# NOTICE

**All drawings located at the end of the document.**

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# INDUSTRIAL AREA SAMPLING AND ANALYSIS PLAN FY03 ADDENDUM #IA-03-06 IHSS GROUP 400-3

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# ACRONYMS

| | |
|---|---|
| AL | action level |
| CDPHE | Colorado Department of Public Health and Environment |
| DOE | U.S. Department of Energy |
| DQO | data quality objective |
| EPA | U.S. Environmental Protection Agency |
| FY | Fiscal Year |
| HPGe | high-purity germanium |
| HRR | Historical Release Report |
| IA | Industrial Area |
| IASAP | Industrial Area Sampling and Analysis Plan |
| IHSS | Individual Hazardous Substance Site |
| MARSSIM | Multi-Agency Radiation Survey and Site Investigation Manual |
| MDL | method detection limit |
| µg/kg | micrograms per kilogram |
| N/A | not applicable |
| OPWL | Original Process Waste Lines |
| PAC | Potential Area of Concern |
| PCB | polychlorinated biphenyl |
| pCi/g | picocuries per gram |
| PCOC | potential contaminant of concern |
| RFCA | Rocky Flats Cleanup Agreement |
| SAP | Sampling and Analysis Plan |
| UBC | Under Building Contamination |
| VOC | volatile organic compound |
| WRW | wildlife refuge worker |



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# 1.0 INTRODUCTION

This Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001) Addendum #IA-03-06 includes Individual Hazardous Substance Site (IHSS) Group-specific information, sampling locations, and potential contaminants of concern (PCOCs) for IHSSs, Potential Areas of Concern (PACs), and Under Building Contamination (UBC) sites proposed for characterization. This IASAP Addendum is a supplement to the IASAP (DOE 2001) and includes data and proposed sampling locations for the IHSS Groups and associated IHSSs, PACs, and UBC sites listed in Table 1. The locations of the IHSS Group, IHSSs, PACs, and UBC sites proposed for IHSS Group 400-3 characterization are shown on Figure 1. The potential contaminants of concern, listed by IHSS, PAC, and UBC, are identified in Table 2.

**Table 1**
**IASAP Addendum #IA-03-06 IHSS Group**

| IHSS Group | IHSS/PAC/UBC Site |
|---|---|
| 400-3 | UBC 444 – Building 444 Fabrication Facility |
| | UBC 447 – Building 447 Fabrication Facility |
| | 400-116.1 – West Loading Dock-Building 447 |
| | 400-116.2 – South Loading Dock-Building 444 |
| | 400-136.1 – Cooling Tower Pond West of Building 444 |
| | 400-136.2 – Cooling Tower Pond East of Building 444 |
| | 400-182 – Building 444/453 Drum Storage Area |
| | 400-207 – Inactive 444 Acid Dumpster |
| | 400-208 – Inactive 444/447 Waste Storage Area |
| | 400-801 – Transformer, Roof of Building 447 |
| | 400-810 – Beryllium Fire-Building 444 |
| | 000-121 – Known OPWL leaks |
| | 000-121 – Tank 4-OPWL Process Waste Pits (B447) |
| | 000-121 – Tank 5-OPWL Process Waste Tanks (B444) |
| | 000-121 – Tank 6-Process Waste Floor Sump and Foundation Drain Floor (B444) |

## 1.1 Existing Characterization Information

Existing concentrations and activities above the background means plus two standard deviations, or method detection limits (MDLs), are presented on Figure 2 and Figure 3.



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Existing data for these IHSSs, PACs, and UBC sites are available in Appendix C of the IASAP (DOE 2001), the Historical Release Reports (HRRs) (DOE 1992-2002), and the Industrial Area Data Summary Report (DOE 2000). PCOCs in this IHSS Group include radionuclides, metals, volatile organic compounds (VOCs), and occasionally polychlorinated biphenyls (PCBs).

## 1.2 Sampling

The proposed sampling specifications (number and types of samples) for IHSS Groups are listed in Tables 3 and 4 and shown on Figures 4 and 5. Proposed new sampling locations are the starting point for IHSS Group characterization. After characterization starts, the number and type of samples may change based on sampling results. Changes to sampling specifications will be considered in consultation with the regulatory agencies. Three types of sampling strategies are used to determine sampling locations: statistical, geostatistical, and biased.

