The following provides detailed discussion of the three sampling events performed in 2009. The first event took place in early- to mid-June, while the second and longest of the three events occurred in mid- to late-July. The final event occurred in late September. Supporting documentation for the sampling events is presented in Appendices B, C, and D.

June Sampling Event

The June sampling event was performed from June 7 through June 13, 2009. The weather was sunny and partly cloudy throughout most of the sampling event. Tetra Tech logistics personnel arrived in Ketchikan on June 5 to begin purchasing and mobilizing supplies. Other Site personnel and equipment were deployed to the Site through Ketchikan on June 7, where they traveled to the Site aboard the M/V *Crane* or flew in to the Site via seaplane. On-site radiation safety training for all field personnel was conducted on June 7.

Personnel slept and ate aboard the M/V *Crane* for the duration of the sampling event, shuttling to and from shore each day via small water craft. Sampling equipment and vehicles (e.g., UTVs) were transferred to shore on Day 1 where it remained until it was scanned, decontaminated if necessary, and released on the final day during demobilization. Personnel and equipment routinely returning to the ship followed scanning and decontamination procedures established in the SSHP (Tetra Tech, 2009a).

During the June sampling event, sampling was conducted at the following locations:

- **900-Foot Level:** six radon stations installed; Surface water quality and flow collected at four locations, four soil and mine rock correlation samples collected. Ambient air temperature measured at the air shaft near the open pit.
- **Open Pit:** four radon stations installed; Surface water quality and flow not collected.
- **700-Foot Level**: five radon stations installed; Surface water quality and flow collected at one location; Ambient air temperatures measured at the 700-Foot Level portal.
- **300-Foot Level**: seven radon stations installed; one soil and mine rock correlation sample collected; Surface water quality and flow collected at five locations; Ambient air temperatures collected at 300-Foot Level portal.
- **Mine and Haul Roads**: two radon stations installed; ten soil and mine rock correlation samples collected; Radiological survey conducted at various locations along haul roads.
- **Confluence of Kendrick Creek/Cabin Creek:** Surface water quality and flow collected at three locations.
- **Kendrick Bay Delta:** no sampling was conducted during the June sampling event.
- **Ore Staging Area:** 10 radon stations installed; two soil and mine rock correlation samples collected.
- **Springs Sampling:** Spring sampling performed at one location.

During the June sampling event a total of 34 radon stations were installed, 15 gamma correlation plot soil samples were collected, and 13 surface water and one groundwater (seep) sample were collected. Flow measurements were performed at the surface water sampling locations. Appendix B1-1 includes field documentation from the June sampling event, including scanned copies of field logbooks. Appendix B-2 shows photographic logs from the June sampling event including radon station locations, surface water sampling, and other sampling

that took place during the initial sampling event. Appendix B-3 provides an assessment of the laboratory data generated during the June sampling event. Laboratory reports for analysis performed on samples from the June sampling event are provided in Appendix B-4.

Surface water samples were collected at 13 locations during the June sampling event, as was one groundwater (seep) sample. One duplicate surface water sample was also collected. Table 3-3 provides a description of the surface water and seep locations, including geo-referenced coordinates, sampled during the three 2009 sampling events. The sampling locations, shown on Figure 3-1, were based on accessibility and flow conditions. Tables A-1a through A-1d provide a summary of the field measurements and laboratory analytical results of the water samples.

Radtrack® track-etch radon detectors were deployed across the Site during the June sampling event. The radon stations were left at the Site for over 3 months to characterize the average radon concentration emanating from specific locations throughout the site. A total of 34 radon stations were installed throughout the Site in June 2009. Table 3-4 provides information regarding the stations, including geo-referenced coordinates, duration of deployment and the gamma measurement made at the location. Figure 3-2 shows the radon detector locations. Table A-2 provides a summary of the radon detector results.

Fifteen gamma correlation plots were conducted during the June sampling event. A total of 16 composite soil samples (15 original plus one duplicate) were collected and sent for laboratory analysis abiding by International Atomic Energy Agency (IAEA) shipping criteria. Each soil sample location was recorded in the field logbook using a handheld GPS; other parameters recorded in the logbook included physical soil characteristics, photographs and other notable observations (Appendices B-1 and B-2). Table 3-5 provides a description of the soil locations, including coordinates, sampled during June and July 2009. The soil sample locations are shown in Figure 3-3. Laboratory analytical results for the soil samples are summarized in Table A-3a through Table A-3c.

XRF analysis was performed during the June sampling event consistent with EPA's SW846 Method 6200. A description of the XRF instrument is provided in Appendix C-1. The XRF data was utilized in the June sampling event at the Site to evaluate the site-specific effectiveness for the XRF as a possible screening tool for lead and arsenic in soils. Fifteen soil samples were analyzed in the field during the June event. The samples all required drying prior to analysis. XRF analyses were performed on aliquots sieved through a #60 (250µm) sieve; the same samples were shipped to the laboratory for analysis of lead and arsenic. Table A-4 provides a summary of the lead data generated from the XRF samples (all arsenic values were below the XRF detection limit which is generally around 20 mg/kg, depending on matrix soil). Photographic logs are provided in Appendix B-2 showing the XRF sampling during the June sampling event.

Limited radiological surveying was performed during the June sampling trip, consisting of GPS-based gamma radiation scanning. The scanning was performed during commutes to and from other sampling activities using a backpack detector system mounted on the back of a UTV. The spatial extent of the gamma survey area primarily consisted of haul roads and mine roads throughout the Site. Additional gamma surveying was conducted on and adjacent to the correlation plot areas during the sampling. Quality control (QC) and quality assurance (QA) measures were taken before, during, and after all radiological surveying. The gamma scanning methodology is described in Appendix E-1.

Air temperature and qualitative air flow measurements were collected at mine portals, except at the 900 level due to safety issues. Temperature inside/outside portal entrances were performed with remote sensing thermometers placed inside a moisture sealed device attached to rope and inserted approximately about 30 yards inside portals. The receivers provided temperature at the entrances. Both max and min temperatures inside the portals were measured for a 24-hour period and checked periodically throughout the trip. Qualitative measurements of air flow at the portal entrances were measured with a hand-held anemometer. Temperature and flow measurements are summarized in Table A-5.

July Sampling Event

The July sampling event was performed from July 19 through July 27, 2009. During the July sampling event periodic heavy rainfall events and partly cloudy to cloudy skies were experienced for most of the work period. Site personnel and equipment deployed to the Site through Ketchikan, where they traveled to the Site aboard the *Bulldog* vessel or flew in to the Site via seaplane. A site-specific health and safety meeting was conducted on July 20, 2009 for all the field personnel staying onboard. Personnel slept and ate aboard the vessel for the duration of sampling event, shuttling to and from shore each day via small water craft. Sampling equipment and vehicles (e.g., UTVs) were transferred to shore on Day 1 where they remained until they were scanned, decontaminated if necessary, and released on the final day during demobilization. Personnel and equipment routinely returning to the ship followed scanning and decontamination procedures as established in the SSHP (Tetra Tech, 2009a).

As described in the SAP, the July sampling event was focused on media at the following locations:

- **900-Foot Level:** Short-term radon detectors placed at the 900-Foot Level portal and the air shaft located south of the open pit; Surface water quality and flow collected at four locations; Stream sediment samples collected from four locations; Backpack radiological survey performed; 21 soil samples were collected.
- **Open Pit:** No sampling was performed during the July sampling event.
- **700-Foot Level:** Short-term radon detector placed at 700-Foot Level portal; Surface water quality and flow collected at two locations; No stream sediment sampling was performed during the July sampling event; Backpack radiological survey performed; six soil samples were collected.
- **300-Foot Level:** Short-term radon detector placed at 300-Foot Level portal; Surface water quality and flow collected at five locations; Stream sediment samples were collected from three locations; Backpack radiological survey performed; 18 soil samples were collected.
- **Mine Roads and Haul Roads:** Backpack radiological survey performed; six soil samples were collected.
- **Confluence of Kendrick Creek/Cabin Creek**: Surface water quality and flow collected at three locations; Stream sediment samples collected at four locations; Backpack radiological survey performed up the extent of Kendrick Creek.
- **Kendrick Bay Delta:** Marine sediment samples were collected at 22 intertidal locations and at 8 subtidal locations; Stream sediment samples were collected at two locations; Backpack radiological survey performed up the extent of the intertidal zones of Kendrick Bay delta during low tide.

- **Ore Staging Area:** Subtidal marine sediment samples were collected at eight locations in the intertidal zone near the OSA; Backpack radiological survey performed; Gamma plots performed near dock area.
- **Springs Sampling:** Spring sampling performed at one location.
- **I&L Space:** One soil sample was collected. Backpack radiological survey performed.

During the July sampling event, four short-term radon stations were installed and retrieved, two additional correlation plot soil samples were collected, 69 discrete soil samples, 30 marine sediment (22 intertidal and 8 subtidal) samples, 12 stream sediment samples, and 16 surface and one groundwater quality samples were collected. Additional characterization work (Section 3) included attempted drive-point piezometer installation, a qualitative biological inventory, and radiological surveying. Appendix C-1 includes field documentation from the July sampling event, including scanned copies of field logbooks. Appendix C-2 shows photographic logs from the July sampling event including radon station locations, surface water sampling, and other sampling that took place during the July sampling event. Appendix C-3 provides an assessment of the laboratory data generated during the July sampling event. Laboratory reports for analysis performed on samples from the July sampling event are provided in Appendix C-4.

During the second event, surface water samples were collected at 13 locations sampled during the June sampling event plus three additional locations; one groundwater (seep) sample was also collected. One duplicate surface water sample was generated. Table 3-3 provides a description of the surface water and seep locations, including coordinates, sampled during the three 2009 sampling events. The sampling locations, shown on Figure 3-1, were based on accessibility and flow conditions. Tables A-1a through A-1d provide a summary of the field measurements and laboratory analytical results of the water samples.

Stream sediment samples were collected at or near 10 of the surface water sample locations during the second event (Figure 3-1). In addition, two stream sediment samples were collected at locations (KBD-SS-01-A and -B) in the Kendrick Creek delta. Two sediment samples were also collected in the lower Kendrick Creek channel as it meandered across the intertidal zone during low tide; these two samples (KBD-MS-01-R and -S) likely represent re-worked intertidal sediments more than fresh water stream sediments and are therefore indentified as intertidal sediments. Stream sediment sampling locations were selected based on flow conditions and the presence of sufficient quantities of appropriately sized sediment. Table 3-6 provides a description of the stream sediment locations, including coordinates, sampled during July 2009. The stream sediment laboratory analytical results are summarized in Tables A-6a through A-6c.

Eight subtidal and 20 intertidal marine sediment samples were collected during the July sampling event. Two additional samples classified as intertidal sediment samples (KBD-MS-01-R and -S) were also collected from the intertidal zone (see above). One duplicate sample was collected. The marine sediment sampling locations were selected based on the presence of appropriately sized sediment; subtidal sample locations were also influenced by wind and bay currents. Table 3-7 provides a description of the marine sediment locations, including coordinates. The marine sediment sample locations are shown in Figure 3-4. The marine sediment laboratory analytical results are summarized in Table A-7a through Table A-7c.

Short-term Radtrack® track-etch radon detectors were deployed at the underground mine access points the Site during the July sampling event on July 20, 2009 (Table 3-4 and Figure 3-2). The radon detectors were left in place for the duration of the July sampling event, and were

retrieved on July 27, 2009. The four short-term detectors were shipped to the Landauer laboratory in Glenwood, Illinois for analysis. Results are summarized in Table A-2.

The majority of the radiological surveying for the site characterization was conducted during the July sampling event, which included GPS-based gamma radiation scanning. The spatial extent of the scanned areas included the 900-Foot Level, 700-Foot Level, 300-Foot Level, Ore Staging Area, haul roads/Mine Roads, and Kendrick Creek. Quality control (QC) and quality assurance (QA) measures were taken before, during, and after all radiological surveying. Two additional gamma correlation plots were also completed during the July sampling trip.

Professional land surveying was performed at select areas during the July sampling event by R&M Engineering of Ketchikan, Alaska. The extent of the surveys included surveying work at the 900-Foot Level, 700-Foot Level area, and the Ore Staging Area. The goal of the surveying was to refine the quantities of mine rock piles at these areas.

Tetra Tech conducted a qualitative biological inventory at the Site to identify the main habitat types and associated aquatic and terrestrial species for use in the exposure pathways analyses of the ecological and human health risk assessments (ERA and HHRA). During the biological survey, an emphasis was placed on characterizing food chain exposure pathways to wildlife and humans as this information will be used to refine the CSM. Additional literature-based research was performed to augment the field survey. Wildlife observations from all field staff during each of the three sampling events were included in the survey. A memorandum summarizing the results of the field inventory is provided in Appendix F.

September Sampling Event

The September sampling event was performed from September 20 through September 25, 2009. During the sampling event, the weather was partly cloudy with some precipitation events throughout most of the trip. Tetra Tech logistics personnel arrived in Ketchikan on September 18 to begin purchasing and mobilizing supplies. Other Site personnel and equipment were deployed to the Site through Ketchikan on September 20, where they traveled to the Site aboard the M/V *Crane* or flew in to the Site via seaplane. On-site radiation safety training for all field personnel was conducted on September 20.

Personnel slept and ate aboard the M/V *Crane* for the duration of the sampling event, shuttling to and from shore each day via small water craft. Heavy equipment (e.g., UTVs) was transferred to shore on Day 1 where it remained until it was scanned, decontaminated if necessary, and released on the final day during demobilization. Personnel and equipment routinely returning to the ship followed scanning and decontamination procedures as established in the SSHP (Tetra Tech, 2009a).

As described in the SAP, the September sampling event was focused on media at the following locations:

- **900-Foot Level:** six radon stations retrieved and shipped to lab; surface water quality samples and flows collected at four locations; backpack radiological survey performed. Air monitoring station installed at 900-Foot Level portal in the open pit.
- **Open Pit:** four radon stations retrieved and shipped to lab; surface water quality samples and flows collected at two locations.

- **700-Foot Level**: five radon stations retrieved and shipped to lab; surface water quality sample and flow collected at two locations. Air monitoring station installed at 700-Foot Level portal.
- **300-Foot Level**: seven radon stations retrieved and shipped to lab; surface water quality samples and flows collected at five locations; air monitoring station installed at 300-Foot Level portal.
- **Mine and Haul Roads**: one radon station retrieved and shipped to lab.
- **Confluence of Kendrick Creek/Cabin Creek:** three surface water quality samples and flows collected.
- **Kendrick Bay Delta:** no sampling was conducted during the September sampling event.
- **Ore Staging Area:** seven radon stations retrieved and shipped to lab.
- **Springs Sampling:** spring sampling performed at one location.

During the September sampling event 30 long-term radon detectors were retrieved, 16 surface and one ground water quality samples were collected, and additional radiological surveys were performed. Appendix D-1 includes field documentation from the September sampling event, including scanned copies of field logbooks. Appendix D-2 shows photographic logs from the September sampling event including radon station locations, surface water sampling, and other sampling that took place during the September sampling event. Appendix D-3 provides an assessment of the laboratory data generated during the September sampling event. Laboratory reports for analysis performed on samples from the September sampling event are provided in Appendix D-4.

During the third event, surface water samples were collected at 13 locations sampled during the June sampling event plus three additional locations; one groundwater (seep) sample was also collected. One duplicate surface water sample was generated. Table 3-3 provides a description of the surface water and seep locations, including coordinates, sampled during the three 2009 sampling events. The sampling locations, shown on Figure 3-1, were based on accessibility and flow conditions. Tables A-1a through A-1d provide a summary of the field measurements and laboratory analytical results of the water samples.

Radtrack® track-etch radon detectors were deployed across the Site during the June sampling event (Table 3-5, Table A-2 and Figure 3-2). The radon stations were left at the Site for approximately 3 months, being retrieved by field crew between September 23 and 25, 2009. The detectors were shipped to the Landauer laboratory in Glenwood, Illinois for analysis.

Vantage Pro2™ air monitoring stations were installed at each of the portals. These stations collected continuous temperature, wind, and barometric pressure at locations inside the portal, at the face of the portal, and recorded ambient temperature at a distance away from the portal influence.

Additional radiological surveys, using GPS-based gamma radiation scanners, were performed during the September sampling trip. Some of these scanning activities deviated from the original plan and are explained in further detail.

Deviations from Planned Activities

The SAP and QAPP specified sampling methods and activities to be completed at each of the sampling events during the ESI. Minor deviations in the sampling plan occurred due to a variety of factors including environmental conditions, accessibility issues, weather, unpredictable events, and safety concerns. This section explains the reasons for relevant deviations from the originally planned activities.

June Sampling Event

A summary of the planned sampling versus actual samples collected for the June sampling event is provided in Table A-8. Deviations noted on the table are explained below.

Thirteen surface water stations were collected which deviates from the proposed 18 sample locations. Three samples were not collected at the 700-Foot Level due to lack of water and two samples were not taken at the open pit because water, if present, was obscured by colluvium in the bottom of the pit.

Thirty-four radon stations were installed during the June sampling trip as close as feasible to originally planned locations. This was one more than the 33 stations originally planned. An additional radon station was installed upon the discovery of the air shaft south at the 900-Foot Level mine area.

The evaluation of XRF analysis was performed using a Niton XRF during the June sampling event. A total of 15 XRF analyses were performed during the June sampling event. The effectiveness of the XRF as a site-specific screening tool was evaluated after the sampling event. After a comparison of laboratory and field in-situ XRF measurements, it was determined the XRF could not be used for further analysis during the second and September sampling events. Although the actual number of correlation plot samples was the same as planned, the distribution of the samples was different due to sampling constraints (i.e., presence of a relatively flat, generally clear area possessing soil and with relatively consistent gamma signature).

Air temperature/flow monitoring outside the 900-Foot Level portal was not performed because of safety concerns. Temperature measurements were performed at the air shaft at the 900-Foot Level by lowering the probe from above.

July Sampling Event

A summary of the planned sampling versus actual samples collected for the July sampling event is provided in Table A-9. Deviations noted on the table are explained below.

Sixteen surface water stations were collected which deviates from the proposed 18 sample locations. Two samples were not taken at the open pit because water, if present, was obscured by colluvium in the bottom of the pit and samples were not collected at the 700-Foot Level because the planned sample locations were dry. However, two unplanned opportunistic samples were collected; one at the downstream end of the culvert at the 300-Foot Level and one in Kendrick Creek midway between the confluence with Cabin Creek and the 300-Foot Level.

Drive-point piezometers were to be installed during the July sampling event. The boulders and cobbles present in the shallow subsurface at all locations prevented the field crew from advancing the drive points deep enough to intercept alluvial groundwater, if present.

Stream sediment was collected at 13 of the planned 21 locations. Two of the planned samples at the open pit were not collected because water, if present, was obscured by colluvium. Samples were not collected at two 700-Foot Level locations because fine grained sediment was not present; two additional 700-Foot Level locations were not sampled because there was no water present. Sediment was not collected at two locations at the 300-Foot Level because fine grained sediment was not present.

An additional short-term radon detector was placed over the air shaft at the 900-Foot Level.

Because of the limitations of XRF technology as a field screening tool, a higher number of discrete soil samples than originally planned were collected. Eight samples collected in the OSA, when dried at the laboratory, possessed insufficient mass to allow all analyses to be completed. Based on their gamma signatures these eight discrete OSA samples were divided into 2 groups of 4 samples each; an equal mass from each sample was used to generate two composite samples, C1 and C2. An additional two soil samples were collected for gamma correlation purposes.

Air temperature measurements were not made at the mine portals due to access and high moisture, which damaged the temperature probes.

The following additional tasks, not included in the SAP, were performed:

1. Three 100 m² areas in the intertidal zone in the vicinity of the Loading Dock were established during low tide. With the aid of a gamma meter, the pieces of ore present at the surface were counted. The sizes of the pieces of ore were also measured.

2. An inventory of miscellaneous solid wastes, petroleum products, abandoned vehicles and other materials was initiated.

After review of the sample data collected during the June sampling event, adjustments to the analyte list for selected media were made as provided in Phase 2 of the ERA Work Plan (Appendix A, Tetra Tech, 2009b). The following adjustments were made:

The following 19 soil samples were analyzed for the full set of parameters indicated in Table 3-2:

- **900-Foot Level:** 900BT-17, 900BT-19, 900BT-21, 900BT-23, 900BT-25, 900BT-27, 900AT-8, 900AT-16, 900L-CORR-16, 900L-CORR-17
- **700-Foot Level:** 700T-6, 700T-4
- **300-Foot Level:** 300-9, 300-10, 300-13
- **OSA:** OSA-11, OSA-13, OSA-17, OSA-18

Due to insufficient mass of certain OSA samples following drying at the laboratory (samples were mostly comprised of light organic matter), composite samples were created in order to proceed with soil analyses. Sample C1 was a composite of equal masses taken from samples

OSA-2, OSA-8, OSA-10, and OSA-14. Sample C2 was a composite of equal masses taken from samples OSA-3, OSA-9, OSA-15, and OSA-16. The mass of each composite sub-sample was determined by the sample with the lowest sieved mass.

All other soil samples were initially analyzed for the following reduced suite of metals and radionuclides:

- **Metals:** Arsenic, Lead, Selenium, and Uranium
- **Radionuclides:** Bi-212, Bi-214, Pb-212, Ra-226, Ra-228, Th-228, Th-230, Th-232, Th-234, Tl-208, U-235, Pb-210, Pb-214 and Po-210

Surface Water

The following six surface water samples shall be analyzed for the full set of parameters indicated in Table 3-1:

- **Background:** 900L-SW-01B, 700L-SW-01A
- **300-Foot Level Portal:** 300L-SW-01E, 300L-SW-01C
- **Lower Kendrick Creek:** CONF-SW-01K, CONF-SW-01C

All other surface water samples were analyzed for the following reduced suite of metals and radionuclides:

- **Metals:** Aluminum, Cadmium, Copper, Mercury, Uranium and Zinc
- **Cations:** Calcium, Magnesium, Bicarbonate as, $CaCO_3$, Carbonate as, $CaCO_3$, Total Alkalinity, Chloride, Sulfate, Total Organic Carbon, TDS, TSS, pH, and specific conductivity
- **Radionuclides:** Ra-226, Ra-228, Pb-210 and Po-210

Stream Sediment Samples

The following seven stream sediment samples shall be analyzed for the full set of parameters indicated in Table 3-2:

- **Background:** 900L SS-01B
- **Upper Kendrick Creek:** 300L SS-01A
- **Middle Kendrick Creek:** CONF-SS-01-K2
- **Lower Kendrick Creek:** CONF SS-01K, CONF-SS-01C
- **Kendrick Creek Active Delta:** KBD-SS-01-A, KBD-SS-01-B

All other stream sediment samples were initially analyzed for the following reduced suite of metals and radionuclides:

- **Metals:** Arsenic, Lead, Selenium, and Uranium
- **Radionuclides:** Bi-212, Bi-214, Pb-212, Ra-226, Ra-228, Th-228, Th-230, Th-232, Th-234, Tl-208, U-235, Pb-210, Pb-214 and Po-210

Marine Sediment Samples

The following twelve marine sediment samples were analyzed for the full set of parameters indicated in Table 3-2:

- **Intertidal:** KBD/MS/01/Q, KBD/MS/01/AA, KBD/MS/01/BB, KBD/MS/01/T, KBD/MS/01/EE, KBD/MS/01/FF
- **Subtidal:** KBD/MS/01/I, KBD/MS/01/D, KBD/MS/01/G, KBD/MS/01/C, KBD/MS/01/H, KBD/MS/01/E

All other marine sediment samples were initially analyzed for the following reduced suite of metals and radionuclides:

- **Metals:** Arsenic, Lead, Selenium, and Uranium
- **Radionuclides:** Bi-212, Bi-214, Pb-212, Ra-226, Ra-228, Th-228, Th-230, Th-232, Th-234, Tl-208, U-235, Pb-210, Pb-214 and Po-210

As described above, selected soil, stream sediment, and marine sediment samples collected in July 2009 were analyzed for the full suite of 21 metals, with the laboratory reporting arsenic, lead, selenium, and uranium for all samples. At the time of the original analysis, the laboratory analyzed all soil, stream sediment, and marine sediment samples by EPA Method 6010 (ICP). To provide a more complete dataset, the laboratory was requested in August 2010 to report the additional Method 6010 metal parameters from the original analysis where the Method 6010 method detection limits were appropriate for characterization and statistical evaluation. The remaining metal parameters for the samples were reported by the laboratory, except for antimony, mercury, silver and thallium where the Method 6010 method detection limits were too high to provide useful data.

