_111910_01 | Eu-154 | Dissolved | 0.523 U | 3.2 | 5.7 | SMRD-098-GW090210 | Eu-154 | Filtered | 0.3 U | 3 | 10 |
| RD-98 | RD-98_111910_01 | Eu-154 | Particulate | 2.6 U | 4.8 | 8.26 | SMRD-098-GW090210 | Eu-154 | Suspended | -0.2 U | 1.1 | 4 |
| RD-98 | RD-98_111910_01 | Eu-155 | Dissolved | -0.642 U | 3.3 | 5.74 | SMRD-098-GW090210 | Eu-155 | Filtered | 0.34 U | 0.89 | 3 |
| RD-98 | RD-98_111910_01 | Eu-155 | Particulate | 2.1 U | 4.5 | 7.66 | SMRD-098-GW090210 | Eu-155 | Suspended | 0.07 U | 0.21 | 0.72 |
| RD-98 | RD-98_111910_01 | gross_alpha | Dissolved | 1.9 U | 1.4 | 1.98 | SMRD-098-GW090210 | gross_alpha | Filtered | 4.28 | 0.45 | 0.44 |
| RD-98 | RD-98_111910_01 | gross_alpha | Particulate | 12.1 | 1.4 | 0.637 | SMRD-098-GW090210 | gross_alpha | Suspended | 7.65 | 0.71 | 0.64 |
| RD-98 | RD-98_111910_01 | gross_beta | Dissolved | 22.8 | 1.7 | 1.81 | SMRD-098-GW090210 | gross_beta | Filtered | 14.7 | 1.4 | 2.8 |
| RD-98 | RD-98_111910_01 | gross_beta | Particulate | 16.4 | 1.6 | 1.98 | SMRD-098-GW090210 | gross_beta | Suspended | 2.76 | 0.36 | 0.81 |
| RD-98 | RD-98_111910_01 | K-40 | Dissolved | -2.1 U | 17 | 29.9 | SMRD-098-GW090210 | K-40 | Filtered | 47.2 | 7.2 | 18 |
| RD-98 | RD-98_111910_01 | K-40 | Particulate | 8.81 U | 30 | 52 | SMRD-098-GW090210 | K-40 | Suspended | -2.3 U | 2.8 | 8.8 |
| RD-98 | RD-98_111910_01 | Na-22 | Dissolved | 0.177 U | 1.1 | 1.93 | SMRD-098-GW090210 | Na-22 | Filtered | -0.13 U | 0.39 | 1.4 |
| RD-98 | RD-98_111910_01 | Na-22 | Particulate | 0.882 U | 1.6 | 2.8 | SMRD-098-GW090210 | Na-22 | Suspended | 0.05 U | 0.17 | 0.6 |
| RD-98 | RD-98_111910_01 | Sr-90 | Dissolved | 9.68 | 0.64 | 0.459 | SMRD-098-GW090210 | Sr-90 | Filtered | 7 | 0.36 | 0.23 |
| RD-98 | RD-98_111910_01 | Sr-90 | Particulate | -0.064 U | 0.23 | 0.479 | SMRD-098-GW090210 | Sr-90 | Suspended | 0.167 | 0.05 | 0.15 |
| RD-98 | RD-98_111910_01 | H-3 | Total | 41.3 U | 79 | 132 | SMRD-098-GW090210 | H-3 | Filtered | -90 L U | 40 | 140 |
| RD-98 | RD-98_111910_01 | U-233/234 | Dissolved | 2 | 0.26 | 0.078 | SMRD-098-GW090210 | U-233/234 | Filtered | 2.18 | 0.14 | 0.03 |
| RD-98 | RD-98_111910_01 | U-233/234 | Particulate | 0.205 J | 0.038 | 0.033 | SMRD-098-GW090210 | U-233/234 | Suspended | 0.141 | 0.031 | 0.032 |
| RD-98 | RD-98_111910_01 | U-235/236 | Dissolved | 0.12 J | 0.069 | 0.066 | SMRD-098-GW090210 | U-235/236 | Filtered | 0.098 | 0.027 | 0.019 |
| RD-98 | RD-98_111910_01 | U-235/236 | Particulate | 0.035 J | 0.019 | 0.024 | SMRD-098-GW090210 | U-235/236 | Suspended | 0.0066 | 0.0094 | 0.018 |
| RD-98 | RD-98_111910_01 | U-238 | Dissolved | 1.34 | 0.21 | 0.078 | SMRD-098-GW090210 | U-238 | Filtered | 1.52 | 0.11 | 0.04 |
| RD-98 | RD-98_111910_01 | U-238 | Particulate | 0.17 J | 0.035 | 0.021 | SMRD-098-GW090210 | U-238 | Suspended | 0.108 | 0.026 | 0.027 |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

The Boeing Company data is assumed to be a total propagated uncertainty (TPU), reported at the 2σ confidence interval.

The gross alpha and gross beta results reported by The Boeing Company, may lack adequate analytical control and should not be used as a basis for assessing the data quality or making analytical decisions.

MDC - minimum detectable concentration

pCi/L - picocuries per liter

TPU - total propagated uncertainty

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

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

U - Not considered detected. The associated number is the reported concentration.