Statistical grids have computer-generated random start points and orientations. Additionally, the grids have been extended outside the IHSS, PAC, or UBC site to provide additional sampling locations if needed. Biased samples are based on existing data and supplement the statistical grid locations. The IASAP 11-meter statistical grid was not used to determine sampling locations beneath the building sites. Instead, sampling locations were determined based on an expanded grid, and additional biased samples were added as needed. The sampling locations along the expanded grid are considered biased rather than statistical, to ensure consistency with the IASAP data quality objectives (DQOs). This approach was chosen because of the following:

- Previous sampling results beneath the buildings indicated contaminant concentrations were below Rocky Flats Cleanup Agreement (RFCA) wildlife refuge worker (WRW) action levels (ALs).
- Many UBC site sampling locations were relocated to sample building features.
- This approach (using the expanded statistical grid coupled with collecting bias samples) provides sufficient sampling power and achieves a 90 percent confidence level consistent with the IASAP DQOs.

Statistical confidence in UBC and under-pad characterization sample sets greater than 90 percent will be maintained with the currently suggested grid spacing of 72 feet. Use of the appropriate statistical models, such as U.S. Environmental Protection Agency (EPA) QA/G-4, lognormal, or nonparametric methods (e.g., the Multi-Agency Radiation Survey and Site Investigation Manual [MARSSIM] [EPA et al. 1997] will corroborate, with better than 90 percent confidence, that enough samples were collected to draw final project conclusions. Geostatistical methods were not used to determine sampling locations for any IHSS Groups in this Addendum. Statistical sampling locations within a building footprint may be adjusted in the field to collect samples from specific building features.



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In the case of these two UBC sites, groundwater has and continues to infiltrate the basement of Building 444 via a foundation drain that encircles that basement of Building 444. Currently, the water is being collected and sent to Building 891 for treatment. There exists the potential for a source of the contamination to be located either outside or underneath the Building 444 and 447 structures. With this in mind, a statistical sampling approach, coupled with a bias sampling strategy is intended to provide the necessary confidence in characterization, while realistically creating a manageable sampling effort. Statistical and bias sample points are located in areas that address areas of concern outside the building, the foundation drain, and other specific building features of interest (EG&G 1992 and DOE, 1994).

## 2.0 IHSS GROUP 400-3

### 2.1 Existing Characterization Information

Existing concentrations and activities above background means plus two standard deviations, or MDLs, are presented on Figures 2 and 3. Because of the number of data points, the existing data sampling locations were divided into two areas (northern and southern) and placed on separate maps. Together, Figures 2 and 3 graphically display the existing characterization information for this area, and represent the PCOCs for this IHSS Group. More specifically, the predominant analytes that were above the background means plus two standard deviations or MDLs, on both Figures 2 and 3, are radionuclides and organic compounds. No metals were detected at levels that warranted placement on the figures. Existing data for these IHSSs, PACs, and UBC sites are available in Appendix C of the IASAP (DOE 2001), the HRRs (DOE 1992-2002), and the Industrial Area Data Summary Report (DOE 2000).

### 2.2 Sampling

The proposed sampling specifications (number and types of samples) for the IHSS Group 400-3 UBC sites and Original Process Waste Lines (OPWL) IHSSs are listed in Table 3 and shown on Figure 4. To reiterate, the IASAP 11-meter grid was not used to determine sampling locations at UBC sites. Alternatively, a grid spacing of 72 feet was chosen for statistically sampling these UBC sites. In addition to the statistical sampling locations, biased sampling is proposed throughout Buildings 444 and 447. The number of samples proposed provides a high confidence level consistent with the IASAP DQOs. Two known OPWL leaks (P-5-1 and P-5-2) are being sampled. These samples are consistent with Attachment 14 of the RFCA Modification (DOE et al. 2003).

The proposed sampling specifications (number and types of samples) for the IHSSs and PACs in IHSS Group 400-3 are listed in Table 3 and shown on Figure 4. In essence, Figure 5 shows all of the sampling locations under the "footprint" of the Building 444/447 complex, and Figure 4 illustrates all of the sampling locations "outside" of the buildings. IHSS Group 400-3 only has samples targeting specific areas around the building structures. Most samples outside of the buildings in this area will be collected as part of the IASAP Addendum for IHSS Group 400-6, not IHSS Group 400-3.