September Sampling Event

A summary of the planned sampling versus actual samples collected for the September sampling event is provided in Table A-10. Deviations noted on the table are explained below.

Sixteen surface water stations were collected which deviates from the proposed 18 sample locations. Two samples were not collected at the 700-Foot Level because the planned sample locations were dry.

Limited gamma scanning was performed to further characterize the background conditions in different areas of the Site. In addition, limited additional analysis was performed at the 700-Foot Level, the open pit and the OSA using a dual tungsten shielded gamma detector and a non-shielded gamma detector.

Due to moisture issues associated with the mine portal conditions, the ambient air temperature measurement instruments used during the June sampling event failed during the second event. Vantage Pro2™ air monitoring stations were installed during the September sampling trip at each of the portals. These stations collected continuous temperature, wind, and barometric pressure at locations inside the portal, at the face of the portal, and recorded ambient temperature a significant distance away from the portal influence. Wind measurements were not collected at the 900-Foot Level in the open pit because of safety concerns related to the instability and slope of the portal entrance.

The unplanned inventory of miscellaneous solid wastes, petroleum products, abandoned vehicles and other materials which began during the second event was completed. This included a brief tour of the Site with Susan Dotson.

References

Tetra Tech, Inc., 2009a. Site Safety and Health Plan, prepared for Newmont USA Ltd., June 5.

Tetra Tech, Inc., 2009b. Sampling and Analysis Plan, prepared for Newmont USA Ltd., June 5.

Table A-1a. Surface Water Sample Results, Field Parameters

Sample ID	Date	Field Parameters						
		Flow Rate (cfs)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg. C)	Redox mV
300L/SW/01/A	6/9/2009	0.26	6.18	0.036	20	11.6	10.9	175
	7/26/2009	1.24	5.85	0.027	18	11.4	13.0	254
	9/22/2009	14.8	5.09	0.022	5.2	12.3	11.1	163
300L/SW/01/B	6/9/2009	0.02	5.03	0.033	4.0	10.8	9.7	243
	7/26/2009	0.19	6.24	0.031	24	11.1	12.0	228
	9/22/2009	4.8	5.76	0.025	4.5	12.2	10.7	145
300L/SW/01/C	6/9/2009	0.07	6.32	0.038	7.0	11.4	9.1	216
	7/26/2009	0.09	6.19	0.035	12	10.7	11.7	223
	9/22/2009	6.4	5.56	0.019	3.1	11.8	11.6	166
300L/SW/01/D	6/10/2009	0.3	6.22	0.026	0.0	10.2	11.9	159
	7/26/2009	2 to 2.5	6.63	0.022	1.0	9.3	17.7	188
	9/22/2009	2.6	5.27	0.018	8.4	13.2	11.1	192
300L/SW/01/E	6/10/2009	0.04	6.58	0.138	10	11.6	7.4	205
	7/26/2009	0.04	6.85	0.097	12	11.8	9.4	209
	9/23/2009	0.2	6.60	0.043	2.4	12.8	9.6	127
300L-SW-01-F	-							
	7/26/2009	1.5 to 2	6.14	0.027	0.0	9.8	16.0	227
	-							
700L/SW/01/A	6/15/2009	0.15	NM	NM	NM	NM	NM	NM
	7/27/2009	<1	NM	NM	NM	NM	NM	NM
	9/23/2009	0.5 to 1	NM	NM	NM	NM	NM	NM
700L-SW-01-B	-							
	7/28/2009	0.05	5.97	0.034	9.0	9.8	16.8	98
	9/24/2009	0.02	5.56	0.020	0.1	11.9	10.7	146
900L/SW/01/A	6/10/2009	0.15	4.71	0.022	0.0	9.3	15.9	253
	7/27/2009	0.27	4.72	0.023	42	9.3	17.8	239
	9/23/2009	1.6	5.46	0.019	5.9	12.7	10.4	177

Table A-1a. Surface Water Sample Results, Field Parameters (continued)

Sample ID	Date	Field Parameters						
		Flow Rate (cfs)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg. C)	Redox mV
900L/SW/01/B	6/11/2009	0.01	5.68	0.023	7.0	12.5	5.8	225
	7/27/2009	0.07	4.40	0.022	22	12.8	8.6	30.8
	9/23/2009	0.3	5.16	0.019	0.05	12.4	9.7	193
900L/SW/01/C	6/10/2009	0.08	6.20	0.020	0.0	9.2	18.9	220
	7/27/2009	0.05	5.49	0.020	0.0	8.9	22.3	154
	9/23/2009	0.5	5.22	0.023	13.5	12.9	9.9	211
900L/SW/01/D	6/11/2009	0.16	5.63	0.022	0.0	10.2	12.2	210
	7/27/2009	0.2	5.05	0.024	5.0	8.5	20.5	238
	9/24/2009	1.4	5.83	0.020	0.0	12.3	10.3	174
900L/SW/01/E	9/24/2009	0.004	5.29	0.028	4.2	13.3	9.4	184
900L/SW/01/F	9/24/2009	0.005	5.47	0.028	0.9	12.5	9.9	175
CONF/SW/01/C	6/8/2009	0.21	6.37	0.051	0.0	10.5	12.4	154
	7/25/2009	1.95	6.45	0.037	12	11.4	12.9	189
	9/21/2009	26.7	5.93	0.030	0.0	11.5	10.8	146
CONF/SW/01/K	6/9/2009	0.65	6.03	0.038	8.0	11.3	9.6	201
	7/25/2009	3.32	6.56	0.034	12	11.2	12.1	213
	9/21/2009	42.8	6.80	0.030	0.0	11.7	10.5	123
CONF-SW-01-K-2	-							
	7/26/2009	2.41	6.11	0.039	2.0	10.9	11.8	182
	-							
CONF/SW/01/KC	6/8/2009	1.38	6.20	0.045	5.0	10.7	10.8	213
	7/25/2009	7.66	6.04	0.034	11	11.4	12.3	195
	9/21/2009	16.2	5.76	0.330	0.0	11.6	10.6	163
SPR/SW/01/A	6/11/2009	n/a	5.01	0.037	0.0	7.5	13.0	260
	7/28/2009	n/a	5.40	0.040	39	8.6	15.2	200
	9/22/2009	0.1	5.45	0.038	0.4	11.7	12.2	203

Table A-1b. Surface Water Sample Results, Major Cations, Anions and Miscellaneous Parameters

Sample ID	Lab IDs	Date	Laboratory Parameters – Major Cations, Anions, and Miscellaneous													
			Calcium (Diss.) (mg/L)		Magnesium (Diss.) (mg/L)		Potassium (Diss.) (mg/L)		Sodium (Diss.) (mg/L)		Calculated Hardness (mg/L as CaCO3)	Bicarbonate as CaCO3 (mg/L)		Carbonate as CaCO3 (mg/L)		Total Alkalinity as CaCO3 (mg/L)	
			Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Conc.	Qual	Conc.	Qual	Conc.	Qual
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	2.5		1	U	1	U	2.2		10.35	7.1		5	U	7.1	
	0908003-7; 0908003-17	7/26/2009	1.3		0.27	B					4.357	5.7		5	U	5.7	
	0909293-5; 0909293-14	9/22/2009	0.58	B	1	U						5	U	5	U	5	U
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	1.9		1	U	1	U	2		8.85	5.9		5	U	5.9	
	0908003-8; 0908003-18	7/26/2009	1.5		0.29	B					4.939	5.4		5	U	5.4	
	0909293-6; 0909293-15	9/22/2009	1		1	U						5	U	5	U	5	U
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	1.8		1	U	1	U	2		8.6	5.2		5	U	5.2	
	0908003-4; 0908003-14	7/26/2009	1.4		1	U	1	U	2.4		7.6	5.7		5	U	5.7	
	0909293-7; 0909293-16	9/22/2009	0.39	B	1	U						5	U	5	U	5	U
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	1	U	1	U	1	U	1.9		6.6	5	U	5	U	5	U
	0908003-6; 0908003-16	7/26/2009	0.48	B	0.18	B					1.938	5	U	5	U	5	U
	0909293-17; 0909294-1	9/22/2009	3.7		1	U						5	U	5	U	5	U
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	18		1.2		1	U	4.9		49.92	41		5	U	41	
	0908003-5; 0908003-15	7/26/2009	11		1	U	1	U	3.7		31.6	28		5	U	28	
	0909293-8; 0909294-10	9/23/2009	1	U	1	U					6.6	7.1		5	U	7.1	
300L-SW-01-F		NM															
	0908003-9; 0908003-19	7/26/2009	1.3		0.24	B					4.234	5.4		5	U	5.4	
		NM															

Table A-1b. Surface Water Sample Results, Major Cations, Anions and Miscellaneous Parameters (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters – Major Cations, Anions, and Miscellaneous													
			Calcium (Diss.) (mg/L)		Magnesium (Diss.) (mg/L)		Potassium (Diss.) (mg/L)		Sodium (Diss.) (mg/L)		Calculated Hardness (mg/L as CaCO3)	Bicarbonate as CaCO3 (mg/L)		Carbonate as CaCO3 (mg/L)		Total Alkalinity as CaCO3 (mg/L)	
			Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Conc.	Qual	Conc.	Qual	Conc.	Qual
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	2		1	U	1	U	2		9.1	5.4		5	U	5.4	
	0908003-10; 0908003-20	7/27/2009	1.7		1	U	1	U	1.9		8.35	5.3		5	U	5.3	
	0909293-9; 0909293-18	9/23/2009	1.4		1	U						5	U	5	U	5	U
700L-SW-01-B		NM															
	0908004-2; 0908004-12	7/28/2009	0.83	B	0.28	B					3.223	5.9		5	U	5.9	
	0909294-9; 0909294-18	9/24/2009	0.51	B	1	U						5	U	5	U	5	U
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	1	U	1	U	1	U	1.7		6.6	5	U	5	U	5	U
	0908004-4; 0908004-14	7/27/2009	0.35	B	0.17	B					1.572	5	U	5	U	5	U
	0909294-2; 0909294-11	9/23/2009	1	U	1	U						5	U	5	U	5	U
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	1	U	1	U	1	U	1.7		6.6	5	U	5	U	5	U
	0908004-6; 0908004-16	7/27/2009	1	U	1	U	1	U	1.9		6.6	5	U	5	U	5	U
	0909294-4; 0909294-13	9/23/2009	1	U	1	U					6.6	5	U	5	U	5	U
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	1	U	1	U	1	U	1.5		6.6	5	U	5	U	5	U
	0908004-1; 0908004-11	7/27/2009	0.27	B	0.14	B					1.249	5	U	5	U	5	U
	0909294-5; 0909294-15	9/23/2009	1	U	1	U					6.6	5	U	5	U	5	U
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	1	U	1	U	1	U	1.8		6.6	5	U	5	U	5	U
	0908004-7; 0908004-17	7/27/2009	0.41	B	0.17	B					1.722	5	U	5	U	5	U
	0909294-6; 0909294-14	9/24/2009	1	U	1	U					6.6	5	U	5	U	5	U
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009	1	U, J	1	U	1	U	1.5	J	6.6	5	U	5	U	5	U
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009	1.5		1	U	1	U	1.4		7.85	5	U	5	U	5	U

Table A-1b. Surface Water Sample Results, Major Cations, Anions and Miscellaneous Parameters (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters – Major Cations, Anions, and Miscellaneous															
			Calcium (Diss.) (mg/L)		Magnesium (Diss.) (mg/L)		Potassium (Diss.) (mg/L)		Sodium (Diss.) (mg/L)		Calculated Hardness (mg/L as CaCO3)	Bicarbonate as CaCO3 (mg/L)		Carbonate as CaCO3 (mg/L)		Total Alkalinity as CaCO3 (mg/L)	
			Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Conc.	Qual	Conc.	Qual	Conc.	Qual
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	3.4		1	U	1	U	3.1		12.6	11		5	U	11	
	0908003-2; 0908003-12	7/25/2009	2.1		1	U	1	U	2.6		9.35	8.2		5		8.2	
	0909293-2; 0909293-11	9/21/2009	1.1		0.27	B						5	U	5	U	5	U
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	2.2		1	U	1	U	2.4		9.6	7.2		5	U	7.2	
	0908003-3; 0908003-13	7/25/2009	1.8		1	U	1	U	2.2		8.6	7.3		5	U	7.3	
	0909293-3; 0909293-13	9/21/2009	1.3		1	U						5	U	5	U	5	U
CONF-SW-01-K-2		NM															
	0908004-9; 0908004-10	7/26/2009	1.9		0.38	B					6.308	7.3		5	U	7.3	
		NM															
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	2.4		1	U, J	1	U	2.6	J	10.1	7.6		5	U	7.6	
	0908003-1; 0908003-11	7/25/2009	1.9		0.38	B, J					6.308	7.2		5	U	7.2	
	0909293-1; 0909293-10	9/21/2009	1.2		1	U						5	U	5	U	5	U
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	1	U	1	U	1	U	3.4			5	U	5	U	5	U
	0908004-3; 0908004-13	7/28/2009	1	U	1	U	1	U	3.6			5	U	5	U	5	U
	0909293-4; 0909293-14	9/22/2009	0.4	B	1	U						5	U	5	U	5	U
Field QC																	
900L/SW/01/B(DUP)	0906140-23; 0906140-24	6/11/2009	1	U	1	U	1	U	1.7		6.6	5	U	5	U	5	U
900L-SW-02-A	0908004-5; 0908004-15	7/27/2009	0.35	B	0.17	B					1.572	5	U	5	U	5	U
	909294-3; 0909294-12	9/23/2009	1	U	1	U						5	U	5	U	5	U
VV-Rinsate	0908004-8	7/28/2009															

Qualifier Descriptions

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

J The result is an estimated quantity. A J+ or J- is used to indicate a high or low bias

Table A-1b. Surface Water Sample Results, Major Cations, Anions and Miscellaneous Parameters (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters – Major Cations, Anions, and Miscellaneous													
			Chloride (Total) (mg/L)		Sulfate (Total) (mg/L)		Total Organic Carbon (mg/L)		Total Dissolved Solids (mg/L)		Total Suspended Solids (mg/L)		pH		Specific Conductance (uS/cm)	
			Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	2.8		2.5		1.9		20	U	4	U	6.83		24.9	
	0908003-7; 0908003-17	7/26/2009	2.3		1.9		2.6		20	U	4	U	6.54		14.1	
	0909293-5; 0909293-14	9/22/2009	1.7		1		3		20	U	4	U	6.38		1.15	
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	2.8		2.4		2.1		20	U	4	U	6.5		11.2	
	0908003-8; 0908003-18	7/26/2009	3.1		6.2		2.5		20	U	4	U	6.61		20.5	
	0909293-6; 0909293-15	9/22/2009	1.7		1.3		3.2		20	U	4	U	6.61		1.67	
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	2.8		2.3		1.8		20	U	4	U	6.44		6.68	
	0908003-4; 0908003-14	7/26/2009	2.4		2.2		2.5		20	U	4	U	6.32		3.15	
	0909293-7; 0909293-16	9/22/2009	1.6		1		3.1		20	U	4	U	6.35		0.534	
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	2.6		1.3		2		20	U	4	U	6.52		4.51	
	0908003-6; 0908003-16	7/26/2009	2.3		1.4		2.7		20	U	4	U	6.42		9.84	
	0909293-17; 0909294-1	9/22/2009	1.9		1	U	2.6		20	U	4	U	6.48		3.73	
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	3.8		9.4		1.2		66		4	U	7.69		104	
	0908003-5; 0908003-15	7/26/2009	2.8		7.1		1.6		51		4	U	7.56		77.5	
	0909293-8; 0909294-10	9/23/2009	1.8		2.7		1.5		20	U	4	U	7.35		7.26	
300L-SW-01-F		NM														
	0908003-9; 0908003-19	7/26/2009	2.2		1.9		3.7		20	U	4	U	6.63		12.9	
		NM														
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	2.9		2.3		1.8		20	U	4	U	6.34		16.1	
	0908003-10; 0908003-20	7/27/2009	2.4		2.3		2.4		20	U	4	U	6.37		24	
	0909293-9; 0909293-18	9/23/2009	2		1.6		2.1		20	U	4	U	6.85		2.5	

Table A-1b. Surface Water Sample Results, Major Cations, Anions and Miscellaneous Parameters (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters – Major Cations, Anions, and Miscellaneous													
			Chloride (Total) (mg/L)		Sulfate (Total) (mg/L)		Total Organic Carbon (mg/L)		Total Dissolved Solids (mg/L)		Total Suspended Solids (mg/L)		pH		Specific Conductance (uS/cm)	
			Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
		NM														
700L-SW-01-B	0908004-2; 0908004-12	7/28/2009	2.5		1.7		3.2		20	U	4	U	6.28		11.1	
	0909294-9; 0909294-18	9/24/2009	2.5		1.1		2.7		20	U	4	U	6.31		5.09	
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	2.4		1.1		2		20	U	4	U	6.42		5.96	
	0908004-4; 0908004-14	7/27/2009	2.2		1.3		2.3		20	U	4	U	6.29		8.59	
	0909294-2; 0909294-11	9/23/2009	1.8		1	U	2.2		20	U	4	U	6.11		5.15	
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	2.4		1.3		1.6		20	U	4	U	5.86		3.49	
	0908004-6; 0908004-16	7/27/2009	2.2		1.1		1.8		20	U	4	U	5.95		7.76	
	0909294-4; 0909294-13	9/23/2009	1.7		1		1.8		20	U	4	U	6.06		5.31	
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	1.7		1		2.8		20	U	4	U	6.24		2.1	
	0908004-1; 0908004-11	7/27/2009	2.1		1.4		4.3		20	U	4	U	6.44		6.76	
	0909294-5; 0909294-15	9/23/2009	2		1	U	2.4		20	U	4	U	6.07		5.94	
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	2.3		1.1		1.9		20	U	4	U	6.12		3.29	
	0908004-7; 0908004-17	7/27/2009	2.3		1.3		2.6		20	U	4	U	6.16		9.46	
	0909294-6; 0909294-14	9/24/2009	3		1	U	2.1		20	U	4	U	5.9		4.69	
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009	2.2		1.3		1.2		20	U	4	U	6.22		8.24	
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009	2.4		1.9		1	U	20	U	4	U	6.65		9.2	
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	4.5		2.4		2.5		21		4	U	6.98		35.7	
	0908003-2; 0908003-12	7/25/2009	3.2		1.7		7.5		27		4	U	6.79		18.7	
	0909293-2; 0909293-11	9/21/2009	2.7		1.1		6		20	U	4	U	6.59		2.98	

Table A-1b. Surface Water Sample Results, Major Cations, Anions and Miscellaneous Parameters (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters – Major Cations, Anions, and Miscellaneous													
			Chloride (Total) (mg/L)		Sulfate (Total) (mg/L)		Total Organic Carbon (mg/L)		Total Dissolved Solids (mg/L)		Total Suspended Solids (mg/L)		pH		Specific Conductance (µS/cm)	
			Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	3.4		2.4		2.2		20	U	4	U	6.85		28.8	
	0908003-3; 0908003-13	7/25/2009	2.6		1.9		4		21		4	U	6.74		22.5	
	0909293-3; 0909293-13	9/21/2009	2.4		1.3		3.9		20	U	4	U	6.78		2.48	
CONF-SW-01-K-2		NM														
	0908004-9; 0908004-10	7/26/2009	2.9		2		3.6		31		4	U	6.85		23.9	
		NM														
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	3.8		2.5		2.2		20	U	4	U	6.79		31	
	0908003-1; 0908003-11	7/25/2009	2.9		1.9		6		20	U	4	U	6.88		25.5	
	0909293-1; 0909293-10	9/21/2009	2.9		1.3		4.8		20	U	4	U	6.84		2.94	
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	5.5		1	U	9.4		27		4	U	5.74		20.4	
	0908004-3; 0908004-13	7/28/2009	5		1.9				44				5.66		29.4	
	0909293-4; 0909293-14	9/22/2009	3.1		1	U	11		22		4	U	5.33		2.55	
Field QC																
900L/SW/01/B(DUP)	0906140-23; 0906140-24	6/11/2009	2.4		1.2		1.4		20	U	4	U	5.88		3.47	
900L-SW-02-A	0908004-5; 0908004-15	7/27/2009	2.3		1.3		2.1		20	U	4	U	6.29		7.77	
	909294-3; 0909294-12	9/23/2009	1.8		1	U	2.2		20	U	4	U	6.07		4.32	
VV-Rinsate	0908004-8	7/28/2009											6.08			

Qualifier Descriptions

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

J The result is an estimated quantity. A J+ or J- is used to indicate a high or low bias

Table A-1c. Surface Water Sample Results, Metals

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Al (Total) (mg/L)		Al (Diss.) (mg/L)		Sb (Total) (mg/L)		Sb (Diss.) (mg/L)		As (Total) (mg/L)		As (Diss.) (mg/L)		Ba (Total) (mg/L)		Ba (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	0.069	B	0.2	U	0.00003	U	0.0000084	B	0.01	U	0.01	U	0.0048		0.0049	
	0908003-7; 0908003-17	7/26/2009	0.11	B	0.095	B												
	0909293-5; 0909293-14	9/22/2009	0.15	B	0.2	U												
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	0.077	B	0.2	U	0.00003	U	0.0000083	B	0.01	U	0.01	U	0.0062		0.0062	
	0908003-8; 0908003-18	7/26/2009	0.11	B	0.098	B												
	0909293-6; 0909293-15	9/22/2009	0.15	B	0.2	U												
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	0.091	B	0.2	U	0.00003	U	0.00003	U	0.01	U	0.01	U	0.0058	J	0.0056	
	0908003-4; 0908003-14	7/26/2009	0.13	B	0.2	U	0.0003	U	0.0003	U	0.01	U	0.01	U	0.0043		0.0044	
	0909293-7; 0909293-16	9/22/2009	0.15	B	0.2	U												
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	0.073	B	0.2	U	0.00003	U	0.00003	U	0.01	U	0.01	U	0.0016		0.0015	
	0908003-6; 0908003-16	7/26/2009	0.092	B	0.078	B												
	0909293-17; 0909294-1	9/22/2009	0.14	B	0.2	U												
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	0.049	B	0.2	U	0.000019	B	0.000021	B	0.01	U	0.01	U	0.028		0.029	
	0908003-5; 0908003-15	7/26/2009	0.061	B	0.2	U	0.0003	U	0.00027	B	0.01	U	0.01	U	0.021		0.02	
	0909293-8; 0909294-10	9/23/2009	0.083	B	0.2	U												
300L/SW/01/F		NM																
	0908003-9; 0908003-19	7/26/2009	0.095	B	0.087	B												
		NM																
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	0.2	U, J	0.2	U,J	0.0000082	B	0.00003	U	0.01	U	0.01	U	0.0087		0.0085	
	0908003-10; 0908003-20	7/27/2009	0.18	B	0.2	U	0.00017	B	0.00019	B	0.01	U	0.01	U	0.0071		0.0065	
	0909293-9; 0909293-18	9/23/2009	0.12	B	0.2	U												

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Al (Total) (mg/L)		Al (Diss.) (mg/L)		Sb (Total) (mg/L)		Sb (Diss.) (mg/L)		As (Total) (mg/L)		As (Diss.) (mg/L)		Ba (Total) (mg/L)		Ba (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
700L/SW/01/B		NM																
	0908004-2; 0908004-12	7/28/2009	0.1	B	0.12	B												
	0909294-9; 0909294-18	9/24/2009	0.16	B	0.2	U												
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	0.097	B	0.2	U	0.00003	U	0.00003	U	0.01	U	0.01	U	0.0019		0.0019	
	0908004-4; 0908004-14	7/27/2009	0.088	B	0.1	B												
	0909294-2; 0909294-11	9/23/2009	0.13	B	0.2	U												
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	0.2	U, J	0.2	U,J	0.00003	U	0.00003	U	0.01	U	0.01	U	0.0027	J	0.0025	
	0908004-6; 0908004-16	7/27/2009	0.12	B	0.2	U	0.0003	U	0.0003	U	0.01	U	0.01	U	0.0028		0.0026	
	0909294-4; 0909294-13	9/23/2009	0.16	B	0.2	U												
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	0.071	B	0.2	U	0.00003	U	0.0000092	B	0.01	U	0.01	U	0.0012		0.0011	
	0908004-1; 0908004-11	7/27/2009	0.071	B	0.1	B												
	0909294-5; 0909294-15	9/23/2009	0.15	B	0.2	U												
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	0.2	U, J	0.2	U,J	0.00003	U	0.00003	U	0.01	U	0.01	U	0.0017		0.0017	
	0908004-7; 0908004-17	7/27/2009	0.085	B	0.1	B												
	0909294-6; 0909294-14	9/24/2009	0.13	B	0.2	U												
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009	0.23		0.2	U	0.0003	U	0.0003	U	0.01	U	0.01	U	0.0087		0.0087	
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009	0.19	B	0.2	U	0.0003	U	0.0003	U	0.01	U	0.0022	B	0.013		0.013	
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	0.052	B	0.2	U	0.00003	U	0.00003	U	0.01	U	0.01	U	0.0018		0.0018	
	0908003-2; 0908003-12	7/25/2009	0.18	B	0.2	U	0.000092	B	0.000088	B	0.01	U	0.01	U	0.0014		0.0013	
	0909293-2; 0909293-11	9/21/2009	0.18	B	0.2	U												