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-13 | RD-13_011311_01 | Sb-125 | Dissolved | 3.51 U | 4 | 6.71 | SMRD-13-GW032911 | Sb-125 | Filtered | -1.1 U | 3.6 | 12 |
| RD-13 | RD-13_011311_01 | Sb-125 | Particulate | -5.94 U | 7.9 | 13.8 | SMRD-13-GW032911 | Sb-125 | Suspended | -1.9 U | 1.4 | 4.5 |
| RD-13 | RD-13_011311_01 | Cs-134 | Dissolved | 0.406 U | 1.5 | 2.58 | SMRD-13-GW032911 | Cs-134 | Filtered | 0.04 U | 0.33 | 1.1 |
| RD-13 | RD-13_011311_01 | Cs-134 | Particulate | 0.814 U | 3.7 | 6.45 | SMRD-13-GW032911 | Cs-134 | Suspended | 0.06 U | 0.12 | 0.42 |
| RD-13 | RD-13_011311_01 | Cs-137 | Dissolved | 0.282 U | 1.4 | 2.4 | SMRD-13-GW032911 | Cs-137 | Filtered | 0.49 U | 0.35 | 1.2 |
| RD-13 | RD-13_011311_01 | Cs-137 | Particulate | -2.75 U | 4.1 | 7.22 | SMRD-13-GW032911 | Cs-137 | Suspended | 0.13 U | 0.15 | 0.51 |
| RD-13 | RD-13_011311_01 | Co-60 | Dissolved | 0.139 U | 0.99 | 1.77 | SMRD-13-GW032911 | Co-60 | Filtered | 0 U | 0.33 | 1.2 |
| RD-13 | RD-13_011311_01 | Co-60 | Particulate | -1.06 U | 2.4 | 4.49 | SMRD-13-GW032911 | Co-60 | Suspended | -0.08 U | 0.17 | 0.6 |
| RD-13 | RD-13_011311_01 | Eu-152 | Dissolved | -1.92 U | 5 | 8.65 | SMRD-13-GW032911 | Eu-152 | Filtered | 0.85 U | 0.95 | 3.2 |
| RD-13 | RD-13_011311_01 | Eu-152 | Particulate | -8.77 U | 11 | 18.5 | SMRD-13-GW032911 | Eu-152 | Suspended | 0.21 U | 0.41 | 1.4 |
| RD-13 | RD-13_011311_01 | Eu-154 | Dissolved | -0.452 U | 2.8 | 5.13 | SMRD-13-GW032911 | Eu-154 | Filtered | -1.3 U | 2.7 | 9.3 |
| RD-13 | RD-13_011311_01 | Eu-154 | Particulate | -1.38 U | 5.7 | 10.6 | SMRD-13-GW032911 | Eu-154 | Suspended | 0.2 U | 1.1 | 4 |
| RD-13 | RD-13_011311_01 | Eu-155 | Dissolved | 1.24 U | 4.3 | 7.33 | SMRD-13-GW032911 | Eu-155 | Filtered | 0.17 U | 0.87 | 2.9 |
| RD-13 | RD-13_011311_01 | Eu-155 | Particulate | 1.56 U | 7.4 | 12.6 | SMRD-13-GW032911 | Eu-155 | Suspended | -0.17 U | 0.29 | 0.98 |
| RD-13 | RD-13_011311_01 | gross_alpha | Dissolved | 3.33 | 1.3 | 1.38 | SMRD-13-GW032911 | gross_alpha | Filtered | 5.68 J | 0.53 | 0.58 |
| RD-13 | RD-13_011311_01 | gross_alpha | Particulate | -0.426 U | 0.38 | 0.86 | SMRD-13-GW032911 | gross_alpha | Suspended | 0.32 | 0.15 | 0.43 |
| RD-13 | RD-13_011311_01 | gross_beta | Dissolved | 4.11 | 1.5 | 2.21 | SMRD-13-GW032911 | gross_beta | Filtered | 5.09 R | 0.59 | 1.2 |
| RD-13 | RD-13_011311_01 | gross_beta | Particulate | -0.616 U | 1.4 | 2.34 | SMRD-13-GW032911 | gross_beta | Suspended | -0.37 U | 0.23 | 0.86 |
| RD-13 | RD-13_011311_01 | K-40 | Dissolved | -9.48 U | 20 | 35.7 | SMRD-13-GW032911 | K-40 | Filtered | 1 U | 4.7 | 16 |
| RD-13 | RD-13_011311_01 | K-40 | Particulate | 17.6 U | 38 | 64.7 | SMRD-13-GW032911 | K-40 | Suspended | -3.2 U | 3.2 | 8.5 |
| RD-13 | RD-13_011311_01 | Na-22 | Dissolved | -0.153 U | 0.94 | 1.74 | SMRD-13-GW032911 | Na-22 | Filtered | -0.005 U | 0.31 | 1.1 |
| RD-13 | RD-13_011311_01 | Na-22 | Particulate | -0.467 U | 1.9 | 3.59 | SMRD-13-GW032911 | Na-22 | Suspended | 0.008 U | 0.17 | 0.61 |
| RD-13 | RD-13_011311_01 | Sr-90 | Dissolved | 0.142 U | 0.37 | 0.687 | SMRD-13-GW032911 | Sr-90 | Filtered | 0.054 U | 0.035 | 0.12 |
| RD-13 | RD-13_011311_01 | Sr-90 | Particulate | -0.272 U | 0.34 | 0.731 | SMRD-13-GW032911 | Sr-90 | Suspended | 0.008 U | 0.019 | 0.068 |
| RD-13 | RD-13_011311_01 | H-3 | Total | 53.6 U | 170 | 291 | SMRD-13-GW032911 | H-3 | Total | -7 U | 36 | 120 |
| RD-13 | RD-13_011311_01 | U-233/234 | Dissolved | 2.47 | 0.31 | 0.108 | SMRD-13-GW032911 | U-233/234 | Filtered | 2.57 | 0.13 | 0.02 |
| RD-13 | RD-13_011311_01 | U-233/234 | Particulate | -0.009 U | 0.034 | 0.094 | SMRD-13-GW032911 | U-233/234 | Suspended | 0 U | 0.0059 | 0.018 |
| RD-13 | RD-13_011311_01 | U-235/236 | Dissolved | 0.068 U | 0.058 | 0.074 | SMRD-13-GW032911 | U-235/236 | Filtered | 0.123 | 0.019 | 0.008 |
| RD-13 | RD-13_011311_01 | U-235/236 | Particulate | 0.01 U | 0.021 | 0.079 | SMRD-13-GW032911 | U-235/236 | Suspended | 0.0023 U | 0.0023 | 0.0063 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|-------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-13 | RD-13_011311_01 | U-238 | Dissolved | 1.62 | 0.24 | 0.077 | SMRD-13-GW032911 | U-238 | Filtered | 2.06 | 0.11 | 0.006 |
| RD-13 | RD-13_011311_01 | U-238 | Particulate | -0.017 U | 0.017 | 0.082 | SMRD-13-GW032911 | U-238 | Suspended | -0.0018 U | 0.004 | 0.013 |
| RD-14 | RD-14_011311_01 | Sb-125 | Dissolved | 3.44 U | 7.6 | 13 | SMRD-14-GW032111 | Sb-125 | Filtered | -2.7 U | 3.7 | 12 |
| RD-14 | RD-14_011311_01 | Sb-125 | Particulate | 0.997 U | 5.2 | 8.94 | SMRD-14-GW032111 | Sb-125 | Suspended | 0.5 U | 1.6 | 5.3 |
| RD-14 | RD-14_011311_01 | Cs-134 | Dissolved | -1.64 U | 3 | 5.46 | SMRD-14-GW032111 | Cs-134 | Filtered | 0.22 U | 0.29 | 1 |
| RD-14 | RD-14_011311_01 | Cs-134 | Particulate | 3.38 U | 5 | 8.44 | SMRD-14-GW032111 | Cs-134 | Suspended | 0.07 U | 0.18 | 0.63 |
| RD-14 | RD-14_011311_01 | Cs-137 | Dissolved | -0.661 U | 2 | 3.64 | SMRD-14-GW032111 | Cs-137 | Filtered | 0.03 U | 0.41 | 1.4 |
| RD-14 | RD-14_011311_01 | Cs-137 | Particulate | 0.748 U | 2.6 | 4.39 | SMRD-14-GW032111 | Cs-137 | Suspended | 0.23 U | 0.19 | 0.64 |
| RD-14 | RD-14_011311_01 | Co-60 | Dissolved | 0.558 U | 2.3 | 4.14 | SMRD-14-GW032111 | Co-60 | Filtered | -0.002 U | 0.42 | 1.5 |
| RD-14 | RD-14_011311_01 | Co-60 | Particulate | -0.577 U | 3.2 | 5.56 | SMRD-14-GW032111 | Co-60 | Suspended | -0.005 U | 0.18 | 0.65 |
| RD-14 | RD-14_011311_01 | Eu-152 | Dissolved | -2.07 U | 9.1 | 15.8 | SMRD-14-GW032111 | Eu-152 | Filtered | 1.36 U | 0.96 | 3.2 |
| RD-14 | RD-14_011311_01 | Eu-152 | Particulate | 2.44 U | 16 | 5.57 | SMRD-14-GW032111 | Eu-152 | Suspended | 0 U | 0.53 | 1.8 |
| RD-14 | RD-14_011311_01 | Eu-154 | Dissolved | -2.69 U | 7.6 | 14.1 | SMRD-14-GW032111 | Eu-154 | Filtered | -1.9 U | 3.6 | 13 |
| RD-14 | RD-14_011311_01 | Eu-154 | Particulate | -0.259 U | 6.3 | 11.2 | SMRD-14-GW032111 | Eu-154 | Suspended | -1.1 U | 1.8 | 6.2 |
| RD-14 | RD-14_011311_01 | Eu-155 | Dissolved | 3.43 U | 8.2 | 14 | SMRD-14-GW032111 | Eu-155 | Filtered | 0.53 U | 0.87 | 2.9 |
| RD-14 | RD-14_011311_01 | Eu-155 | Particulate | -0.905 U | 6.2 | 10.6 | SMRD-14-GW032111 | Eu-155 | Suspended | 0.23 U | 0.36 | 1.2 |
| RD-14 | RD-14_011311_01 | gross_alpha | Dissolved | 4.34 | 1.6 | 1.68 | SMRD-14-GW032111 | gross_alpha | Filtered | 3.91 | 0.39 | 0.36 |
| RD-14 | RD-14_011311_01 | gross_alpha | Particulate | 0.239 U | 0.56 | 0.924 | SMRD-14-GW032111 | gross_alpha | Suspended | 0.22 U | 0.16 | 0.52 |
| RD-14 | RD-14_011311_01 | gross_beta | Dissolved | 4 | 1.6 | 2.46 | SMRD-14-GW032111 | gross_beta | Filtered | 3.84 | 0.99 | 2.7 |
| RD-14 | RD-14_011311_01 | gross_beta | Particulate | 0.053 U | 1.4 | 2.32 | SMRD-14-GW032111 | gross_beta | Suspended | 0.52 | 0.25 | 0.78 |
| RD-14 | RD-14_011311_01 | K-40 | Dissolved | 23.3 U | 33 | 55.9 | SMRD-14-GW032111 | K-40 | Filtered | -4.6 U | 9.1 | 20 |
| RD-14 | RD-14_011311_01 | K-40 | Particulate | -9.42 U | 34 | 59.7 | SMRD-14-GW032111 | K-40 | Suspended | 2.1 U | 3.2 | 12 |
| RD-14 | RD-14_011311_01 | Na-22 | Dissolved | -0.912 U | 2.6 | 4.77 | SMRD-14-GW032111 | Na-22 | Filtered | -0.29 U | 0.46 | 1.6 |
| RD-14 | RD-14_011311_01 | Na-22 | Particulate | -0.088 U | 2.1 | 3.78 | SMRD-14-GW032111 | Na-22 | Suspended | -0.08 U | 0.22 | 0.75 |
| RD-14 | RD-14_011311_01 | Sr-90 | Dissolved | -0.128 U | 0.3 | 0.613 | SMRD-14-GW032111 | Sr-90 | Filtered | 0.086 | 0.023 | 0.07 |
| RD-14 | RD-14_011311_01 | Sr-90 | Particulate | -0.037 U | 0.34 | 0.679 | SMRD-14-GW032111 | Sr-90 | Suspended | -0.013 U | 0.03 | 0.11 |
| RD-14 | RD-14_011311_01 | H-3 | Total | -154 U | 160 | 296 | SMRD-14-GW032111 | H-3 | Total | 52 U | 43 | 140 |
| RD-14 | RD-14_011311_01 | U-233/234 | Dissolved | 2.58 | 0.31 | 0.116 | SMRD-14-GW032111 | U-233/234 | Filtered | 3.11 | 0.15 | 0.01 |
| RD-14 | RD-14_011311_01 | U-233/234 | Particulate | 0.033 U | 0.033 | 0.063 | SMRD-14-GW032111 | U-233/234 | Suspended | 0.011 | 0.011 | 0.01 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-14 | RD-14_011311_01 | U-235/236 | Dissolved | 0.068 U | 0.058 | 0.074 | SMRD-14-GW032111 | U-235/236 | Filtered | 0.116 | 0.019 | 0.007 |
| RD-14 | RD-14_011311_01 | U-235/236 | Particulate | 0.02 U | 0.02 | 0.077 | SMRD-14-GW032111 | U-235/236 | Suspended | 0.001 U | 0.0061 | 0.032 |
| RD-14 | RD-14_011311_01 | U-238 | Dissolved | 2.36 | 0.29 | 0.089 | SMRD-14-GW032111 | U-238 | Filtered | 2.72 | 0.14 | 0.01 |
| RD-14 | RD-14_011311_01 | U-238 | Particulate | 0.033 U | 0.033 | 0.063 | SMRD-14-GW032111 | U-238 | Suspended | 0.025 | 0.014 | 0.032 |
| RD-18 | RD-18_011311_01 | Sb-125 | Dissolved | -0.07 U | 3.2 | 5.55 | SMRD-18-GW032211 | Sb-125 | Filtered | 0.03 U | 2.6 | 9 |
| RD-18 | RD-18_011311_01 | Sb-125 | Particulate | -0.988 U | 4 | 7.1 | SMRD-18-GW032211 | Sb-125 | Suspended | 0.2 U | 1.8 | 6.1 |
| RD-18 | RD-18_011311_01 | Cs-134 | Dissolved | -0.139 U | 1.6 | 2.72 | SMRD-18-GW032211 | Cs-134 | Filtered | -0.31 U | 0.38 | 1.3 |
| RD-18 | RD-18_011311_01 | Cs-134 | Particulate | -1.13 U | 3 | 5.3 | SMRD-18-GW032211 | Cs-134 | Suspended | 0.12 U | 0.19 | 0.63 |
| RD-18 | RD-18_011311_01 | Cs-137 | Dissolved | -0.235 U | 1.1 | 2.02 | SMRD-18-GW032211 | Cs-137 | Filtered | 0.05 U | 0.28 | 0.97 |
| RD-18 | RD-18_011311_01 | Cs-137 | Particulate | -0.925 U | 2.1 | 3.74 | SMRD-18-GW032211 | Cs-137 | Suspended | -0.06 U | 0.22 | 0.74 |
| RD-18 | RD-18_011311_01 | Co-60 | Dissolved | -0.198 U | 1.1 | 2.02 | SMRD-18-GW032211 | Co-60 | Filtered | -0.31 U | 0.35 | 1.2 |
| RD-18 | RD-18_011311_01 | Co-60 | Particulate | 0.59 U | 2.7 | 4.62 | SMRD-18-GW032211 | Co-60 | Suspended | 0.01 U | 0.19 | 0.67 |
| RD-18 | RD-18_011311_01 | Eu-152 | Dissolved | -0.602 U | 3.5 | 6.05 | SMRD-18-GW032211 | Eu-152 | Filtered | 1.17 U | 0.78 | 2.6 |
| RD-18 | RD-18_011311_01 | Eu-152 | Particulate | 0.277 U | 2.3 | 6.83 | SMRD-18-GW032211 | Eu-152 | Suspended | -0.53 U | 0.54 | 1.8 |
| RD-18 | RD-18_011311_01 | Eu-154 | Dissolved | -0.373 U | 2.9 | 5.28 | SMRD-18-GW032211 | Eu-154 | Filtered | -0.3 U | 2.4 | 8.3 |
| RD-18 | RD-18_011311_01 | Eu-154 | Particulate | -4.72 U | 6.4 | 11.8 | SMRD-18-GW032211 | Eu-154 | Suspended | 1.2 U | 1.6 | 5.5 |
| RD-18 | RD-18_011311_01 | Eu-155 | Dissolved | -2.12 U | 4.3 | 7.45 | SMRD-18-GW032211 | Eu-155 | Filtered | -0.76 U | 0.93 | 3.1 |
| RD-18 | RD-18_011311_01 | Eu-155 | Particulate | -1.23 U | 4.6 | 7.92 | SMRD-18-GW032211 | Eu-155 | Suspended | 0.16 U | 0.36 | 1.2 |
| RD-18 | RD-18_011311_01 | gross_alpha | Dissolved | 4.02 | 1.3 | 1.23 | SMRD-18-GW032211 | gross_alpha | Filtered | 7.71 | 0.61 | 0.38 |
| RD-18 | RD-18_011311_01 | gross_alpha | Particulate | 1.16 J | 0.48 | 0.534 | SMRD-18-GW032211 | gross_alpha | Suspended | 2.75 | 0.33 | 0.42 |
| RD-18 | RD-18_011311_01 | gross_beta | Dissolved | 5.32 | 1.7 | 2.51 | SMRD-18-GW032211 | gross_beta | Filtered | 4.89 | 0.83 | 2 |
| RD-18 | RD-18_011311_01 | gross_beta | Particulate | 0.119 U | 0.9 | 1.47 | SMRD-18-GW032211 | gross_beta | Suspended | 0.3 U | 0.26 | 0.87 |
| RD-18 | RD-18_011311_01 | K-40 | Dissolved | -1.99 U | 17 | 30.5 | SMRD-18-GW032211 | K-40 | Filtered | -0.8 U | 4.4 | 17 |
| RD-18 | RD-18_011311_01 | K-40 | Particulate | 3.81 U | 29 | 50.9 | SMRD-18-GW032211 | K-40 | Suspended | 5.6 U | 3.3 | 12 |
| RD-18 | RD-18_011311_01 | Na-22 | Dissolved | -0.126 U | 0.98 | 1.79 | SMRD-18-GW032211 | Na-22 | Filtered | 0.01 U | 0.31 | 1.1 |
| RD-18 | RD-18_011311_01 | Na-22 | Particulate | -1.6 U | 2.1 | 3.98 | SMRD-18-GW032211 | Na-22 | Suspended | 0.02 U | 0.2 | 0.72 |
| RD-18 | RD-18_011311_01 | Sr-90 | Dissolved | 0.027 U | 0.39 | 0.758 | SMRD-18-GW032211 | Sr-90 | Filtered | 0.004 U | 0.016 | 0.054 |
| RD-18 | RD-18_011311_01 | Sr-90 | Particulate | -0.07 U | 0.38 | 0.746 | SMRD-18-GW032211 | Sr-90 | Suspended | 0.028 U | 0.017 | 0.054 |
| RD-18 | RD-18_011311_01 | H-3 | Total | -45 U | 170 | 293 | SMRD-18-GW032211 | H-3 | Total | -18 U | 44 | 150 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-18 | RD-18_011311_01 | U-233/234 | Dissolved | 2.9 | 0.33 | 0.105 | SMRD-18-GW032211 | U-233/234 | Filtered | 3.3 | 0.16 | 0.006 |
| RD-18 | RD-18_011311_01 | U-233/234 | Particulate | 0.062 U | 0.046 | 0.074 | SMRD-18-GW032211 | U-233/234 | Suspended | 0.077 | 0.019 | 0.024 |
| RD-18 | RD-18_011311_01 | U-235/236 | Dissolved | 0.143 J | 0.076 | 0.073 | SMRD-18-GW032211 | U-235/236 | Filtered | 0.124 | 0.018 | 0.007 |
| RD-18 | RD-18_011311_01 | U-235/236 | Particulate | 0.037 U | 0.037 | 0.071 | SMRD-18-GW032211 | U-235/236 | Suspended | 0.0053 U | 0.0072 | 0.029 |
| RD-18 | RD-18_011311_01 | U-238 | Dissolved | 2.32 | 0.29 | 0.097 | SMRD-18-GW032211 | U-238 | Filtered | 2.61 | 0.13 | 0.005 |
| RD-18 | RD-18_011311_01 | U-238 | Particulate | 0.054 U | 0.046 | 0.074 | SMRD-18-GW032211 | U-238 | Suspended | 0.057 | 0.017 | 0.024 |
| RD-19 | RD-19_011311_01 | Sb-125 | Dissolved | 2.49 U | 4.7 | 8.01 | SMRD-19-GW031711 | Sb-125 | Filtered | -0.3 U | 2.8 | 9.5 |
| RD-19 | RD-19_011311_01 | Sb-125 | Particulate | -0.265 U | 4.1 | 7.1 | SMRD-19-GW031711 | Sb-125 | Suspended | 0.09 | 1.6 | 5.5 |
| RD-19 | RD-19_011311_01 | Cs-134 | Dissolved | 0.009 U | 1.9 | 3.5 | SMRD-19-GW031711 | Cs-134 | Filtered | 0.003 | 0.35 | 1.2 |
| RD-19 | RD-19_011311_01 | Cs-134 | Particulate | -1.47 U | 2.1 | 3.71 | SMRD-19-GW031711 | Cs-134 | Suspended | 0.02 | 0.22 | 0.73 |