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## 3.0 REFERENCES

DOE, 1992-2002, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado.

DOE, 1994, Technical Memorandum No. 1 – Investigations of Foundation Drains and Other Data Compilation Addendum to the Operable Unit 8 Work Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, November.

DOE, 2000, Rocky Flats Environmental Technology Site Industrial Area Data Summary Report, Golden, Colorado, September.

DOE, 2001, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE, CDPHE, and EPA, 2003, Proposed Modifications to the Rocky Flats Cleanup Agreement, Rocky Flats Environmental Technology Site, Golden, Colorado, April.

EG&G, 1992, A Description of Rocky Flats Foundation Drains, Rocky Flats Plant, Golden, Colorado, November.

EPA, 1997, Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), NUREG-1575, EPA 402-R-97-016, December.



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**Table 2**
**Potential Contaminants of Concern at IHSS Group 400-3**

| IHSS Group | IHSS/PAC/UBC Site | PCOCs | Media | Data Source | Sampling Location Method |
|---|---|---|---|---|---|
| 400-3 | UBC 444 – Building 444 Fabrication Facility | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001]) | Statistical and Biased |
| | UBC 447 – Building 447 Fabrication Facility | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001]) | Statistical and Biased |
| | 400-116.1 – West Loading Dock-Building 447 | Radionuclides<br>Metals | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical and Biased |
| | 400-116.2 – South Loading Dock-Building 444 | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical and Biased |
| | 400-136.1 – Cooling Tower Pond West of Building 444 | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical |
| | 400-136.2 – Cooling Tower Pond East of Building 444 | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical |
| | 400-182 – Building 444/453 Drum Storage Area | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical and Biased |

| IHSS Group | IHSS/PAC/UBC Site | PCOCs | Media | Data Source | Sampling Location Method |
|---|---|---|---|---|---|
| | 400-207 – Inactive 444 Acid Dumpster | Radionuclides<br>Metals | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical and Biased |
| | 400-208 – Inactive 444/447 Waste Storage Area | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical and Biased |
| | 400-801 – Transformer, Roof of Building 447 | Radionuclides<br>Metals<br>PCBs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical and Biased |
| | 400-810 – Beryllium Fire-Building 444 | Radionuclides<br>Metals | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Statistical |
| | 000-121 – Known OPWL Leaks | Radionuclides<br>Metals<br>VOCs | Subsurface | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001]) | Biased |
| | 000-121 – Tank 4-OPWL Process Waste Pits | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Biased |
| | 000-121 – Tank 5-OPWL Process Waste Tanks | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Biased |
| | 000-121 – Tank 6-Process Waste Floor Sump and Foundation Drain Floor | Radionuclides<br>Metals<br>VOCs | Surface and Subsurface Soil | HRR (DOE 1992-2001)<br>Process Knowledge (IASAP [DOE 2001])<br>IA Data Summary Report (DOE 2000) | Biased |