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Al (Total) (mg/L)		Al (Diss.) (mg/L)		Sb (Total) (mg/L)		Sb (Diss.) (mg/L)		As (Total) (mg/L)		As (Diss.) (mg/L)		Ba (Total) (mg/L)		Ba (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	0.044	B	0.2	U	0.000012	B	0.0000088	B	0.01	U	0.01	U	0.0048		0.0047	
	0908003-3; 0908003-13	7/25/2009	0.13	B	0.2	U	0.0003	U	0.0003	U	0.01	U	0.01	U	0.004		0.0037	
	0909293-3; 0909293-13	9/21/2009	0.15	B	0.2	U												
CONF/SW/01/K-2		NM																
	0908004-9; 0908004-10	7/26/2009	0.1	B	0.095	B												
		NM																
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	0.042	B	0.2	U	0.000013	B	0.000029	B	0.01	U	0.01	U	0.0044	J	0.004	
	0908003-1; 0908003-11	7/25/2009	0.15	B	0.14	B												
	0909293-1; 0909293-10	9/21/2009	0.17	B	0.2	U												
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	0.2	U, J	0.2	U,J	0.00003	U	0.0000084	B	0.01	U	0.01	U	0.00061		0.00058	
	0908004-3; 0908004-13	7/28/2009			0.2	U			0.0003	U			0.01	U			0.00069	B
		9/22/2009	0.27		0.24													
Field QC																		
900L/SW/01/B(DUP)	0906140-23; 0906140-24	6/11/2009	0.2	U, J	0.2	U,J	0.00003	U	0.00003	U	0.01	U	0.01	U	0.0025		0.0026	
900L/SW/02/A	0908004-5; 0908004-15	7/27/2009	0.087	B	0.098	B												
	909294-3; 0909294-12	9/23/2009	0.14	B	0.2	U												
VV-Rinsate	0908004-8	7/28/2009	0.019	B			0.0003	U			0.01	U			0.0003	B		

Qualifier Descriptions

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

J The result is an estimated quantity. A J+ or J- is used to indicate a high or low bias

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Be (Total) (mg/L)		Be (Diss.) (mg/L)		Cd (Total) (mg/L)		Cd (Diss.) (mg/L)		Cr (Total) (mg/L)		Cr (Diss.) (mg/L)		Co (Total) (mg/L)		Co (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	0.000051	B	0.000054	B	0.00004		0.000023	B	0.001	U	0.001	U	0.000025	B	0.000033	B
	0908003-7; 0908003-17	7/26/2009					0.000033	B	0.000023	B								
	0909293-5; 0909293-14	9/22/2009					0.00005	B	0.0003	U								
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	0.000024	B	0.00002	B	0.000015	B	0.000016	B	0.001	U	0.001	U	0.000036	B	0.000035	B
	0908003-8; 0908003-18	7/26/2009					0.000032	B	0.000025	B								
	0909293-6; 0909293-15	9/22/2009					0.000052	B	0.0003	U								
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	0.000047	B	0.000047	B	0.000026	B	0.000023	B	0.001	U	0.001	U	0.000049	B	0.000043	B
	0908003-4; 0908003-14	7/26/2009	0.00016	B	0.00015	B	0.000035	B	0.000032	B	0.01	U	0.00035	B	0.001	U	0.001	U
	0909293-7; 0909293-16	9/22/2009					0.000058	B	0.0003	U								
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	0.000072	B	0.000057	B	0.000023	B	0.000028	B	0.001	U	0.001	U	0.000029	B	0.000025	B
	0908003-6; 0908003-16	7/26/2009					0.000039	B	0.00003	B								
	0909293-17; 0909294-1	9/22/2009					0.000053	B	0.0003	U								
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	0.00017	B	0.0002	B	0.000075		0.000074		0.001	U	0.001	U	0.00013		0.00013	
	0908003-5; 0908003-15	7/26/2009	0.00017	B	0.00019	B	0.000041	B	0.000045	B	0.01	U	0.00064	B	0.001	U	0.00029	B
	0909293-8; 0909294-10	9/23/2009					0.000068	B	0.0003	U								
300L/SW/01/F		NM																
	0908003-9; 0908003-19	7/26/2009					0.000023	B	0.000028	B								
		NM																
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	0.000035	B	0.000034	B	0.000043		0.000034		0.001	U	0.001	U	0.00005	B	0.000054	B
	0908003-10; 0908003-20	7/27/2009	0.00016	B	0.00015	B	0.000033	B	0.000033	B	0.00045	B	0.00053	B	0.001	U	0.001	U
	0909293-9; 0909293-18	9/23/2009					0.00012	B	0.0003	U								

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Be (Total) (mg/L)		Be (Diss.) (mg/L)		Cd (Total) (mg/L)		Cd (Diss.) (mg/L)		Cr (Total) (mg/L)		Cr (Diss.) (mg/L)		Co (Total) (mg/L)		Co (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
700L/SW/01/B		NM																
	0908004-2; 0908004-12	7/28/2009					0.000053	B	0.000057	B								
	0909294-9; 0909294-18	9/24/2009					0.000048	B	0.0003	U								
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	0.00017	B	0.00017	B	0.000038		0.000044		0.001	U	0.001	U	0.00002	B	0.000031	B
	0908004-4; 0908004-14	7/27/2009					0.000039	B	0.000036	B								
	0909294-2; 0909294-11	9/23/2009					0.000044	B	0.0003	U								
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	0.00023	B	0.00018	B	0.000061		0.000059		0.001	U	0.001	U	0.00004	B	0.000032	B
	0908004-6; 0908004-16	7/27/2009	0.003	U	0.00022	B	0.000049	B	0.000035	B	0.01	U	0.01	U	0.00019	B	0.00019	B
	0909294-4; 0909294-13	9/23/2009					0.000048	B	0.0003	U								
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	0.00024	B	0.0002	B	0.000034		0.000046		0.001	U	0.001	U	0.000035	B	0.000037	B
	0908004-1; 0908004-11	7/27/2009					0.000033	B	0.00004	B								
	0909294-5; 0909294-15	9/23/2009					0.000046	B	0.0003	U								
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	0.00018	B	0.00015	B	0.000046		0.00004		0.001	U	0.001	U	0.000026	B	0.000028	B
	0908004-7; 0908004-17	7/27/2009					0.000029	B	0.000039	B								
	0909294-6; 0909294-14	9/24/2009					0.000048	B	0.0003	U								
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009	0.00028	B	0.003	U	0.000061	B	0.0003	U	0.01	U	0.01	U	0.001	U	0.001	U
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009	0.0003	B	0.003	U	0.000074	B	0.0003	U	0.01	U	0.01	U	0.001	U	0.001	U
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	0.0003	U	0.0003	U	0.0000051	B	0.0000049	B	0.001	U	0.001	U	0.00005	B	0.000044	B
	0908003-2; 0908003-12	7/25/2009	0.00015	B	0.00013	B	0.000026	B	0.000024	B	0.01	U	0.00032	B	0.001	U	0.001	U
	0909293-2; 0909293-11	9/21/2009					0.000045	B	0.0003	U								

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Be (Total) (mg/L)		Be (Diss.) (mg/L)		Cd (Total) (mg/L)		Cd (Diss.) (mg/L)		Cr (Total) (mg/L)		Cr (Diss.) (mg/L)		Co (Total) (mg/L)		Co (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	0.000021	B	0.000019	B	0.000014	B	0.000015	B	0.001	U	0.001	U	0.000035	B	0.000027	B
	0908003-3; 0908003-13	7/25/2009	0.00018	B	0.00013	B	0.000031	B	0.000021	B	0.00035	B	0.00035	B	0.001	U	0.001	U
	0909293-3; 0909293-13	9/21/2009					0.000056	B	0.0003	U								
CONF/SW/01/K-2		NM																
	0908004-9; 0908004-10	7/26/2009					0.000042	B	0.00004	B								
		NM																
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	0.000023	B	0.000019	B	0.000014	B	0.000014	B	0.001	U	0.001	U	0.000057	B	0.000041	B
	0908003-1; 0908003-11	7/25/2009					0.000035	B	0.000022	B								
	0909293-1; 0909293-10	9/21/2009					0.000055	B	0.0003	U								
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	0.0003	U	0.0003	U	0.000006	B	0.0000058	B	0.001	U	0.001	U	0.00013		0.00012	
	0908004-3; 0908004-13	7/28/2009			0.00012	B	0.00003	B	0.000026	B			0.0015	B			0.00025	B
		9/22/2009					0.000036	B	0.0003	U								
Field QC																		
900L/SW/01/B(DUP)	0906140-23; 0906140-24	6/11/2009	0.00022	B	0.00023	B	0.000052		0.000055		0.001	U	0.001	U	0.0001	U	0.000023	B
900L/SW/02/A	0908004-5; 0908004-15	7/27/2009					0.000043	B	0.00004	B								
	909294-3; 0909294-12	9/23/2009					0.000049	B	0.0003	U								
VV-Rinsate	0908004-8	7/28/2009	0.003	U			0.000037	B			0.0018	B			0.00025	B		

Qualifier Descriptions

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

J The result is an estimated quantity. A J+ or J- is used to indicate a high or low bias

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters													
			Cu (Total) (mg/L)		Cu (Diss.) (mg/L)		Fe (Total) (mg/L)		Fe (Diss.) (mg/L)		Pb (Total) (mg/L)		Pb (Diss.) (mg/L)		Mn (Total) (mg/L)		Mn (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	0.00023	B	0.00024	B	0.021	B	0.0076	B	0.000072		0.000053		0.0033	B	0.0022	B
	0908003-7; 0908003-17	7/26/2009	0.003	U	0.003	U												
	0909293-5; 0909293-14	9/22/2009	0.0005	B	0.00047	B												
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	0.00032	B	0.00031		0.027	B	0.033	B	0.000053		0.000095		0.0013	B	0.0013	B
	0908003-8; 0908003-18	7/26/2009	0.00035	B	0.003	U												
	0909293-6; 0909293-15	9/22/2009	0.00047	B	0.00045	B												
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	0.00028	B	0.00036		0.0081	B	0.0073	B	0.000055		0.0001	U	0.0009	B	0.01	U
	0908003-4; 0908003-14	7/26/2009	0.003	U	0.003	U	0.015	B	0.0056	B	0.00013	B	0.000058	B	0.0018	B	0.01	U
	0909293-7; 0909293-16	9/22/2009	0.003	U	0.003	U												
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	0.00015	B	0.00015	B	0.025	B	0.035	B	0.000068		0.00005		0.0014	B	0.00029	B
	0908003-6; 0908003-16	7/26/2009	0.003	U	0.003	U												
	0909293-17; 0909294-1	9/22/2009	0.003	U	0.00076	B												
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	0.00043		0.00046		0.01	U	0.039	B	0.00011		0.000072		0.1		0.1	
	0908003-5; 0908003-15	7/26/2009	0.003	U	0.003	U	0.011	B	0.011	B	0.00028	B	0.00027	B	0.071		0.07	
	0909293-8; 0909294-10	9/23/2009	0.00056	B	0.003	U												
300L/SW/01/F		NM																
	0908003-9; 0908003-19	7/26/2009	0.003	U	0.003	U												
		NM																
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	0.0004		0.00043		0.1	U,J	0.1	U,J	0.00016		0.0001	U	0.0046	B	0.00046	B
	0908003-10; 0908003-20	7/27/2009	0.003	U	0.003	U	0.081	B	0.015	B	0.00044	B	0.00042	B	0.012		0.01	U
	0909293-9; 0909293-18	9/23/2009	0.00097	B	0.00049	B												

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Cu (Total) (mg/L)		Cu (Diss.) (mg/L)		Fe (Total) (mg/L)		Fe (Diss.) (mg/L)		Pb (Total) (mg/L)		Pb (Diss.) (mg/L)		Mn (Total) (mg/L)		Mn (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
700L/SW/01/B		NM																
	0908004-2; 0908004-12	7/28/2009	0.00073	B	0.003	U												
	0909294-9; 0909294-18	9/24/2009	0.003	U	0.003	U												
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	0.0001	B	0.00012	B	0.011	B	0.004	B	0.00012		0.00009		0.0021	B	0.0018	B
	0908004-4; 0908004-14	7/27/2009	0.00076	B	0.00031	B												
	0909294-2; 0909294-11	9/23/2009	0.003	U	0.003	U												
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	0.00011	B	0.00016	B	0.1	U,J	0.1	U,J	0.00014		0.000083		0.003	B	0.0018	B
	0908004-6; 0908004-16	7/27/2009	0.003	U	0.003	U	0.012	B	0.057	B	0.0005	U	0.0005	U	0.0034	B	0.01	U
	0909294-4; 0909294-13	9/23/2009	0.003	U	0.003	U												
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	0.000092	B	0.00015	B	0.015	B	0.018	B	0.00012		0.00011		0.00078	B	0.00081	B
	0908004-1; 0908004-11	7/27/2009	0.003	U	0.003	U												
	0909294-5; 0909294-15	9/23/2009	0.00042	B	0.003	U												
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	0.00012	B	0.00012	B	0.1	U,J	0.1	U,J	0.00014		0.00011		0.0023	B	0.0023	B
	0908004-7; 0908004-17	7/27/2009	0.003	U	0.003	U												
	0909294-6; 0909294-14	9/24/2009	0.003	U	0.003	U												
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009	0.003	U	0.003	U	0.046	B	0.0044	B	0.00045	B	0.0005	U	0.014		0.01	U
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009	0.003	U	0.003	U	0.0067	B	0.1	U	0.00067		0.0005	U	0.012		0.011	
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	0.0003	B	0.00027	B	0.043	B	0.038	B	0.0001	U	0.0001	U	0.0032	B	0.00041	B
	0908003-2; 0908003-12	7/25/2009	0.003	U	0.003	U	0.14		0.09	B	0.00003	B	0.0005	U	0.004	B	0.01	U
	0909293-2; 0909293-11	9/21/2009	0.003	U	0.00039	B												

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Cu (Total) (mg/L)		Cu (Diss.) (mg/L)		Fe (Total) (mg/L)		Fe (Diss.) (mg/L)		Pb (Total) (mg/L)		Pb (Diss.) (mg/L)		Mn (Total) (mg/L)		Mn (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	0.00037		0.00026	B	0.016	B	0.0089	B	0.000053		0.0001	U	0.00041	B	0.01	U
	0908003-3; 0908003-13	7/25/2009	0.003	U	0.003	U	0.032	B	0.021	B	0.00016	B	0.000033	B	0.0019	B	0.01	U
	0909293-3; 0909293-13	9/21/2009	0.00032	B	0.00033	B												
CONF/SW/01/K-2		NM																
	0908004-9; 0908004-10	7/26/2009	0.003	U	0.00036	B												
		NM																
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	0.00032		0.00028	B	0.036	B	0.016	B	0.000059		0.0001	U	0.0016	B	0.00055	B
	0908003-1; 0908003-11	7/25/2009	0.00088	B	0.003	U												
	0909293-1; 0909293-10	9/21/2009	0.00053	B	0.00055	B												
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	0.00028		0.00054		0.45	J	0.35	J	0.00013		0.0001		0.023		0.021	
	0908004-3; 0908004-13	7/28/2009	0.003	U	0.003	U			0.37				0.0005	U			0.012	
		9/22/2009	0.003	U	0.00031	B												
Field QC																		
900L/SW/01/B(DUP)	0906140-23; 0906140-24	6/11/2009	0.000075	B	0.00012	B	0.1	U,J	0.1	U,J	0.00011		0.000092		0.0019	B	0.0017	B
900L/SW/02/A	0908004-5; 0908004-15	7/27/2009	0.0012	B	0.003	U												
	909294-3; 0909294-12	9/23/2009	0.003	U	0.003	U												
VV-Rinsate	0908004-8	7/28/2009	0.003	U			0.058	B			0.0027				0.0017	B		

Qualifier Descriptions

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

J The result is an estimated quantity. A J+ or J- is used to indicate a high or low bias

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Hg (Total) (mg/L)		Hg (Diss.) (mg/L)		Mo (Total) (mg/L)		Mo (Diss.) (mg/L)		Ni (Total) (mg/L)		Ni (Diss.) (mg/L)		Se (Total) (mg/L)		Se (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	0.0001	U	0.0001	U	0.01	U	0.01	U	0.0003	B	0.0005	U	0.000095	B	0.000098	B
	0908003-7; 0908003-17	7/26/2009	1.40E-06	J-	1.30E-06	J-												
	0909293-5; 0909293-14	9/22/2009																
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	0.0001	U	0.0001	U	0.01	U	0.01	U	0.00034	B	0.00029	B	0.00014		0.00013	
	0908003-8; 0908003-18	7/26/2009	1.10E-06	J-	1.10E-06	J-												
	0909293-6; 0909293-15	9/22/2009																
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	0.0001	U	0.0001	U	0.01	U	0.01	U	0.00085		0.0003	B	0.00013		0.00014	
	0908003-4; 0908003-14	7/26/2009	1.10E-06	J-	9.00E-07	J-	0.01	U	0.01	U	0.005	U	0.005	U	0.001	U	0.001	U
	0909293-7; 0909293-16	9/22/2009																
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	0.0001	U	0.00001	B	0.01	U	0.01	U	0.0005	U	0.0005	U	0.000072	B	0.000077	B
	0908003-6; 0908003-16	7/26/2009	1.60E-06	J	1.00E-06	J-												
	0909293-17; 0909294-1	9/22/2009																
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	0.0001	U	0.0001	U	0.0062	B	0.0068	B	0.0005	U	0.0005	U	0.000073	B	0.000072	B
	0908003-5; 0908003-15	7/26/2009	2.00E-06	J-	3.00E-07	B, J-	0.0044	B	0.0043	B	0.005	U	0.005	U	0.001	U	0.001	U
	0909293-8; 0909294-10	9/23/2009																
300L/SW/01/F		NM																
	0908003-9; 0908003-19	7/26/2009	1.10E-06	J-	1.00E-06	J-												
		NM																
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	0.0001	U	0.0000084	B	0.01	U	0.01	U	0.00085		0.00041	B	0.00017		0.00016	
	0908003-10; 0908003-20	7/27/2009	1.00E-06	J-	1.10E-06		0.00084	B	0.01	U	0.005	U	0.005	U	0.00012	B	0.00011	B
	0909293-9; 0909293-18	9/23/2009																

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Hg (Total) (mg/L)		Hg (Diss.) (mg/L)		Mo (Total) (mg/L)		Mo (Diss.) (mg/L)		Ni (Total) (mg/L)		Ni (Diss.) (mg/L)		Se (Total) (mg/L)		Se (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
700L/SW/01/B		NM																
	0908004-2; 0908004-12	7/28/2009	8.00E-07	J+	7.00E-07													
	0909294-9; 0909294-18	9/24/2009																
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	0.0001	U	0.00001	B	0.01	U	0.01	U	0.0005	U	0.0005	U	0.000083	B	0.000084	B
	0908004-4; 0908004-14	7/27/2009	8.00E-07	J-	1.00E-06													
	0909294-2; 0909294-11	9/23/2009																
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	0.0001	U	0.0001	U	0.01	U	0.01	U	0.0003	B	0.00021	B	0.000089	B	0.000082	B
	0908004-6; 0908004-16	7/27/2009	4.00E-07	B, J+	4.00E-07	B	0.01	U	0.01	U	0.00064	B	0.00054	B	0.001	U	0.001	U
	0909294-4; 0909294-13	9/23/2009																
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	0.000011	B	0.000013	B	0.01	U	0.01	U	0.0005	U	0.00014	B	0.0001		0.00011	
	0908004-1; 0908004-11	7/27/2009	1.20E-06	J+	1.60E-06													
	0909294-5; 0909294-15	9/23/2009																
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	0.0001	U	0.0001	U	0.01	U	0.01	U	0.0005	U	0.0005	U	0.000086	B	0.000085	B
	0908004-7; 0908004-17	7/27/2009	8.00E-07	J+	1.00E-06													
	0909294-6; 0909294-14	9/24/2009																
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009					0.01	U	0.01	U	0.005	U	0.005	U	0.00011	B	0.001	U
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009					0.01	U	0.01	U	0.005	U	0.005	U	0.001	U	0.001	U
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	0.00001	B	0.0000093	B	0.01	U	0.01	U	0.0005	U	0.0005	U	0.000075	B	0.000073	B
	0908003-2; 0908003-12	7/25/2009	1.70E-06	J-	1.60E-06	J-	0.01	U	0.01	U	0.005	U	0.005	U	0.000086	B	0.000087	B
	0909293-2; 0909293-11	9/21/2009																

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters															
			Hg (Total) (mg/L)		Hg (Diss.) (mg/L)		Mo (Total) (mg/L)		Mo (Diss.) (mg/L)		Ni (Total) (mg/L)		Ni (Diss.) (mg/L)		Se (Total) (mg/L)		Se (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	0.0001	U	0.0001	U	0.01	U	0.01	U	0.0005	U	0.00012	B	0.000099	B	0.000096	B
	0908003-3; 0908003-13	7/25/2009	1.30E-06	J-	1.30E-06	J-	0.01	U	0.01	U	0.005	U	0.005	U	0.00013	B	0.000092	B
	0909293-3; 0909293-13	9/21/2009																
CONF/SW/01/K-2		NM																
	0908004-9; 0908004-10	7/26/2009	1.20E-06	J-	1.20E-06	J-												
		NM																
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	0.0001	U	0.0000092	B	0.01	U	0.01	U	0.00037	B	0.0005	U	0.000088	B	0.000091	B
	0908003-1; 0908003-11	7/25/2009	2.40E-06	J-	2.30E-06	J-												
	0909293-1; 0909293-10	9/21/2009																
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	0.0001	U	0.000014	B	0.01	U	0.01	U	0.0005	U	0.00017	B	0.00013		0.00014	
	0908004-3; 0908004-13	7/28/2009	5.20E-06	J+	3.10E-06				0.01	U			0.00063	B			0.001	U
		9/22/2009																
Field QC																		
900L/SW/01/B(DUP)	0906140-23; 0906140-24	6/11/2009	0.000016	B	0.0001	U	0.01	U	0.01	U	0.00025	B	0.00014	B	0.000085	B	0.000082	B
900L/SW/02/A	0908004-5; 0908004-15	7/27/2009	8.00E-07	J-	9.00E-07													
	909294-3; 0909294-12	9/23/2009																
VV-Rinsate	0908004-8	7/28/2009					0.01	U			0.0031	B			0.001	U		

Qualifier Descriptions

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

J The result is an estimated quantity. A J+ or J- is used to indicate a high or low bias