| RD-19 | RD-19_011311_01 | Cs-137 | Dissolved | 0.268 U | 2.1 | 3.63 | SMRD-19-GW031711 | Cs-137 | Filtered | -0.04 U | 0.33 | 1.2 |
| RD-19 | RD-19_011311_01 | Cs-137 | Particulate | 1.17 U | 2.8 | 4.73 | SMRD-19-GW031711 | Cs-137 | Suspended | 0.19 | 0.2 | 0.68 |
| RD-19 | RD-19_011311_01 | Co-60 | Dissolved | -0.446 U | 3.5 | 6.22 | SMRD-19-GW031711 | Co-60 | Filtered | 0.05 | 0.26 | 0.94 |
| RD-19 | RD-19_011311_01 | Co-60 | Particulate | 0.274 U | 1.6 | 2.82 | SMRD-19-GW031711 | Co-60 | Suspended | 0.27 | 0.2 | 0.66 |
| RD-19 | RD-19_011311_01 | Eu-152 | Dissolved | 2.78 U | 10 | 17 | SMRD-19-GW031711 | Eu-152 | Filtered | 0.009 | 0.91 | 3.1 |
| RD-19 | RD-19_011311_01 | Eu-152 | Particulate | 2.6 U | 3.1 | 4.42 | SMRD-19-GW031711 | Eu-152 | Suspended | 0.32 | 0.52 | 1.7 |
| RD-19 | RD-19_011311_01 | Eu-154 | Dissolved | 0.266 U | 5 | 9.17 | SMRD-19-GW031711 | Eu-154 | Filtered | -0.6 U | 2.6 | 9 |
| RD-19 | RD-19_011311_01 | Eu-154 | Particulate | 3.04 U | 3.3 | 5.56 | SMRD-19-GW031711 | Eu-154 | Suspended | 0 | 1.8 | 6.3 |
| RD-19 | RD-19_011311_01 | Eu-155 | Dissolved | -2.42 U | 9.5 | 16.3 | SMRD-19-GW031711 | Eu-155 | Filtered | 0.49 | 0.89 | 3 |
| RD-19 | RD-19_011311_01 | Eu-155 | Particulate | 0.856 U | 6.2 | 10.5 | SMRD-19-GW031711 | Eu-155 | Suspended | 0.46 | 0.37 | 1.2 |
| RD-19 | RD-19_011311_01 | gross_alpha | Dissolved | 16 | 3.7 | 4.1 | SMRD-19-GW031711 | gross_alpha | Filtered | 20.8 | 1.2 | 0.4 |
| RD-19 | RD-19_011311_01 | gross_alpha | Particulate | 0.161 U | 1 | 1.81 | SMRD-19-GW031711 | gross_alpha | Suspended | 0.03 U | 0.14 | 0.55 |
| RD-19 | RD-19_011311_01 | gross_beta | Dissolved | 13.5 | 3 | 4.23 | SMRD-19-GW031711 | gross_beta | Filtered | 8 | 1.6 | 3.9 |
| RD-19 | RD-19_011311_01 | gross_beta | Particulate | 0.616 U | 2.7 | 4.48 | SMRD-19-GW031711 | gross_beta | Suspended | 0.34 | 0.26 | 0.84 |
| RD-19 | RD-19_011311_01 | K-40 | Dissolved | 25.1 U | 41 | 70.1 | SMRD-19-GW031711 | K-40 | Filtered | 11.1 | 4.4 | 15 |
| RD-19 | RD-19_011311_01 | K-40 | Particulate | -11.9 U | 34 | 59.3 | SMRD-19-GW031711 | K-40 | Suspended | 1 | 3.5 | 12 |
| RD-19 | RD-19_011311_01 | Na-22 | Dissolved | 0.09 U | 1.7 | 3.1 | SMRD-19-GW031711 | Na-22 | Filtered | -0.21 U | 0.36 | 1.2 |
| RD-19 | RD-19_011311_01 | Na-22 | Particulate | 1.03 U | 1.1 | 1.88 | SMRD-19-GW031711 | Na-22 | Suspended | -0.04 U | 0.2 | 0.69 |
| RD-19 | RD-19_011311_01 | Sr-90 | Dissolved | -0.128 U | 0.32 | 0.641 | SMRD-19-GW031711 | Sr-90 | Filtered | 0.112 | 0.049 | 0.16 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-19 | RD-19_011311_01 | Sr-90 | Particulate | 0.169 U | 0.35 | 0.665 | SMRD-19-GW031711 | Sr-90 | Suspended | 0.066 | 0.038 | 0.12 |
| RD-19 | RD-19_011311_01 | H-3 | Total | -68.6 U | 170 | 298 | SMRD-19-GW031711 | H-3 | Total | -12 U | 43 | 150 |
| RD-19 | RD-19_011311_01 | U-233/234 | Dissolved | 13.1 | 0.88 | 0.155 | SMRD-19-GW031711 | U-233/234 | Filtered | 14 | 0.62 | 0.02 |
| RD-19 | RD-19_011311_01 | U-233/234 | Particulate | 0.018 U | 0.053 | 0.098 | SMRD-19-GW031711 | U-233/234 | Suspended | 0.0275 | 0.0088 | 0.0054 |
| RD-19 | RD-19_011311_01 | U-235/236 | Dissolved | 0.735 J | 0.18 | 0.075 | SMRD-19-GW031711 | U-235/236 | Filtered | 0.598 | 0.05 | 0.009 |
| RD-19 | RD-19_011311_01 | U-235/236 | Particulate | -0.011 U | 0.021 | 0.082 | SMRD-19-GW031711 | U-235/236 | Suspended | 0.005 U | 0.0035 | 0.0068 |
| RD-19 | RD-19_011311_01 | U-238 | Dissolved | 11.9 | 0.83 | 0.137 | SMRD-19-GW031711 | U-238 | Filtered | 13.2 | 0.58 | 0.02 |
| RD-19 | RD-19_011311_01 | U-238 | Particulate | -0.009 U | 0.018 | 0.085 | SMRD-19-GW031711 | U-238 | Suspended | 0.0021 U | 0.0045 | 0.0054 |
| RD-33A | RD-33A_011911_01 | Sb-125 | Dissolved | -1.64 U | 6.1 | 10.8 | SMRD-33A-GW033111 | Sb-125 | Filtered | -4.9 U | 4.7 | 16 |
| RD-33A | RD-33A_011911_01 | Sb-125 | Particulate | 3.17 U | 5.8 | 9.85 | SMRD-33A-GW033111 | Sb-125 | Suspended | 0.7 U | 1.7 | 5.8 |
| RD-33A | RD-33A_011911_01 | Cs-134 | Dissolved | -1.71 U | 2.2 | 4.1 | SMRD-33A-GW033111 | Cs-134 | Filtered | -0.28 U | 0.52 | 1.8 |
| RD-33A | RD-33A_011911_01 | Cs-134 | Particulate | -1.4 U | 1.8 | 3.33 | SMRD-33A-GW033111 | Cs-134 | Suspended | -0.21 U | 0.23 | 0.76 |
| RD-33A | RD-33A_011911_01 | Cs-137 | Dissolved | -0.529 U | 2.9 | 5.08 | SMRD-33A-GW033111 | Cs-137 | Filtered | 0.37 U | 0.45 | 1.5 |
| RD-33A | RD-33A_011911_01 | Cs-137 | Particulate | -2.02 U | 2.2 | 3.85 | SMRD-33A-GW033111 | Cs-137 | Suspended | -0.12 U | 0.23 | 0.78 |
| RD-33A | RD-33A_011911_01 | Co-60 | Dissolved | 0.953 U | 2 | 3.44 | SMRD-33A-GW033111 | Co-60 | Filtered | 0 U | 0.51 | 1.8 |
| RD-33A | RD-33A_011911_01 | Co-60 | Particulate | -0.963 U | 2.2 | 3.94 | SMRD-33A-GW033111 | Co-60 | Suspended | -0.003 U | 0.18 | 0.64 |
| RD-33A | RD-33A_011911_01 | Eu-152 | Dissolved | -1.58 U | 11 | 18.5 | SMRD-33A-GW033111 | Eu-152 | Filtered | 0.2 U | 1.2 | 4 |
| RD-33A | RD-33A_011911_01 | Eu-152 | Particulate | 0.415 U | 6.6 | 11.3 | SMRD-33A-GW033111 | Eu-152 | Suspended | -0.38 U | 0.55 | 1.9 |
| RD-33A | RD-33A_011911_01 | Eu-154 | Dissolved | 3.39 U | 6.1 | 10.6 | SMRD-33A-GW033111 | Eu-154 | Filtered | -1.9 U | 3.5 | 12 |
| RD-33A | RD-33A_011911_01 | Eu-154 | Particulate | 3.35 U | 4.9 | 8.39 | SMRD-33A-GW033111 | Eu-154 | Suspended | -1.5 U | 1.9 | 6.3 |
| RD-33A | RD-33A_011911_01 | Eu-155 | Dissolved | -0.471 U | 8.1 | 14 | SMRD-33A-GW033111 | Eu-155 | Filtered | 1.3 U | 1.2 | 3.8 |
| RD-33A | RD-33A_011911_01 | Eu-155 | Particulate | 0.447 U | 5.2 | 8.95 | SMRD-33A-GW033111 | Eu-155 | Suspended | -0.25 U | 0.43 | 1.4 |
| RD-33A | RD-33A_011911_01 | gross_alpha | Dissolved | 3.69 | 1.1 | 1.16 | SMRD-33A-GW033111 | gross_alpha | Filtered | 5.02 | 0.45 | 0.43 |
| RD-33A | RD-33A_011911_01 | gross_alpha | Particulate | 0.236 U | 0.73 | 1.31 | SMRD-33A-GW033111 | gross_alpha | Suspended | 0.14 U | 0.12 | 0.42 |
| RD-33A | RD-33A_011911_01 | gross_beta | Dissolved | 5.73 | 0.74 | 0.944 | SMRD-33A-GW033111 | gross_beta | Filtered | 4.02 | 0.7 | 1.8 |
| RD-33A | RD-33A_011911_01 | gross_beta | Particulate | -0.183 U | 0.65 | 1.1 | SMRD-33A-GW033111 | gross_beta | Suspended | 0.28 U | 0.25 | 0.83 |
| RD-33A | RD-33A_011911_01 | K-40 | Dissolved | 19.9 U | 46 | 79.7 | SMRD-33A-GW033111 | K-40 | Filtered | 21.2 | 6.6 | 20 |
| RD-33A | RD-33A_011911_01 | K-40 | Particulate | 22.4 U | 31 | 51.8 | SMRD-33A-GW033111 | K-40 | Suspended | 0.07 U | 3.5 | 12 |
| RD-33A | RD-33A_011911_01 | Na-22 | Dissolved | 1.15 U | 2.1 | 3.58 | SMRD-33A-GW033111 | Na-22 | Filtered | -0.15 U | 0.49 | 1.7 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-33A | RD-33A_011911_01 | Na-22 | Particulate | 1.13 U | 1.7 | 2.84 | SMRD-33A-GW033111 | Na-22 | Suspended | -0.07 U | 0.23 | 0.79 |
| RD-33A | RD-33A_011911_01 | Sr-90 | Dissolved | -0.183 U | 0.43 | 0.767 | SMRD-33A-GW033111 | Sr-90 | Filtered | -0.023 U | 0.04 | 0.14 |
| RD-33A | RD-33A_011911_01 | Sr-90 | Particulate | 0.038 U | 0.32 | 0.598 | SMRD-33A-GW033111 | Sr-90 | Suspended | 0.001 U | 0.018 | 0.063 |
| RD-33A | RD-33A_011911_01 | H-3 | Total | 42.4 U | 190 | 319 | SMRD-33A-GW033111 | H-3 | Total | -9 U | 42 | 140 |
| RD-33A | RD-33A_011911_01 | U-233/234 | Dissolved | 1.64 | 0.24 | 0.092 | SMRD-33A-GW033111 | U-233/234 | Filtered | 1.92 | 0.1 | 0.01 |
| RD-33A | RD-33A_011911_01 | U-233/234 | Particulate | 0.023 U | 0.031 | 0.074 | SMRD-33A-GW033111 | U-233/234 | Suspended | 0.0083 | 0.0063 | 0.0057 |
| RD-33A | RD-33A_011911_01 | U-235/236 | Dissolved | 0.01 U | 0.02 | 0.077 | SMRD-33A-GW033111 | U-235/236 | Filtered | 0.071 | 0.013 | 0.006 |
| RD-33A | RD-33A_011911_01 | U-235/236 | Particulate | 0.009 U | 0.019 | 0.071 | SMRD-33A-GW033111 | U-235/236 | Suspended | -0.0021 U | 0.0021 | 0.017 |
| RD-33A | RD-33A_011911_01 | U-238 | Dissolved | 1.07 | 0.19 | 0.064 | SMRD-33A-GW033111 | U-238 | Filtered | 1.17 | 0.068 | 0.005 |
| RD-33A | RD-33A_011911_01 | U-238 | Particulate | 0 U | 0.015 | 0.059 | SMRD-33A-GW033111 | U-238 | Suspended | 0.0052 K | 0.0058 | 0.014 |
| RD-33B | RD-33B_011311_01 | Sb-125 | Dissolved | 2.03 U | 5.4 | 9.25 | SMRD-33B-GW032211 | Sb-125 | Filtered | 0.67 U | 0.98 | 3.3 |
| RD-33B | RD-33B_011311_01 | Sb-125 | Particulate | -0.445 U | 2.8 | 5.04 | SMRD-33B-GW032211 | Sb-125 | Suspended | 0.36 U | 0.41 | 1.4 |
| RD-33B | RD-33B_011311_01 | Cs-134 | Dissolved | 1.32 U | 3.7 | 6.37 | SMRD-33B-GW032211 | Cs-134 | Filtered | 0.38 U | 0.27 | 1.3 |
| RD-33B | RD-33B_011311_01 | Cs-134 | Particulate | -0.769 U | 1.9 | 3.38 | SMRD-33B-GW032211 | Cs-134 | Suspended | 0.23 U | 0.17 | 0.62 |
| RD-33B | RD-33B_011311_01 | Cs-137 | Dissolved | -0.883 U | 2.9 | 5.15 | SMRD-33B-GW032211 | Cs-137 | Filtered | 0.12 U | 0.3 | 1 |
| RD-33B | RD-33B_011311_01 | Cs-137 | Particulate | -0.276 U | 1.4 | 2.55 | SMRD-33B-GW032211 | Cs-137 | Suspended | -0.06 U | 0.17 | 0.58 |
| RD-33B | RD-33B_011311_01 | Co-60 | Dissolved | -1.15 U | 2.1 | 3.95 | SMRD-33B-GW032211 | Co-60 | Filtered | -0.13 U | 0.4 | 1.4 |
| RD-33B | RD-33B_011311_01 | Co-60 | Particulate | -0.512 U | 1.4 | 2.69 | SMRD-33B-GW032211 | Co-60 | Suspended | 0.08 U | 0.17 | 0.59 |
| RD-33B | RD-33B_011311_01 | Eu-152 | Dissolved | -2.63 U | 7.7 | 13.5 | SMRD-33B-GW032211 | Eu-152 | Filtered | -0.32 U | 0.9 | 3.1 |
| RD-33B | RD-33B_011311_01 | Eu-152 | Particulate | -0.582 U | 4.1 | 7.13 | SMRD-33B-GW032211 | Eu-152 | Suspended | 0.31 U | 0.33 | 1.1 |
| RD-33B | RD-33B_011311_01 | Eu-154 | Dissolved | 2.2 U | 8.5 | 14.8 | SMRD-33B-GW032211 | Eu-154 | Filtered | 0.46 U | 0.65 | 6.6 |
| RD-33B | RD-33B_011311_01 | Eu-154 | Particulate | 0.117 U | 4.2 | 7.6 | SMRD-33B-GW032211 | Eu-154 | Suspended | 0.013 U | 0.068 | 3.2 |
| RD-33B | RD-33B_011311_01 | Eu-155 | Dissolved | -4.49 U | 8.6 | 14.8 | SMRD-33B-GW032211 | Eu-155 | Filtered | -0.86 U | 0.98 | 3.3 |
| RD-33B | RD-33B_011311_01 | Eu-155 | Particulate | 1.46 U | 4.3 | 7.26 | SMRD-33B-GW032211 | Eu-155 | Suspended | 0.28 U | 0.3 | 0.99 |
| RD-33B | RD-33B_011311_01 | gross_alpha | Dissolved | 1.33 U | 0.97 | 1.66 | SMRD-33B-GW032211 | gross_alpha | Filtered | 2.19 | 0.31 | 0.54 |
| RD-33B | RD-33B_011311_01 | gross_alpha | Particulate | 0.564 U | 0.51 | 0.757 | SMRD-33B-GW032211 | gross_alpha | Suspended | 0.23 U | 0.14 | 0.47 |
| RD-33B | RD-33B_011311_01 | gross_beta | Dissolved | 5.18 | 1.2 | 1.77 | SMRD-33B-GW032211 | gross_beta | Filtered | 6.27 | 0.997 | 2.5 |
| RD-33B | RD-33B_011311_01 | gross_beta | Particulate | 0.213 U | 1.1 | 1.88 | SMRD-33B-GW032211 | gross_beta | Suspended | 1.22 | 0.28 | 0.77 |
| RD-33B | RD-33B_011311_01 | K-40 | Dissolved | 14.4 U | 44 | 76.3 | SMRD-33B-GW032211 | K-40 | Filtered | -5.3 U | 8 | 17 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-33B | RD-33B_011311_01 | K-40 | Particulate | -3.21 U | 29 | 50.4 | SMRD-33B-GW032211 | K-40 | Suspended | 1 U | 2.5 | 8 |
| RD-33B | RD-33B_011311_01 | Na-22 | Dissolved | 0.746 U | 2.9 | 5.02 | SMRD-33B-GW032211 | Na-22 | Filtered | 0.09 U | 0.39 | 1.4 |
| RD-33B | RD-33B_011311_01 | Na-22 | Particulate | 0.04 U | 1.4 | 2.57 | SMRD-33B-GW032211 | Na-22 | Suspended | 0.02 U | 0.18 | 0.63 |
| RD-33B | RD-33B_011311_01 | Sr-90 | Dissolved | -0.008 U | 0.35 | 0.663 | SMRD-33B-GW032211 | Sr-90 | Filtered | 0.017 U | 0.03 | 0.1 |
| RD-33B | RD-33B_011311_01 | Sr-90 | Particulate | -0.024 U | 0.34 | 0.668 | SMRD-33B-GW032211 | Sr-90 | Suspended | 0.035 U | 0.02 | 0.067 |
| RD-33B | RD-33B_011311_01 | H-3 | Total | 0 U | 170 | 291 | SMRD-33B-GW032211 | H-3 | Total | 32 U | 41 | 140 |
| RD-33B | RD-33B_011311_01 | U-233/234 | Dissolved | 0.171 J | 0.086 | 0.082 | SMRD-33B-GW032211 | U-233/234 | Filtered | 0.042 | 0.01 | 0.013 |
| RD-33B | RD-33B_011311_01 | U-233/234 | Particulate | 0.026 U | 0.035 | 0.083 | SMRD-33B-GW032211 | U-233/234 | Suspended | 0.0128 | 0.0074 | 0.017 |
| RD-33B | RD-33B_011311_01 | U-235/236 | Dissolved | 0 U | 0.021 | 0.079 | SMRD-33B-GW032211 | U-235/236 | Filtered | 0.0073 | 0.0042 | 0.0066 |
| RD-33B | RD-33B_011311_01 | U-235/236 | Particulate | 0 U | 0.021 | 0.08 | SMRD-33B-GW032211 | U-235/236 | Suspended | 0 U | 0.0018 | 0.006 |
| RD-33B | RD-33B_011311_01 | U-238 | Dissolved | 0.103 J | 0.069 | 0.065 | SMRD-33B-GW032211 | U-238 | Filtered | 0.0111 | 0.0069 | 0.016 |
| RD-33B | RD-33B_011311_01 | U-238 | Particulate | 0 U | 0.017 | 0.066 | SMRD-33B-GW032211 | U-238 | Suspended | 0.0035 U | 0.0044 | 0.0048 |
| RD-33C | RD-33C_012511_01 | Sb-125 | Dissolved | -0.365 U | 2.7 | 4.74 | SMRD-33C-GW032211 | Sb-125 | Filtered | -0.8 U | 4.7 | 16 |
| RD-33C | RD-33C_012511_01 | Sb-125 | Particulate | -0.253 U | 6.2 | 10.6 | SMRD-33C-GW032211 | Sb-125 | Suspended | 1.4 U | 1.6 | 5.4 |
| RD-33C | RD-33C_012511_01 | Cs-134 | Dissolved | 0.156 U | 1.9 | 3.36 | SMRD-33C-GW032211 | Cs-134 | Filtered | -0.55 U | 0.52 | 1.7 |
| RD-33C | RD-33C_012511_01 | Cs-134 | Particulate | 1.16 U | 3.2 | 5.51 | SMRD-33C-GW032211 | Cs-134 | Suspended | -0.09 U | 0.23 | 0.77 |
| RD-33C | RD-33C_012511_01 | Cs-137 | Dissolved | -0.662 U | 1.4 | 2.55 | SMRD-33C-GW032211 | Cs-137 | Filtered | -0.45 U | 0.48 | 1.6 |
| RD-33C | RD-33C_012511_01 | Cs-137 | Particulate | 0.263 U | 2 | 3.54 | SMRD-33C-GW032211 | Cs-137 | Suspended | -0.02 U | 0.18 | 0.62 |
| RD-33C | RD-33C_012511_01 | Co-60 | Dissolved | -0.414 U | 2.5 | 4.44 | SMRD-33C-GW032211 | Co-60 | Filtered | 0.07 U | 0.44 | 1.6 |
| RD-33C | RD-33C_012511_01 | Co-60 | Particulate | 0.469 U | 2.5 | 4.41 | SMRD-33C-GW032211 | Co-60 | Suspended | -0.1 U | 0.19 | 0.68 |