**Table 3**
**Sampling Specifications for IHSS Group 400-3 PACs and IHSSs**

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| 400-3 | IHSS 116.1 – West Loading Dock, Building 447 | BW36-000A | 2082096.055 | 748639.44 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-000A | 2082096.055 | 748639.44 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-000B | 2082096.055 | 748639.44 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-000B | 2082096.055 | 748639.44 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-001A | 2082061.65 | 748628.845 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-001A | 2082061.65 | 748628.845 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-001B | 2082061.65 | 748628.845 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-001B | 2082061.65 | 748628.845 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-012A | 2082028.5 | 748643.727 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-012A | 2082028.5 | 748643.727 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-012B | 2082028.5 | 748643.727 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-012B | 2082028.5 | 748643.727 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-013A | 2082026.473 | 748623.455 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW36-013A | 2082026.473 | 748623.455 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-013B | 2082026.473 | 748623.455 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-013B | 2082026.473 | 748623.455 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-014A | 2082093.371 | 748623.455 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-014A | 2082093.371 | 748623.455 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-014B | 2082093.371 | 748623.455 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-014B | 2082093.371 | 748623.455 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | IHSS 116.2 – South Loading Dock, Building 444 | BY36-003A | 2082391.373 | 748592.033 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-003A | 2082391.373 | 748592.033 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-003A | 2082391.373 | 748592.033 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-003B | 2082391.373 | 748592.033 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-003B | 2082391.373 | 748592.033 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-003B | 2082391.373 | 748592.033 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY36-004A | 2082421.781 | 748593.047 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-004A | 2082421.781 | 748593.047 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY36-004A | 2082421.781 | 748593.047 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-004B | 2082421.781 | 748593.047 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-004B | 2082421.781 | 748593.047 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-004B | 2082421.781 | 748593.047 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY36-005A | 2082421.781 | 748570.747 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-005A | 2082421.781 | 748570.747 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-005A | 2082421.781 | 748570.747 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-005B | 2082421.781 | 748570.747 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-005B | 2082421.781 | 748570.747 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-005B | 2082421.781 | 748570.747 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY36-006A | 2082391.373 | 748570.747 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-006A | 2082391.373 | 748570.747 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-006A | 2082391.373 | 748570.747 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-006B | 2082391.373 | 748570.747 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-006B | 2082391.373 | 748570.747 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY36-006B | 2082391.373 | 748570.747 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | IHSS 136.1 – Cooling Tower Pond West of Building 444 | BW35-000A | 2081980.34 | 748552.635 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW35-000A | 2081980.34 | 748552.635 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-000A | 2081980.34 | 748552.635 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW35-000B | 2081980.34 | 748552.635 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW35-000B | 2081980.34 | 748552.635 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-000B | 2081980.34 | 748552.635 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BW35-001A | 2082014.405 | 748540.992 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW35-001A | 2082014.405 | 748540.992 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-001A | 2082014.405 | 748540.992 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW35-001B | 2082014.405 | 748540.992 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW35-001B | 2082014.405 | 748540.992 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-001B | 2082014.405 | 748540.992 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BW36-002A | 2081993.557 | 748646.961 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-002A | 2081993.557 | 748646.961 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW36-002A | 2081993.557 | 748646.961 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-002B | 2081993.557 | 748646.961 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-002B | 2081993.557 | 748646.961 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-002B | 2081993.557 | 748646.961 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BW36-003A | 2082020.672 | 748670.641 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-003A | 2082020.672 | 748670.641 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-003A | 2082020.672 | 748670.641 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-003B | 2082020.672 | 748670.641 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-003B | 2082020.672 | 748670.641 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-003B | 2082020.672 | 748670.641 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BW36-004A | 2082000.506 | 748611.638 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-004A | 2082000.506 | 748611.638 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-004A | 2082000.506 | 748611.638 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-004B | 2082000.506 | 748611.638 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-004B | 2082000.506 | 748611.638 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW36-004B | 2082000.506 | 748611.638 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BW36-005A | 2082027.622 | 748635.318 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-005A | 2082027.622 | 