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	DATE	Laboratory Parameters																	
			Ag (Total) (mg/L)		Ag (Diss.) (mg/L)		Tl (Total) (mg/L)		Tl (Diss.) (mg/L)		U (Total) (mg/L)		U (Diss.) (mg/L)		V (Total) (mg/L)		V (Diss.) (mg/L)		Zn (Total) (mg/L)		Zn (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	0.00001	U	0.00001	U	0.0000017	B	0.0000018	B	0.018		0.012		0.01	U	0.01	U	0.0075	B	0.02	U
	0908003-7; 0908003-17	7/26/2009									0.0061		0.0054						0.0065	B	0.0057	B
	0909293-5; 0909293-14	9/22/2009									0.0052		0.0044						0.0068	B	0.02	U
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	0.00001	U	0.00001	U	0.00002	U	0.00002	U	0.0011		0.00088		0.01	U	0.01	U	0.008	B	0.02	U
	0908003-8; 0908003-18	7/26/2009									0.0018		0.0017						0.0085	B	0.0058	B
	0909293-6; 0909293-15	9/22/2009									0.0021		0.0019						0.0078	B	0.02	U
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	0.00001	U	0.00001	U	0.0000015	B	0.0000013	B	0.0031		0.0027		0.01	U	0.01	U	0.0093	B	0.02	U
	0908003-4; 0908003-14	7/26/2009	0.0001	U	0.0001		0.0002	U	0.0002	U	0.0051		0.0044		0.01	U	0.01	U	0.0097	B	0.02	U
	0909293-7; 0909293-16	9/22/2009									0.007		0.006						0.0058	B	0.02	U
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	0.00001	U	0.00001	U	0.000002	B	0.0000018	B	0.00076		0.00093		0.01	U	0.01	U	0.049		0.02	U
	0908003-6; 0908003-16	7/26/2009									0.0013		0.0015						0.01	B	0.0077	B
	0909293-17; 0909294-1	9/22/2009									0.0017		0.1						0.0045	B	0.037	
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	0.00001	U	0.00001	U	0.0000055	B	0.0000059	B	0.24		0.24		0.01	U	0.01	U	0.024		0.024	
	0908003-5; 0908003-15	7/26/2009	0.0001	U	0.0001	U	0.000013	B	0.0002	U	0.16		0.16		0.01	U	0.01	U	0.032		0.032	
	0909293-8; 0909294-10	9/23/2009									0.11		0.0016						0.038		0.02	U
300L/SW/01/F		NM																				
	0908003-9; 0908003-19	7/26/2009									0.0095		0.0076						0.0052	B	0.0087	B
		NM																				
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	0.00001	U	0.00001	U	0.0000013	B	0.00002	U	0.000077		0.000044		0.01	U	0.01	U	0.02	U, J	0.02	U, J
	0908003-10; 0908003-20	7/27/2009	0.0001	U	0.0001	U	0.0002	U	0.0002	U	0.00011		0.000082	B	0.01	U	0.01	U	0.018	B	0.079	
	0909293-9; 0909293-18	9/23/2009									0.00014		0.00038						0.0052	B	0.02	U

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	DATE	Laboratory Parameters																	
			Ag (Total) (mg/L)		Ag (Diss.) (mg/L)		Tl (Total) (mg/L)		Tl (Diss.) (mg/L)		U (Total) (mg/L)		U (Diss.) (mg/L)		V (Total) (mg/L)		V (Diss.) (mg/L)		Zn (Total) (mg/L)		Zn (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
700L/SW/01/B		NM																				
	0908004-2; 0908004-12	7/28/2009									0.029		0.021						0.023		0.023	
	0909294-9; 0909294-18	9/24/2009									0.025		0.019						0.016	B	0.02	U
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	0.00001	U	0.00001	U	0.0000041	B	0.0000047	B	0.00081		0.00064		0.01	U	0.01	U	0.0044	B	0.02	U
	0908004-4; 0908004-14	7/27/2009									0.0013		0.00097						0.01	B	0.0067	B
	0909294-2; 0909294-11	9/23/2009									0.0015		0.0014						0.0028	B	0.02	U
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	0.00001		0.00001	U	0.0000019	B	0.0000016	B	0.00013	J	0.000091		0.01	U	0.01	U	0.02	U, J	0.02	U, J
	0908004-6; 0908004-16	7/27/2009	0.0001	U	0.0001	U	0.0002	U	0.0002	U	0.00018		0.00012		0.01	U	0.01	U	0.0058	B	0.02	U
	0909294-4; 0909294-13	9/23/2009									0.00019		0.00018						0.0072	B	0.02	U
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	0.00001	U	0.00001	U	0.0000051	B	0.0000052	B	0.00014		0.00012		0.01	U	0.01	U	0.01	B	0.02	U
	0908004-1; 0908004-11	7/27/2009									0.00017		0.00016						0.0061	B	0.004	B
	0909294-5; 0909294-15	9/23/2009									0.0016		0.00012						0.0048	B	0.02	U
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	0.00001	U	0.00001	U	0.0000041	B	0.0000044	B	0.00085		0.00071		0.01	U	0.01	U	0.02	U, J	0.02	U, J
	0908004-7; 0908004-17	7/27/2009									0.0013		0.0012						0.005	B	0.0042	B
	0909294-6; 0909294-14	9/24/2009									0.00012		0.0014						0.004	B	0.02	U
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009	0.00003	B	0.0001	U	0.000014	B	0.0002	U	0.008		0.0036		0.01	U	0.01	U	0.011	B	0.02	U
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009	0.000025	B	0.0001	U	0.0002	U	0.000019	B	0.095		0.059		0.01	U	0.01	U	0.034		0.033	
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	0.00001	U	0.00001	U	0.00002	U	0.00002	U	0.00011		0.000093		0.01	U	0.01	U	0.028		0.02	U
	0908003-2; 0908003-12	7/25/2009	0.0001	U	0.0001	U	0.0002	U	0.0002	U	0.00038		0.00037		0.01	U	0.01	U	0.0036	B	0.02	U
	0909293-2; 0909293-11	9/21/2009									0.00029		0.00028						0.02	U	0.02	U

Table A-1c. Surface Water Sample Results, Metals (continued)

Sample ID	Lab IDs	DATE	Laboratory Parameters																	
			Ag (Total) (mg/L)		Ag (Diss.) (mg/L)		Tl (Total) (mg/L)		Tl (Diss.) (mg/L)		U (Total) (mg/L)		U (Diss.) (mg/L)		V (Total) (mg/L)		V (Diss.) (mg/L)		Zn (Total) (mg/L)		Zn (Diss.) (mg/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	0.00001	U	0.00001	U	0.00002	U	0.00002	U	0.00094		0.00088		0.01	U	0.01	U	0.016	B	0.02	U
	0908003-3; 0908003-13	7/25/2009	0.0001	U	0.0001	U	0.000013	B	0.0002	U	0.0028		0.0027		0.01	U	0.01	U	0.0044	B	0.02	U
	0909293-3; 0909293-13	9/21/2009									0.0029		0.0028						0.0046	B	0.02	U
CONF/SW/01/K-2		NM																		B		
	0908004-9; 0908004-10	7/26/2009									0.0024		0.0023						0.0044	B	0.0092	B
		NM																		B		
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	0.00001	U	0.00001	U	0.0000014	B	0.00002	U	0.00067		0.0006		0.01	U	0.01	U	0.0093	B	0.02	U
	0908003-1; 0908003-11	7/25/2009									0.0018		0.0017						0.0083	B	0.0048	B
	0909293-1; 0909293-10	9/21/2009									0.0016		0.0017						0.0036	B	0.02	U
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	0.00001	U	0.00001	U	0.00002	U	0.00002	U	0.0003		0.00027		0.01	U	0.01	U	0.02	U, J	0.02	U, J
	0908004-3; 0908004-13	7/28/2009			0.0001	U			0.0002	U	0.00038		0.0003				0.01	U	0.0088	B	0.02	U
		9/22/2009									0.00029		0.00021						0.005	B	0.02	U
Field QC																						
900L/SW/01/B (DUP)	0906140-23; 0906140-24	6/11/2009	0.00001	U	0.00001	U	0.0000016	B	0.0000016	B	0.00013		0.00009		0.01	U	0.01	U	0.02	U, J	0.02	U, J
900L/SW/02/A	0908004-5; 0908004-15	7/27/2009									0.0012		0.00093						0.019	B	0.0053	B
	909294-3; 0909294-12	9/23/2009									0.0015		0.0015						0.017	B	0.02	U
VV-Rinsate	0908004-8	7/28/2009	0.0001	U			0.0002	U			0.0001	U			0.01	U			0.025			

Qualifier Descriptions

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

J The result is an estimated quantity. A J+ or J- is used to indicate a high or low bias

Table A-1d. Surface Water Sample Results, Radiochemistry

Sample ID	Lab IDs	Date	Laboratory Parameters - Radiochemistry																	
			Th-232 Decay Chain						U-235 Decay Chain		U-238 Decay Chain									
			Th-232 (pCi/L)		Ra-228 (pCi/L)		Th-228 (pCi/L)		U-235 (pCi/L)		U-238 (pCi/L)		U-234 (pCi/L)		Th-230 (pCi/L)		Ra-226 (pCi/L)		Pb-210 (pCi/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	0.011	U	0.64	U	0.12	LT	0.37		5.3		6.9		0.085	U	0.36	LT	0.26	U
	0908003-7; 0908003-17	7/26/2009			0.56	U, S+											0.1	U	-0.09	U
	0909293-5; 0909293-14	9/22/2009			0.13	U											0.22	U,M	0.36	U
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	0.029	U	0.38	U	0.071	U	0.014	U	0.37		0.26		0.003	U	-0.074	U	-0.14	U
	0908003-8; 0908003-18	7/26/2009			0.21	U, S+											0.2	LT	0.24	U
	0909293-6; 0909293-15	9/22/2009			0.53	U											0.02	U	0.18	U
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	0.046	LT	0.73	U	0.041	U	0.053	U	1.01		1.1		0.025	U	0.34	LT	0.64	LT
	0908003-4; 0908003-14	7/26/2009	0.078	LT	0.78	U, S+	0.166	LT	0.121	LT	1.81		2.11		0.132	LT	0.17	U	0.23	U
	0909293-7; 0909293-16	9/22/2009			0.45	U											0.18	U,M	0.3	U
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	0.024	LT	0.38	U	0.077	U	-0.004	U	0.23		0.26		0.007	U	-0.39	U,M	0.04	U
	0908003-6; 0908003-16	7/26/2009			0.22	U, S+											0.05	U	-0.15	U
	0909293-17; 0909294-1	9/22/2009			0.13	U											0.19	U	0.45	U
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	0.058	LT	7.2		0.187	LT	3.42		79		96		0.142	LT	7.8		0.1	U
	0908003-5; 0908003-15	7/26/2009	0.182	LT	5.6	S+	0.82		2.57		52.7		65		0.68		5.3		0.2	U
	0909293-8; 0909294-10	9/23/2009			3.4												4.3		1.81	
300L-SW-01-F		NM																		
	0908003-9; 0908003-19	7/26/2009			0.5	U, S+											0.31	LT	0.18	U
		NM																		
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	0.011	U	0.04	U	0.027	U	-0.003	U	0.036	U	0.012	U	0.083	U	0.13	U	0.16	U
	0908003-10; 0908003-20	7/27/2009	0.032	LT	-0.06	U, S+	0.046	LT	-0.001	U	0.08	U	0.072	U	0.056	U	0.01	U	0.68	LT
	0909293-9; 0909293-18	9/23/2009			0.07	U											0	U	0.22	U

Table A-1d. Surface Water Sample Results, Radiochemistry (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters - Radiochemistry																	
			Th-232 Decay Chain						U-235 Decay Chain		U-238 Decay Chain									
			Th-232 (ρCi/L)		Ra-228 (ρCi/L)		Th-228 (ρCi/L)		U-235 (ρCi/L)		U-238 (ρCi/L)		U-234 (ρCi/L)		Th-230 (ρCi/L)		Ra-226 (ρCi/L)		Pb-210 (ρCi/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
700L-SW-01-B		NM																		
	0908004-2; 0908004-12	7/28/2009			2.49												1.14		0.49	U
	0909294-9; 0909294-18	9/24/2009			1.28												0.11	U	0.91	LT
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	0.012	U	0.48	U	0.073	U	0.005	U	0.28		0.28		0.013	U	0.34	LT	0.14	U
	0908004-4; 0908004-14	7/27/2009			0.8	U											0.17	U	0.14	U
	0909294-2; 0909294-11	9/23/2009			0.13	U											0.29	U, M	0.44	U
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	0.015	LT	0.72	LT	0.036	U	0.041	U	0.15	LT	0.18	LT	-0.012	U	0.23	U	0.87	LT
	0908004-6; 0908004-16	7/27/2009	0.011	U	0.88	LT	0.079	LT	0.024	U	0.077	LT	0.075	LT	0.159	LT	0.11	U	0.41	U
	0909294-4; 0909294-13	9/23/2009			0.24	U											0.15	U, M	0.44	U
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	0.018	U	-0.26	U	0.15	LT	0.032	U	0.057	U	0.125	LT	-0.003	U	-0.05	U	0.16	U
	0908004-1; 0908004-11	7/27/2009			0.76	U											0.03	U	-0.29	U
	0909294-5; 0909294-15	9/23/2009			0.58	U											0	U, M	0.22	U
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	0.02	LT	0.42	U	0.111	LT	0	U	0.19	LT	0.43		0.003	U	0.18	U,M	0.24	U
	0908004-7; 0908004-17	7/27/2009			0.38	U											-0.01	U	0.43	U
	0909294-6; 0909294-14	9/24/2009			-0.02	U											0.05	U, M	0.35	U
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009	0.018	U	0.7	U, S-	0.128	LT	0.04	U, J, M	1.5	J	1.78	J, M3	0.141	LT	0.51	M3	0.23	U
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009	0.198	LT	5.5	S-	1.04		1.49		25.6		28		0.95		3.7	M3	5.4	
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	0.013	LT	-0.01	U	0.014	U	0.013	U	0.043	LT	0.15	LT	0.049	U	0.02	U	-0.16	U
	0908003-2; 0908003-12	7/25/2009	0.007	U	0.04	U, S+	-0.011	U	0.031	LT	0.165	LT	0.193	LT	0.057	U	0.1	U	0.26	U
	0909293-2; 0909293-11	9/21/2009			0.13	U											0.15	U,M	0.47	U

Table A-1d. Surface Water Sample Results, Radiochemistry (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters - Radiochemistry																	
			Th-232 Decay Chain						U-235 Decay Chain		U-238 Decay Chain									
			Th-232 (ρCi/L)		Ra-228 (ρCi/L)		Th-228 (ρCi/L)		U-235 (ρCi/L)		U-238 (ρCi/L)		U-234 (ρCi/L)		Th-230 (ρCi/L)		Ra-226 (ρCi/L)		Pb-210 (ρCi/L)	
			Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	0.006	U	0.25	U	0.058	U	0.021	U	0.4		0.38		0.043	U	-0.11	U	-0.19	U
	0908003-3; 0908003-13	7/25/2009	0.066	LT	0.42	U, S+	0.154	LT	0.056	U	0.87		1.03		0.137	LT	0.18	LT	0.17	U
	0909293-3; 0909293-13	9/21/2009			0.44	U											0.05	U,M	0.19	U
CONF-SW-01-K-2		NM																		
	0908004-9; 0908004-10	7/26/2009			0.51	U											0.29	LT	0.62	U
		NM																		
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	0.001	U	0.01	U	0.031	U	0.027	U	0.21		0.48		0.033	U	0.12	U	0.2	U
	0908003-1; 0908003-11	7/25/2009			0.51	U, J, S+, M											0.07	U	0.12	U
	0909293-1; 0909293-10	9/21/2009			0.29	U											0.33	U,M	-0.11	U
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	0.04	LT	0.21	U	0.058	U	0.01	U	0.081	LT	0.141	LT	0.028	U	0.04	U	0.31	U
	0908004-3; 0908004-13	7/28/2009	0.078	LT	0.49	U	0.068	U	0.008	U	0.165	LT	0.114	LT	0.232		0.21	LT	0.35	U
		9/22/2009			0.3	U											0.23	U	1.09	
Field QC																				
900L/SW/01/B(DUP)	0906140-23; 0906140-24	6/11/2009	0.013	U	0.32	U	0.081	U	0.009	U	0.099	LT	0.077	U	0.108	U	-0.12	U	1.1	
900L-SW-02-A	0908004-5; 0908004-15	7/27/2009			0.79	LT											-0.053	U	2.05	
	909294-3; 0909294-12	9/23/2009			0.07	U											0	U	0.38	U
VV-Rinsate	0908004-8	7/28/2009	0.012	U	0.21	U	0.025	U	0.01	U	0.001	U	0.016	U	0.057	U	0.09	U	-0.03	U

Qualifier Descriptions

- U Result is less than the sample specific Minimum Detectable Concentration (MDC) or less than the associated Total Propagated Uncertainty (TPU)
- B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL
- J An estimated result
- M3 The requested MDC was not met, but the reported activity is greater than the reported MDC
- M The requested MDC was not met
- LT Result is less than Requested MDC, greater than sample specific MDC
- S A result with a related spike result (LCS< MS or MSD that is outside the control limit for recovery (%R); S+ or S- used to indicate high or low recovery

Table A-1d. Surface Water Sample Results, Radiochemistry (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters - Radiochemistry			
			U-238 Decay Chain			
			Po-210 (ρCi/L)		Po-209 (ρCi/L)	
			Conc.	Qual.	Conc.	Qual.
300L/SW/01/A	0906140-7; 0906140-8	6/9/2009	0.02	U	11.4	
	0908003-7; 0908003-17	7/26/2009	0.01	U		
	0909293-5; 0909293-14	9/22/2009				
300L/SW/01/B	0906140-9; 0906140-10	6/9/2009	-0.01	U	11.7	
	0908003-8; 0908003-18	7/26/2009	0.08	U		
	0909293-6; 0909293-15	9/22/2009				
300L/SW/01/C	0906140-11; 0906140-12	6/9/2009	0.04	U	11.5	
	0908003-4; 0908003-14	7/26/2009	0.06	U		
	0909293-7; 0909293-16	9/22/2009				
300L/SW/01/D	0906140-15; 0906140-16	6/10/2009	0.04	U	12.6	
	0908003-6; 0908003-16	7/26/2009	0.02	U		
	0909293-17; 0909294-1	9/22/2009				
300L/SW/01/E	0906140-13; 0906140-14	6/10/2009	1.27		11.9	
	0908003-5; 0908003-15	7/26/2009	0.74			
	0909293-8; 0909294-10	9/23/2009				
300L-SW-01-F		NM				
	0908003-9; 0908003-19	7/26/2009	0.03	U		
		NM				
700L/SW/01/A	0906140-29; 0906140-30	6/15/2009	0.02	U	10.9	
	0908003-10; 0908003-20	7/27/2009	-0.09	U		
	0909293-9; 0909293-18	9/23/2009				
700L-SW-01-B		NM				
	0908004-2; 0908004-12	7/28/2009	0.3	LT		
	0909294-9; 0909294-18	9/24/2009				

Table A-1d. Surface Water Sample Results, Radiochemistry (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters - Radiochemistry			
			U-238 Decay Chain			
			Po-210 (ρCi/L)		Po-209 (ρCi/L)	
			Conc.	Qual.	Conc.	Qual.
900L/SW/01/A	0906140-17; 0906140-18	6/10/2009	-0.04	U	12.6	
	0908004-4; 0908004-14	7/27/2009	0.1	U		
	0909294-2; 0909294-11	9/23/2009				
900L/SW/01/B	0906140-21; 0906140-22	6/11/2009	0.12	U	13.5	
	0908004-6; 0908004-16	7/27/2009	-0.05	U		
	0909294-4; 0909294-13	9/23/2009				
900L/SW/01/C	0906140-19; 0906140-20	6/10/2009	0.06	U	12.5	
	0908004-1; 0908004-11	7/27/2009	0.13	U		
	0909294-5; 0909294-15	9/23/2009				
900L/SW/01/D	0906140-25; 0906140-26	6/11/2009	0.01	U	11.9	
	0908004-7; 0908004-17	7/27/2009	-0.01	U		
	0909294-6; 0909294-14	9/24/2009				
900L/SW/01/E	0909294-7; 0909294-16	9/24/2009	0.04	U	17.2	
900L/SW/01/F	0909294-8; 0909294-17	9/24/2009	1.31		17	
CONF/SW/01/C	0906140-3; 0906140-4	6/8/2009	0.053	U	10.3	
	0908003-2; 0908003-12	7/25/2009	0.03	U		
	0909293-2; 0909293-11	9/21/2009				
CONF/SW/01/K	0906140-5; 0906140-6	6/9/2009	0.05	U	11	
	0908003-3; 0908003-13	7/25/2009	0	U		
	0909293-3; 0909293-13	9/21/2009				
CONF-SW-01-K-2		NM				
	0908004-9; 0908004-10	7/26/2009	-0.01	U		

Table A-1-d. Surface Water Sample Results, Radiochemistry (continued)

Sample ID	Lab IDs	Date	Laboratory Parameters - Radiochemistry			
			U-238 Decay Chain			
			Po-210 (ρCi/L)		Po-209 (ρCi/L)	
			Conc.	Qual.	Conc.	Qual.
CONF/SW/01/KC	0906140-1; 0906140-2	6/8/2009	0.06	U	10.1	
	0908003-1; 0908003-11	7/25/2009	0.01	U		
	0909293-1; 0909293-10	9/21/2009				
SPR/SW/01/A	0906140-27; 0906140-28	6/11/2009	0.45	LT	11.9	
	0908004-3; 0908004-13	7/28/2009	0.06	U		
		9/22/2009				
Field QC						
900L/SW/01/B(DUP)	0906140-23; 0906140-24	6/11/2009	-0.01	U	13.8	
900L-SW-02-A	0908004-5; 0908004-15	7/27/2009	0.02	U		
	909294-3; 0909294-12	9/23/2009				
VV-Rinsate	0908004-8	7/28/2009	-0.06	U		

Qualifier Descriptions

U Result is less than the sample specific Minimum Detectable Concentration (MDC) or less than the associated Total Propagated Uncertainty (TPU)

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

J An estimated result

M3 The requested MDC was not met, but the reported activity is greater than the reported MDC

M The requested MDC was not met

LT Result is less than Requested MDC, greater than sample specific MDC

S A result with a related spike result (LCS< MS or MSD that is outside the control limit for recovery (%R); S+ or S- used to indicate high or low recovery

Table A-2. Radon Detector Results

Radon Station ID	Radon Concentration	
	Long Exposure (pCi/L)	Short Exposure (pCi/L)
OSA-RAD-1	92.9	
OSA-RAD-2*	2.1	
OSA-RAD-3*	3.3	
OSA-RAD-4	64.1	
OSA-RAD-5*	1.2	
DOT-RAD-6	Defective	
DOT-RAD-7	Defective	
DOT-RAD-8	Damaged	
DOT-RAD-9	Damaged	
DOT-RAD-10	Missing	
700L-RAD-11*	2.1	
700L-RAD-12	11	
700L-RAD-13	22.3	20.6
700L-RAD-14	40.1	
700L-RAD-15	7.9	
OP-RAD-16	163.3	70.0
OP-RAD-17	372.8	
OP-RAD-18	16.7	
OP-RAD-19	39.2	22.9
900L-RAD-20	192	
900L-RAD-21*	2.5	
900L-RAD-22	133.4	
900L-RAD-23	Tampered	
900L-RAD-24*	1.6	
900L-RAD-25	16.1	
MR-RAD-26	Missing	
MR-RAD-27	2.2	
300L-RAD-28	5.8	
300L-RAD-29	Saturated	445.2
300L-RAD-30	136.1	
300L-RAD-31	21.4	
300L-RAD-32	14.6	
300L-RAD-33	22.3	
300L-RAD-34	76.3	

NOTES:
Defective- Laboratory texting equipment was defective or damaged
Missing- Test equipment taken from station
Tampered- Radon station was tampered with but still submitted to lab
Saturated- Radon concentration exceed max of 140,000 pCi/L-days
Damaged- Test equipment found on ground and water damaged
Sample ID's noted with a "*" indicate station is background

Table A-3a. Soil Samples Results, Organics and Miscellaneous Parameters

Sample ID	Date	Laboratory Parameters - Organic																	
		AROCLOR-1016 (µg/kg)		AROCLOR-1221 (µg/kg)		AROCLOR-1232 (µg/kg)		AROCLOR-1242 (µg/kg)		AROCLOR-1248 (µg/kg)		AROCLOR-1254 (µg/kg)		AROCLOR-1260 (µg/kg)		DIESEL RANGE ORGANICS (mg/kg)		GASOLINE RANGE ORGANICS (mg/kg)	
		Value	Qual.	Value	Qual.	Value	Qual.	Value	Qual.	Value	Qual.	Value	Qual.	Value	Qual.	Value	Qual.	Value	Qual.
JULY 2009																			
300L-GENSHACK	7/26/2009	33	U, J	66	U, J	33	U, J	33	U, J	33	U, J	33	U, J	33	U, J	3200	D, H, M, J	0.44	J
3TANK-TPH	7/27/2009															630	H, M, J	0.11	J
900L-BATT	7/27/2009															32	H, Z, J	0.43	J
OSA-UST DOCK	7/27/2009															7000	H, Z	0.19	J

Lab Qualifier Descriptions:

Qualifier Descriptions

- U The compound was analyzed for but not detected
- D A pattern resembling diesel was detected in this sample
- H The fuel pattern was in the heavier end of the retention time window for the analyte of interest
- M A pattern resembling motor oil was detected in this sample
- Z A significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline, JP-8, diesel, mineral spirits, motor oil, Stoddard solvent, or bunker C
- J The result is an estimated quantity.