| RD-33C | RD-33C_012511_01 | Eu-152 | Dissolved | 7.94 J | 8.5 | 5.9 | SMRD-33C-GW032211 | Eu-152 | Filtered | 0.4 U | 0.92 | 3.2 |
| RD-33C | RD-33C_012511_01 | Eu-152 | Particulate | 0.667 U | 1.6 | 6.23 | SMRD-33C-GW032211 | Eu-152 | Suspended | -0.08 U | 0.51 | 1.7 |
| RD-33C | RD-33C_012511_01 | Eu-154 | Dissolved | 1.5 U | 4.2 | 7.25 | SMRD-33C-GW032211 | Eu-154 | Filtered | -0.06 U | 3.6 | 13 |
| RD-33C | RD-33C_012511_01 | Eu-154 | Particulate | 1.9 U | 6.1 | 10.6 | SMRD-33C-GW032211 | Eu-154 | Suspended | -2 U | 1.9 | 6.5 |
| RD-33C | RD-33C_012511_01 | Eu-155 | Dissolved | -2.83 U | 4.7 | 8.07 | SMRD-33C-GW032211 | Eu-155 | Filtered | 0.5 U | 1.2 | 4 |
| RD-33C | RD-33C_012511_01 | Eu-155 | Particulate | -3.23 U | 5.2 | 8.93 | SMRD-33C-GW032211 | Eu-155 | Suspended | 0.29 U | 0.34 | 1.1 |
| RD-33C | RD-33C_012511_01 | gross_alpha | Dissolved | 3.54 J | 1.3 | 1.49 | SMRD-33C-GW032211 | gross_alpha | Filtered | 2.02 | 0.29 | 0.38 |
| RD-33C | RD-33C_012511_01 | gross_alpha | Particulate | 0.095 U | 0.31 | 0.565 | SMRD-33C-GW032211 | gross_alpha | Suspended | 0.35 | 0.14 | 0.38 |
| RD-33C | RD-33C_012511_01 | gross_beta | Dissolved | 6.38 J | 1.2 | 1.72 | SMRD-33C-GW032211 | gross_beta | Filtered | 4.23 | 0.83 | 2.2 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-33C | RD-33C_012511_01 | gross_beta | Particulate | 1.3 U | 1.1 | 1.82 | SMRD-33C-GW032211 | gross_beta | Suspended | 0.7 | 0.31 | 0.99 |
| RD-33C | RD-33C_012511_01 | K-40 | Dissolved | 18.8 U | 21 | 34.9 | SMRD-33C-GW032211 | K-40 | Filtered | -3.4 U | 7.4 | 24 |
| RD-33C | RD-33C_012511_01 | K-40 | Particulate | 11.9 U | 23 | 39.4 | SMRD-33C-GW032211 | K-40 | Suspended | 5.8 | 3.6 | 10 |
| RD-33C | RD-33C_012511_01 | Na-22 | Dissolved | 0.508 U | 1.4 | 2.46 | SMRD-33C-GW032211 | Na-22 | Filtered | -0.16 U | 0.43 | 1.5 |
| RD-33C | RD-33C_012511_01 | Na-22 | Particulate | 0.642 U | 2.1 | 3.6 | SMRD-33C-GW032211 | Na-22 | Suspended | 0.07 U | 0.21 | 0.74 |
| RD-33C | RD-33C_012511_01 | Sr-90 | Dissolved | -0.32 U | 0.27 | 0.593 | SMRD-33C-GW032211 | Sr-90 | Filtered | 0.01 U | 0.018 | 0.061 |
| RD-33C | RD-33C_012511_01 | Sr-90 | Particulate | -0.109 U | 0.29 | 0.57 | SMRD-33C-GW032211 | Sr-90 | Suspended | 0.015 U | 0.036 | 0.12 |
| RD-33C | RD-33C_012511_01 | H-3 | | -50.2 U | 170 | 303 | SMRD-33C-GW032211 | H-3 | Total | 47 U | 45 | 150 |
| RD-33C | RD-33C_012511_01 | U-233/234 | Dissolved | 0.188 J | 0.082 | 0.078 | SMRD-33C-GW032211 | U-233/234 | Filtered | 0.209 | 0.022 | 0.005 |
| RD-33C | RD-33C_012511_01 | U-233/234 | Particulate | 0 U | 0.036 | 0.099 | SMRD-33C-GW032211 | U-233/234 | Suspended | -0.0211 LU | 0.0079 | 0.038 |
| RD-33C | RD-33C_012511_01 | U-235/236 | Dissolved | 0.03 U | 0.04 | 0.076 | SMRD-33C-GW032211 | U-235/236 | Filtered | 0.0024 U | 0.0024 | 0.0065 |
| RD-33C | RD-33C_012511_01 | U-235/236 | Particulate | 0 U | 0.022 | 0.083 | SMRD-33C-GW032211 | U-235/236 | Suspended | 0 U | 0.0039 | 0.013 |
| RD-33C | RD-33C_012511_01 | U-238 | Dissolved | 0.065 J | 0.049 | 0.063 | SMRD-33C-GW032211 | U-238 | Filtered | 0.116 | 0.016 | 0.005 |
| RD-33C | RD-33C_012511_01 | U-238 | Particulate | 0.036 U | 0.054 | 0.085 | SMRD-33C-GW032211 | U-238 | Suspended | 0.0052 U | 0.0088 | 0.011 |
| RD-34A | RD-34A_012611_01 | Sb-125 | Dissolved | 1.1 U | 2.9 | 4.93 | SMRD34AGW032311 | Sb-125 | Filtered | -1.7 U | 3.7 | 13 |
| RD-34A | RD-34A_012611_01 | Sb-125 | Particulate | 3.16 U | 6.8 | 11.5 | SMRD34AGW032311 | Sb-125 | Suspended | -0.4 U | 1.7 | 5.7 |
| RD-34A | RD-34A_012611_01 | Cs-134 | Dissolved | -0.693 U | 1.1 | 2.02 | SMRD34AGW032311 | Cs-134 | Filtered | -0.35 U | 0.36 | 1.2 |
| RD-34A | RD-34A_012611_01 | Cs-134 | Particulate | 0.673 U | 2.1 | 3.67 | SMRD34AGW032311 | Cs-134 | Suspended | -0.14 U | 0.23 | 0.78 |
| RD-34A | RD-34A_012611_01 | Cs-137 | Dissolved | 0.507 U | 1.1 | 1.89 | SMRD34AGW032311 | Cs-137 | Filtered | 0.09 U | 0.34 | 1.2 |
| RD-34A | RD-34A_012611_01 | Cs-137 | Particulate | -0.624 U | 2.5 | 4.43 | SMRD34AGW032311 | Cs-137 | Suspended | 0.1 U | 0.21 | 0.72 |
| RD-34A | RD-34A_012611_01 | Co-60 | Dissolved | -0.711 U | 1.1 | 2.09 | SMRD34AGW032311 | Co-60 | Filtered | -0.23 U | 0.37 | 1.3 |
| RD-34A | RD-34A_012611_01 | Co-60 | Particulate | -0.461 U | 1.7 | 3.18 | SMRD34AGW032311 | Co-60 | Suspended | 0 U | 0.28 | 1 |
| RD-34A | RD-34A_012611_01 | Eu-152 | Dissolved | 0.81 U | 1.3 | 3.99 | SMRD34AGW032311 | Eu-152 | Filtered | -0.9 U | 0.74 | 2.5 |
| RD-34A | RD-34A_012611_01 | Eu-152 | Particulate | -1.01 U | 6.6 | 11.5 | SMRD34AGW032311 | Eu-152 | Suspended | 0.03 U | 0.48 | 1.7 |
| RD-34A | RD-34A_012611_01 | Eu-154 | Dissolved | 0.63 U | 2.6 | 4.63 | SMRD34AGW032311 | Eu-154 | Filtered | -0.3 U | 2.7 | 9.4 |
| RD-34A | RD-34A_012611_01 | Eu-154 | Particulate | -2.8 U | 5.6 | 10.8 | SMRD34AGW032311 | Eu-154 | Suspended | 0.002 U | 1.5 | 5.3 |
| RD-34A | RD-34A_012611_01 | Eu-155 | Dissolved | 2.6 U | 5 | 8.54 | SMRD34AGW032311 | Eu-155 | Filtered | -0.36 U | 0.92 | 3.1 |
| RD-34A | RD-34A_012611_01 | Eu-155 | Particulate | -1.45 U | 5.8 | 10.1 | SMRD34AGW032311 | Eu-155 | Suspended | 0.31 U | 0.44 | 1.5 |
| RD-34A | RD-34A_012611_01 | gross_alpha | Dissolved | 13.3 | 3.3 | 3.08 | SMRD34AGW032311 | gross_alpha | Filtered | 20.2 J | 1.4 | 0.4 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|-------|------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-34A | RD-34A_012611_01 | gross_alpha | Particulate | 20 | 2.4 | 1.1 | SMRD34AGW032311 | gross_alpha | Suspended | 0.64 | 0.19 | 0.46 |
| RD-34A | RD-34A_012611_01 | gross_beta | Dissolved | 8.48 | 2.3 | 3.26 | SMRD34AGW032311 | gross_beta | Filtered | 1.34 | 0.31 | 0.87 |
| RD-34A | RD-34A_012611_01 | gross_beta | Particulate | 20 | 2.6 | 3.19 | SMRD34AGW032311 | gross_beta | Suspended | 14.6 | 1.1 | 1.4 |
| RD-34A | RD-34A_012611_01 | K-40 | Dissolved | 12.5 U | 15 | 24.8 | SMRD34AGW032311 | K-40 | Filtered | 12.9 | 5 | 16 |
| RD-34A | RD-34A_012611_01 | K-40 | Particulate | -7 U | 41 | 72.4 | SMRD34AGW032311 | K-40 | Suspended | 2 U | 2.5 | 10 |
| RD-34A | RD-34A_012611_01 | Na-22 | Dissolved | 0.214 U | 0.88 | 1.57 | SMRD34AGW032311 | Na-22 | Filtered | -0.13 U | 0.35 | 1.2 |
| RD-34A | RD-34A_012611_01 | Na-22 | Particulate | -0.948 U | 1.9 | 3.66 | SMRD34AGW032311 | Na-22 | Suspended | -0.15 U | 0.26 | 0.91 |
| RD-34A | RD-34A_012611_01 | Sr-90 | Dissolved | -0.084 U | 0.16 | 0.286 | SMRD34AGW032311 | Sr-90 | Filtered | 0.163 | 0.036 | 0.11 |
| RD-34A | RD-34A_012611_01 | Sr-90 | Particulate | -0.091 U | 0.17 | 0.305 | SMRD34AGW032311 | Sr-90 | Suspended | 0 U | 0.02 | 0.08 |
| RD-34A | RD-34A_012611_01 | H-3 | Total | 793 | 210 | 295 | SMRD34AGW032311 | H-3_Total | Total | 342 | 36 | 89 |
| RD-34A | RD-34A_012611_01 | U-233/234 | Dissolved | 8.49 | 0.47 | 0.078 | SMRD34AGW032311 | U-233/234 | Filtered | 10.4 | 0.47 | 0.02 |
| RD-34A | RD-34A_012611_01 | U-233/234 | Particulate | 0.088 J | 0.042 | 0.046 | SMRD34AGW032311 | U-233/234 | Suspended | 0.09 | 0.03 | 0.04 |
| RD-34A | RD-34A_012611_01 | U-235/236 | Dissolved | 0.464 J | 0.1 | 0.038 | SMRD34AGW032311 | U-235/236 | Filtered | 0.52 | 0.05 | 0.01 |
| RD-34A | RD-34A_012611_01 | U-235/236 | Particulate | 0.005 U | 0.01 | 0.039 | SMRD34AGW032311 | U-235/236 | Suspended | 0 U | 0 | 0.05 |
| RD-34A | RD-34A_012611_01 | U-238 | Dissolved | 9.05 | 0.48 | 0.072 | SMRD34AGW032311 | U-238 | Filtered | 11 | 0.49 | 0.01 |
| RD-34A | RD-34A_012611_01 | U-238 | Particulate | 0.138 J | 0.05 | 0.032 | SMRD34AGW032311 | U-238 | Suspended | 0.09 | 0.03 | 0.04 |
| RD-34B | RD-34B_012511_01 | Sb-125 | Dissolved | 0.565 U | 6.6 | 11.4 | SMRD-34B-GW031811 | Sb-125 | Filtered | 3.1 U | 4.3 | 14 |
| RD-34B | RD-34B_012511_01 | Sb-125 | Particulate | -1.04 U | 4.3 | 7.54 | SMRD-34B-GW031811 | Sb-125 | Suspended | -0.5 U | 1.6 | 5.5 |
| RD-34B | RD-34B_012511_01 | Cs-134 | Dissolved | 1.47 U | 4 | 6.87 | SMRD-34B-GW031811 | Cs-134 | Filtered | 0.21 U | 0.44 | 1.5 |
| RD-34B | RD-34B_012511_01 | Cs-134 | Particulate | -0.227 U | 1.4 | 2.53 | SMRD-34B-GW031811 | Cs-134 | Suspended | -0.33 U | 0.24 | 0.79 |
| RD-34B | RD-34B_012511_01 | Cs-137 | Dissolved | -0.581 U | 2.1 | 3.84 | SMRD-34B-GW031811 | Cs-137 | Filtered | -0.07 U | 0.41 | 1.4 |
| RD-34B | RD-34B_012511_01 | Cs-137 | Particulate | -0.174 U | 2.3 | 3.94 | SMRD-34B-GW031811 | Cs-137 | Suspended | 0 U | 0.25 | 0.85 |
| RD-34B | RD-34B_012511_01 | Co-60 | Dissolved | -0.394 U | 2.1 | 3.9 | SMRD-34B-GW031811 | Co-60 | Filtered | -0.77 U | 0.54 | 1.8 |
| RD-34B | RD-34B_012511_01 | Co-60 | Particulate | 0.128 U | 1.3 | 2.36 | SMRD-34B-GW031811 | Co-60 | Suspended | -0.07 U | 0.18 | 0.63 |
| RD-34B | RD-34B_012511_01 | Eu-152 | Dissolved | -3.45 U | 7.7 | 13.6 | SMRD-34B-GW031811 | Eu-152 | Filtered | 1 U | 1.2 | 4.1 |
| RD-34B | RD-34B_012511_01 | Eu-152 | Particulate | -2.3 U | 2.8 | 6.97 | SMRD-34B-GW031811 | Eu-152 | Suspended | -0.43 U | 0.55 | 1.8 |
| RD-34B | RD-34B_012511_01 | Eu-154 | Dissolved | -0.276 U | 6.4 | 11.7 | SMRD-34B-GW031811 | Eu-154 | Filtered | -0.5 U | 3.6 | 13 |
| RD-34B | RD-34B_012511_01 | Eu-154 | Particulate | -1.56 U | 4.9 | 8.92 | SMRD-34B-GW031811 | Eu-154 | Suspended | -1.1 U | 1.8 | 6.2 |
| RD-34B | RD-34B_012511_01 | Eu-155 | Dissolved | -3.84 U | 8.8 | 15.1 | SMRD-34B-GW031811 | Eu-155 | Filtered | 1.2 U | 1.2 | 4 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|-----------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-34B | RD-34B_012511_01 | Eu-155 | Particulate | -4.08 U | 6.3 | 10.8 | SMRD-34B-GW031811 | Eu-155 | Suspended | 0.3 U | 0.36 | 1.2 |
| RD-34B | RD-34B_012511_01 | gross_alpha | Dissolved | 4.94 | 1.6 | 2.01 | SMRD-34B-GW031811 | gross_alpha | Filtered | 3.49 L | 0.39 | 0.48 |
| RD-34B | RD-34B_012511_01 | gross_alpha | Particulate | 0.456 U | 0.41 | 0.587 | SMRD-34B-GW031811 | gross_alpha | Suspended | 0.18 U | 0.12 | 0.41 |
| RD-34B | RD-34B_012511_01 | gross_beta | Dissolved | 6.04 | 1.2 | 1.64 | SMRD-34B-GW031811 | gross_beta | Filtered | 5.56 | 0.99 | 2.5 |
| RD-34B | RD-34B_012511_01 | gross_beta | Particulate | 0.485 U | 1 | 1.7 | SMRD-34B-GW031811 | gross_beta | Suspended | -1.12 R | 0.29 | 1.2 |
| RD-34B | RD-34B_012511_01 | K-40 | Dissolved | 8.86 U | 43 | 74.7 | SMRD-34B-GW031811 | K-40 | Filtered | -30 U | 130 | 20 |
| RD-34B | RD-34B_012511_01 | K-40 | Particulate | 5.24 U | 20 | 35.3 | SMRD-34B-GW031811 | K-40 | Suspended | -1 U | 4.4 | 13 |
| RD-34B | RD-34B_012511_01 | Na-22 | Dissolved | -0.093 U | 2.2 | 3.96 | SMRD-34B-GW031811 | Na-22 | Filtered | -0.1 U | 0.45 | 1.6 |
| RD-34B | RD-34B_012511_01 | Na-22 | Particulate | -0.53 U | 1.7 | 3.02 | SMRD-34B-GW031811 | Na-22 | Suspended | -0.14 U | 0.21 | 0.71 |
| RD-34B | RD-34B_012511_01 | Sr-90 | Dissolved | -0.066 U | 0.29 | 0.574 | SMRD-34B-GW031811 | Sr-90 | Filtered | -0.114 LU | 0.051 | 0.2 |
| RD-34B | RD-34B_012511_01 | Sr-90 | Particulate | -0.112 U | 0.25 | 0.516 | SMRD-34B-GW031811 | Sr-90 | Suspended | -0.038 U | 0.042 | 0.16 |
| RD-34B | RD-34B_012511_01 | H-3 | Total | 76.9 U | 180 | 300 | SMRD-34B-GW031811 | H-3 | Total | 187 | 50 | 150 |
| RD-34B | RD-34B_012511_01 | U-233/234 | Dissolved | 1.87 | 0.45 | 0.206 | SMRD-34B-GW031811 | U-233/234 | Filtered | 1.23 | 0.072 | 0.014 |
| RD-34B | RD-34B_012511_01 | U-233/234 | Particulate | 0.014 U | 0.028 | 0.067 | SMRD-34B-GW031811 | U-233/234 | Suspended | 0.0156 | 0.007 | 0.012 |
| RD-34B | RD-34B_012511_01 | U-235/236 | Dissolved | 0.104 U | 0.1 | 0.199 | SMRD-34B-GW031811 | U-235/236 | Filtered | 0.044 | 0.011 | 0.017 |
| RD-34B | RD-34B_012511_01 | U-235/236 | Particulate | 0.009 U | 0.017 | 0.065 | SMRD-34B-GW031811 | U-235/236 | Suspended | 0 U | 0.0018 | 0.006 |
| RD-34B | RD-34B_012511_01 | U-238 | Dissolved | 1.59 | 0.4 | 0.206 | SMRD-34B-GW031811 | U-238 | Filtered | 0.987 | 0.061 | 0.014 |
| RD-34B | RD-34B_012511_01 | U-238 | Particulate | 0.007 U | 0.028 | 0.067 | SMRD-34B-GW031811 | U-238 | Suspended | 0.0071 | 0.005 | 0.0048 |
| RD-34C | RD-34C_012411_01 | Sb-125 | Dissolved | -0.482 U | 6.8 | 11.8 | SMRD-34C-GW032211 | Sb-125 | Filtered | -3.3 U | 1.7857143 | 12 |
| RD-34C | RD-34C_012411_01 | Sb-125 | Particulate | 2.89 U | 4.2 | 7.09 | SMRD-34C-GW032211 | Sb-125 | Suspended | 0.07 U | 0.8673469 | 5.6 |
| RD-34C | RD-34C_012411_01 | Cs-134 | Dissolved | 0.86 U | 3.3 | 5.71 | SMRD-34C-GW032211 | Cs-134 | Filtered | -0.28 U | 0.1836735 | 1.2 |
| RD-34C | RD-34C_012411_01 | Cs-134 | Particulate | 0.283 U | 0.97 | 1.71 | SMRD-34C-GW032211 | Cs-134 | Suspended | -0.02 U | 0.0918367 | 0.62 |
| RD-34C | RD-34C_012411_01 | Cs-137 | Dissolved | -0.124 U | 2.5 | 4.47 | SMRD-34C-GW032211 | Cs-137 | Filtered | -0.03 U | 0.1734694 | 1.2 |
| RD-34C | RD-34C_012411_01 | Cs-137 | Particulate | 0.249 U | 1 | 1.75 | SMRD-34C-GW032211 | Cs-137 | Suspended | -0.11 U | 0.1071429 | 0.71 |
| RD-34C | RD-34C_012411_01 | Co-60 | Dissolved | 1.76 U | 2.1 | 3.46 | SMRD-34C-GW032211 | Co-60 | Filtered | -0.12 U | 0.1734694 | 1.2 |
| RD-34C | RD-34C_012411_01 | Co-60 | Particulate | 0.023 U | 1.1 | 2 | SMRD-34C-GW032211 | Co-60 | Suspended | 0.16 U | 0.1071429 | 0.73 |
| RD-34C | RD-34C_012411_01 | Eu-152 | Dissolved | 0.953 U | 8.1 | 14 | SMRD-34C-GW032211 | Eu-152 | Filtered | 0.5 U | 0.4897959 | 3.2 |
| RD-34C | RD-34C_012411_01 | Eu-152 | Particulate | -3.7 U | 4.4 | 7.69 | SMRD-34C-GW032211 | Eu-152 | Suspended | 0.12 U | 0.2602041 | 1.7 |