748635.318 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-005A | 2082027.622 | 748635.318 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-005B | 2082027.622 | 748635.318 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-005B | 2082027.622 | 748635.318 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-005B | 2082027.622 | 748635.318 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BW36-006A | 2082007.456 | 748576.315 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-006A | 2082007.456 | 748576.315 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-006A | 2082007.456 | 748576.315 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-006B | 2082007.456 | 748576.315 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-006B | 2082007.456 | 748576.315 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-006B | 2082007.456 | 748576.315 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | IHSS 136.2 – Cooling Tower Pond East of Building 444 | BZ36-000A | 2082635.857 | 748749.947 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ36-000A | 2082635.857 | 748749.947 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BZ36-000B | 2082635.857 | 748749.947 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ36-000B | 2082635.857 | 748749.947 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-000B | 2082635.857 | 748749.947 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BZ36-000C | 2082635.857 | 748749.947 | Subsurface Soil | 2.5'-4.5' | Metals | N/A | 6010 |
| | | BZ36-000C | 2082635.857 | 748749.947 | Subsurface Soil | 2.5'-4.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-000C | 2082635.857 | 748749.947 | Subsurface Soil | 2.5'-4.5' | VOCs | 8260 | 8260 |
| | | BZ36-001A | 2082654.053 | 748718.884 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ36-001A | 2082654.053 | 748718.884 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-001B | 2082654.053 | 748718.884 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ36-001B | 2082654.053 | 748718.884 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-001B | 2082654.053 | 748718.884 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BZ36-001C | 2082654.053 | 748718.884 | Subsurface Soil | 2.5'-4.5' | Metals | N/A | 6010 |
| | | BZ36-001C | 2082654.053 | 748718.884 | Subsurface Soil | 2.5'-4.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-001C | 2082654.053 | 748718.884 | Subsurface Soil | 2.5'-4.5' | VOCs | 8260 | 8260 |
| | | BZ36-002A | 2082636.25 | 748687.594 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BZ36-002A | 2082636.25 | 748687.594 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-002B | 2082636.25 | 748687.594 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ36-002B | 2082636.25 | 748687.594 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-002B | 2082636.25 | 748687.594 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BZ36-002C | 2082636.25 | 748687.594 | Subsurface Soil | 2.5'-4.5' | Metals | N/A | 6010 |
| | | BZ36-002C | 2082636.25 | 748687.594 | Subsurface Soil | 2.5'-4.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-002C | 2082636.25 | 748687.594 | Subsurface Soil | 2.5'-4.5' | VOCs | 8260 | 8260 |
| | | BZ37-000A | 2082653.268 | 748843.589 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ37-000A | 2082653.268 | 748843.589 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ37-000B | 2082653.268 | 748843.589 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ37-000B | 2082653.268 | 748843.589 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ37-000B | 2082653.268 | 748843.589 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BZ37-000C | 2082653.268 | 748843.589 | Subsurface Soil | 2.5'-4.5' | Metals | N/A | 6010 |
| | | BZ37-000C | 2082653.268 | 748843.589 | Subsurface Soil | 2.5'-4.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ37-000C | 2082653.268 | 748843.589 | Subsurface Soil | 2.5'-4.5' | VOCs | 8260 | 8260 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BZ37-001A | 2082635.465 | 748812.299 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ37-001A | 2082635.465 | 748812.299 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ37-001B | 2082635.465 | 748812.299 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ37-001B | 2082635.465 | 748812.299 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ37-001B | 2082635.465 | 748812.299 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BZ37-001C | 2082635.465 | 748812.299 | Subsurface Soil | 2.5'-4.5' | Metals | N/A | 6010 |
| | | BZ37-001C | 2082635.465 | 748812.299 | Subsurface Soil | 2.5'-4.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ37-001C | 2082635.465 | 748812.299 | Subsurface Soil | 2.5'-4.5' | VOCs | 8260 | 8260 |
| | | BZ37-002A | 2082653.66 | 748781.236 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ37-002A | 2082653.66 | 748781.236 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ37-002B | 2082653.66 | 748781.236 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ37-002B | 2082653.66 | 748781.236 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ37-002B | 2082653.66 | 748781.236 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BZ37-002C | 2082653.66 | 748781.236 | Subsurface Soil | 2.5'-4.5' | Metals | N/A | 6010 |
| | | BZ37-002C | 2082653.66 | 748781.236 | Subsurface Soil | 2.5'-4.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BZ37-002C | 2082653.66 | 748781.236 | Subsurface Soil | 2.5'-4.5' | VOCs | 8260 | 8260 |
| | IHSS 182 – Building 444/453 Drum Storage Area | BX36-001A | 2082197.773 | 748726.843 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-001A | 2082197.773 | 748726.843 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-001A | 2082197.773 | 748726.843 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-001B | 2082197.773 | 748726.843 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-001B | 2082197.773 | 748726.843 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-001B | 2082197.773 | 748726.843 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-002A | 2082187.637 | 748753.197 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-002A | 2082187.637 | 748753.197 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-002A | 2082187.637 | 748753.197 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-002B | 2082187.637 | 748753.197 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-002B | 2082187.637 | 748753.197 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-002B | 2082187.637 | 748753.197 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-003A | 2082145.066 | 748752.184 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-003A | 2082145.066 | 748752.184 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX36-003A | 2082145.066 | 748752.184 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-003B | 2082145.066 | 748752.184 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-003B | 2082145.066 | 748752.184 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-003B | 2082145.066 | 748752.184 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-004A | 2082145.066 | 748705.557 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-004A | 2082145.066 | 748705.557 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-004A | 2082145.066 | 748705.557 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-004B | 2082145.066 | 748705.557 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-004B | 2082145.066 | 748705.557 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-004B | 2082145.066 | 748705.557 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-005A | 2082183.571 | 748738.333 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-005A | 2082183.571 | 748738.333 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-005A | 2082183.571 | 748738.333 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-005B | 2082183.571 | 748738.333 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-005B | 2082183.571 | 748738.333 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX36-005B | 2082183.571 | 748738.333 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-006A | 2082179.496 | 748702.564 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-006A | 2082179.496 | 748702.564 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-006A | 2082179.496 | 748702.564 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-006B | 2082179.496 | 748702.564 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-006B | 2082179.496 | 748702.564 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-006B | 2082179.496 | 748702.564 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-007A | 2082150.557 | 748723.977 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-007A | 2082150.557 | 748723.977 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-007A | 2082150.557 | 748723.977 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-007B | 2082150.557 | 748723.977 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-007B | 2082150.557 | 748723.977 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-007B | 2082150.557 | 748723.977 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | IHSS 207 – Inactive Building 444 Acid Dumpster | BZ36-003A | 2082540.134 | 748753.174 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ36-003A | 2082540.134 | 748753.174 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BZ36-003B | 2082540.134 | 748753.174 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ36-003B | 2082540.134 | 748753.174 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-004A | 2082570.098 | 748733.221 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ36-004A | 2082570.098 | 748733.221 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-004B | 2082570.098 | 748733.221 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ36-004B | 2082570.098 | 748733.221 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-005A | 2082576.863 | 748759.279 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ36-005A | 2082576.863 | 748759.279 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ36-005B | 2082576.863 | 748759.279 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ36-005B | 2082576.863 | 748759.279 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | IHSS 208 – Inactive Building 444/447 Waste Storage Area | BW36-007A | 2082114.163 | 748644.877 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-007A | 2082114.163 | 748644.877 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-007A | 2082114.163 | 748644.877 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-007B | 2082114.163 | 748644.877 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-007B | 2082114.163 | 748644.877 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW36-007B | 2082114.163 | 748644.877 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BW36-009A | 2082113.644 | 748614.333 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-009A | 2082113.644 | 748614.333 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-009A | 2082113.644 | 748614.333 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-009B | 2082113.644 | 748614.333 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-009B | 2082113.644 | 748614.333 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-009B | 2082113.644 | 748614.333 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | PAC 000-121 – Known OPWL Leaks | BX37-000D | 2082331.57 | 748907.266 | Subsurface Soil | 4.5'-6.5' | Metals | N/A | 6010 |
| | | BX37-000D | 2082331.57 | 748907.266 | Subsurface Soil | 4.5'-6.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-000D | 2082331.57 | 748907.266 | Subsurface Soil | 4.5'-6.5' | VOCs | 8260 | 8260 |
| | | BX37-000E | 2082331.57 | 748907.266 | Subsurface Soil | 6.5'-8.5' | Metals | N/A | 6010 |
| | | BX37-000E | 2082331.57 | 748907.266 | Subsurface Soil | 6.5'-8.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-000E | 2082331.57 | 748907.266 | Subsurface Soil | 6.5'-8.5' | VOCs | 8260 | 8260 |
| | | BY37-000D | 2082379.209 | 748949.837 | Subsurface Soil | 4.5'-6.5' | Metals | N/A | 6010 |
| | | BY37-000D | 2082379.209 | 748949.837 | Subsurface Soil | 4.5'-6.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY37-000D | 2082379.209 | 748949.837 | Subsurface Soil | 4.5'-6.5' | VOCs | 8260 | 8260 |
| | | BY37-000E | 2082379.209 | 748949.837 | Subsurface Soil | 6.5'-8.5' | Metals | N/A | 6010 |
| | | BY37-000E | 2082379.209 | 748949.837 | Subsurface Soil | 6.5'-8.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-000E | 2082379.209 | 748949.837 | Subsurface Soil | 6.5'-8.5' | VOCs | 8260 | 8260 |
| | PAC 400-801 – Transformer, Roof of Building 447 | BW36-008A | 2082072.08 | 748625.037 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-008A | 2082072.08 | 748625.037 | Surface Soil | 0'-0.5' | PCBs | N/A | 8082 |
| | | BW36-008A | 2082072.08 | 748625.037 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-008B | 2082072.08 | 748625.037 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-008B | 2082072.08 | 748625.037 | Subsurface Soil | 0.5'-2.5' | PCBs | N/A | 8082 |
| | | BW36-008B | 2082072.08 | 748625.037 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-010A | 2082053.841 | 748606.224 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-010A | 2082053.841 | 748606.224 | Surface Soil | 0'-0.5' | PCBs | N/A | 8082 |