Table A-3a. Soil Samples Results, Organics and Miscellaneous Parameters (continued)

		Laboratory Parameters – Inorganic		Soil Texture						
		pH		Soil Texture (%)						
Sample ID	Date	Value	Lab Qual	Clay	Qual.	Sand	Qual.	Silt	Qual.	Texture Class.
JUNE 2009										
300L-CORR-1R	6/10/2009	6.36		17.5	J	80.0		2.5		Sandy Loam
900BG-CORR-12R	6/11/2009	4.77		10.0	J	90.0			U	Loamy Sand/Sand
900BG-CORR-14R	6/11/2009	4.69		15.0	J	85.0			U	Sandy Loam/Loamy Sand
900L-CORR-13R	6/11/2009	4.68		15.0	J	85.0			U	Sandy Loam/Loamy Sand
900WRD-CORR-15R	6/11/2009	5.35		20.0	J	80.0			U	Sandy Clay Loam/Sandy Loam
HR-CORR-2R	6/10/2009	4.92		23.3	J	76.7			U	Sandy Clay Loam
HR-CORR-3R	6/10/2009	4.94		13.3	J	86.7			U	Loamy Sand
HR-CORR-5R	6/10/2009	4.97		20.0	J	80.0			U	Sandy Clay Loam/Sandy Loam
HR-CORR-6R	6/11/2009	5.2		15.0	J	85.0			U	Sandy Loam/Loamy Sand
HR-CORR-7R	6/11/2009	5.1		6.7	J	93.3			U	Sand
HR-CORR-8R	6/11/2009	4.68		20.0	J	80.0			U	Sandy Clay Loam/Sandy Loam
HR-CORR-8R DUP	6/11/2009	4.93		20.0	J	80.0			U	Sandy Clay Loam/Sandy Loam
HR-CORR-9R	6/11/2009	5.31		13.3	J	86.7			U	Loamy Sand
IL-CORR-10R	6/11/2009	5.13		17.5	J	82.5			U	Sandy Loam
IL-CORR-11R	6/11/2009	5.13		20.0	J	80.0			U	Sandy Clay Loam/Sandy Loam
OSA-CORR-4R	6/10/2009	5		13.3	J	86.7			U	Loamy Sand
JULY 2009										
300-1	7/26/2009	4.72		8.8		76.3		15.0		Sandy Loam
300-10	7/26/2009	4.32		7.5		66.3		26.3		Sandy Loam
300-11	7/26/2009	5.07		7.5		80.0		12.5		Loamy Sand
300-12	7/26/2009	6.06		17.6		58.8		23.5		Sandy Loam
300-13	7/26/2009	6.26		15.0		57.5		27.5		Sandy Loam
300-14A	7/26/2009	4.57		10.0		70.0		20.0		Sandy Loam
300-15A	7/26/2009	4.8		10.0		77.5		12.5		Sandy Loam
300-15B	7/26/2009	5.65		10.0		77.5		12.5		Sandy Loam
300-16	7/26/2009	5.42		10.0		77.5		12.5		Sandy Loam

Table A-3a. Soil Samples Results, Organics and Miscellaneous Parameters (continued)

		Laboratory Parameters – Inorganic		Soil Texture						
		pH		Soil Texture (%)						
Sample ID	Date	Value	Lab Qual	Clay	Qual.	Sand	Qual.	Silt	Qual.	Texture Class.
JULY 2009										
300-17	7/26/2009	4.71		15.0		62.5		22.5		Sandy Loam
300-18	7/26/2009	5.21		20.0		56.3		23.8		Sandy Loam/Sandy clay loam
300-2	7/26/2009	4.87		7.5		81.3		11.3		Loamy Sand
300-3	7/26/2009	4.5		16.3		63.8		20.0		Sandy Loam
300-5	7/26/2009	6.35		7.5		75.0		17.5		Sandy Loam
300-6	7/26/2009	4.52		7.5		67.5		25.0		Sandy Loam
300-7	7/26/2009	4.62		5.0		73.8		21.3		Sandy Loam
300-8	7/26/2009	4.69		7.5		77.5		15.0		Sandy Loam/Loamy Sand
300-9	7/26/2009	5.24		12.5		51.3		36.3		Loam
700T-1	7/25/2009	5.62		12.2		63.4		24.4		Sandy Loam
700T-2	7/25/2009	5.57		3.8		81.3		15.0		Loamy Sand
700T-3	7/25/2009	5.25		5.0		87.5		7.5		Sand/Loamy Sand
700T-4	7/25/2009	4.94		3.8		81.3		15.0		Sandy Loam
700T-5	7/25/2009	4.51		5.0		73.8		21.3		Sandy Loam
700T-6	7/25/2009	4.5		7.5		63.8		28.8		Sandy Loam
900 BT-17	7/26/2009	4.4		5.0		68.8		26.3		Sandy Loam
900 BT-18	7/26/2009	4.22		5.0		76.3		18.8		Loamy Sand
900 BT-19	7/26/2009	4.45		5.0		83.8		11.3		Loamy Sand
900 BT-20	7/26/2009	4.21		6.3		57.5		36.3		Sandy Loam
900 BT-21	7/26/2009	4.75		7.5		72.5		20.0		Sandy Loam
900 BT-22	7/26/2009	5.33		6.3		72.5		21.3		Sandy Loam
900 BT-23	7/26/2009	4.95		8.8		71.3		20.0		Sandy Loam
900 BT-24	7/26/2009	5.11		3.8		75.0		21.3		Loamy Sand
900 BT-25	7/26/2009	5.2		7.5		71.3		21.3		Sandy Loam
900 BT-26	7/26/2009	5.04		10.0		70.0		20.0		Sandy Loam
900 BT-27	7/26/2009	4.82		5.0		81.3		13.8		Loamy Sand

Table A-3a. Soil Samples Results, Organics and Miscellaneous Parameters (continued)

		Laboratory Parameters – Inorganic		Soil Texture						
		pH		Soil Texture (%)						
Sample ID	Date	Value	Lab Qual	Clay	Qual.	Sand	Qual.	Silt	Qual.	Texture Class.
JULY 2009										
900AT-10	7/25/2009	4.37		2.5		77.5		20.0		Loamy Sand
900AT-11	7/25/2009	4.41		2.5		82.5		15.0		Loamy Sand
900AT-12	7/25/2009	4.57		3.8		78.8		17.5		Loamy Sand
900AT-13	7/25/2009	5.07		2.5		82.5		15.0		Loamy Sand
900AT-14	7/25/2009	4.75		2.5		75.0		22.5		Loamy Sand
900AT-15	7/25/2009	4.25		2.5		90.0		7.5		Sand
900AT-16	7/25/2009	4.2		3.8		73.8		22.5		Loamy Sand
900AT-7	7/25/2009	4.44		3.8		76.3		20.0		Loamy Sand
900AT-8	7/25/2009	4.34		2.5		81.3		16.3		Loamy Sand
900AT-9	7/25/2009	4.56		3.8		77.5		18.8		Loamy Sand
900L-CORR-16	7/25/2009	5.07		6.3		70.0		23.8		Sandy Sand
900L-CORR-17	7/25/2009	5.18		5.0		76.3		18.8		Loamy Sand
C1 (OSA-2,-8,-10,-14)	7/26/2009	3.9		7.5		72.5		20.0		Sandy Loam
C2 (OSA-3,-9,-15,-16)	7/26/2009	4.06		7.5		72.5		20.0		Sandy Loam
DOTSON 1	7/27/2009	4.59		10.0		60.0		30.0		Sandy Loam
DOTSON 1 DUP	7/27/2009	4.8		7.5		62.5		30.0		Sandy Loam
IL-1	7/25/2009	4.53		5.0		73.8		21.3		Sandy Loam
IL-2	7/25/2009	4.56		5.0		70.0		25.0		Sandy Loam
OSA-1	7/26/2009	4.49		16.3		53.8		30.0		Sandy Loam
OSA-11	7/27/2009	4.36		7.5		75.0		17.5		Sandy Loam
OSA-12	7/27/2009	4.46		5.0		72.5		22.5		Sandy Loam
OSA-13	7/27/2009	4.03		11.3		60.0		28.8		Sandy Loam
OSA-17	7/27/2009	4.57		10.0		62.5		27.5		Sandy Loam
OSA-18	7/27/2009	4.83		3.8		62.5		33.8		Sandy Loam
OSA-4	7/27/2009	5.26		12.5		65.0		22.5		Sandy Loam
OSA-4 DUP	7/27/2009	4.84		7.5		70.0		22.5		Sandy Loam

Table A-3a. Soil Samples Results, Organics and Miscellaneous Parameters (continued)

		Laboratory Parameters – Inorganic		Soil Texture						
		pH		Soil Texture (%)						
Sample ID	Date	Value	Lab Qual	Clay	Qual.	Sand	Qual.	Silt	Qual.	Texture Class.
JULY 2009										
OSA-5	7/27/2009	5.32		5.0		75.0		20.0		Sandy Loam/Loamy Sand
OSA-6	7/27/2009	5.02		5.0		77.5		17.5		Loamy Sand

Qualifier Descriptions

U The parameter was analyzed for but not detected
D A pattern resembling diesel was detected in this sample
H The fuel pattern was in the heavier end of the retention time window for the analyte of interest
M A pattern resembling motor oil was detected in this sample
Z A significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline, JP-8, diesel, mineral spirits, motor oil, Stoddard solvent, or bunker C
J The result is an estimated quantity.

Table A-3b. Soil Samples Results, Metals

		Laboratory Parameters - Metals																					
		Al (mg/kg)		Sb (mg/kg)		As (mg/kg)		Ba (mg/kg)		Be (mg/kg)		Cd (mg/kg)		Cr (mg/kg)		Co (mg/kg)		Cu (mg/kg)		Fe (mg/kg)		Pb (mg/kg)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
JUNE 2009																							
300L-CORR-1R	6/10/2009	8700		0.79	B	2.4		27		0.57		0.21	B	31		7.5		21		27000		43	
900BG-CORR-12R	6/11/2009	540		2	U	1.9	J	2.5	B	0.09	B	0.5	U	0.99	U	0.16	B	1.8		1900		11	
900BG-CORR-14R	6/11/2009	220	N	2	U	0.2	U, J	1.7	B	0.036	B	0.49	U	0.98	U	0.98	U	0.48	B	850	J	4	
900L-CORR-13R	6/11/2009	1200		1.9	U	0.32	J	2.3	B	0.11	B	0.48	U	0.96	U	0.96	U	0.88	B	1700		11	
900WRD-CORR-15R	6/11/2009	3100		0.49	B	3.1		120		1.2		1.8		0.99	U	0.56	B	11		19000		120	
HR-CORR-2R	6/10/2009	14000		0.76	B	0.88	J	29		0.59		0.067	B	19		13		15		30000		7.7	
HR-CORR-3R	6/10/2009	7300		0.26	B	0.77		15		0.24	B	0.49	U	11		2.6		6.4		13000		4.4	
HR-CORR-5R	6/10/2009	15,000		0.62	B	0.96		28		0.33	B	0.071	B	28		9.6		12		23000		5	
HR-CORR-6R	6/11/2009	3300		0.37	B	0.22		37		1		0.18	B	2.8		1.2		4.3		11000		50	
HR-CORR-7R	6/11/2009	5200		0.28	B	1		16		0.28	B	0.49	U	5.7		1.8		4.1		12000		7.3	
HR-CORR-8R	6/11/2009	8200		0.56	B	1.3		29		0.84		0.07	B	12		4.2		7.7		20000		44	
HR-CORR-8R DUP	6/11/2009	8500		0.36	B	1.3		22		0.77		0.49	U	14		4.1		8.1		19000		41	
HR-CORR-9R	6/11/2009	6300		0.53	B	0.95		39		0.93		0.5	U	4.1		3.4		9.8		18000		25	
IL-CORR-10R	6/11/2009	2100		2	U	1.1		3.9	B	0.48	B	0.49	U	1.7		0.29		1.8		5800		31	
IL-CORR-11R	6/11/2009	2900		0.35	B	2.5		130		0.84		0.12	B	1	J	0.58		5.8		19000		100	
OSA-CORR-4R	6/10/2009	7100		0.37	B	4.2		23		0.65		0.088	B	14		4.1		8.4		15,000		24	
JULY 2009																							
300-1	7/26/2009	5900				3.5		26		1.1		0.12	B	11		5.8		6		18000		58	
300-10	7/26/2009	2100		0.15		2.8		9.9	U	0.49	U	0.5	U	5.8		1.3		3.2		15,000		12	
300-11	7/26/2009	6700				2.5		17		0.91		0.11	B	11		4.4		10		15000		21	
300-12	7/26/2009	57000				6.7		120		13		9.5		12		54		48		36000		22	
300-13	7/26/2009	17000		0.17		3.4		73		7.6		2.6		12		30		27		13000		43	
300-14A	7/26/2009	840				2.3		84		1		0.22	B	0.73	B	0.45	B	5.1		9900		98	
300-15A	7/26/2009	1400				0.97		54		0.57		0.2	B	5		2.3		6.4		10000		140	
300-15B	7/26/2009	1500				0.83		57		0.77		0.4	B	4.1		3.7		9		9100		120	
300-16	7/26/2009	690				0.21		42		0.52		0.14	B	1.1		0.28	B	4.5		5100		62	
300-17	7/26/2009	14000				33		55		1.6		0.42	B	62		13		28		32000		68	
300-18	7/26/2009	21000				5.1		8.9		0.58		0.49	U	19		18		13		43000		15	
300-2	7/26/2009	6800				3.8		33		0.99		0.12	B	15		6.9		16		20000		58	
300-3	7/26/2009	20000				5.6		31		2.2		0.3	B	20		23		65		32000		150	
300-5	7/26/2009	6600				3.5		27		0.86		0.25	B	26		6.3		15		18000		35	
300-6	7/26/2009	4500				1.5		77		0.46		0.1	B	9.7		4.4		13		13000		39	

Table A-3b. Soil Samples Results, Metals (continued)

		Laboratory Parameters - Metals																					
		Al (mg/kg)		Sb (mg/kg)		As (mg/kg)		Ba (mg/kg)		Be (mg/kg)		Cd (mg/kg)		Cr (mg/kg)		Co (mg/kg)		Cu (mg/kg)		Fe (mg/kg)		Pb (mg/kg)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
300-7	7/26/2009	3600				1.5		49		0.63		0.29	B	16		3.6		9.7		16000		83	
300-8	7/26/2009	6400				4.3		42		1.3		0.35	B	16		5.6		11		19000		42	
300-9	7/26/2009	12000		0.31		2.6		110		9.1		1.8		11		7.6		25		15,000		180	
700T-1	7/25/2009	15000				0.38		14		1.3		0.15	B	5.8		6.5		6.5		4200		61	
700T-2	7/25/2009	2800				1.8		29		0.6		0.49	U	7.2		1.8		4.7		10000		54	
700T-3	7/25/2009	2900				2.3		42		1.2		0.49	U	1.4		1.2		3.7		12000		44	
700T-4	7/25/2009	1900		0.031		2.9		10		0.5	U	0.48	U	2.6		0.69	B	2.5		7300		32	
700T-5	7/25/2009	1100				0.49		2.2		0.12	B	0.49	U	0.72	B	0.083	B	1.1		6000		21	
700T-6	7/25/2009	5500		0.05		4.9		11		0.5	U	0.5	U	10		1.5		2.4		17000		28	
900 BT-17	7/26/2009	680		0.025	B	0.41		9.9	U	0.49	U	0.49	U	0.13	B	0.99	U	0.095	B	1900		8.1	
900 BT-18	7/26/2009	500				0.23		1.3		0.19		0.48	U	0.2	B	0.96	U	0.2	B	2000		5.2	
900 BT-19	7/26/2009	850		0.033		0.7		9.9	U	0.49	U	0.49	U	0.29	B	0.99	U	0.27	B	2400		13	
900 BT-20	7/26/2009	2300				0.94		6.2		0.22		0.5	U	0.81	B	1	U	0.41	B	5300		34	
900 BT-21	7/26/2009	2200		0.095		3.1		160		1		0.49	U	0.6	B	0.98	U	10		17000		110	
900 BT-22	7/26/2009	2700				2.8		190		1		0.49	U	0.36	B	0.63	B	8.4		15000		100	
900 BT-23	7/26/2009	5000		0.1		0.84		9.8	U	1		0.49	U	0.51	B	0.98	U	0.98	U	27000		57	
900 BT-24	7/26/2009	830				0.43		3.7		0.14		0.5	U	0.52	B	0.19	B	2		8600		11	
900 BT-25	7/26/2009	5200		0.087		0.83		12		1.3		0.48	U	0.48	B	0.96	U	1.4		18000		45	
900 BT-26	7/26/2009	8600				0.7		5.2		0.34		0.5	U	0.8	B	0.16	B	0.99	U	46000		30	
900 BT-27	7/26/2009	1000		0.022	B	0.2	U	9.8	U	0.49	U	0.49	U	0.4	B	0.98	U	1.6		390		13	
900AT-10	7/25/2009	300				0.16	B	1.6		0.022		0.48	U	0.2	B	0.97	U	0.18	B	1000		4.8	
900AT-11	7/25/2009	550				0.35		2.1		0.056		0.49	U	0.25	B	0.98	U	0.5	B	2400		7	
900AT-12	7/25/2009	1900				4.4		73		0.76		0.5	U	0.44	B	0.57	B	5.1		9300		76	
900AT-13	7/25/2009	1100				11		14		0.38		0.5	U	0.21	B	0.1	B	1.9		4900		32	
900AT-14	7/25/2009	270				0.046	B	1.1		0.2		0.49	U	0.24	B	0.98	U	0.32	B	340		2.1	
900AT-15	7/25/2009	130				0.12	B	0.56		0.2		0.5	U	0.11	B	1	U	1	U	1100		0.79	
900AT-16	7/25/2009	920		0.014	B	0.024	B	9.9	U	0.5	U	0.5	U	0.25	B	0.99	U	0.75	B	550		6.4	
900AT-7	7/25/2009	380				0.17	B	0.87		0.061		0.49	U	0.46	B	0.98	U	0.28	B	860		5.5	
900AT-8	7/25/2009	310		0.024	B	0.046	B	9.9	U	0.5	U	0.5	U	0.29	B	0.99	U	0.2	B	650		3.4	
900AT-9	7/25/2009	940				0.21		1.7		0.14		0.5	U	0.42	B	0.99	U	0.36	B	3500		9.9	
900L-CORR-16	7/25/2009	2000		0.076		6		53		0.68		0.5	U	0.31	B	0.28	B	6.4		8900		80	
900L-CORR-17	7/25/2009	2200		0.06		3.3		57		0.66		0.5	U	0.17	B	0.3	B	5.4		11000		65	

Table A-3b. Soil Samples Results, Metals (continued)

		Laboratory Parameters - Metals																			
		Al (mg/kg)		Sb (mg/kg)		As (mg/kg)		Ba (mg/kg)		Be (mg/kg)		Cd (mg/kg)		Cr (mg/kg)		Co (mg/kg)		Cu (mg/kg)		Fe (mg/kg)		Pb (mg/kg)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
C1 (OSA-2,-8,-10,-14)	7/26/2009					0.35																20	
C2 (OSA-3,-9,-15,-16)	7/26/2009					0.22																5.8	
DOTSON 1	7/27/2009					0.96																11	
DOTSON 1 DUP	7/27/2009					0.95																14	
IL-1	7/25/2009	4300				1.1		5.7		0.57		0.097	B	2		0.95	B	0.67	B	12000		96	
IL-2	7/25/2009	1000				0.39		9.7		1.3		0.49	U	0.72	B	1.6		3.6		9700		190	
OSA-1	7/26/2009	8900				0.91		6.1		0.21		0.5	U	11		3.8	B	0.34	B	54000		2.7	
OSA-11	7/27/2009	5000		0.074		0.61		13		0.5	U	0.078	B	5.7		2.5		6.5		12000		15	
OSA-12	7/27/2009	3000				0.32		18		0.25		0.083	B	3		1.9		6.7		6900		27	
OSA-13	7/27/2009	7300		0.024	B	0.79		9.6	U	0.5	U	0.48	U	11		3.6		16		20000		9.7	
OSA-17	7/27/2009	6400		0.051		0.19	B	10	U	0.5	U	0.5	U	21	J	2.8		4.1		10000	J	7.4	
OSA-18	7/27/2009	10000		0.021	B	0.62		39		0.5	U	0.49	U	15		7.2		20		17000		2.9	
OSA-4	7/27/2009	8300				6.8		34	J	0.85		0.49	U	15		5.7		36	J	18000		13	
OSA-4 DUP	7/27/2009	7100				5.3		19	J	0.58		0.49	U	13		4.6		7.1	J	15000		12	
OSA-5	7/27/2009	7200				4.9		26		0.62		0.49	U	13		4.7		7.2		14000		15	
OSA-6	7/27/2009	6600				3.4		21		0.54		0.5	U	18		3.7		7.2		14000		41	

Qualifier Descriptions

U Not detected at or above client requested detection limit
B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL
J The result is an estimated quantity

Table A-3b. Soil Samples Results, Metals (continued)

		Laboratory Parameters - Metals																			
		Mn (mg/kg)		Hg (mg/kg)		Mo (mg/kg)		Ni (mg/kg)		Se (mg/kg)		Ag (mg/kg)		Tl (mg/kg)		U (mg/kg)		V (mg/kg)		Zn (mg/kg)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
JUNE 2009																					
300L-CORR-1R	6/10/2009	500		0.033	U	4.4		9.9		0.98	U	0.98	U	2	U	110		32		74	
900BG-CORR-12R	6/11/2009	13		0.033	U	1.7		0.18	B	0.5	U	0.99	U	0.99	U	14		2.2		7.7	
900BG-CORR-14R	6/11/2009	4.6		0.033	U	0.13	B	0.18	B	0.49	U	0.98	U	0.98	U	1.5	J	0.94	B	4.4	
900L-CORR-13R	6/11/2009	4.9		0.033	U	0.49	B	0.31	B	0.65	B	0.96	U	0.96	U	12		1.6		6.3	
900WRD-CORR-15R	6/11/2009	770		0.033	U	1.7		0.34	B	0.5	U	9.9	U	0.99	U	1000		6.2		2700	
HR-CORR-2R	6/10/2009	770		0.033	U	2.2		11		0.99	U	0.99	U	2	U	6		52		48	
HR-CORR-3R	6/10/2009	210		0.033	U	0.36	B	5.5		0.49	U	0.99	U	0.99	U	9.2		15		24	
HR-CORR-5R	6/10/2009	320		0.033	U	0.5	B	13		0.99	U	0.99	U	2	U	7.1		43		40	
HR-CORR-6R	6/11/2009	440		0.033	U	1.1		1.5	B	0.49	U	0.99	U	0.99	U	100		6.1		58	
HR-CORR-7R	6/11/2009	180		0.033	U	0.4	B	2.6		0.49	U	0.99	U	0.99	U	31		12		27	
HR-CORR-8R	6/11/2009	340		0.033	U	1.1		5.1		0.43	B	1	U	1	U	67		20		74	
HR-CORR-8R DUP	6/11/2009	320		0.033	U	0.96	B	6.5		0.49	U	0.99	U	0.99	U	44		24		70	
HR-CORR-9R	6/11/2009	330		0.033	U	1.1		1.7	B	0.5	U	0.99	U	0.99	U	160		24		64	
IL-CORR-10R	6/11/2009	32		0.033	U	1.8		0.39	B	0.49	U	0.98	U	0.98	U	27		6.2		18	
IL-CORR-11R	6/11/2009	540		0.033	U	6.4		0.53	B	0.5	U	0.99	U	0.99	U	420		4.3		160	
OSA-CORR-4R	6/10/2009	370		0.033	U	1.1		7.5		0.5	U	1	U	1	U	220		28		50	
JULY 2009																					
300-1	7/26/2009					8.2		4.2		0.78						170		14		67	
300-10	7/26/2009	130		0.033		8.2		1.9	B	0.4	B	0.99	U	0.029		3.1		50		15	
300-11	7/26/2009	520				3.6		7.6		0.53						34		22		44	
300-12	7/26/2009					16		130		2.8						350		5.9		1800	
300-13	7/26/2009	6700		0.082		8.6		78		3.5		0.98	U	0.34		940		11		530	
300-14A	7/26/2009	770				4.6		0.34	B	0.099	U					180		2.5		82	
300-15A	7/26/2009	590				3.6		2.3		0.097	U					140		3.4		110	
300-15B	7/26/2009	460				3.4		2.2		0.097	U					260		3.6		170	
300-16	7/26/2009	430				1.9		0.39	B	0.1	U					94		1.3		63	
300-17	7/26/2009	1100				7.5		35		0.45						37		45		120	
300-18	7/26/2009	4000				9.5		2.9		2.7						3		54		24	
300-2	7/26/2009	1300				7.6		4.4		0.74						170		22		85	
300-3	7/26/2009					18		6.2		2.7						200		25		140	
300-5	7/26/2009	520				3.6		10		0.26						170		25		100	
300-6	7/26/2009	450				2		4.1		0.024	B					47		17		66	
300-7	7/26/2009	700				7.6		5.2		0.1	U					120		16		120	
300-8	7/26/2009					5.1		11		0.7						53		22		110	
300-9	7/26/2009	3400		0.15		13		13		2.4		0.99	U	0.39		1900		19		230	
700T-1	7/25/2009					3.9		2.7		3.2						10		4.9		26	
700T-2	7/25/2009	740				4.6		1.8		0.32						200		5.4		80	
700T-3	7/25/2009	600				4.3		0.73	B	0.25						230		5.2		130	
700T-4	7/25/2009	93	J	0.033	U	1.5		0.74	B	0.48	U	0.96	U	0.038		140		10		19	