| RD-34C | RD-34C_012411_01 | Eu-154 | Dissolved | 0.342 U | 4.5 | 8.45 | SMRD-34C-GW032211 | Eu-154 | Filtered | 2.4 U | 1.2244898 | 8.3 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|-----------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-34C | RD-34C_012411_01 | Eu-154 | Particulate | 0.77 U | 2.3 | 4.04 | SMRD-34C-GW032211 | Eu-154 | Suspended | -1.6 U | 0.9183673 | 6 |
| RD-34C | RD-34C_012411_01 | Eu-155 | Dissolved | 2.89 U | 7.9 | 13.5 | SMRD-34C-GW032211 | Eu-155 | Filtered | 0.32 U | 0.4234694 | 2.8 |
| RD-34C | RD-34C_012411_01 | Eu-155 | Particulate | 3.58 U | 3.8 | 6.3 | SMRD-34C-GW032211 | Eu-155 | Suspended | 0.23 U | 0.1938776 | 1.3 |
| RD-34C | RD-34C_012411_01 | gross_alpha | Dissolved | 2.43 J | 1 | 1.2 | SMRD-34C-GW032211 | gross_alpha | Filtered | 1.66 | 0.1377551 | 0.35 |
| RD-34C | RD-34C_012411_01 | gross_alpha | Particulate | 0.056 U | 0.25 | 0.463 | SMRD-34C-GW032211 | gross_alpha | Suspended | 0.24 | 0.0612245 | 0.38 |
| RD-34C | RD-34C_012411_01 | gross_beta | Dissolved | 5.1 | 1 | 1.41 | SMRD-34C-GW032211 | gross_beta | Filtered | 3.88 | 0.372449 | 1.9 |
| RD-34C | RD-34C_012411_01 | gross_beta | Particulate | 0.225 U | 0.9 | 1.5 | SMRD-34C-GW032211 | gross_beta | Suspended | 0.18 U | 0.1326531 | 0.88 |
| RD-34C | RD-34C_012411_01 | K-40 | Dissolved | -14.2 U | 40 | 72.2 | SMRD-34C-GW032211 | K-40 | Filtered | 12.7 | 2.5510204 | 17 |
| RD-34C | RD-34C_012411_01 | K-40 | Particulate | -6.92 U | 16 | 28.4 | SMRD-34C-GW032211 | K-40 | Suspended | 3.3 U | 1.6836735 | 12 |
| RD-34C | RD-34C_012411_01 | Na-22 | Dissolved | 0.116 U | 1.5 | 2.85 | SMRD-34C-GW032211 | Na-22 | Filtered | -0.32 U | 0.1989796 | 1.3 |
| RD-34C | RD-34C_012411_01 | Na-22 | Particulate | 0.26 U | 0.76 | 1.36 | SMRD-34C-GW032211 | Na-22 | Suspended | 0.1 U | 0.1071429 | 0.72 |
| RD-34C | RD-34C_012411_01 | Sr-90 | Dissolved | -0.116 U | 0.27 | 0.558 | SMRD-34C-GW083010 | Sr-90 | Filtered | -0.008 U | 0.025 | 0.18 |
| RD-34C | RD-34C_012411_01 | Sr-90 | Particulate | -0.004 U | 0.29 | 0.551 | SMRD-34C-GW032211 | Sr-90 | Suspended | 0.01 U | 0.0178571 | 0.12 |
| RD-34C | RD-34C_012411_01 | H-3 | Total | -19 U | 180 | 319 | SMRD-34C-GW032211 | H-3 | Total | 132 | 24.489796 | 150 |
| RD-34C | RD-34C_012411_01 | U-233/234 | Dissolved | 0.157 J | 0.079 | 0.087 | SMRD-34C-GW032211 | U-233/234 | Filtered | 0.253 | 0.0132653 | 0.018 |
| RD-34C | RD-34C_012411_01 | U-233/234 | Particulate | -0.007 U | 0.013 | 0.064 | SMRD-34C-GW032211 | U-233/234 | Suspended | -0.0099 U | 0.0046939 | 0.033 |
| RD-34C | RD-34C_012411_01 | U-235/236 | Dissolved | 0.009 U | 0.019 | 0.073 | SMRD-34C-GW032211 | U-235/236 | Filtered | 0.0053 U | 0.0018878 | 0.0071 |
| RD-34C | RD-34C_012411_01 | U-235/236 | Particulate | -0.008 U | 0.016 | 0.061 | SMRD-34C-GW032211 | U-235/236 | Suspended | 0 U | 0.0020408 | 0.013 |
| RD-34C | RD-34C_012411_01 | U-238 | Dissolved | 0.063 J | 0.047 | 0.06 | SMRD-34C-GW032211 | U-238 | Filtered | 0.092 | 0.0076531 | 0.006 |
| RD-34C | RD-34C_012411_01 | U-238 | Particulate | -0.007 U | 0.013 | 0.051 | SMRD-34C-GW032211 | U-238 | Suspended | -0.0065 U | 0.0029082 | 0.011 |
| RD-50 | RD-50_011911_01 | Sb-125 | Dissolved | -0.16 U | 3.5 | 6.08 | SMRD-50-GW033111 | Sb-125 | Filtered | -2 U | 3.9 | 13 |
| RD-50 | RD-50_011911_01 | Sb-125 | Particulate | 1.5 U | 4.2 | 7.29 | SMRD-50-GW033111 | Sb-125 | Suspended | -1.1 U | 1.7 | 5.6 |
| RD-50 | RD-50_011911_01 | Cs-134 | Dissolved | -0.466 U | 2.1 | 3.7 | SMRD-50-GW033111 | Cs-134 | Filtered | 0.14 U | 0.36 | 1.2 |
| RD-50 | RD-50_011911_01 | Cs-134 | Particulate | -1.11 U | 2.6 | 4.55 | SMRD-50-GW033111 | Cs-134 | Suspended | 0.08 U | 0.17 | 0.6 |
| RD-50 | RD-50_011911_01 | Cs-137 | Dissolved | -0.557 U | 1.6 | 2.76 | SMRD-50-GW033111 | Cs-137 | Filtered | 0.39 U | 0.29 | 0.95 |
| RD-50 | RD-50_011911_01 | Cs-137 | Particulate | 2.41 U | 2.6 | 4.28 | SMRD-50-GW033111 | Cs-137 | Suspended | 0.33 | 0.21 | 0.69 |
| RD-50 | RD-50_011911_01 | Co-60 | Dissolved | 1.2 U | 1.6 | 2.73 | SMRD-50-GW033111 | Co-60 | Filtered | 0.11 U | 0.36 | 1.2 |
| RD-50 | RD-50_011911_01 | Co-60 | Particulate | -1.68 U | 3 | 5.42 | SMRD-50-GW033111 | Co-60 | Suspended | -0.05 U | 0.22 | 0.77 |
| RD-50 | RD-50_011911_01 | Eu-152 | Dissolved | -6.1 U | 16 | 27.4 | SMRD-50-GW033111 | Eu-152 | Filtered | 0.02 U | 0.85 | 2.9 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-50 | RD-50_011911_01 | Eu-152 | Particulate | 0.727 U | 1.1 | 6.52 | SMRD-50-GW033111 | Eu-152 | Suspended | -0.45 U | 0.56 | 1.9 |
| RD-50 | RD-50_011911_01 | Eu-154 | Dissolved | -0.529 U | 4.8 | 8.54 | SMRD-50-GW033111 | Eu-154 | Filtered | 1.4 U | 2.5 | 8.7 |
| RD-50 | RD-50_011911_01 | Eu-154 | Particulate | -2.76 U | 6 | 11 | SMRD-50-GW033111 | Eu-154 | Suspended | 0.8 U | 1.8 | 6.2 |
| RD-50 | RD-50_011911_01 | Eu-155 | Dissolved | -1.53 U | 5.5 | 9.46 | SMRD-50-GW033111 | Eu-155 | Filtered | 0.8 U | 0.95 | 3.2 |
| RD-50 | RD-50_011911_01 | Eu-155 | Particulate | -1.01 U | 4.9 | 8.48 | SMRD-50-GW033111 | Eu-155 | Suspended | 0.03 U | 0.36 | 1.2 |
| RD-50 | RD-50_011911_01 | gross_alpha | Dissolved | 5.11 | 0.7 | 0.509 | SMRD-50-GW040111 | gross_alpha | Filtered | 21.4 | 1.2 | 0.7 |
| RD-50 | RD-50_011911_01 | gross_alpha | Particulate | 0.014 U | 0.22 | 0.403 | SMRD-50-GW040111 | gross_alpha | Suspended | -0.14 U | 0.23 | 0.95 |
| RD-50 | RD-50_011911_01 | gross_beta | Dissolved | 7.31 | 0.93 | 1.13 | SMRD-50-GW040111 | gross_beta | Filtered | 6.3 | 1.1 | 2.9 |
| RD-50 | RD-50_011911_01 | gross_beta | Particulate | 0.436 U | 0.72 | 1.18 | SMRD-50-GW040111 | gross_beta | Suspended | 0.18 U | 0.24 | 0.8 |
| RD-50 | RD-50_011911_01 | K-40 | Dissolved | -9.55 U | 25 | 43.7 | SMRD-50-GW033111 | K-40 | Filtered | -3.9 U | 6.5 | 18 |
| RD-50 | RD-50_011911_01 | K-40 | Particulate | -0.243 U | 24 | 41.7 | SMRD-50-GW033111 | K-40 | Suspended | 2.9 U | 2.9 | 9.9 |
| RD-50 | RD-50_011911_01 | Na-22 | Dissolved | -0.179 U | 1.6 | 2.89 | SMRD-50-GW033111 | Na-22 | Filtered | 0.27 U | 0.32 | 1.1 |
| RD-50 | RD-50_011911_01 | Na-22 | Particulate | -0.936 U | 2 | 3.71 | SMRD-50-GW033111 | Na-22 | Suspended | 0.12 U | 0.22 | 0.75 |
| RD-50 | RD-50_011911_01 | Sr-90 | Dissolved | 0.18 U | 0.29 | 0.538 | SMRD-50-GW033111 | Sr-90 | Filtered | 0.064 U | 0.039 | 0.13 |
| RD-50 | RD-50_011911_01 | Sr-90 | Particulate | -0.02 U | 0.3 | 0.581 | SMRD-50-GW033111 | Sr-90 | Suspended | 0.019 U | 0.016 | 0.054 |
| RD-50 | RD-50_011911_01 | H-3 | Total | 87.1 U | 190 | 328 | SMRD-50-GW040111 | H-3 | Total | 46 U | 40 | 130 |
| RD-50 | RD-50_011911_01 | U-233/234 | Dissolved | 12.7 | 0.74 | 0.108 | SMRD-50-GW033111 | U-233/234 | Filtered | 12.1 | 0.53 | 0.02 |
| RD-50 | RD-50_011911_01 | U-233/234 | Particulate | 0.02 U | 0.027 | 0.065 | SMRD-50-GW033111 | U-233/234 | Suspended | -0.0021 U | 0.0048 | 0.014 |
| RD-50 | RD-50_011911_01 | U-235/236 | Dissolved | 0.607 J | 0.13 | 0.054 | SMRD-50-GW033111 | U-235/236 | Filtered | 0.489 | 0.041 | 0.007 |
| RD-50 | RD-50_011911_01 | U-235/236 | Particulate | 0 U | 0.017 | 0.063 | SMRD-50-GW033111 | U-235/236 | Suspended | 0.0051 U | 0.0036 | 0.0069 |
| RD-50 | RD-50_011911_01 | U-238 | Dissolved | 10 | 0.63 | 0.103 | SMRD-50-GW033111 | U-238 | Filtered | 9.32 | 0.42 | 0.006 |
| RD-50 | RD-50_011911_01 | U-238 | Particulate | 0.027 U | 0.027 | 0.052 | SMRD-50-GW033111 | U-238 | Suspended | 0.0084 K | 0.0058 | 0.0055 |
| RD-57 | RD-57_011911_01 | Sb-125 | Dissolved | -4.38 U | 4.9 | 8.64 | SMRD-57-GW033111 | Sb-125 | Filtered | -1.6 U | 4 | 13 |
| RD-57 | RD-57_011911_01 | Sb-125 | Particulate | 0.458 U | 4.2 | 7.34 | SMRD-57-GW033111 | Sb-125 | Suspended | 0.08 U | 1.6 | 5.5 |
| RD-57 | RD-57_011911_01 | Cs-134 | Dissolved | 0.497 U | 1.9 | 3.33 | SMRD-57-GW033111 | Cs-134 | Filtered | -0.44 U | 0.41 | 1.4 |
| RD-57 | RD-57_011911_01 | Cs-134 | Particulate | 0.693 U | 1.8 | 3.16 | SMRD-57-GW033111 | Cs-134 | Suspended | -0.22 U | 0.25 | 0.85 |
| RD-57 | RD-57_011911_01 | Cs-137 | Dissolved | 0.635 U | 1.4 | 2.37 | SMRD-57-GW033111 | Cs-137 | Filtered | -0.15 U | 0.32 | 1.1 |
| RD-57 | RD-57_011911_01 | Cs-137 | Particulate | -0.58 U | 2 | 3.5 | SMRD-57-GW033111 | Cs-137 | Suspended | -0.14 U | 0.22 | 0.75 |
| RD-57 | RD-57_011911_01 | Co-60 | Dissolved | 0.91 U | 1.4 | 2.31 | SMRD-57-GW033111 | Co-60 | Filtered | 0.23 U | 0.39 | 1.4 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-57 | RD-57_011911_01 | Co-60 | Particulate | -0.415 U | 1.3 | 2.45 | SMRD-57-GW033111 | Co-60 | Suspended | 0.12 U | 0.22 | 0.77 |
| RD-57 | RD-57_011911_01 | Eu-152 | Dissolved | -2.86 U | 6.1 | 10.6 | SMRD-57-GW033111 | Eu-152 | Filtered | -0.5 U | 1 | 3.4 |
| RD-57 | RD-57_011911_01 | Eu-152 | Particulate | -5.52 U | 6.8 | 11.9 | SMRD-57-GW033111 | Eu-152 | Suspended | -0.05 U | 0.57 | 2 |
| RD-57 | RD-57_011911_01 | Eu-154 | Dissolved | 1.39 U | 4.2 | 7.31 | SMRD-57-GW033111 | Eu-154 | Filtered | 2 U | 2.8 | 9.6 |
| RD-57 | RD-57_011911_01 | Eu-154 | Particulate | -1.6 U | 5.4 | 9.81 | SMRD-57-GW033111 | Eu-154 | Suspended | 1.7 U | 1.6 | 5.2 |
| RD-57 | RD-57_011911_01 | Eu-155 | Dissolved | -1.14 U | 4.9 | 8.37 | SMRD-57-GW033111 | Eu-155 | Filtered | 0.95 U | 0.97 | 3.2 |
| RD-57 | RD-57_011911_01 | Eu-155 | Particulate | -0.945 U | 4.7 | 8.12 | SMRD-57-GW033111 | Eu-155 | Suspended | 0.38 U | 0.42 | 1.4 |
| RD-57 | RD-57_011911_01 | gross_alpha | Dissolved | 5.08 | 1.5 | 1.52 | SMRD-57-GW040111 | gross_alpha | Filtered | 6.26 | 0.51 | 0.48 |
| RD-57 | RD-57_011911_01 | gross_alpha | Particulate | -0.166 U | 0.27 | 0.535 | SMRD-57-GW040111 | gross_alpha | Suspended | 0.02 U | 0.14 | 0.54 |
| RD-57 | RD-57_011911_01 | gross_beta | Dissolved | 4.29 | 0.94 | 1.33 | SMRD-57-GW033111 | gross_beta | Filtered | 4.24 | 0.87 | 2.3 |
| RD-57 | RD-57_011911_01 | gross_beta | Particulate | -0.506 U | 0.71 | 1.21 | SMRD-57-GW033111 | gross_beta | Suspended | 0.67 | 0.27 | 0.84 |
| RD-57 | RD-57_011911_01 | K-40 | Dissolved | -13.9 U | 24 | 42.7 | SMRD-57-GW033111 | K-40 | Filtered | -4.9 U | 7.1 | 18 |
| RD-57 | RD-57_011911_01 | K-40 | Particulate | -5.1 U | 15 | 27.7 | SMRD-57-GW033111 | K-40 | Suspended | 4.9 | 2.7 | 10 |
| RD-57 | RD-57_011911_01 | Na-22 | Dissolved | 0.472 U | 1.4 | 2.48 | SMRD-57-GW033111 | Na-22 | Filtered | -0.07 U | 0.38 | 1.3 |
| RD-57 | RD-57_011911_01 | Na-22 | Particulate | -0.54 U | 1.8 | 3.32 | SMRD-57-GW033111 | Na-22 | Suspended | 0.03 U | 0.24 | 0.85 |
| RD-57 | RD-57_011911_01 | Sr-90 | Dissolved | -0.063 U | 0.39 | 0.7 | SMRD-57-GW040111 | Sr-90 | Suspended | -0.077 U | 0.061 | 0.22 |
| RD-57 | RD-57_011911_01 | Sr-90 | Particulate | 0.097 U | 0.35 | 0.644 | SMRD-57-GW040111 | Sr-90 | Filtered | -0.019 U | 0.061 | 0.21 |
| RD-57 | RD-57_011911_01 | H-3 | Total | 181 U | 200 | 321 | SMRD-57-GW040111 | H-3 | Total | 47 U | 36 | 120 |
| RD-57 | RD-57_011911_01 | U-233/234 | Dissolved | 3.35 | 0.32 | 0.077 | SMRD-57-GW033111 | U-233/234 | Filtered | 4.46 | 0.21 | 0.01 |
| RD-57 | RD-57_011911_01 | U-233/234 | Particulate | 0.007 U | 0.027 | 0.065 | SMRD-57-GW033111 | U-233/234 | Suspended | 0.0046 | 0.0054 | 0.0051 |
| RD-57 | RD-57_011911_01 | U-235/236 | Dissolved | 0.106 J | 0.061 | 0.058 | SMRD-57-GW033111 | U-235/236 | Filtered | 0.133 | 0.019 | 0.007 |
| RD-57 | RD-57_011911_01 | U-235/236 | Particulate | -0.008 U | 0.016 | 0.063 | SMRD-57-GW033111 | U-235/236 | Suspended | 0.0024 U | 0.0024 | 0.0064 |
| RD-57 | RD-57_011911_01 | U-238 | Dissolved | 2.46 | 0.27 | 0.06 | SMRD-57-GW033111 | U-238 | Filtered | 3.55 | 0.17 | 0.01 |
| RD-57 | RD-57_011911_01 | U-238 | Particulate | -0.007 U | 0.014 | 0.052 | SMRD-57-GW033111 | U-238 | Suspended | -0.0041 U | 0.0027 | 0.0051 |
| RD-59A | RD-59A_011211_01 | Sb-125 | Dissolved | 0.401 U | 2.2 | 3.83 | SORD-59A-GW041811 | Sb-125 | Filtered | -1.6 U | 15 | 4.5 |
| RD-59A | RD-59A_011211_01 | Sb-125 | Particulate | -2.34 U | 5.4 | 9.47 | SORD-59A-GW041811 | Sb-125 | Suspended | -2 U | 5.9 | 1.8 |
| RD-59A | RD-59A_011211_01 | Cs-134 | Dissolved | -0.09 U | 1 | 1.86 | SORD-59A-GW041811 | Cs-134 | Filtered | 0.13 U | 0.46 | 1.6 |
| RD-59A | RD-59A_011211_01 | Cs-134 | Particulate | -0.696 U | 2.3 | 4.04 | SORD-59A-GW041811 | Cs-134 | Suspended | -0.24 U | 0.24 | 0.82 |
| RD-59A | RD-59A_011211_01 | Cs-137 | Dissolved | 0.196 U | 1.2 | 2.09 | SORD-59A-GW041811 | Cs-137 | Filtered | -0.4 U | 0.46 | 1.6 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-59A | RD-59A_011211_01 | Cs-137 | Particulate | -0.055 U | 2.3 | 3.89 | SORD-59A-GW041811 | Cs-137 | Suspended | -0.004 U | 0.22 | 0.77 |
| RD-59A | RD-59A_011211_01 | Co-60 | Dissolved | -0.473 U | 1.2 | 2.24 | SORD-59A-GW041811 | Co-60 | Filtered | -0.03 U | 0.48 | 1.7 |
| RD-59A | RD-59A_011211_01 | Co-60 | Particulate | 0.67 U | 1.8 | 3.14 | SORD-59A-GW041811 | Co-60 | Suspended | 0.1 U | 0.21 | 0.72 |
| RD-59A | RD-59A_011211_01 | Eu-152 | Dissolved | 0.338 U | 5.2 | 8.94 | SORD-59A-GW041811 | Eu-152 | Filtered | 0.6 U | 1.2 | 4 |
| RD-59A | RD-59A_011211_01 | Eu-152 | Particulate | -15 U | 19 | 32.8 | SORD-59A-GW041811 | Eu-152 | Suspended | -0.04 U | 0.56 | 1.9 |
| RD-59A | RD-59A_011211_01 | Eu-154 | Dissolved | 1.48 U | 3.1 | 5.4 | SORD-59A-GW041811 | Eu-154 | Filtered | -0.09 U | 3.6 | 13 |
| RD-59A | RD-59A_011211_01 | Eu-154 | Particulate | -2.93 U | 4.7 | 8.64 | SORD-59A-GW041811 | Eu-154 | Suspended | -0.002 U | 1.5 | 5.3 |
| RD-59A | RD-59A_011211_01 | Eu-155 | Dissolved | -1.41 U | 3.5 | 6.13 | SORD-59A-GW041811 | Eu-155 | Filtered | -0.05 U | 1.1 | 3.7 |
| RD-59A | RD-59A_011211_01 | Eu-155 | Particulate | 2.43 U | 6.4 | 10.8 | SORD-59A-GW041811 | Eu-155 | Suspended | -0.28 U | 0.39 | 1.3 |