Table A-3b. Soil Samples Results, Metals (continued)

		Laboratory Parameters - Metals																			
		Mn (mg/kg)		Hg (mg/kg)		Mo (mg/kg)		Ni (mg/kg)		Se (mg/kg)		Ag (mg/kg)		Tl (mg/kg)		U (mg/kg)		V (mg/kg)		Zn (mg/kg)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
700T-5	7/25/2009	30				3.9		0.27	B	0.48						3.1		3.8		30	
700T-6	7/25/2009	98	J	0.033	U	16		2.3		1.5		0.99	U	0.075		2.8		26		34	
900 BT-17	7/26/2009	2.1		0.033	U	0.99	U	0.072	B	0.26		0.99	U	0.02	U	1.7		1.5		2.1	
900 BT-18	7/26/2009	14				0.96	U	0.076	B	0.36						1.4		1.1		14	
900 BT-19	7/26/2009	31		0.033	U	0.99	U	0.1	B	0.49	U	0.99	U	0.032		1.9		3		6.9	
900 BT-20	7/26/2009	4.4				1	U	0.25	B	1.4						4.7		5.1		5.3	
900 BT-21	7/26/2009	750		0.033	U	4		0.36	B	0.49	U	0.98	U	0.17		790		4.6		170	
900 BT-22	7/26/2009	560				3		0.39	B	0.025	B					1000		4.8		170	
900 BT-23	7/26/2009	380		0.039		1.3		0.12	B	0.99		0.98	U	0.042		30		0.26	B	110	
900 BT-24	7/26/2009	71				0.95	B	0.25	B	0.16						27		2.2		38	
900 BT-25	7/26/2009	340		0.066		0.96	U	0.16	B	0.48	U	0.96	U	0.075		13		1.4		140	
900 BT-26	7/26/2009	160				0.47	B	0.17	B	0.91						5.8		2.5	U	140	
900 BT-27	7/26/2009	1.8		0.033	U	0.98		0.15	B	0.49	U	0.047	B	0.02	U	2		0.72	B	1.9	B
900AT-10	7/25/2009	4.3				0.46	B	0.97	U	0.035	B					2		1.9		3.8	
900AT-11	7/25/2009	9.1				0.9	B	0.12	B	0.19						9.9		2.5		10	
900AT-12	7/25/2009	650				1.4		0.2	B	0.21						480		4		84	
900AT-13	7/25/2009	190				0.64	B	0.087	B	0.31						240		1.4		31	
900AT-14	7/25/2009	3.8				0.98	U	0.084	B	0.24						4.1		0.71		1.9	
900AT-15	7/25/2009	18				0.23	B	1	U	0.1	U					2.2		0.47	B	2.4	
900AT-16	7/25/2009	2.5	J	0.033	U	0.99		0.091	B	0.53		0.99	U	0.02	U	2.1		0.45	B	2.7	
900AT-7	7/25/2009	2.9				0.98	U	0.98	U	0.065	B					2.3		1.3		3.3	
900AT-8	7/25/2009	3.3	J	0.033	U	0.99	U	2	U	0.5	U	0.99	U	0.02	U	2.5		1.1		3.1	
900AT-9	7/25/2009	7.3				0.92	B	0.2	B	0.5						3.9		1.8		10	
900L-CORR-16	7/25/2009	390	J	0.033	U	7.9		0.15	B	0.5	U	0.99	U	0.073		720		3.9		73	
900L-CORR-17	7/25/2009	440	J	0.033	U	1.3	J	0.12	B	0.5	U	1	U	0.084		580		3.4		75	
C1 (OSA-2,-8,-10,-14)	7/26/2009									0.66						120					
C2 (OSA-3,-9,-15,-16)	7/26/2009									1.1						110					
DOTSON 1	7/27/2009									0.64						2.5					
DOTSON 1 DUP	7/27/2009									0.66						3.7					
IL-1	7/25/2009	390				2.2		0.51	B	0.77						7.7		8.3		350	
IL-2	7/25/2009	310				3.2		1.1		0.24						140		4.9		49	
OSA-1	7/26/2009	130				0.95	B	2.5		0.6						10		92		9.5	
OSA-11	7/27/2009	150		0.06		0.69		4.2		0.67		0.99	U	0.026		250		16		21	
OSA-12	7/27/2009	150				0.46	B	2.1		0.39						460		15		22	
OSA-13	7/27/2009	250		0.057		1.1		4.3		0.96	U	0.96	U	0.027		95		52		15	
OSA-17	7/27/2009	150		0.055		1		6.9		0.44		1	U	0.023		11		32		15	
OSA-18	7/27/2009	310		0.033	U	0.99	U	8.8		0.49	U	0.99	U	0.024		20		29		38	
OSA-4	7/27/2009	480				1.3		10		0.33						84		35		61	
OSA-4 DUP	7/27/2009	390				0.98		7.5		0.27						83		27		49	
OSA-5	7/27/2009	430				0.79	B	7.7		0.21						250		28		50	

Table A-3b. Soil Samples Results, Metals (continued)

		Laboratory Parameters - Metals																			
		Mn (mg/kg)		Hg (mg/kg)		Mo (mg/kg)		Ni (mg/kg)		Se (mg/kg)		Ag (mg/kg)		Tl (mg/kg)		U (mg/kg)		V (mg/kg)		Zn (mg/kg)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
OSA-6	7/27/2009	260				0.77	B	8.1		0.19						240		26		49	

Qualifier Descriptions

U Not detected at or above client requested detection limit
B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL
J The result is an estimated quantity

Table A-3c. Soil Samples Results, Radiochemistry

		Laboratory Parameters - Radiochemistry															
		Th-232 Decay Chain										U-235 Decay Chain		U-238 Decay Chain			
		Th-232 (ρCi/g)		Ra-228 (ρCi/g)		Th-228 (ρCi/g)		Pb-212 (ρCi/g)		Bi-212 (ρCi/g)		U-235 (ρCi/g)		U-238 (ρCi/g)		Th-234 (ρCi/g)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
June 2009																	
300L-CORR-1R	6/10/2009	62	M3	25.6		61	M3	27.4		29.7		2.1				37.4	
900BG-CORR-12R	6/11/2009	9.9		4.74		9.4	M3	6		8.2		0.68				8.6	
900BG-CORR-14R	6/11/2009	0.63		1.18	J+	0.93		1.43	J+	1.2	J+	0.08	J+			2.7	
900L-CORR-13R	6/11/2009	3.96		5.2	J+	5.15	M3	5.83	J+	5.4	J+	1	J+			9.1	
900WRD-CORR-15R	6/11/2009	285	M3	235	J+	293	M3	268	J+	298	J+	19.1	J+			420	
HR-CORR-2R	6/10/2009	2.4	J	0.9	J	2.77	J	1.55		0.8		-0.35				1.3	
HR-CORR-3R	6/10/2009	8	P	3.3		7.9	P	4.26		5.3		-0.58				6.4	
HR-CORR-5R	6/10/2009	2.7		1.2	J	2.93		1.46		0.5		-0.43				3.1	
HR-CORR-6R	6/11/2009	28.3	M3	44.8		26.6	M3	45		49		2.6				64.6	
HR-CORR-7R	6/11/2009	9.6		7.1		9.3		7.6		8.3		1.17				11.5	
HR-CORR-8R	6/11/2009	6.7		7.4		7.5	M3	8.5		6.1		1.2				16.6	
HR-CORR-8R DUP	6/11/2009	7.6		8.3		8.1	M3	9.8		9.3		1.07				20.6	
HR-CORR-9R	6/11/2009	30.9	M3	33		28.7	M3	35.5		32.7		4.4				64.6	
IL-CORR-10R	6/11/2009	13.5		8.1		11.1	M3	8		8.1		0.7				13.1	
IL-CORR-11R	6/11/2009	187	M3	110		180	M3	114		118		6.9				198	
OSA-CORR-4R	6/10/2009	35.1	M3	31.5		37.8	M3	35.1		32.6		1.9				35.1	
July 2009																	
300-1	7/26/2009	62	M3	25.6		61	M3	27.4		29.7		2.1				37.4	
300-10	7/26/2009	1.2		1.72	J	1.46		1.99	J	2.9	U, J	0.4	U, J	2.23		4.1	J
300-11	7/26/2009	6.5	M3	3.23		7.1	M3	4.76		4.6		0.94	U			10.5	
300-12	7/26/2009	10.4		24.7	J	21.1	M3	31.2	J	26	J	9	J			174	J
300-13	7/26/2009	40.5	M3	42.4	J	49.3	M3	48.2	J	45	J	17.4	J	385	M3	386	J
300-14A	7/26/2009	94	M3	178	J	134	M3	190	J	206	J	5.6	U, J			173	J
300-15A	7/26/2009	136	M3	102		143	M3	106		128		3.6				110	
300-15B	7/26/2009	98	M3	103	J	110	M3	106	J	119	J	2.4	U, J			131	J
300-16	7/26/2009	109	M3	84.4	J	130	M3	89	J	97	J	3.6	U, J			108	J
300-17	7/26/2009	11.7		9.6	J	12.6	M3	11.9	J	9.2	J	0.7	U, J			21.1	J
300-18	7/26/2009	0.91		0.73	U, J	0.93		1.05	J	0.8	U, J	0.33	U, J			0.5	U, J
300-2	7/26/2009	25.8	M3	20.8		29	M3	22.1		27.8		2.7	U			52.7	
300-3	7/26/2009	23.1	M3	22.2	J	23.3	M3	25.1	J	29	J	7.1	U, J			109	J
300-5	7/26/2009	50.6	M3	44.4	J	53.3	M3	46.6	J	45.9	J	3.8	U, J			65	J
300-6	7/26/2009	68	M3	42.8		75	M3	45.8		45.2		1.4	U			48.4	J
300-7	7/26/2009	70	M3	53		68	M3	53.8		60.6		1.3	U			57.4	
300-8	7/26/2009	13.9	M3	6.9	J	16.8	M3	7.3	J	8.7	J	0.89	U, J			14.9	J
300-9	7/26/2009	106	M3	120	J	101	M3	144	J	130	J	50	J	700	M3	1030	J
700T-1	7/25/2009	0.99		2.9	J	1.89	M3	3.06	J	7	U, J	-0.2	U, J			5.3	J

Table A-3c. Soil Samples Results, Radiochemistry (continued)

		Laboratory Parameters - Radiochemistry															
		Th-232 Decay Chain										U-235 Decay Chain		U-238 Decay Chain			
		Th-232 (pCi/g)		Ra-228 (pCi/g)		Th-228 (pCi/g)		Pb-212 (pCi/g)		Bi-212 (pCi/g)		U-235 (pCi/g)		U-238 (pCi/g)		Th-234 (pCi/g)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
July 2009																	
700T-2	7/25/2009	46.1	M3	71.2		39	M3	78.3		68		6.3				121	
700T-3	7/25/2009	123	M3	59.3		81	M3	67.7		68		6				126	
700T-4	7/25/2009	26.7	M3	22.1		24.4	M3	23.2		27.7		1.5	U	30.4	M3	43.5	
700T-5	7/25/2009	2.53		2.84	J	3.25		3.94	J	4.2	U, J	0.7	U, J			4.3	U, J
700T-6	7/25/2009	2.74		2.2		2.68		2.85		1.8	U	-0.16	U	3.15		5	J
900 BT-17	7/26/2009	1.19		1.22		1.62		1.81		1.4	U	0.33	U	2.12		2.6	U
900 BT-18	7/26/2009	1.68		1.46	J	1.67		1.55	J	-0.7	U, J	0.16	U, J			1.1	U, J
900 BT-19	7/26/2009	1.16		1.29	J	1.27		1.33	J	2.4	U, J	-0.72	U, J	1.31		-1.4	U, J
900 BT-20	7/26/2009	2.13		3.1	J	2.5		3.78	J	6	J	0.5	U, J			4.7	U, J
900 BT-21	7/26/2009	307	M3	272	J	359	M3	277	J	298	J	19.5	J	317	M3	338	J
900 BT-22	7/26/2009	220	M3	203	J	252	M3	214	J	238	J	16.3	J			343	J
900 BT-23	7/26/2009	12	M3	9.2		11.6	M3	10.5		7.5		-0.1	U	12.5	M3	13.8	
900 BT-24	7/26/2009	6.7		6.2		7		6.28		7.3		0.29	U			11.6	
900 BT-25	7/26/2009	11.6		11.1		14.4	M3	11.8		9.3		0.26	U	9.4	M3	11.8	
900 BT-26	7/26/2009	4.37		2.85	J	4.57	M3	3.59		2.5	U	0.65	U			1.4	U
900 BT-27	7/26/2009	1.56		1.11	J	1.23		1.65		1.6	U	0.06	U	1.87		2.8	U
900AT-10	7/25/2009	1.19		2.89	P	1.24		3.55	P	2.5	U	-0.38	U			8	J
900AT-11	7/25/2009	6.6		5.07		6.1	M3	5.24		4	U	0.05	U			6.3	J
900AT-12	7/25/2009	131	M3	132	J	139	M3	136	J	140	J	8.6	J			198	J
900AT-13	7/25/2009	53.2	M3	59.3	J	61	M3	61.2	J	61	J	4.1	J			98	J
900AT-14	7/25/2009	5	M3	5.16		5.4	M3	5.94		6.4		0.4	U			7.2	J
900AT-15	7/25/2009	1.53		3.1		1.75		3.71		2.5	U	0.03	U			2.9	U
900AT-16	7/25/2009	0.81		1.35	J	0.81		1.19	J	-0.5	U, J	0.08	U, J	1.84		1.7	U, J
900AT-7	7/25/2009	2.08		2.69	J	2.42	M3	2.16		3		0.57	U			5.4	J
900AT-8	7/25/2009	1.12		1.26	J	1.31		1.57		0.9	U	0.19	U	1.87		2.5	U
900AT-9	7/25/2009	5.02		3.31		4		3.44		4.5		0.32	U			5.7	
900L-CORR-16	7/25/2009	164	M3	152	J	143	M3	155	J	166	J	10.2	J	256	M3	272	J
900L-CORR-17	7/25/2009	170	M3	157	J	207	M3	166	J	176	J	10.2	J	302	M3	223	J
C1 (OSA-2,-8,-10,-14)	7/26/2009	22.3		23	J	24.6	M3	24	J	25	J	4	U, J			76	J
C2 (OSA-3,-9,-15,-16)	7/26/2009	2.16		1.5	U, J	2.49	M3	2.2	J	0.7	U, J	0	U, J			1	U, J
DOTSON 1	7/27/2009	1.53		1.78	J	1.61		2.07	J	4	J	-0.33	U, J			2.5	U, J
DOTSON 1 DUP	7/27/2009	1.36		1.16	J	1.4		1.41	J	3	U, J	0.24	U, J			3.3	U, J
IL-1	7/25/2009	9.4		16		13.3	M3	16.5		17.8		0.1	U			14.8	
IL-2	7/25/2009	56	M3	57.2		59	M3	57.5		63		5.5	U			94	
OSA-1	7/26/2009	1.19		1.13	J	1.14		1.37	J	0.9	U, J	0.1	U, J			1.6	U, J
OSA-11	7/27/2009	59.1		60.1	J	60.1	M3	66.3	J	68	J	7.2	J	38.5	M3	130	J

Table A-3c. Soil Samples Results, Radiochemistry (continued)

		Laboratory Parameters - Radiochemistry															
		Th-232 Decay Chain										U-235 Decay Chain		U-238 Decay Chain			
		Th-232 (ρCi/g)		Ra-228 (ρCi/g)		Th-228 (ρCi/g)		Pb-212 (ρCi/g)		Bi-212 (ρCi/g)		U-235 (ρCi/g)		U-238 (ρCi/g)		Th-234 (ρCi/g)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
July 2009																	
OSA-12	7/27/2009	60	M3	70.2	J	70	M3	78.8	J	82	J	12.4	J			254	J
OSA-13	7/27/2009	17.4	M3	17	J	19.7	M3	21.7	J	24.2	J	2.8	J	43.5	M3	65	J
OSA-17	7/27/2009	1.24		2.2	J	1.6		2.38	J	1.6	U, J	0.2	U, J	4.46		8.9	J
OSA-18	7/27/2009	2.39		4.04		3.56	M3	4.61		3.4	U	0.04	U	9.5		9.6	
OSA-4	7/27/2009	12.5		8.8		13.8	M3	9.5		10.4		0.61	U			23.3	
OSA-4 DUP	7/27/2009	17.3	M3	12	J	17.6	M3	12.1	J	11.9	J	0.69	U, J			27.3	J
OSA-5	7/27/2009	38.2	M3	24		36.2	M3	26.4		26.1		2	U			49	
OSA-6	7/27/2009	53.7	M3	44.1		54.1	M3	48.6		49.3		4.4				73	

Qualifier Descriptions

M3 The requested Minimum Detectable Concentration (MDC) was not met, but the reported activity is greater than the reported MDC
J Values are an estimated value; J+ or J- are used to indicate a high or low bias
U Result is less than the sample specific MDC or less than the associated Total Propagated Uncertainty (TPU)
P A Result with an associated replicate result that exceeds the control limit
B A result with associated blank result, which is outside the control limit, B+ or B- used to indicate high or low results

Table A-3c. Soil Samples Results, Radiochemistry (continued)

		Laboratory Parameters - Radiochemistry															
		U-238 Decay Chain															
		U-234 (ρCi/g)		Th-230 (ρCi/g)		Ra-226 (ρCi/g)		Pb-214 (ρCi/g)		Bi-214 (ρCi/g)		Pb-210 (ρCi/g)		Po-210 (ρCi/g)		Tl-208 (ρCi/g)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
JUNE 2009																	
300L-CORR-1R	6/10/2009			51.8		20.2	M3	16.8	J	14	J	24.9				8.3	
900BG-CORR-12R	6/11/2009			12.3		11.2	M3	9.8	J	8.6	J	6.9				1.7	
900BG-CORR-14R	6/11/2009			2.53		4.94	J+, M3	3.98	J, J+	3.66	J, J+	2.99				0.34	J+
900L-CORR-13R	6/11/2009			7.3		12.5	J+, M3	9.7	J, J+	9.8	J, J+	7.9				1.71	J+
900WRD-CORR-15R	6/11/2009			680		631	J+, M3	561	J, J+	479	J, J+	510				77	J+
HR-CORR-2R	6/10/2009			3.37	J	1.88	M3	1.8	J	1.25	J	3.65				0.44	
HR-CORR-3R	6/10/2009			9.4	P	6.16	M3	4.96	J	4.56	J	3.62				1.51	
HR-CORR-5R	6/10/2009			3.21		2.62	M3	2.35	J	1.91	J	2.41				0.38	
HR-CORR-6R	6/11/2009			41.4		60.5	M3	48.5	J	45.1	J	41.1				14.3	
HR-CORR-7R	6/11/2009			12.1		13.4	M3	10.8	J	10.3	J	11.2				2.29	
HR-CORR-8R	6/11/2009			12.3		17.2	M3	14.1	J	13	J	10.2				2.77	
HR-CORR-8R DUP	6/11/2009			13.9		19.3	M3	16.7	J	15	J	10.8				2.94	
HR-CORR-9R	6/11/2009			80		97	M3	83.7	J	74.9	J	63				10.9	
IL-CORR-10R	6/11/2009			21.2		15.6	M3	12.4	J	11.8	J	10.4				2.55	
IL-CORR-11R	6/11/2009			346		245	M3	209	J	192	J	150				35.3	
OSA-CORR-4R	6/10/2009			62		63.7	M3	55.2	J	48.8	J	62				11	
JULY 2009																	
300-1	7/26/2009			46.5		117	J, M3	98	J	82	J	40.2		50.3	M3	8.2	J
300-10	7/26/2009	2.13		2.04		3.72	J, M3	3.06	J	2.64	J	2.74		2.29		0.44	J
300-11	7/26/2009			13.2	M3	10.4	M3	8.4	J	8.4	J	6.3		8.2	M3	1.33	
300-12	7/26/2009			12.1	M3	49.6	J, M3	42.6	J	32.6	J	13.1		16		9.3	J
300-13	7/26/2009	428	M3	82	M3	102	J, M3	82.7	J	75.2	J	55		79	M3	14.9	J
300-14A	7/26/2009			164	M3	447	J, M3	356	J	337	J	138		187	M3	60.2	J
300-15A	7/26/2009			133	M3	138	M3	118	J	110	J	100		111	M3	36	
300-15B	7/26/2009			92	M3	111	J, M3	94	J	87.7	J	61		77	M3	34.3	J
300-16	7/26/2009			99	M3	83	J, M3	70.8	J	61.7	J	51		69	M3	27.9	J
300-17	7/26/2009			17.1	M3	16.8	J, M3	13.9	J	10.8	J	11		15.8	M3	3.98	J
300-18	7/26/2009			1.22		1.95	J, M3	1.57	J	1.42	J	2.89		3.13		0.3	J
300-2	7/26/2009			46.2	M3	67.9	M3	54.1	J	51.1	J	34.4		45.5	M3	6.94	
300-3	7/26/2009			59.5	M3	232	J, M3	187	J	160	J	36.6		38.7		6.1	J
300-5	7/26/2009			59	M3	51	J, M3	43.6	J	39.9	J	45		49.9	M3	14.2	J
300-6	7/26/2009			23.2	M3	32.8	M3	27.1	J	24.3	J	29.6		47	M3	14.4	
300-7	7/26/2009			73	M3	73.8	M3	58.6	J	56	J	61		69		17.2	
300-8	7/26/2009			23.4	M3	20.5	J, M3	17.4	J	15.3	J	18.6		21.3		2.43	J
300-9	7/26/2009	730	M3, B+	222	M3	224	J, M3	183	J	162	J	131		171	M3	43.6	J

Table A-3c. Soil Samples Results, Radiochemistry (continued)

		Laboratory Parameters - Radiochemistry															
		U-238 Decay Chain															
		U-234 (ρCi/g)		Th-230 (ρCi/g)		Ra-226 (ρCi/g)		Pb-214 (ρCi/g)		Bi-214 (ρCi/g)		Pb-210 (ρCi/g)		Po-210 (ρCi/g)		Tl-208 (ρCi/g)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
JULY 2009																	
700T-1	7/25/2009			1.61	M3	4.81	J, M3	4.43	J	2.7	J	7.3		10.4		0.97	J
700T-2	7/25/2009			66	M3	139	M3	118	J	105	J	147		64.2		23.6	
700T-3	7/25/2009			221	M3	136	M3	112	J	98	J	119		121	M3	20.5	
700T-4	7/25/2009	28.7	M3	36.7	M3	31.6	M3	25.1	J	24.2	J	24		23.7		7.6	
700T-5	7/25/2009			2.87		6.73	J, M3	6.04	J	4.56	J	3.07		1.36		1.09	J
700T-6	7/25/2009	2.92		3.31		4.78	M3	4.05	J	3.44	J	4.2		3.94		0.91	
900 BT-17	7/26/2009	2.06		2.26		4.27	M3	3.66	J	3.13	J	2.01		1.36		0.59	
900 BT-18	7/26/2009			1.6		2.29	J, M3	1.78	J	1.79	J	1.74		0.49		0.46	J
900 BT-19	7/26/2009	1.56		1.7		3.41	J, M3	2.81	J	2.84	J	2.75		2.17		0.39	J
900 BT-20	7/26/2009			3.28		6.12	J, M3	4.92	J	4.5	J	2.76		2.24		0.88	J
900 BT-21	7/26/2009	298	M3, B+	590	M3	569	J, M3	477	J	437	J	410		527	M3	86	J
900 BT-22	7/26/2009			466	M3	493	J, M3	403	J	374	J	317		358	M3	66	J
900 BT-23	7/26/2009	12	M3	14.2	M3	14.6	M3	12.5	J	10.7	J	9.7		8.2		3.23	
900 BT-24	7/26/2009			11.3	M3	12.9	M3	11	J	8.1	J	8.7		6		1.93	
900 BT-25	7/26/2009	8.6	M3	10.1	M3	11.7	M3	9.5	J	9.2	J	8.9		6.1		3.97	
900 BT-26	7/26/2009			3.88	M3	3.25	M3	2.77	J	2.55	J	3.4		3.1		1.11	
900 BT-27	7/26/2009	1.96		1.7		2.69	M3	2.37	J	1.89	J	1.83		0.79		0.26	
900AT-10	7/25/2009			2.19		6.94	P, M3	5.94	J, P	5.4	J	2.88		1.59		0.98	
900AT-11	7/25/2009			9.5	M3	8.8	M3	8	J	6.24	J	6.5		4.46		1.56	
900AT-12	7/25/2009			262	M3	253	J, M3	207	J	192	J	159		160	M3	41.8	J
900AT-13	7/25/2009			100	M3	113	J, M3	97	J	86	J	58		63.5	M3	19.2	J
900AT-14	7/25/2009			4.56	M3	5.39	M3	4.47	J	3.99	J	3.65		1.53		1.94	
900AT-15	7/25/2009			2.37		4.07	M3	3.65	J	2.92	J	2.33		0.32		1.02	
900AT-16	7/25/2009	1.85		1.6	M3	2.33	J, M3	1.98	J	1.65	J	2.38		1.19		0.39	J
900AT-7	7/25/2009			3.17	M3	4.05	M3	3.48	J	2.96	J	2.66		0.47		0.84	
900AT-8	7/25/2009	1.94		1.7		3.39	M3	2.94	J	2.33	J	1.66		0.35		0.41	
900AT-9	7/25/2009			4.82	M3	8	M3	6.6	J	5.69	J	5.2		2.5		1.18	
900L-CORR-16	7/25/2009	244	M3, B+	427	M3	351	J, M3	277	J	271	J	210		223	M3	49.7	J
900L-CORR-17	7/25/2009	266	M3, B+	438	M3	383	J, M3	313	J	291	J	237		259	M3	51.6	J
C1 (OSA-2,-8,-10,-14)	7/26/2009			44.3	M3	41.6	J, M3	37.6	J	28.1	J	34.5		38.9		7.9	J
C2 (OSA-3,-9,-15,-16)	7/26/2009			3.82	M3	2.96	J, M3	2.11	J	2.9	J	8.9		13.3		0.55	J
DOTSON 1	7/27/2009			2.09		2.77	J, M3	2.3	J	2.16	J	2.02		0.8		0.49	J
DOTSON 1 DUP	7/27/2009			2.21		2.51	J, M3	2.12	J	1.77	J	1.92		0.95		0.36	J
IL-1	7/25/2009			4.24	M3	5.89	M3	4.63	J	4.52	J	4.6		3.4		5.46	
IL-2	7/25/2009			83	M3	95	M3	82	J	73	J	38		31.2		18.4	
OSA-1	7/26/2009			2.38		1.98	J, M3	1.67	J	1.48	J	0.9		0.6		0.34	J

Table A-3c. Soil Samples Results, Radiochemistry (continued)

		Laboratory Parameters - Radiochemistry															
		U-238 Decay Chain															
		U-234 (ρCi/g)		Th-230 (ρCi/g)		Ra-226 (ρCi/g)		Pb-214 (ρCi/g)		Bi-214 (ρCi/g)		Pb-210 (ρCi/g)		Po-210 (ρCi/g)		Tl-208 (ρCi/g)	
Sample ID	Date	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
JULY 2009																	
OSA-11	7/27/2009	39.9	M3	98	M3	86.1	J, M3	69.8	J	61.3	J	68		71	M3	19.4	J
OSA-12	7/27/2009			91	M3	148	J, M3	119	J	109	J	163		179	M3	23	J
OSA-13	7/27/2009	44.5	M3	37	M3	39.6	J, M3	34.1	J	30.5	J	23.7		33.7	M3	6.28	J
OSA-17	7/27/2009	4.52		2.56		7.1	J, M3	6.2	J	4.6	J	3.69		4.09	M3	0.98	J
OSA-18	7/27/2009	9.1		4.93	M3	11.1	M3	9.4	J	7.9	J	6.9		6.7		1.5	
OSA-4	7/27/2009			23.3	M3	17.8	M3	15.1	J	12.7	J	15.7		16.3		3.11	
OSA-4 DUP	7/27/2009			30.6	M3	20.7	J, M3	17.6	J	16.2	J	18		18.9	M3	4.13	J
OSA-5	7/27/2009			71	M3	46.7	M3	39.9	J	33.3	J	43.1		52.6	M3	7.8	
OSA-6	7/27/2009			101	M3	93	M3	76.9	J	69	J	71		86		14.6	

Qualifier Descriptions

M3 The requested Minimum Detectable Concentration (MDC) was not met, but the reported activity is greater than the reported MDC
J Values are an estimated value; J+ or J- are used to indicate a high or low bias
U Result is less than the sample specific MDC or less than the associated Total Propagated Uncertainty (TPU)
P A Result with an associated replicate result that exceeds the control limit
B A result with associated blank result, which is outside the control limit, B+ or B- used to indicate high or low results

Table A-4. XRF Soil Sample Results - Lead

Sample ID	Ex-Situ Lab Data (mg/kg)	Ex-Situ XRF Data (mg/kg)
300L1	54.0	142.4
HR2	11.0	27.5
HR3	7.5	22.5
OSA4	29.0	166.4
HR5	4.9	20.1
HR6	80.0	224.0
HR7	12.0	58.6
HR8	56.0	93.0
HR8DUP	59.0	92.8
HR9	33.0	133.3
IL10	32.0	56.1
IL11	130.0	479.8
900BG12	11.0	37.0
900L13	11.0	35.9
900BG14	5.2	34.8
900WRD15	180.0	918.3

Note:

Ex-Situ sample ~ XRF Soil Cup sample = #60 (250um) sieved sample

Table A-5. Summary of Portal Air Temperature and Flow Measurements

Location	Date	Time	Temp at Portal Entrance (°F)	Temp ~30 ft Inside Portal Current (°F)	Temp ~30 ft Inside Portal 24-hr Max (°F)	Temp ~30 ft Inside Portal 24-hr Min (°F)	Max Air Flow Out of Portal (mph)	Temp at 200 ft Outside of Portal Entrance (°F)	Temp at 300 ft Outside of Portal Entrance (°F)
700 Level Portal	6/9/2009	1600	66	51	*	*	0	*	*
	6/10/2009	1800	64	51	52	47	0	*	*
300 Level Portal	6/10/2009	1100	51	*	*	*	1.3	67	71
	6/11/2009	1220	51	43	*	*	2.1	57	62
	6/12/2009	1120	49	43	43	43	*	*	*
Air Shaft (~30 feet depth)	6/11/2009	1430	66	56	56	47	*	*	*

Notes:
Marks with a "*" indicate that no data was collected.

Table A-6a Stream Sediment Results, Inorganics, Total Organic Carbon, Texture, % Solids

Sample ID	Date	Laboratory Parameters – Inorganics				Soil Texture							Total Organic Carbon			
		pH (mg/kg)		Acid Volatile Sulfide (mg/kg)		Soil Texture (%)							Total Organic Carbon (%)		Percent Solids	
		Conc.	Qual	Conc.	Qual	Clay	Qual	Sand	Qual	Silt	Qual	Texture Class.	%	Qual	%	Qual
300L-SS-01-A	7/26/2009	5.7		40	U, J	10.0		85.0		5.0		Loamy Sand	0.3	B, RA	99.4	
300L-SS-01-B	7/26/2009	5.37		40	U, J	5.0		83.8		11.3		Loamy Sand	0.8	RA	99.4	
300L-SS-01-E	7/26/2009	6.76		40	U, J	7.5		82.5		10.0		Loamy Sand	0.4	B, RA	99.0	
CONF-SS-01-C	7/25/2009	5.93		40	U, J	3.8		90.0		6.3		Sand	-	U, RA	99.7	
CONF-SS-01-K	7/25/2009	6.16		40	U, J	5.0		90.0		5.0		Sand	-	U, RA	99.8	
CONF-SS-01-K-2	7/26/2009	5.82		40	U, J	5.0		91.3		3.8		Sand	0.2	B, RA	99.6	
CONF-SS-01-KC	7/25/2009	5.82		40	U, J	7.5		87.5		5.0		Loamy Sand	-	U, RA	99.7	
KBD-SS-01-A	7/25/2009	5.64		40	U, J	5.0		91.3		3.8		Sand	-	U, RA	99.7	
KBD-SS-01-B	7/25/2009	5.65		40	U, J	3.8		92.5		3.8		Sand	-	U, RA	99.7	
900L-SS-01-A	7/27/2009	4.95		40	U, J	2.5		93.8		3.8		Sand	-	U, RA	99.8	
900L-SS-01-B	7/27/2009	5.16		40	U, J	3.8		87.5		8.8		Sand	-	U, RA	99.8	
900L-SS-01-C	7/27/2009	5.34		40	U, J	2.5		95.0		2.5		Sand	-	U, RA	99.9	
Field QC																
900L-SS-02-A	7/27/2009	4.78		40	U, J	2.5		93.8		3.8		Sand	-	U, RA	99.9	

Qualifier Descriptions

J Values are an estimated value
U Material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit
RA RPD was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL)
B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity

Table A-6b. Stream Sediment Results, Metals

Sample ID	Date	Laboratory Parameters - Metals																			
		Al (mg/kg)		Sb (mg/kg)		As (mg/kg)		Ba (mg/kg)		Be (mg/kg)		Cd (mg/kg)		Cr (mg/kg)		Co (mg/kg)		Cu (mg/kg)		Fe (mg/kg)		Pb (mg/kg)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
300L-SS-01-A	7/26/2009	6300		0.23		4.2		69		1.4		0.64		26		5.4		12		19000		39	
300L-SS-01-B	7/26/2009	7100				4.1		70		1.4		0.82		17		6.4		25		27000		45	
300L-SS-01-E	7/26/2009	7500				5		41		1.8		0.48	B	14		9.7		3.8		24000		64	
CONF-SS-01-C	7/25/2009	8400		0.022	B	2.4		16		0.57		0.12	B	13		6.7		5.6		19000		5.2	
CONF-SS-01-K	7/25/2009	6500		0.06		2.3		36		0.49		0.29	B	14		4.4		6.7		14000		8	
CONF-SS-01-K-2	7/26/2009	8800		0.086		3.1		54		0.85		0.33	B	19		6		10		18000		12	
CONF-SS-01-KC	7/25/2009	6700				2		35		0.6		0.12	B	8		3.3		3.6		13000		7.2	
KBD-SS-01-A	7/25/2009	8500	J	0.19		4		72		0.69		0.26	B	21	J	5.3		8.9	J	21000	J	7	
KBD-SS-01-B	7/25/2009	7400		0.1		3.3		50		0.72		0.25	B	16		4.8		8.2		19000		8	
900L-SS-01-A	7/27/2009	1100				0.79		6.8	J	0.58	J	0.48	U	1		0.33	B	0.95	U	3000		15	
900L-SS-01-B	7/27/2009	1100		0.043		2.1		9.9	U	0.59		0.49	U	0.19		0.25	B	0.99		3800		22	
900L-SS-01-C	7/27/2009	880				0.68		5		2.7		0.49	U	0.14	B	0.13	B	0.98	U	1900		20	
Field QC																							
900L-SS-02-A	7/27/2009	1600				1.2		12	J	1.5	J	0.49	U	0.87	B	0.43	B	0.97	U	4200		18	

Qualifier Descriptions

U Not detected at or above client requested detection limit
B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL
J The result is an estimated quantity. J+ or J- are used to indicate a high or low bias

Table A-6b. Stream Sediment Results, Metals (continued)

Sample ID	Date	Laboratory Parameters - Metals																	
		Mn (mg/kg)		Hg (mg/kg)		Mo (mg/kg)		Ni (mg/kg)		Se (mg/kg)		Ag (mg/kg)		Tl (mg/kg)		U (mg/kg)		V (mg/kg)		Zn (mg/kg)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
300L-SS-01-A	7/26/2009	1600		0.033	U	7.6		22		1.2		0.18	B	0.2		47		37		160	
300L-SS-01-B	7/26/2009	1700				11		31		4						9.9		48		230	
300L-SS-01-E	7/26/2009	2600				7.5		4.6		0.81						270		21		220	
CONF-SS-01-C	7/25/2009	830		0.033	U	1.2		7		0.49	U	0.05	B	0.061		2.1		28		64	
CONF-SS-01-K	7/25/2009	420		0.033	U	1		19		0.48	U	0.1	B	0.066		3.2		23		100	
CONF-SS-01-K-2	7/26/2009	570		0.033	U	2.7		22		0.98	U	0.092	B	0.072		9.2		31		130	
CONF-SS-01-KC	7/25/2009	460				2		9		0.45						4.7		20		64	
KBD-SS-01-A	7/25/2009	380	J	0.033	U	3.8		22	J	3.2		0.22	B	0.066		3.2	J	53	J	120	J, J-
KBD-SS-01-B	7/25/2009	460		0.033	U	3.1		15		0.49	B	0.086	B	0.087		4		31		100	
900L-SS-01-A	7/27/2009	150				0.52	B	0.29	B	0.064	B					3.6		1.8	J	22	
900L-SS-01-B	7/27/2009	130		0.0088	B	0.99	U	2	U	0.49	U	0.99	U	0.042		3.3		1.7		13	
900L-SS-01-C	7/27/2009	29				0.21	B	0.98	U	0.098	U					4.1		3.1		6	
Field QC																					
900L-SS-02-A	7/27/2009	200				0.6	B	0.32	B	0.084	B					5.4		3.3	J	24	

Table A-6c. Stream Sediment Results, Radiochemistry

Sample ID	Date	Laboratory Parameters - Radiochemistry																					
		Th-232 Decay Chain										U-235 Decay Chain		U-238 Decay Chain									
		Th-232 (pCi/g)		Ra-228 (pCi/g)		Th-228 (pCi/g)		Pb-212 (pCi/g)		Bi-212 (pCi/g)		U-235 (pCi/g)		U-238 (pCi/g)		Th-234 (pCi/g)		U-234 (pCi/g)		Th-230 (pCi/g)		Ra-226 (pCi/g)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
300L-SS-01-A	7/26/2009	7.2		6.8		7.5	M3	6.34		6.6		0.84	U	12.4		12.6		12.6		10.6	M3	15.8	M3
300L-SS-01-B	7/26/2009	4.56		5.05		5.27	M3	5.26		4.3		-0.07	U			6.7	J			6.7	M3	6.74	M3
300L-SS-01-E	7/26/2009	23.6	M3	47.6		38.6	M3	35		38		3.8				96				37.5	M3	114	M3
CONF-SS-01-C	7/25/2009	1.04		1.02	J	1.32		0.86		1.7	U	0.23	U	1.93		1	U	1.91		1.96		2.17	
CONF-SS-01-K	7/25/2009	1.15		1.47		1.48		1.46		1.9	U	0.34	U	1.73		-0.9	U	1.98		2.1		3.36	M3
CONF-SS-01-K-2	7/26/2009	1.69		2.84		2.31	M3	2.96		2.7	U	0.16	U	2.63		5.1	J	2.76		3.14	M3	6.24	M3
CONF-SS-01-KC	7/25/2009	0.97		1.38	J	1.18	M3	1.09		1.2	U	0.07	U			0.7	U			1.64		3.21	M3
KBD-SS-01-A	7/25/2009	1.4		0.89		1.52		1.11		1	U	0.49	U	2.13		0.8	U	2.06		2.18		2.1	
KBD-SS-01-B	7/25/2009	1.55		2.59		2.07		2.76		0.9	U	0.41	U	6.2		3.9	J	5.6		2.22		4.56	M3
900L-SS-01-A	7/27/2009	1.91		1.89	J	2.39		2.74		1.3	U	-0.05	U			1.6	U			2.77		4.8	M3
900L-SS-01-B	7/27/2009	2.45		2.04	J	2.41		2.55		0.9	U	0.06	U	2.46		3.3	U	2.72		3		4.9	M3
900L-SS-01-C	7/27/2009	0.87		0.85	J	0.68		1.17		1.1	U	0.61	U			1.7	U			1.53		2.07	M3
Field QC																							
900L-SS-02-A	7/27/2009	2.31		2.48		2.81		2.58		2.2	U	0.4	U			2.4	J			3.04		5.49	M3

Qualifier Descriptions

- U Result is less than the sample specific Minimum Detectable Concentration (MDC) or less than the associated Total Propagated Uncertainty (TPU)
- M3 The requested MDC was not met, but the reported activity is greater than the reported MDC
- J Activity values are an estimated value
- U Result is less than the sample specific MDC or less than the associated TPU
- P A result with an associated replicate result that exceeds the control limit

Table A-6c. Stream Sediment Results, Radiochemistry (continued)

Sample ID	Date	Laboratory Parameters - Radiochemistry									
		U-238 Decay Chain									
		Pb-214 (ρCi/g)		Bi-214 (ρCi/g)		Pb-210 (ρCi/g)		Po-210 (ρCi/g)		Tl-208 (ρCi/g)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
300L-SS-01-A	7/26/2009	12.8	J	10.7	J	7.8		8.4		1.94	
300L-SS-01-B	7/26/2009	6.03	J	4.59	J	6.4		5.7		1.4	
300L-SS-01-E	7/26/2009	94	J	85.4	J	38.5		53.3	M3	10.2	
CONF-SS-01-C	7/25/2009	1.62	J	1.92	J	2.9		2.83		0.24	
CONF-SS-01-K	7/25/2009	3.03	J	2.28	J	2.09		1.73		0.48	
CONF-SS-01-K-2	7/26/2009	5.18	J	4.61	J	3.5		3.57		1.01	
CONF-SS-01-KC	7/25/2009	2.51	J	2.62	J	1.75		1.41		0.38	
KBD-SS-01-A	7/25/2009	1.65	J	1.71	J	2.31		2.17		0.34	
KBD-SS-01-B	7/25/2009	3.73	J	3.64	J	2.29		3.18	M3	0.68	
900L-SS-01-A	7/27/2009	4.28	J, P	3.3	J	3.25		2.48	M3	0.64	
900L-SS-01-B	7/27/2009	4.25	J	3.72	J	3.19		2.28	M3	0.63	
900L-SS-01-C	7/27/2009	1.76	J	1.62	J	2.23		1.99		0.24	
Field QC											
900L-SS-02-A	7/27/2009	4.43	J	4.04	J	3.54		3.05		0.79	

Qualifier Descriptions

U Result is less than the sample specific Minimum Detectable Concentration (MDC) or less than the associated Total Propagated Uncertainty (TPU)
M3 The requested MDC was not met, but the reported activity is greater than the reported MDC
J Activity values are an estimated value
U Result is less than the sample specific MDC or less than the associated TPU
P A result with an associated replicate result that exceeds the control limit

Table A-7a. Marine Sediment Sample Results, Inorganics, Soil Texture, Total Organic Carbon,

Sample ID	Date	Laboratory Parameters - Inorganics		Soil Texture								Total Organic Carbon	
		pH (mg/kg)		Soil Texture (%)								Total Organic Carbon (%)	
		Conc.	Lab Qual	Clay	Lab Qual	Data Val Qual	Sand	Lab Qual	Silt	Lab Qual	Texture Class.	%	Lab Qual
Subtidal Zone Sediments													
KBD-MS-01-C	7/20/2009	6.61		20.0			47.5		32.5		Loam	7.2	
KBD-MS-01-D	7/20/2009	6.65		18.8			55.0		26.3		Sandy Loam	7.1	
KBD-MS-01-E	7/20/2009	6.65		20.0			48.8		31.3		Loam	7.4	
KBD-MS-01-F	7/20/2009	6.66		21.3			46.3		32.5		Loam	8.3	
KBD-MS-01-G	7/21/2009	7.11		18.8			53.8		27.5		Sandy Loam	8.4	
KBD-MS-01-H	7/21/2009	6.63		21.3			48.8		30.0		Loam	8.0	
KBD-MS-01-I	7/21/2009	6.63		16.3			66.3		17.5		Sandy Loam	4.1	
KBD-MS-01-J	7/21/2009	6.72		12.5			71.3		16.3		Sandy Loam	2.8	
Intertidal Zone Sediments													
KBD-MS-01-AA	7/24/2009	7.44		10.0			80.0		10.0		Sandy Loam/Loamy Sand	0.7	RA
KBD-MS-01-BB	7/24/2009	7.52		10.0			81.3		8.8		Loamy Sand	3.2	RA
KBD-MS-01-CC	7/24/2009	7.65		6.3			88.8		5.0		Sand	1.0	RA
KBD-MS-01-DD	7/24/2009	7.5		7.5			87.5		5.0		Loamy Sand	1.1	RA
KBD-MS-01-EE	7/24/2009	7.43		10.0			85.0		5.0		Loamy Sand	1.5	RA
KBD-MS-01-FF	7/24/2009	7.23		5.0			90.0		5.0		Sand	1.8	RA
KBD-MS-01-K	7/22/2009	7.52		7.5			86.3		6.3		Loamy Sand	1.7	
KBD-MS-01-L	7/22/2009	7.99		3.8			92.5		3.8		Sand	0.4	B
KBD-MS-01-M	7/22/2009	7.25		3.8			91.3		5.0		Sand	0.4	B
KBD-MS-01-N	7/22/2009	7.83		2.5			93.8		3.8		Sand	0.8	
KBD-MS-01-O	7/22/2009	7.65		5.0			88.8		6.3		Sand	0.7	
KBD-MS-01-P	7/22/2009	7.3		7.5			86.3		6.3		Loamy Sand	2.0	
KBD-MS-01-Q	7/22/2009	7.63		6.3			90.0		3.8		Sand	1.5	
KBD-MS-01-R	7/23/2009	6.25		5.0			91.3		3.8		Sand	0.3	B
KBD-MS-01-S	7/23/2009	7.62		5.0			95.0		-	U	Sand	0.7	
KBD-MS-01-T	7/23/2009	7.53		6.3			88.8		5.0		Sand	0.9	
KBD-MS-01-U	7/23/2009	7.4		5.0			88.8		6.3		Sand	0.7	
KBD-MS-01-V	7/23/2009	7.47		5.0			90.0		5.0		Sand	1.3	RA
KBD-MS-01-W	7/23/2009	7.66		6.3			87.5		6.3		Loamy Sand	1.0	RA
KBD-MS-01-X	7/23/2009	8.01		-	U		96.3		3.8		Sand	0.3	B, RA
KBD-MS-01-Y	7/24/2009	7.84		5.0			88.8		6.3		Sand	0.6	RA
KBD-MS-01-Z	7/24/2009	7.81		6.3			88.8		5.0		Sand	1.3	RA
Field QC													
KBD-MS-01-I (DUP)	7/21/2009	6.57		15.0			61.3		23.8		Sandy Loam	4.7	

Qualifier Descriptions:

U The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity
RA RPD was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL)