| RD-59A | RD-59A_011211_01 | gross_alpha | Dissolved | 0.801 U | 1.2 | 2.26 | SORD-59A-GW041811 | gross_alpha | Filtered | 4.01 | 0.52 | 0.82 |
| RD-59A | RD-59A_011211_01 | gross_alpha | Particulate | 1.56 J | 0.78 | 1.02 | SORD-59A-GW041811 | gross_alpha | Suspended | 1.4 | 0.26 | 0.54 |
| RD-59A | RD-59A_011211_01 | gross_beta | Dissolved | 3.78 J | 1.6 | 2.54 | SORD-59A-GW041811 | gross_beta | Filtered | 2.95 | 0.7 | 2 |
| RD-59A | RD-59A_011211_01 | gross_beta | Particulate | 0.2 U | 1.9 | 3.06 | SORD-59A-GW041811 | gross_beta | Suspended | 0.84 | 0.31 | 0.96 |
| RD-59A | RD-59A_011211_01 | K-40 | Dissolved | 12.2 U | 18 | 30.4 | SORD-59A-GW041811 | K-40 | Filtered | 13.6 U | 7.5 | 22 |
| RD-59A | RD-59A_011211_01 | K-40 | Particulate | 14.1 U | 26 | 44.5 | SORD-59A-GW041811 | K-40 | Suspended | 4.4 | 3.6 | 10 |
| RD-59A | RD-59A_011211_01 | Na-22 | Dissolved | 0.5 U | 1 | 1.82 | SORD-59A-GW041811 | Na-22 | Filtered | 0.1 U | 0.34 | 1.3 |
| RD-59A | RD-59A_011211_01 | Na-22 | Particulate | -0.989 U | 1.6 | 2.92 | SORD-59A-GW041811 | Na-22 | Suspended | 0.006 U | 0.22 | 0.79 |
| RD-59A | RD-59A_011211_01 | Sr-90 | Dissolved | -0.045 U | 0.22 | 0.426 | SORD-59A-GW041811 | Sr-90 | Filtered | 0.005 U | 0.025 | 0.085 |
| RD-59A | RD-59A_011211_01 | Sr-90 | Particulate | 0.091 U | 0.32 | 0.612 | SORD-59A-GW041811 | Sr-90 | Suspended | -0.002 U | 0.019 | 0.065 |
| RD-59A | RD-59A_011211_01 | H-3 | Total | -201 U | 180 | 330 | SORD-59A-GW041811 | H-3 | Total | 110 | 46 | 150 |
| RD-59A | RD-59A_011211_01 | U-233/234 | Dissolved | 0.674 J | 0.11 | 0.052 | SORD-59A-GW041811 | U-233/234 | Filtered | 0.922 U | 0.06 | 0.018 |
| RD-59A | RD-59A_011211_01 | U-233/234 | Particulate | -0.01 U | 0.013 | 0.043 | SORD-59A-GW041811 | U-233/234 | Suspended | -0.0034 U | 0.0059 | 0.02 |
| RD-59A | RD-59A_011211_01 | U-235/236 | Dissolved | 0.021 U | 0.031 | 0.049 | SORD-59A-GW041811 | U-235/236 | Filtered | 0.0355 U | 0.01 | 0.0074 |
| RD-59A | RD-59A_011211_01 | U-235/236 | Particulate | -0.008 U | 0.008 | 0.038 | SORD-59A-GW041811 | U-235/236 | Suspended | 0.0052 | 0.0037 | 0.0071 |
| RD-59A | RD-59A_011211_01 | U-238 | Dissolved | 0.517 J | 0.095 | 0.032 | SORD-59A-GW041811 | U-238 | Filtered | 0.607 | 0.045 | 0.015 |
| RD-59A | RD-59A_011211_01 | U-238 | Particulate | 0 U | 0.013 | 0.031 | SORD-59A-GW041811 | U-238 | Suspended | 0.0107 | 0.0063 | 0.0057 |
| RD-59B | RD-59B_011211_01 | Sb-125 | Dissolved | 3.56 U | 4.9 | 8.26 | SORD-59B-GW041811 | Sb-125 | Filtered | -0.2 U | 3.7 | 12 |
| RD-59B | RD-59B_011211_01 | Sb-125 | Particulate | -0.305 U | 3.6 | 6.32 | SORD-59B-GW041811 | Sb-125 | Suspended | -0.1 U | 1.1 | 3.8 |
| RD-59B | RD-59B_011211_01 | Co-60 | Dissolved | 1.41 U | 1.9 | 3.3 | SORD-59B-GW041811 | Co-60 | Filtered | 0 U | 0.55 | 1.9 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-59B | RD-59B_011211_01 | Co-60 | Particulate | -0.26 U | 2.2 | 3.8 | SORD-59B-GW041811 | Co-60 | Suspended | 0.16 U | 0.18 | 0.63 |
| RD-59B | RD-59B_011211_01 | Cs-134 | Dissolved | 0.761 U | 2 | 3.54 | SORD-59B-GW041811 | Cs-134 | Filtered | 0.39 U | 0.35 | 1.2 |
| RD-59B | RD-59B_011211_01 | Cs-134 | Particulate | 0.098 U | 2.5 | 4.25 | SORD-59B-GW041811 | Cs-134 | Suspended | 0.17 U | 0.18 | 0.61 |
| RD-59B | RD-59B_011211_01 | Cs-137 | Dissolved | -0.067 U | 1.5 | 2.79 | SORD-59B-GW041811 | Cs-137 | Filtered | -0.12 U | 0.36 | 1.2 |
| RD-59B | RD-59B_011211_01 | Cs-137 | Particulate | -0.251 U | 2 | 3.62 | SORD-59B-GW041811 | Cs-137 | Suspended | 0.34 | 0.22 | 0.72 |
| RD-59B | RD-59B_011211_01 | Eu-152 | Dissolved | -0.117 U | 8.6 | 14.9 | SORD-59B-GW041811 | Eu-152 | Filtered | 0.82 U | 0.96 | 3.2 |
| RD-59B | RD-59B_011211_01 | Eu-152 | Particulate | 0.381 U | 5.1 | 8.88 | SORD-59B-GW041811 | Eu-152 | Suspended | -0.02 U | 0.35 | 1.2 |
| RD-59B | RD-59B_011211_01 | Eu-154 | Dissolved | 0.682 U | 4.6 | 8.47 | SORD-59B-GW041811 | Eu-154 | Filtered | 1.9 U | 2.6 | 9 |
| RD-59B | RD-59B_011211_01 | Eu-154 | Particulate | 0.514 U | 2.9 | 5.3 | SORD-59B-GW041811 | Eu-154 | Suspended | 0.2 U | 1.6 | 5.6 |
| RD-59B | RD-59B_011211_01 | Eu-155 | Dissolved | 0.601 U | 7.3 | 12.4 | SORD-59B-GW041811 | Eu-155 | Filtered | -0.4 U | 1 | 3.4 |
| RD-59B | RD-59B_011211_01 | Eu-155 | Particulate | 1.88 U | 4.5 | 7.68 | SORD-59B-GW041811 | Eu-155 | Suspended | 0.17 U | 0.31 | 1 |
| RD-59B | RD-59B_011211_01 | gross_alpha | Dissolved | 2.35 J | 1.1 | 1.29 | SORD-59B-GW041811 | gross_alpha | Filtered | 2.19 | 0.28 | 0.42 |
| RD-59B | RD-59B_011211_01 | gross_alpha | Particulate | -0.056 U | 0.43 | 0.954 | SORD-59B-GW041811 | gross_alpha | Suspended | 0.05 U | 0.14 | 0.52 |
| RD-59B | RD-59B_011211_01 | gross_beta | Dissolved | 3.84 J | 1.5 | 2.36 | SORD-59B-GW041811 | gross_beta | Filtered | 1.69 | 0.41 | 1.2 |
| RD-59B | RD-59B_011211_01 | gross_beta | Particulate | -0.888 U | 1.1 | 1.98 | SORD-59B-GW041811 | gross_beta | Suspended | 0.37 U | 0.25 | 0.82 |
| RD-59B | RD-59B_011211_01 | K-40 | Dissolved | 15.3 U | 39 | 66.6 | SORD-59B-GW041811 | K-40 | Filtered | -6.6 U | 8.1 | 18 |
| RD-59B | RD-59B_011211_01 | K-40 | Particulate | -17.2 U | 27 | 48.6 | SORD-59B-GW041811 | K-40 | Suspended | -3.8 U | 5.2 | 10 |
| RD-59B | RD-59B_011211_01 | Na-22 | Dissolved | 0.23 U | 1.6 | 2.86 | SORD-59B-GW041811 | Na-22 | Filtered | 0.002 U | 0.36 | 1.3 |
| RD-59B | RD-59B_011211_01 | Na-22 | Particulate | 0.174 U | 0.98 | 1.79 | SORD-59B-GW041811 | Na-22 | Suspended | 0.02 U | 0.24 | 0.86 |
| RD-59B | RD-59B_011211_01 | Sr-90 | Dissolved | -0.185 U | 0.43 | 0.766 | SORD-59B-GW041811 | Sr-90 | Filtered | -0.012 U | 0.028 | 0.096 |
| RD-59B | RD-59B_011211_01 | Sr-90 | Particulate | -0.284 U | 0.36 | 0.705 | SORD-59B-GW041811 | Sr-90 | Suspended | 0.016 U | 0.018 | 0.06 |
| RD-59B | RD-59B_011211_01 | H-3 | Total | -175 U | 180 | 330 | SORD-59B-GW041811 | H-3 | Total | 2 U | 46 | 160 |
| RD-59B | RD-59B_011211_01 | U-233/234 | Dissolved | 0.259 J | 0.058 | 0.043 | SORD-59B-GW041811 | U-233/234 | Filtered | 0.209 | 0.022 | 0.012 |
| RD-59B | RD-59B_011211_01 | U-233/234 | Particulate | 0.003 U | 0.019 | 0.041 | SORD-59B-GW041811 | U-233/234 | Suspended | 0.009 | 0.0063 | 0.0053 |
| RD-59B | RD-59B_011211_01 | U-235/236 | Dissolved | 0.008 U | 0.015 | 0.03 | SORD-59B-GW041811 | U-235/236 | Filtered | 0.0028 U | 0.0037 | 0.015 |
| RD-59B | RD-59B_011211_01 | U-235/236 | Particulate | -0.004 U | 0.007 | 0.036 | SORD-59B-GW041811 | U-235/236 | Suspended | 0.0005 U | 0.0031 | 0.016 |
| RD-59B | RD-59B_011211_01 | U-238 | Dissolved | 0.128 J | 0.045 | 0.031 | SORD-59B-GW041811 | U-238 | Filtered | 0.135 | 0.017 | 0.005 |
| RD-59B | RD-59B_011211_01 | U-238 | Particulate | 0 U | 0.012 | 0.03 | SORD-59B-GW041811 | U-238 | Suspended | -0.0021 U | 0.0034 | 0.0053 |
| RD-59C | RD-59C_011211_01 | Sb-125 | Dissolved | -3.12 U | 4.3 | 7.5 | SORD-59C-GW041811 | Sb-125 | Filtered | 4.2 U | 3.9 | 13 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-59C | RD-59C_011211_01 | Sb-125 | Particulate | 2.09 U | 5.5 | 9.37 | SORD-59C-GW041811 | Sb-125 | Suspended | 1.1 U | 1.7 | 5.6 |
| RD-59C | RD-59C_011211_01 | Co-60 | Dissolved | 0.121 U | 1.4 | 2.46 | SORD-59C-GW041811 | Co-60 | Filtered | 0.03 U | 0.37 | 1.3 |
| RD-59C | RD-59C_011211_01 | Co-60 | Particulate | -1.78 U | 1.8 | 3.3 | SORD-59C-GW041811 | Co-60 | Suspended | 0.26 U | 0.2 | 0.66 |
| RD-59C | RD-59C_011211_01 | Cs-134 | Dissolved | -0.759 U | 1.5 | 2.69 | SORD-59C-GW041811 | Cs-134 | Filtered | -0.51 U | 0.41 | 1.4 |
| RD-59C | RD-59C_011211_01 | Cs-134 | Particulate | 0.474 U | 1.5 | 2.58 | SORD-59C-GW041811 | Cs-134 | Suspended | -0.13 U | 0.22 | 0.75 |
| RD-59C | RD-59C_011211_01 | Cs-137 | Dissolved | -0.457 U | 0.93 | 1.76 | SORD-59C-GW041811 | Cs-137 | Filtered | 0.007 U | 0.35 | 1.2 |
| RD-59C | RD-59C_011211_01 | Cs-137 | Particulate | 0.158 U | 0.99 | 1.81 | SORD-59C-GW041811 | Cs-137 | Suspended | 0.27 U | 0.21 | 0.7 |
| RD-59C | RD-59C_011211_01 | Eu-152 | Dissolved | 0.348 U | 1.8 | 4.96 | SORD-59C-GW041811 | Eu-152 | Filtered | 0.83 U | 0.95 | 3.2 |
| RD-59C | RD-59C_011211_01 | Eu-152 | Particulate | 0.692 U | 1.4 | 5.73 | SORD-59C-GW041811 | Eu-152 | Suspended | 0.16 U | 0.52 | 1.8 |
| RD-59C | RD-59C_011211_01 | Eu-154 | Dissolved | -0.78 U | 2.3 | 4.35 | SORD-59C-GW041811 | Eu-154 | Filtered | -0.6 U | 2.6 | 9.2 |
| RD-59C | RD-59C_011211_01 | Eu-154 | Particulate | -0.343 U | 4.2 | 7.6 | SORD-59C-GW041811 | Eu-154 | Suspended | 1.3 U | 1.7 | 5.9 |
| RD-59C | RD-59C_011211_01 | Eu-155 | Dissolved | -1.35 U | 4.7 | 8 | SORD-59C-GW041811 | Eu-155 | Filtered | 0.48 U | 0.68 | 2.3 |
| RD-59C | RD-59C_011211_01 | Eu-155 | Particulate | 4.13 U | 4.5 | 7.61 | SORD-59C-GW041811 | Eu-155 | Suspended | -0.56 U | 0.38 | 1.3 |
| RD-59C | RD-59C_011211_01 | gross_alpha | Dissolved | 3.32 | 1.3 | 1.42 | SORD-59C-GW041811 | gross_alpha | Filtered | 1.83 | 0.27 | 0.43 |
| RD-59C | RD-59C_011211_01 | gross_alpha | Particulate | 0.374 U | 0.35 | 0.48 | SORD-59C-GW041811 | gross_alpha | Suspended | 0.3 | 0.15 | 0.48 |
| RD-59C | RD-59C_011211_01 | gross_beta | Dissolved | 2.92 J | 1.3 | 2 | SORD-59C-GW041811 | gross_beta | Filtered | 2.65 | 0.76 | 2.2 |
| RD-59C | RD-59C_011211_01 | gross_beta | Particulate | 0.623 U | 1.9 | 3.01 | SORD-59C-GW041811 | gross_beta | Suspended | 0.006 U | 0.25 | 0.85 |
| RD-59C | RD-59C_011211_01 | K-40 | Dissolved | 3.56 U | 20 | 34.7 | SORD-59C-GW041811 | K-40 | Filtered | -13 U | 23 | 19 |
| RD-59C | RD-59C_011211_01 | K-40 | Particulate | -15.3 U | 25 | 45 | SORD-59C-GW041811 | K-40 | Suspended | 2.4 U | 3.1 | 12 |
| RD-59C | RD-59C_011211_01 | Na-22 | Dissolved | -0.263 U | 0.77 | 1.47 | SORD-59C-GW041811 | Na-22 | Filtered | -0.1 U | 0.38 | 1.3 |
| RD-59C | RD-59C_011211_01 | Na-22 | Particulate | -0.116 U | 1.4 | 2.57 | SORD-59C-GW041811 | Na-22 | Suspended | -0.03 U | 0.22 | 0.77 |
| RD-59C | RD-59C_011211_01 | Sr-90 | Dissolved | -0.219 U | 0.28 | 0.594 | SORD-59C-GW041811 | Sr-90 | Filtered | 0.006 U | 0.021 | 0.071 |
| RD-59C | RD-59C_011211_01 | Sr-90 | Particulate | -0.067 U | 0.42 | 0.747 | SORD-59C-GW041811 | Sr-90 | Suspended | 0.005 U | 0.017 | 0.058 |
| RD-59C | RD-59C_011211_01 | H-3 | Total | -155 U | 180 | 334 | SORD-59C-GW041812 | H-3 | Total | -10 U | 140 | 42 |
| RD-59C | RD-59C_011211_01 | U-233/234 | Dissolved | 0.207 J | 0.071 | 0.063 | SORD-59C-GW041811 | U-233/234 | Filtered | 0.222 | 0.024 | 0.014 |
| RD-59C | RD-59C_011211_01 | U-233/234 | Particulate | -0.009 U | 0.026 | 0.069 | SORD-59C-GW041811 | U-233/234 | Suspended | -0.001 U | 0.0043 | 0.0052 |
| RD-59C | RD-59C_011211_01 | U-235/236 | Dissolved | -0.005 U | 0.011 | 0.051 | SORD-59C-GW041811 | U-235/236 | Filtered | 0 U | 0.0021 | 0.0072 |
| RD-59C | RD-59C_011211_01 | U-235/236 | Particulate | 0.005 U | 0.01 | 0.04 | SORD-59C-GW041811 | U-235/236 | Suspended | -0.0014 U | 0.0036 | 0.02 |
| RD-59C | RD-59C_011211_01 | U-238 | Dissolved | 0.062 J | 0.035 | 0.049 | SORD-59C-GW041811 | U-238 | Filtered | 0.053 | 0.012 | 0.014 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|-------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-59C | RD-59C_011211_01 | U-238 | Particulate | 0.009 U | 0.017 | 0.041 | SORD-59C-GW041811 | U-238 | Suspended | -0.0052 U | 0.004 | 0.016 |
| RD-85 | RD-85_011411_01 | Sb-125 | Dissolved | -4.01 U | 4.7 | 8.2 | SMRD-85-GW031711 | Sb-125 | Filtered | 3.8 | 4 | 13 |
| RD-85 | RD-85_011411_01 | Sb-125 | Particulate | 3.41 U | 3.9 | 6.57 | SMRD-85-GW031711 | Sb-125 | Suspended | 1.7 U | 1.6 | 5.2 |
| RD-85 | RD-85_011411_01 | Cs-134 | Dissolved | -0.36 U | 0.91 | 1.7 | SMRD-85-GW031711 | Cs-134 | Filtered | 0.23 | 0.4 | 1.4 |
| RD-85 | RD-85_011411_01 | Cs-134 | Particulate | -0.311 U | 2.3 | 4.07 | SMRD-85-GW031711 | Cs-134 | Suspended | 0 U | 0.26 | 0.89 |
| RD-85 | RD-85_011411_01 | Cs-137 | Dissolved | -0.651 U | 1.5 | 2.63 | SMRD-85-GW031711 | Cs-137 | Filtered | 0.73 | 0.46 | 1.5 |
| RD-85 | RD-85_011411_01 | Cs-137 | Particulate | -0.18 U | 1.6 | 2.81 | SMRD-85-GW031711 | Cs-137 | Suspended | -0.04 U | 0.2 | 0.68 |
| RD-85 | RD-85_011411_01 | Co-60 | Dissolved | 0.613 U | 2 | 3.45 | SMRD-85-GW031711 | Co-60 | Filtered | 0.34 | 0.42 | 1.5 |
| RD-85 | RD-85_011411_01 | Co-60 | Particulate | 0.469 U | 1.5 | 2.68 | SMRD-85-GW031711 | Co-60 | Suspended | 0.12 U | 0.22 | 0.77 |
| RD-85 | RD-85_011411_01 | Eu-152 | Dissolved | -0.547 U | 4.1 | 8.35 | SMRD-85-GW031711 | Eu-152 | Filtered | -0.8 | 1.2 | 4.2 |
| RD-85 | RD-85_011411_01 | Eu-152 | Particulate | -0.5 U | 5.4 | 9.3 | SMRD-85-GW031711 | Eu-152 | Suspended | -0.35 U | 0.47 | 1.6 |
| RD-85 | RD-85_011411_01 | Eu-154 | Dissolved | 1.1 U | 4.7 | 8.1 | SMRD-85-GW031711 | Eu-154 | Filtered | 0.5 | 3.7 | 13 |
| RD-85 | RD-85_011411_01 | Eu-154 | Particulate | -0.472 U | 3 | 5.63 | SMRD-85-GW031711 | Eu-154 | Suspended | -0.6 U | 1.8 | 6.1 |
| RD-85 | RD-85_011411_01 | Eu-155 | Dissolved | 0.881 U | 5 | 8.49 | SMRD-85-GW031711 | Eu-155 | Filtered | -0.48 U | 0.99 | 3.3 |
| RD-85 | RD-85_011411_01 | Eu-155 | Particulate | -5.08 U | 5.2 | 9.14 | SMRD-85-GW031711 | Eu-155 | Suspended | -0.005 U | 0.35 | 1.2 |
| RD-85 | RD-85_011411_01 | gross_alpha | Dissolved | 4.78 | 1.9 | 2.03 | SMRD-85-GW031711 | gross_alpha | Filtered | 5.63 | 0.51 | 0.52 |
| RD-85 | RD-85_011411_01 | gross_alpha | Particulate | 2.06 J | 1.1 | 1.43 | SMRD-85-GW031711 | gross_alpha | Suspended | 1.5 | 0.41 | 0.95 |