Table A-7b. Marine Sediment Sample Results, Metals

Sample ID	Date	Laboratory Parameters – Metals																			
		Al (mg/kg)		Sb (mg/kg)		As (mg/kg)		Ba (mg/kg)		Be (mg/kg)		Cd (mg/kg)		Cr (mg/kg)		Co (mg/kg)		Cu (mg/kg)		Fe (mg/kg)		Pb (mg/kg)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
Subtidal Zone Sediments																							
KBD-MS-01-C	7/20/2009	8700		0.21		22		37		0.58		5.4		26		3		21		15,000		12	
KBD-MS-01-D	7/20/2009	10000		0.19		19		38		0.68		4.5		26		3.3		29		17000		14	
KBD-MS-01-E	7/20/2009	9600		0.24		22		37		0.68		5.4		27		3.9		30		19000		36	
KBD-MS-01-F	7/20/2009	11000				20		38		0.94		4.9		27		3.7		22		20000		16	
KBD-MS-01-G	7/21/2009	5600		0.14		9.1		27		0.5		0.91		9.7		2.3		17		12000		44	
KBD-MS-01-H	7/21/2009	11000		0.23		21		42		0.9		4.9		29		3.7		25		18000		17	
KBD-MS-01-I	7/21/2009	10000		0.17		15		52		1.2		1.8		21		4.4		15		19000		19	
KBD-MS-01-J	7/21/2009	7400				9.8		40		0.57		3.2		17		3		11		13000		8	
Intertidal Zone Sediments																							
KBD-MS-01-AA	7/24/2009	7800		0.077		4.2		35		0.78		0.12	B	13		5.2		6.3		18000		10	
KBD-MS-01-BB	7/24/2009	6900		0.053		3.4		25		0.59		0.12	B	12		3.8		6.4		14000		8	
KBD-MS-01-CC	7/24/2009	5900				3.8		22		0.49		0.49	U	8.5		3		3.5		12000		6.1	
KBD-MS-01-DD	7/24/2009	6800				4		18		0.46		0.5	U	8.7		3.4		2.7		14000		5	
KBD-MS-01-EE	7/24/2009	9000		0.039		3.6		19		0.5	U	0.5	U	19		4.5		4.2		17000		5.2	
KBD-MS-01-FF	7/24/2009	8200		0.022	B	1.5		36		0.49	U	0.49	U	15		3.9		1.7		16000		1.3	
KBD-MS-01-K	7/22/2009	10000				1.6		12		0.28		0.48	U	16		4.6		6.7		16000		2.3	
KBD-MS-01-L	7/22/2009	5800				11		11		1.2		0.5	U	16		5.9		16		27000		11	
KBD-MS-01-M	7/22/2009	7200				2.7		35		0.57		0.15	B	14		4.9		6.6		16000		8.4	
KBD-MS-01-N	7/22/2009	7700				3.3		44		0.6		0.11	B	11		4.5		6.4		19000		6.9	
KBD-MS-01-O	7/22/2009	8500				3.3		43		0.72		0.19	B	15		6.4		9.3		19000		9.9	
KBD-MS-01-P	7/22/2009	7800				4		41		0.73		0.14	B	17		5.2		8.1		17000		21	
KBD-MS-01-Q	7/22/2009	7600		0.059		3.7		39		0.92		0.16	B	11		6		8.3		17000		9.7	
KBD-MS-01-R	7/23/2009	6500				1.4		31		0.52		0.14	B	11		3.9		6.7		14000		6.7	
KBD-MS-01-S	7/23/2009	7700				4.7		39		0.62		0.097	B	14		3.8		4.8		17000		6.8	
KBD-MS-01-T	7/23/2009	7800		0.077		2.9		40		0.69		0.11	B	19		4.4		8.3		17000		8.6	
KBD-MS-01-U	7/23/2009	7900				3.7		56		0.7		0.16	B	29		5.4		9.1		17000		10	
KBD-MS-01-V	7/23/2009	7200				2.6		27		0.67		0.24	B	13		5.1		6.3		16000		8.2	
KBD-MS-01-W	7/23/2009	6600				3.4		34		0.61		0.16	B	13		4.4		6.2		14000		9	
KBD-MS-01-X	7/23/2009	5700				1.8		13		0.3		0.5	U	9.8		2.5		1.5		11000		3.6	
KBD-MS-01-Y	7/24/2009	7900				2.7		38		0.64		0.16	B	14		5.2		8.1		16000		11	
KBD-MS-01-Z	7/24/2009	7300				2.7		29		0.64		0.13	B	12		4.8		6		17000		6.6	

Table A-7b. Marine Sediment Sample Results, Metals (continued)

Sample ID	Date	Laboratory Parameters – Metals																			
		Al (mg/kg)		Sb (mg/kg)		As (mg/kg)		Ba (mg/kg)		Be (mg/kg)		Cd (mg/kg)		Cr (mg/kg)		Co (mg/kg)		Cu (mg/kg)		Fe (mg/kg)		Pb (mg/kg)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
Field QC																							
KBD-MS-01-I (DUP)	7/21/2009	10000		0.17		15		46		1.2		1.9		20		4.4		18		19000		19	

Qualifier Descriptions:

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

Table A-7b. Marine Sediment Sample Results, Metals (continued)

Sample ID	Date	Laboratory Parameters – Metals																			
		Mn (mg/kg)		Hg (mg/kg)		Mo (mg/kg)		Ni (mg/kg)		Se (mg/kg)		Ag (mg/kg)		Tl (mg/kg)		U (mg/kg)		V (mg/kg)		Zn (mg/kg)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
Subtidal Zone Sediments																					
KBD-MS-01-C	7/20/2009	140		0.06		9.2		16		3		0.99	U	0.18		13		35		77	
KBD-MS-01-D	7/20/2009	160		0.058		8.8		16		2.8		0.98	U	0.2		19		40		84	
KBD-MS-01-E	7/20/2009	150		0.059		10		19		3.2		0.98	U	0.2		15		38		85	
KBD-MS-01-F	7/20/2009	160				10		18		2.8						14		42		98	
KBD-MS-01-G	7/21/2009	130		0.033	U	4.6		7.7		1		0.99	U	0.085		39		26		66	
KBD-MS-01-H	7/21/2009	180		0.06		7.9		19		3.2		0.97	U	0.17		16		43		94	
KBD-MS-01-I	7/21/2009	160		0.033	U	6.7		18		1.9		0.99	U	0.14		12		43		110	
KBD-MS-01-J	7/21/2009	140				3.6		11		1.3						8.9		29		60	
Intertidal Zone Sediments																					
KBD-MS-01-AA	7/24/2009	530		0.033	U	1.7		13		0.49	U	0.98	U	0.07		9.2		31		73	
KBD-MS-01-BB	7/24/2009	320		0.033	U	1.2		13		0.49	U	0.98	U	0.043		2.4		29		67	
KBD-MS-01-CC	7/24/2009	240				0.66	B	9.3		0.27						3.8		23		45	
KBD-MS-01-DD	7/24/2009	360				0.48	B	8.7		0.25						2.1		27		41	
KBD-MS-01-EE	7/24/2009	330		0.033	U	1	U	12		0.5	U	1	U	0.037		52		31		44	
KBD-MS-01-FF	7/24/2009	280		0.033	U	0.99	U	7.4		0.49	U	0.055	B	0.026		0.7		26		30	
KBD-MS-01-K	7/22/2009	280				0.36	B	9.6		0.42						2.8		25		35	
KBD-MS-01-L	7/22/2009	260				1.2		13		0.14						14		21		67	
KBD-MS-01-M	7/22/2009	410				1.2		16		0.35						3.2		28		83	
KBD-MS-01-N	7/22/2009	360				2.7		15		0.45						1.6		29		71	
KBD-MS-01-O	7/22/2009	450				1.6		21		0.53						6.4		28		110	
KBD-MS-01-P	7/22/2009	680				2.8		17		0.51						3		31		96	
KBD-MS-01-Q	7/22/2009	530		0.033	U	1.8		14		0.41	B	0.98	U	0.037		2.5		25		84	
KBD-MS-01-R	7/23/2009	370				1.3		17		0.33						2.7		24		95	
KBD-MS-01-S	7/23/2009	190				1		12		0.49						1.7		33		70	
KBD-MS-01-T	7/23/2009	400		0.033	U	1.7		20		0.65		0.98	U	0.041		2.5		33		95	
KBD-MS-01-U	7/23/2009	460				1.9		18		0.63						9.4		29		84	
KBD-MS-01-V	7/23/2009	430				1.4		21		0.49						4.5		25		110	
KBD-MS-01-W	7/23/2009	490				1.4		14		0.35						3.3		22		71	
KBD-MS-01-X	7/23/2009	200				0.21	B	6.6		0.035	B					0.97		20		35	
KBD-MS-01-Y	7/24/2009	520				1.5		16		0.41						3.1		28		95	
KBD-MS-01-Z	7/24/2009	430				1.3		15		0.39						2.4		29		82	
Field QC																					
KBD-MS-01-I (DUP)	7/21/2009	150		0.033	U	7.9		18		2		1	U	0.12		14		39		110	

Qualifier Descriptions:

U Not detected at or above client requested detection limit

B Reported value was obtained from a reading that was less than the Practical Quantification Limit but greater than or equal to the MDL

Table A-7c. Marine Sediment Sample Results, Radiochemistry

Sample ID	Date	Laboratory Parameters – Radiochemistry															
		Th-232 Decay Chain										U-235 Decay Chain		U-238 Decay Chain			
		Th-232 (pCi/g)		Ra-228 (pCi/g)		Th-228 (pCi/g)		Pb-212 (pCi/g)		Bi-212 (pCi/g)		U-235 (pCi/g)		U-238 (pCi/g)		Th-234 (pCi/g)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
Subtidal Zone Sediments																	
KBD-MS-01-C	7/20/2009	3.34		3.2	J	2.52		3.21	J	0.5	J	0.5	U, J	5.21		6.3	J
KBD-MS-01-D	7/20/2009	4.21		2.52	J	3.66		2.49	J	5.4	J	0.37	U, J	7.8		7.2	J
KBD-MS-01-E	7/20/2009	3.57		2.52	J	3.06	M3	3.63	J	4.2	J	1.23	U, J	5.8		6.5	J
KBD-MS-01-F	7/20/2009	3.82		3.55	J	2.77		3.65	J	1.8	J	0.3	U, J			6	J
KBD-MS-01-G	7/21/2009	10.8		9.7	J	7.4	M3	11.3	J	13.2	J	1	U, J	18		26.6	J
KBD-MS-01-H	7/21/2009	5.06		1.97	J	3.89		3.73	J	3.4	J	-0.5	U, J	6.4		8.6	U, J
KBD-MS-01-I	7/21/2009	4.87		3.05	J	3.42		3.65	J	0.7	J	0.3	U, J	5.09		6.2	U, J
KBD-MS-01-J	7/21/2009	2.65		1.72	J	2.14		2.15	J	0.5	J	0.04	U, J			6	U, J
Intertidal Zone Sediments																	
KBD-MS-01-AA	7/24/2009	2.89		1.84		2.72		2.5		0.7	U	-0.47		2.73		2.8	J
KBD-MS-01-BB	7/24/2009	0.96		0.69	J	0.88	M3	1.09		1.1	U	-0.39		1.44		0.5	U
KBD-MS-01-CC	7/24/2009	1.12		1.14	J	1		0.85		1	U	0.16				2.6	
KBD-MS-01-DD	7/24/2009	1.1		0.85		0.89		1.21		2	U	0.15				0.7	U
KBD-MS-01-EE	7/24/2009	10.2		5.4		8.4	M3	6		5.6		1.09		12.8		4.3	U
KBD-MS-01-FF	7/24/2009	0.5		0.48	U	0.49	M3	0.41		0.8	U	-0.04		0.65		1.6	U
KBD-MS-01-K	7/22/2009	0.84		0.8	J	0.66		0.55		1.4	U	-0.63				1.9	U
KBD-MS-01-L	7/22/2009	8.8		14.3		6.5	M3	15.6		14.8		1.3				21.8	
KBD-MS-01-M	7/22/2009	2.74		1.34		2.51	M3	1.73		0	U	-0.12				3.1	U
KBD-MS-01-N	7/22/2009	2.4		1.43	J	1.75		2.21		2.4	U	-0.12				1.7	U
KBD-MS-01-O	7/22/2009	3.42		1.39	J	2.79	M3	1.97		1.5	U	-0.13				2.1	U
KBD-MS-01-P	7/22/2009	1.75		1.25		2.08		1.88		2.5		0.03				1.2	U
KBD-MS-01-Q	7/22/2009	1.18		1.21	J	1.09		1.45		0.3	U	0.18		1.69		2.2	U
KBD-MS-01-R	7/23/2009	1.53		0.92	J	1.61		1.23		-1.1	U	0.16				1	U
KBD-MS-01-S	7/23/2009	1.79		1.33	J	1.17	M3	1.05		0.7	U	-0.01				2.2	U
KBD-MS-01-T	7/23/2009	3.16	J	2.04	J	3.09	J	2.29		2.6		0.38		3.09		3.2	J
KBD-MS-01-U	7/23/2009	5.15		3.71		5.18		4.02		4.3		0.04				3.8	
KBD-MS-01-V	7/23/2009	1.66		3.96		1.5		5.1		3.8		-0.01				9.5	J
KBD-MS-01-W	7/23/2009	3.02		1.93	J	2.65		2.29		1.6	U	0.01				2.6	U
KBD-MS-01-X	7/23/2009	0.75		0.66	J	0.6	M3	0.55		0.3	U	0.03				0.5	U
KBD-MS-01-Y	7/24/2009	2.12		0.95		2.29		1.6		1.7	U	0.44				1.1	U
KBD-MS-01-Z	7/24/2009	1.32		1	J	1.28		0.98		0.5	U	-0.08				0.9	U

Table A-7c. Marine Sediment Sample Results, Radiochemistry (continued)

Sample ID	Date	Laboratory Parameters – Radiochemistry															
		Th-232 Decay Chain										U-235 Decay Chain		U-238 Decay Chain			
		Th-232 (ρCi/g)		Ra-228 (ρCi/g)		Th-228 (ρCi/g)		Pb-212 (ρCi/g)		Bi-212 (ρCi/g)		U-235 (ρCi/g)		U-238 (ρCi/g)		Th-234 (ρCi/g)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
Field QC																	
KBD-MS-01-I (DUP)	7/21/2009	4.47		3.4	J	3.61		4.44	J	6.7	J	0	J	5.18		6	U, J

Qualifier Descriptions:

M3 The requested Minimum Detectable Concentration (MDC) was not met, but the reported activity is greater than the reported MDC
J Activity values are an estimated value
U Result is less than the sample specific MDC or less than the associated Total Propagated Uncertainty (TPU)
Y1 Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Table A-7c. Marine Sediment Sample Results, Radiochemistry (continued)

Sample ID	Date	Laboratory Parameters – Radiochemistry															
		U-234 (pCi/g)		Th-230 (pCi/g)		Ra-226 (pCi/g)		Pb-214 (pCi/g)		Bi-214 (pCi/g)		Pb-210 (pCi/g)		Po-210 (pCi/g)		Tl-208 (pCi/g)	
		Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual	Conc.	Qual
Subtidal Zone Sediments																	
KBD-MS-01-C	7/20/2009	5.21		6.2		3.6	J, M3	2.68	J	3.01	J	7.3		11.1	M3	0.94	J
KBD-MS-01-D	7/20/2009	7.9		8.4		3.71	J, M3	3.09	J	2.58	J	7.1		11.5	M3	0.75	J
KBD-MS-01-E	7/20/2009	6		7.2		4.88	J, M3	4.42	J	3.16	J	7.6		9.8	M3	1.57	J
KBD-MS-01-F	7/20/2009			7		4.12	J, M3	3.61	J	3.07	J	6.6		8.8		1.07	J
KBD-MS-01-G	7/21/2009	17.4		30.9	M3	19.5	J, M3	16.5	J	15.4	J	14.1		41.6		3.21	J
KBD-MS-01-H	7/21/2009	6.5		9.3		4.45	J, M3	3.81	J	3.45	J	9.3		13		1.11	J
KBD-MS-01-I	7/21/2009	4.87		8.2		3.61	J, M3	2.92	J	3.06	J	7.5		10.7	M3	1.26	J
KBD-MS-01-J	7/21/2009			4.75		3.1	J, M3	2.66	J	2.42	J	4.4		6.2		0.54	J
Intertidal Zone Sediments																	
KBD-MS-01-AA	7/24/2009	2.65		3.44		2.78	M3	2.25	J	2.05	J	3.9		3.6		0.72	
KBD-MS-01-BB	7/24/2009	1.56		1.59		1.73	M3	1.52	J	1.18	J	2.25		2.93		0.42	
KBD-MS-01-CC	7/24/2009			2.16		1.62		1.47	J	1.03	J	1.76		1.64		0.3	
KBD-MS-01-DD	7/24/2009			1.59		1.68	M3	1.3	J	1.31	J	2.03		2.6		0.24	
KBD-MS-01-EE	7/24/2009	12.2		17	M3	8.1	M3	7	J	6.26	J	12		18.5		2.23	
KBD-MS-01-FF	7/24/2009	0.66		0.75	M3	0.72		0.67	J	0.4	J	1.35		1.31		0.14	U
KBD-MS-01-K	7/22/2009			1.47		1.02	M3	0.88	J	0.78	J	1.32		5.4		0.24	
KBD-MS-01-L	7/22/2009			17	M3	22.5	M3	18.5	J	16.7	J	15.2	Y1	22		4.56	
KBD-MS-01-M	7/22/2009			3.96		2.85	M3	2.38	J	2.19	J	3.51		3.42	M3	0.79	
KBD-MS-01-N	7/22/2009			3.03		2.48	M3	2.22	J	1.79	J	1.8		1.77		0.69	
KBD-MS-01-O	7/22/2009			4.89		2.46	M3	2.1	J	1.83	J	4.7		4.8		0.52	
KBD-MS-01-P	7/22/2009			2.93		2.69	M3	2.21	J	2	J	3.32		3.17		0.59	
KBD-MS-01-Q	7/22/2009	1.63		2.04		2.41		2.01	J	1.7	J	2.33		1.46		0.38	
KBD-MS-01-R	7/23/2009			2.92		2.13	M3	1.75	J	1.76	J	1.99		2.15		0.38	
KBD-MS-01-S	7/23/2009			1.67		2		1.58	J	1.71	J	1.91		1.71		0.23	
KBD-MS-01-T	7/23/2009	3.41		3.99	J	3.17	M3	2.45	J	2.63	J	3.91		4.3	M3	0.71	
KBD-MS-01-U	7/23/2009			7.9		5.13	M3	4.14	J	3.8	J	6.5		8.9	M3	1.42	
KBD-MS-01-V	7/23/2009			2.41		7.32	M3	6.43	J	5.18	J	2.6		3.17	M3	1.26	
KBD-MS-01-W	7/23/2009			4.9		3.68		3.16	J	2.57	J	4.6		4.9		0.67	
KBD-MS-01-X	7/23/2009			1.1		1.08		0.93	J	0.79	J	1.82		1.35		0.137	
KBD-MS-01-Y	7/24/2009			2.87		2.51	M3	2.12	J	1.89	J	3.32		2.3		0.46	
KBD-MS-01-Z	7/24/2009			1.68		1.96		1.54	J	1.6	J	2.93		2.93		0.49	
Field QC																	
KBD-MS-01-I (DUP)	7/21/2009	5.29		8.1	M3	4.05	J, M3	3.49	J	3.12	J	7.7		9.9		1.42	J

Qualifier Descriptions:

- M3 The requested Minimum Detectable Concentration (MDC) was not met, but the reported activity is greater than the reported MDC
- J Activity values are an estimated value
- U Result is less than the sample specific MDC or less than the associated Total Propagated Uncertainty (TPU)
- Y1 Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Table A-8. Ross-Adams Site Summary of June Sampling Event Planned vs. Actual Samples

2009 Event	Location	Location Code	Samples									
			Stream Water	Ground water	Sediment		Biota Inventory	Radon	Soil[1]	Gamma Survey	XRF	Ambient Air Temp
					Stream	Marine						
1)	900-foot Level	900L	4/4					6/6	1/4[1]			2/1[6]
	Open Pit	OP	2/0[2,3]					3/4[4]				
	700-foot Level	700L	4/1[3]					5/5	1/0[1]			2/2
	300-foot Level	300L	5/5					7/7	1/1			2/2
	Mine and Haul Roads	MHR						3/2[5]	10/10			
	Confluence of Kendrick Creek-Cabin Creek	CONF	3/3									
	Ore Staging Area	OSA						9/10[5]	2/2			
	Springs Sampling	SPR		1/1								
	Event Totals		18/13	1/1				33/34	15/17			6/5

Notes:
#/# Number of Planned Sample Locations / Actual Number of Sample Locations

1. Additional soil sample locations collected for gamma and XRF correlation purposes.
2. Colluvium in the bottom of the open pit obscures flow.
3. Water not present because of the dry conditions.
4. An additional radon station was installed over the air shaft at the 900-foot level.
5. Radon station OSA-RAD-4 is located near the end of the haul road in OSA open area (can be considered both OSA sample and haul road sample). These locations include both the planned radon station locations from Dotson Cabin and Mine and haul roads in the SAP.
6. Ambient air was not collected in the Open pit due to safety issues entering the pit.

Table A-9. Ross-Adams Site Summary of July Sampling Event Planned vs. Actual Samples

2009 Event	Location	Location Code	Samples									
			Stream Water	Ground water	Sediment		Biota Inventory	Radon	Soil[1]	Gamma Survey	XRF	Ambient Air Temp
					Stream	Marine						
2)	900-foot Level	900L	4/4		4/4		✔	1/2[3]	5/21[1,4]	✔	0[5]	
	Open Pit	OP	2/0[2]		2/0[2]		✔		1/0[2]	✔	0[5]	2/0[6]
	700-foot Level	700L	4/2[7]		4/0[8]		✔	1/1	3/6[9]	✔	0[5]	2/0[6]
	300-foot Level	300L	5/5		5/3[8]		✔	1/1	4/18[1]	✔	0[5]	2/0[6]
	Mine and Haul Roads	MHR					✔		7/6[1]	✔	0[5]	
	Confluence of Kendrick Creek-Cabin Creek	CONF	3/3		4/4		✔				0[5]	
	Kendrick Bay and Kendrick Creek Delta	KBD			2/2	22/20[10]	✔			✔	0[5]	
	Ore Staging Area	OSA				9/8[11]	✔		5/18[1]	✔	0[5]	
	Springs Sampling	SPR		1/1			✔			✔	0[5]	
	Kendrick Creek and Kendrick Bay Drive Point Piezometers	KBD		7/0[12]								
	All Locations		18/16	8/1	21/13	31/28	✔	3/4	25/69	✔	0	6/0

Notes:

#/# Number of Planned Sample Locations / Actual Number of Sample Locations

1. Additional soil sample locations collected for gamma and XRF correlation purposes.
2. Colluvium in the bottom of the open pit obscures flow.
3. An additional radon station was installed at the air shaft at 900-foot level and at the 900-foot level portal in the open pit.
4. Additional soil samples collected due to apparent lack of correlation between preliminary analytical data and filed XRF data.
5. XRF analysis not performed (see #4).
6. Limited access to portals and elevated moisture content in portals damaged measurement devices.
7. Flowing water present at only two of the four sample locations.
8. Fine grained sediment not available for collection.
9. See # 4.
10. Subtidal marine sediment samples could not be collected at the two northeastern most locations due to insufficient fine grained sediment.
11. One of the OSA intertidal sediment samples could not be collected due to insufficient fine grained sediment.
12. Drive point piezometers could not be installed because of an impenetrable cobble layers.

Table A-10. Ross-Adams Site Summary of September Sampling Event Planned vs. Actual Samples

2009 Event	Location	Location Code	Samples									
			Stream Water	Ground water	Stream	Marine	Biota Inventory	Radon	Soil	Gamma Survey	XRF	Ambient Air Temp
3)	900-foot Level	900L	4/4					6/6		✔		2/2
	Open Pit	OP	2/2					4/4				
	700-foot Level	700L	4/2[1]					5/5		✔		2/2
	300-foot Level	300L	5/5					7/7		✔		2/2
	Mine and Haul Roads	MHR						2/1[2]				
	Confluence of Kendrick Creek-Cabin Creek	CONF	3/3									
	Ore Staging Area	OSA						6/7[2]		✔		
	Springs Sampling	SPR		1/1								
	Event Totals		18/16	1/1				33/30[3]		✔ [4]		6/6

Notes:

#/# Number of Planned Sample Locations / Actual Number of Sample Locations

1. Water not present at two planned locations.
2. MR-RAD-26, DOT-RAD-8, DOT-RAD-9, DOT-RAD-10 were damaged or missing.
3. Radon monitoring detectors installed during the June sampling event were collected.
4. Limited gamma scanning was performed to fill gaps remaining from second event work.