| RD-85 | RD-85_011411_01 | gross_beta | Dissolved | 4.75 | 2.4 | 3.65 | SMRD-85-GW031711 | gross_beta | Filtered | 5.5 | 1.2 | 3.2 |
| RD-85 | RD-85_011411_01 | gross_beta | Particulate | 2.31 U | 2.4 | 3.89 | SMRD-85-GW031711 | gross_beta | Suspended | 0.94 | 0.3 | 0.88 |
| RD-85 | RD-85_011411_01 | K-40 | Dissolved | -10.1 U | 27 | 47 | SMRD-85-GW031711 | K-40 | Filtered | -26 U | 82 | 25 |
| RD-85 | RD-85_011411_01 | K-40 | Particulate | -12.2 U | 23 | 40.7 | SMRD-85-GW031711 | K-40 | Suspended | -1.2 U | 2.8 | 9.5 |
| RD-85 | RD-85_011411_01 | Na-22 | Dissolved | 0.374 U | 1.6 | 2.74 | SMRD-85-GW031711 | Na-22 | Filtered | 0.08 | 0.41 | 1.5 |
| RD-85 | RD-85_011411_01 | Na-22 | Particulate | -0.16 U | 1 | 1.91 | SMRD-85-GW031711 | Na-22 | Suspended | 0 U | 0.27 | 0.94 |
| RD-85 | RD-85_011411_01 | Sr-90 | Dissolved | 0.13 U | 0.37 | 0.696 | SMRD-85-GW031711 | Sr-90 | Filtered | -0.005 U | 0.035 | 0.12 |
| RD-85 | RD-85_011411_01 | Sr-90 | Particulate | -0.158 U | 0.37 | 0.77 | SMRD-85-GW031711 | Sr-90 | Suspended | -0.04 U | 0.04 | 0.15 |
| RD-85 | RD-85_011411_01 | H-3 | Total | 124 U | 180 | 295 | SMRD-85-GW031711 | H-3 | Total | 13 U B | 42 | 140 |
| RD-85 | RD-85_011411_01 | U-233/234 | Dissolved | 3.13 | 0.29 | 0.091 | SMRD-85-GW031711 | U-233/234 | Filtered | 1.98 | 0.11 | 0.006 |
| RD-85 | RD-85_011411_01 | U-233/234 | Particulate | -0.013 U | 0.018 | 0.059 | SMRD-85-GW031711 | U-233/234 | Suspended | -0.0043 U | 0.0046 | 0.015 |
| RD-85 | RD-85_011411_01 | U-235/236 | Dissolved | 0.155 J | 0.065 | 0.062 | SMRD-85-GW031711 | U-235/236 | Filtered | 0.082 | 0.016 | 0.008 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-85 | RD-85_011411_01 | U-235/236 | Particulate | -0.005 U | 0.011 | 0.051 | SMRD-85-GW031711 | U-235/236 | Suspended | 0 U | 0.0026 | 0.0069 |
| RD-85 | RD-85_011411_01 | U-238 | Dissolved | 2.64 | 0.26 | 0.072 | SMRD-85-GW031711 | U-238 | Filtered | 1.63 | 0.092 | 0.015 |
| RD-85 | RD-85_011411_01 | U-238 | Particulate | 0.013 U | 0.018 | 0.042 | SMRD-85-GW031711 | U-238 | Suspended | 0.0087 | 0.0071 | 0.019 |
| RD-86 | RD-86_011411_01 | Sb-125 | Dissolved | -1.64 U | 4.5 | 7.77 | SMRD-86-GW032911 | Sb-125 | Filtered | 3.4 U | 4.4 | 15 |
| RD-86 | RD-86_011411_01 | Sb-125 | Particulate | 3.03 U | 6.3 | 10.7 | SMRD-86-GW032911 | Sb-125 | Suspended | -0.1 U | 1.5 | 5.2 |
| RD-86 | RD-86_011411_01 | Cs-134 | Dissolved | 0.509 U | 1.8 | 3.08 | SMRD-86-GW032911 | Cs-134 | Filtered | 0.71 SK | 0.38 | 1.3 |
| RD-86 | RD-86_011411_01 | Cs-134 | Particulate | -0.469 U | 2.7 | 4.8 | SMRD-86-GW032911 | Cs-134 | Suspended | 0.005 U | 0.2 | 0.69 |
| RD-86 | RD-86_011411_01 | Cs-137 | Dissolved | -1.26 U | 1.6 | 2.82 | SMRD-86-GW032911 | Cs-137 | Filtered | 0.55 U | 0.41 | 1.4 |
| RD-86 | RD-86_011411_01 | Cs-137 | Particulate | -0.259 U | 3.5 | 6.1 | SMRD-86-GW032911 | Cs-137 | Suspended | 0.004 U | 0.18 | 0.64 |
| RD-86 | RD-86_011411_01 | Co-60 | Dissolved | -0.048 U | 1.4 | 2.57 | SMRD-86-GW032911 | Co-60 | Filtered | -0.22 U | 0.41 | 1.5 |
| RD-86 | RD-86_011411_01 | Co-60 | Particulate | 1.79 U | 3.6 | 6.16 | SMRD-86-GW032911 | Co-60 | Suspended | -0.03 U | 0.14 | 0.52 |
| RD-86 | RD-86_011411_01 | Eu-152 | Dissolved | -3.8 U | 5.8 | 10 | SMRD-86-GW032911 | Eu-152 | Filtered | 0 U | 1.4 | 4.6 |
| RD-86 | RD-86_011411_01 | Eu-152 | Particulate | -0.878 U | 6.9 | 11.9 | SMRD-86-GW032911 | Eu-152 | Suspended | 0.33 U | 0.49 | 1.7 |
| RD-86 | RD-86_011411_01 | Eu-154 | Dissolved | -0.518 U | 3.2 | 5.87 | SMRD-86-GW032911 | Eu-154 | Filtered | 0 U | 3.5 | 12 |
| RD-86 | RD-86_011411_01 | Eu-154 | Particulate | 1.97 U | 3.7 | 6.49 | SMRD-86-GW032911 | Eu-154 | Suspended | 0 U | 1.8 | 6.2 |
| RD-86 | RD-86_011411_01 | Eu-155 | Dissolved | 3.12 U | 4.8 | 8.04 | SMRD-86-GW032911 | Eu-155 | Filtered | -0.4 U | 1.4 | 4.8 |
| RD-86 | RD-86_011411_01 | Eu-155 | Particulate | 1.99 U | 3.2 | 5.45 | SMRD-86-GW032911 | Eu-155 | Suspended | 0.3 U | 0.31 | 1 |
| RD-86 | RD-86_011411_01 | gross_alpha | Dissolved | 2.07 J | 1.2 | 1.91 | SMRD-86-GW032911 | gross_alpha | Filtered | 5.18 J | 0.52 | 0.57 |
| RD-86 | RD-86_011411_01 | gross_alpha | Particulate | 1.89 J | 0.75 | 0.86 | SMRD-86-GW032911 | gross_alpha | Suspended | 1.37 | 0.25 | 0.5 |
| RD-86 | RD-86_011411_01 | gross_beta | Dissolved | 2.32 J | 1.3 | 2.01 | SMRD-86-GW032911 | gross_beta | Filtered | 0.74 R | 0.35 | 1.1 |
| RD-86 | RD-86_011411_01 | gross_beta | Particulate | 2.26 J | 1.4 | 2.13 | SMRD-86-GW032911 | gross_beta | Suspended | 3.73 | 0.4 | 0.84 |
| RD-86 | RD-86_011411_01 | K-40 | Dissolved | -2.14 U | 22 | 38 | SMRD-86-GW032911 | K-40 | Filtered | -7 U | 12 | 19 |
| RD-86 | RD-86_011411_01 | K-40 | Particulate | -7.64 U | 19 | 35.7 | SMRD-86-GW032911 | K-40 | Suspended | 0.05 U | 2.5 | 9.7 |
| RD-86 | RD-86_011411_01 | Na-22 | Dissolved | -0.176 U | 1.1 | 1.99 | SMRD-86-GW032911 | Na-22 | Filtered | 0.29 U | 0.42 | 1.4 |
| RD-86 | RD-86_011411_01 | Na-22 | Particulate | 0.668 U | 1.3 | 2.2 | SMRD-86-GW032911 | Na-22 | Suspended | -0.01 U | 0.18 | 0.63 |
| RD-86 | RD-86_011411_01 | Sr-90 | Dissolved | 0.056 U | 0.42 | 0.804 | SMRD-86-GW032911 | Sr-90 | Filtered | 0.042 U | 0.039 | 0.13 |
| RD-86 | RD-86_011411_01 | Sr-90 | Particulate | -0.019 U | 0.4 | 0.786 | SMRD-86-GW032911 | Sr-90 | Suspended | 0.06 | 0.027 | 0.087 |
| RD-86 | RD-86_011411_01 | H-3 | Total | 76.8 U | 180 | 297 | SMRD-86-GW032911 | H-3 | Total | -10 U | 35 | 120 |
| RD-86 | RD-86_011411_01 | U-233/234 | Dissolved | 1.9 | 0.21 | 0.074 | SMRD-86-GW032911 | U-233/234 | Filtered | 2.41 | 0.12 | 0.005 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-86 | RD-86_011411_01 | U-233/234 | Particulate | 0.044 U | 0.039 | 0.065 | SMRD-86-GW032911 | U-233/234 | Suspended | 0.079 | 0.014 | 0.014 |
| RD-86 | RD-86_011411_01 | U-235/236 | Dissolved | 0.158 J | 0.059 | 0.045 | SMRD-86-GW032911 | U-235/236 | Filtered | 0.109 | 0.018 | 0.02 |
| RD-86 | RD-86_011411_01 | U-235/236 | Particulate | 0.006 U | 0.024 | 0.065 | SMRD-86-GW032911 | U-235/236 | Suspended | 0.0051 U | 0.0036 | 0.0069 |
| RD-86 | RD-86_011411_01 | U-238 | Dissolved | 1.8 | 0.2 | 0.06 | SMRD-86-GW032911 | U-238 | Filtered | 2.33 | 0.12 | 0.01 |
| RD-86 | RD-86_011411_01 | U-238 | Particulate | 0.039 U | 0.029 | 0.047 | SMRD-86-GW032911 | U-238 | Suspended | 0.058 | 0.012 | 0.006 |
| RD-96 | RD-96_011211_01 | Sb-125 | Dissolved | -2.86 U | 4.1 | 7.14 | SMRD-96-GW032511 | Sb-125 | Filtered | 2.5 U | 3.6 | 12 |
| RD-96 | RD-96_011211_01 | Sb-125 | Particulate | 0.222 U | 5.4 | 9.38 | SMRD-96-GW032511 | Sb-125 | Suspended | 0.1 U | 1.7 | 5.8 |
| RD-96 | RD-96_011211_01 | Cs-134 | Dissolved | -0.608 U | 1.3 | 2.37 | SMRD-96-GW032511 | Cs-134 | Filtered | 0.15 U | 0.33 | 1.2 |
| RD-96 | RD-96_011211_01 | Cs-134 | Particulate | 1.96 U | 2.2 | 3.62 | SMRD-96-GW032511 | Cs-134 | Suspended | 0.49 | 0.13 | 0.8 |
| RD-96 | RD-96_011211_01 | Cs-137 | Dissolved | -1.41 U | 1.4 | 2.58 | SMRD-96-GW032511 | Cs-137 | Filtered | 0.26 U | 0.43 | 1.5 |
| RD-96 | RD-96_011211_01 | Cs-137 | Particulate | 0.893 U | 1.9 | 3.17 | SMRD-96-GW032511 | Cs-137 | Suspended | 0 U | 0.21 | 0.73 |
| RD-96 | RD-96_011211_01 | Co-60 | Dissolved | 0.223 U | 0.9 | 1.6 | SMRD-96-GW032511 | Co-60 | Filtered | -0.22 U | 0.51 | 1.8 |
| RD-96 | RD-96_011211_01 | Co-60 | Particulate | 0.11 U | 1.3 | 2.4 | SMRD-96-GW032511 | Co-60 | Suspended | 0.11 U | 0.22 | 0.78 |
| RD-96 | RD-96_011211_01 | Eu-152 | Dissolved | 1.33 U | 1.5 | 4.15 | SMRD-96-GW032511 | Eu-152 | Filtered | -1.2 U | 1.3 | 4.2 |
| RD-96 | RD-96_011211_01 | Eu-152 | Particulate | -8.03 U | 11 | 19.5 | SMRD-96-GW032511 | Eu-152 | Suspended | 0.37 U | 0.55 | 1.8 |
| RD-96 | RD-96_011211_01 | Eu-154 | Dissolved | -1.2 U | 2.5 | 4.79 | SMRD-96-GW032511 | Eu-154 | Filtered | 4.4 U | 3.5 | 12 |
| RD-96 | RD-96_011211_01 | Eu-154 | Particulate | 1.71 U | 3.1 | 5.43 | SMRD-96-GW032511 | Eu-154 | Suspended | -1.2 U J | 1.6 | 5.4 |
| RD-96 | RD-96_011211_01 | Eu-155 | Dissolved | -1.57 U | 3.8 | 6.6 | SMRD-96-GW032511 | Eu-155 | Filtered | 0.67 U | 0.95 | 3.2 |
| RD-96 | RD-96_011211_01 | Eu-155 | Particulate | 0.966 U | 4.6 | 7.95 | SMRD-96-GW032511 | Eu-155 | Suspended | 0.26 U | 0.37 | 1.2 |
| RD-96 | RD-96_011211_01 | gross_alpha | Dissolved | 7.54 | 2.1 | 2.06 | SMRD-96-GW032511 | gross_alpha | Filtered | 7.41 | 0.59 | 0.5 |
| RD-96 | RD-96_011211_01 | gross_alpha | Particulate | 3.08 | 1.1 | 1.12 | SMRD-96-GW032511 | gross_alpha | Suspended | 6.02 | 0.84 | 1.2 |
| RD-96 | RD-96_011211_01 | gross_beta | Dissolved | 7.38 | 2.5 | 3.77 | SMRD-96-GW032511 | gross_beta | Filtered | 7.18 | 0.8 | 1.7 |
| RD-96 | RD-96_011211_01 | gross_beta | Particulate | 1.01 U | 2 | 3.23 | SMRD-96-GW032511 | gross_beta | Suspended | 7.57 | 0.68 | 1.3 |
| RD-96 | RD-96_011211_01 | K-40 | Dissolved | 3.91 U | 20 | 34 | SMRD-96-GW032511 | K-40 | Filtered | 9.4 | 4.8 | 18 |
| RD-96 | RD-96_011211_01 | K-40 | Particulate | -14.6 U | 21 | 38.6 | SMRD-96-GW032511 | K-40 | Suspended | 7.1 | 3.4 | 9.8 |
| RD-96 | RD-96_011211_01 | Na-22 | Dissolved | -0.404 U | 0.85 | 1.62 | SMRD-96-GW032511 | Na-22 | Filtered | -0.35 U | 0.51 | 1.8 |
| RD-96 | RD-96_011211_01 | Na-22 | Particulate | 0.579 U | 1.1 | 1.83 | SMRD-96-GW032511 | Na-22 | Suspended | 0 U | 0.29 | 1 |
| RD-96 | RD-96_011211_01 | Sr-90 | Dissolved | 0.011 U | 0.32 | 0.634 | SMRD-96-GW032511 | Sr-90 | Filtered | -0.028 U | 0.048 | 0.17 |
| RD-96 | RD-96_011211_01 | Sr-90 | Particulate | 0.006 U | 0.3 | 0.593 | SMRD-96-GW032511 | Sr-90 | Suspended | -0.009 U | 0.034 | 0.12 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-96 | RD-96_011211_01 | H-3 | Total | -134 U | 190 | 334 | SMRD-96-GW032511 | H-3 | Total | 25 U | 36 | 120 |
| RD-96 | RD-96_011211_01 | U-233/234 | Dissolved | 5.8 | 0.36 | 0.067 | SMRD-96-GW032511 | U-233/234 | Filtered | 4.1 | 0.2 | 0.01 |
| RD-96 | RD-96_011211_01 | U-233/234 | Particulate | 0.043 U | 0.029 | 0.045 | SMRD-96-GW032511 | U-233/234 | Suspended | 0.107 | 0.015 | 0.017 |
| RD-96 | RD-96_011211_01 | U-235/236 | Dissolved | 0.224 J | 0.067 | 0.046 | SMRD-96-GW032511 | U-235/236 | Filtered | 0.242 | 0.028 | 0.018 |
| RD-96 | RD-96_011211_01 | U-235/236 | Particulate | 0 U | 0.018 | 0.042 | SMRD-96-GW032511 | U-235/236 | Suspended | 0.0109 | 0.0049 | 0.0059 |
| RD-96 | RD-96_011211_01 | U-238 | Dissolved | 5.81 | 0.36 | 0.057 | SMRD-96-GW032511 | U-238 | Filtered | 3.8 | 0.18 | 0.02 |
| RD-96 | RD-96_011211_01 | U-238 | Particulate | 0.018 U | 0.014 | 0.028 | SMRD-96-GW032511 | U-238 | Suspended | 0.062 | 0.012 | 0.014 |
| RD-98 | RD-98_011311_01 | Sb-125 | Dissolved | -3.49 U | 9.4 | 16.4 | SMRD-98-GW041911 | Sb-125 | Filtered | -2.6 U | 4 | 14 |
| RD-98 | RD-98_011311_01 | Sb-125 | Particulate | 1.84 U | 4 | 6.85 | SMRD-98-GW041911 | Sb-125 | Suspended | -1.3 U | 1.6 | 5.2 |
| RD-98 | RD-98_011311_01 | Cs-134 | Dissolved | -0.462 U | 2.4 | 4.25 | SMRD-98-GW041911 | Cs-134 | Filtered | 0.03 U | 0.35 | 1.2 |
| RD-98 | RD-98_011311_01 | Cs-134 | Particulate | 0.59 U | 1.5 | 2.57 | SMRD-98-GW041911 | Cs-134 | Suspended | -0.19 U | 0.2 | 0.68 |
| RD-98 | RD-98_011311_01 | Cs-137 | Dissolved | 1.14 U | 2.9 | 4.92 | SMRD-98-GW041911 | Cs-137 | Filtered | -0.01 U | 0.3 | 1.1 |
| RD-98 | RD-98_011311_01 | Cs-137 | Particulate | -0.459 U | 2.1 | 3.75 | SMRD-98-GW041911 | Cs-137 | Suspended | 0.12 U | 0.18 | 0.63 |
| RD-98 | RD-98_011311_01 | Co-60 | Dissolved | -2.19 U | 3.2 | 5.84 | SMRD-98-GW041911 | Co-60 | Filtered | 0.41 U | 0.38 | 1.3 |
| RD-98 | RD-98_011311_01 | Co-60 | Particulate | 1.54 U | 1.7 | 2.78 | SMRD-98-GW041911 | Co-60 | Suspended | 0.26 U | 0.22 | 0.74 |
| RD-98 | RD-98_011311_01 | Eu-152 | Dissolved | -6.05 U | 8.8 | 15.4 | SMRD-98-GW041911 | Eu-152 | Filtered | -0.17 U | 0.99 | 3.4 |
| RD-98 | RD-98_011311_01 | Eu-152 | Particulate | -2.02 U | 6.4 | 11.1 | SMRD-98-GW041911 | Eu-152 | Suspended | 0.57 U | 0.47 | 1.6 |
| RD-98 | RD-98_011311_01 | Eu-154 | Dissolved | -3.1 U | 6.2 | 11.8 | SMRD-98-GW041911 | Eu-154 | Filtered | -0.01 U | 2.9 | 10 |
| RD-98 | RD-98_011311_01 | Eu-154 | Particulate | -0.635 U | 4.2 | 7.59 | SMRD-98-GW041911 | Eu-154 | Suspended | 1.3 U | 1.6 | 5.5 |
| RD-98 | RD-98_011311_01 | Eu-155 | Dissolved | -8.62 U | 9 | 15.7 | SMRD-98-GW041911 | Eu-155 | Filtered | 0.3 U | 1 | 3.4 |
| RD-98 | RD-98_011311_01 | Eu-155 | Particulate | -3.02 U | 4.7 | 8.15 | SMRD-98-GW041911 | Eu-155 | Suspended | -0.01 U | 0.23 | 0.79 |
| RD-98 | RD-98_011311_01 | gross_alpha | Dissolved | 4 | 1.7 | 1.63 | SMRD-98-GW041911 | gross_alpha | Filtered | 6.05 J | 0.57 | 0.67 |
| RD-98 | RD-98_011311_01 | gross_alpha | Particulate | -0.16 U | 0.65 | 1.26 | SMRD-98-GW041911 | gross_alpha | Suspended | 0.99 | 0.23 | 0.51 |
| RD-98 | RD-98_011311_01 | gross_beta | Dissolved | 113 | 4.2 | 3.19 | SMRD-98-GW041911 | gross_beta | Filtered | 325 R | 12 | 1 |
| RD-98 | RD-98_011311_01 | gross_beta | Particulate | -0.867 U | 2 | 3.44 | SMRD-98-GW041911 | gross_beta | Suspended | 1.5 | 0.31 | 0.84 |
| RD-98 | RD-98_011311_01 | K-40 | Dissolved | 21.8 U | 39 | 67 | SMRD-98-GW041911 | K-40 | Filtered | -2.1 U | 5.3 | 18 |
| RD-98 | RD-98_011311_01 | K-40 | Particulate | -23.4 U | 25 | 45.4 | SMRD-98-GW041911 | K-40 | Suspended | 5.9 | 2.1 | 8.5 |
| RD-98 | RD-98_011311_01 | Na-22 | Dissolved | -1.05 U | 2.1 | 3.98 | SMRD-98-GW041911 | Na-22 | Filtered | 0.12 U | 0.33 | 1.2 |
| RD-98 | RD-98_011311_01 | Na-22 | Particulate | -0.214 U | 1.4 | 2.56 | SMRD-98-GW041911 | Na-22 | Suspended | 0.2 U | 0.21 | 0.72 |

Table D.4
Boeing - EPA Data Comparison
Phase II Samples (March - April 2011)

| Well Identification | BOEING DATA | | | | | | EPA DATA | | | | | |
|---------------------|-----------------------|--------------|-----------------|------------------|-------|-------|-----------------------|--------------|-----------------|------------------|--------|--------|
| | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | Error | MDC | Sample Identification | Analyte Name | Reporting Basis | Activity (pCi/L) | TPU | MDC |
| RD-98 | RD-98_011311_01 | Sr-90 | Dissolved | 64.2 | 2.4 | 0.802 | SMRD-98-GW041911 | Sr-90 | Filtered | 183 | 7.7 | 0.3 |
| RD-98 | RD-98_011311_01 | Sr-90 | Particulate | 0.224 U | 0.41 | 0.749 | SMRD-98-GW041911 | Sr-90 | Suspended | 0.16 | 0.03 | 0.084 |
| RD-98 | RD-98_011311_01 | H-3 | Total | 0 U | 170 | 292 | SMRD-98-GW041911 | H-3 | Total | 23 U | 36 | 120 |
| RD-98 | RD-98_011311_01 | U-233/234 | Dissolved | 6.75 | 0.55 | 0.111 | SMRD-98-GW041911 | U-233/234 | Filtered | 4.82 | 0.23 | 0.01 |
| RD-98 | RD-98_011311_01 | U-233/234 | Particulate | 0.008 U | 0.033 | 0.079 | SMRD-98-GW041911 | U-233/234 | Suspended | 0.008 | 0.0059 | 0.0051 |
| RD-98 | RD-98_011311_01 | U-235/236 | Dissolved | 0.27 J | 0.11 | 0.071 | SMRD-98-GW041911 | U-235/236 | Filtered | 0.182 | 0.023 | 0.007 |
| RD-98 | RD-98_011311_01 | U-235/236 | Particulate | 0.01 U | 0.02 | 0.076 | SMRD-98-GW041911 | U-235/236 | Suspended | 0.0074 | 0.005 | 0.015 |
| RD-98 | RD-98_011311_01 | U-238 | Dissolved | 2.89 | 0.33 | 0.095 | SMRD-98-GW041911 | U-238 | Filtered | 1.54 | 0.086 | 0.006 |
| RD-98 | RD-98_011311_01 | U-238 | Particulate | 0.008 U | 0.016 | 0.063 | SMRD-98-GW041911 | U-238 | Suspended | 0.0204 | 0.0077 | 0.012 |

Notes:

Refer to Table 3.1 of the Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010a) for a definition of radionuclide symbols.

The Boeing Company data is assumed to be a total propagated uncertainty (TPU), reported at the 2σ confidence interval.

The Boeing Company samples were collected in January 2011, the USEPA data was collected during March 2011.

The gross alpha and gross beta results reported by The Boeing Company, may lack adequate analytical control and should not be used as a basis for assessing the data quality or making analytical decisions.

MDC - minimum detectable concentration

pCi/L - picocuries per liter

TPU - total propagated uncertainty

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 - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data is believed to be consistent with the background study results and may be used for its intended purpose.

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

R - The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

U - Not considered detected. The associated number is the reported concentration.