| | | BW36-010A | 2082053.841 | 748606.224 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-010B | 2082053.841 | 748606.224 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-010B | 2082053.841 | 748606.224 | Subsurface Soil | 0.5'-2.5' | PCBs | N/A | 8082 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW36-010B | 2082053.841 | 748606.224 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-011A | 2082090.331 | 748609.265 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-011A | 2082090.331 | 748609.265 | Surface Soil | 0'-0.5' | PCBs | N/A | 8082 |
| | | BW36-011A | 2082090.331 | 748609.265 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-011B | 2082090.331 | 748609.265 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-011B | 2082090.331 | 748609.265 | Subsurface Soil | 0.5'-2.5' | PCBs | N/A | 8082 |
| | | BW36-011B | 2082090.331 | 748609.265 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | PAC 400-810 – Beryllium Fire, Building 444 | BX35-000A | 2082320.289 | 748546.045 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX35-000A | 2082320.289 | 748546.045 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX35-000B | 2082320.289 | 748546.045 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX35-000B | 2082320.289 | 748546.045 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-000A | 2082311.56 | 748580.971 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-000A | 2082311.56 | 748580.971 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-000B | 2082311.56 | 748580.971 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-000B | 2082311.56 | 748580.971 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY35-000A | 2082527.955 | 748486.626 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY35-000A | 2082527.955 | 748486.626 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-000B | 2082527.955 | 748486.626 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY35-000B | 2082527.955 | 748486.626 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-001A | 2082363.629 | 748501.216 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY35-001A | 2082363.629 | 748501.216 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-001B | 2082363.629 | 748501.216 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY35-001B | 2082363.629 | 748501.216 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-002A | 2082398.24 | 748491.313 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY35-002A | 2082398.24 | 748491.313 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-002B | 2082398.24 | 748491.313 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY35-002B | 2082398.24 | 748491.313 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-003A | 2082432.851 | 748481.41 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY35-003A | 2082432.851 | 748481.41 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-003B | 2082432.851 | 748481.41 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY35-003B | 2082432.851 | 748481.41 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-004A | 2082467.462 | 748471.507 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY35-004A | 2082467.462 | 748471.507 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-004B | 2082467.462 | 748471.507 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY35-004B | 2082467.462 | 748471.507 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-005A | 2082337.747 | 748476.194 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY35-005A | 2082337.747 | 748476.194 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY35-005B | 2082337.747 | 748476.194 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY35-005B | 2082337.747 | 748476.194 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-001A | 2082372.053 | 748596.09 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-001A | 2082372.053 | 748596.09 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-001B | 2082372.053 | 748596.09 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-001B | 2082372.053 | 748596.09 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-002A | 2082406.664 | 748586.187 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-002A | 2082406.664 | 748586.187 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY36-002A | 2082406.664 | 748586.187 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-002B | 2082406.664 | 748586.187 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-002B | 2082406.664 | 748586.187 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-002B | 2082406.664 | 748586.187 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY36-017A | 2082377.870 | 748592.857 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-017A | 2082377.870 | 748592.857 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-017A | 2082377.870 | 748592.857 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-017B | 2082377.870 | 748592.857 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-017B | 2082377.870 | 748592.857 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-017B | 2082377.870 | 748592.857 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY36-018A | 2082367.955 | 748585.002 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-018A | 2082367.955 | 748585.002 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-018A | 2082367.955 | 748585.002 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-018B | 2082367.955 | 748585.002 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-018B | 2082367.955 | 748585.002 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY36-018B | 2082367.955 | 748585.002 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BZ35-000A | 2082640.212 | 748551.79 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ35-000A | 2082640.212 | 748551.79 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ35-000B | 2082640.212 | 748551.79 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ35-000B | 2082640.212 | 748551.79 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ35-001A | 2082648.941 | 748516.865 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ35-001A | 2082648.941 | 748516.865 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ35-001B | 2082648.941 | 748516.865 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ35-001B | 2082648.941 | 748516.865 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ35-002A | 2082623.059 | 748491.842 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ35-002A | 2082623.059 | 748491.842 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ35-002B | 2082623.059 | 748491.842 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ35-002B | 2082623.059 | 748491.842 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BZ35-003A | 2082562.566 | 748476.723 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BZ35-003A | 2082562.566 | 748476.723 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BZ35-003B | 2082562.566 | 748476.723 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BZ35-003B | 2082562.566 | 748476.723 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |

**Figure 4**
**IHSS Group 400-3 Proposed Sampling Locations for Outside IHSSs, PACs, and OPWL Leaks**

**Table 4**
**Sampling Specifications for UBC Sites 444 and 447**

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| 400-3 | UBC 444 – Trench/Pit location | BW37-000A | 2082086.821 | 748789.521 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW37-000A | 2082086.821 | 748789.521 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW37-000A | 2082086.821 | 748789.521 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW37-000B | 2082086.821 | 748789.521 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW37-000B | 2082086.821 | 748789.521 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW37-000B | 2082086.821 | 748789.521 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Trench/Pit location | BW37-001A | 2082126.365 | 748848.513 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW37-001A | 2082126.365 | 748848.513 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW37-001A | 2082126.365 | 748848.513 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW37-001B | 2082126.365 | 748848.513 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW37-001B | 2082126.365 | 748848.513 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW37-001B | 2082126.365 | 748848.513 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical location | BW37-002A | 2082095.287 | 748870.064 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW37-002A | 2082095.287 | 748870.064 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW37-002A | 2082095.287 | 748870.064 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW37-002B | 2082095.287 | 748870.064 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW37-002B | 2082095.287 | 748870.064 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW37-002B | 2082095.287 | 748870.064 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX35-003A | 2082333.001 | 748547.27 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX35-003A | 2082333.001 | 748547.27 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX35-003A | 2082333.001 | 748547.27 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX35-003B | 2082333.001 | 748547.27 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX35-003B | 2082333.001 | 748547.27 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX35-003B | 2082333.001 | 748547.27 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical location | BX36-011A | 2082300.058 | 748667.548 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-011A | 2082300.058 | 748667.548 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-011A | 2082300.058 | 748667.548 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-011B | 2082300.058 | 748667.548 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-011B | 2082300.058 | 748667.548 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-011B | 2082300.058 | 748667.548 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX36-012A | 2082230.616 | 748648.528 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-012A | 2082230.616 | 748648.528 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-012A | 2082230.616 | 748648.528 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-012B | 2082230.616 | 748648.528 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-012B | 2082230.616 | 748648.528 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-012B | 2082230.616 | 748648.528 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-013A | 2082318.308 | 748737.196 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-013A | 2082318.308 | 748737.196 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-013A | 2082318.308 | 748737.196 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-013B | 2082318.308 | 748737.196 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-013B | 2082318.308 | 748737.196 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-013B | 2082318.308 | 748737.196 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-014A | 2082248.865 | 748718.177 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-014A | 2082248.865 | 748718.177 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-014A | 2082248.865 | 748718.177 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-014B | 2082248.865 | 748718.177 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX36-014B | 2082248.865 | 748718.177 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-014B | 2082248.865 | 748718.177 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Trench/Pit location | BX37-001A | 2082147.758 | 748787.576 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-001A | 2082147.758 | 748787.576 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-001A | 2082147.758 | 748787.576 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-001B | 2082147.758 | 748787.576 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-001B | 2082147.758 | 748787.576 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-001B | 2082147.758 | 748787.576 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Sump location | BX37-002A | 2082206.101 | 748853.05 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-002A | 2082206.101 | 748853.05 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-002A | 2082206.101 | 748853.05 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-002B | 2082206.101 | 748853.05 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-002B | 2082206.101 | 748853.05 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-002B | 2082206.101 | 748853.05 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX37-003A | 2082246.293 | 748779.797 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-003A | 2082246.293 | 748779.797 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX37-003A | 2082246.293 | 748779.797 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-003B | 2082246.293 | 748779.797 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-003B | 2082246.293 | 748779.797 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-003B | 2082246.293 | 748779.797 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Sump location | BX37-004A | 2082297.506 | 748808.321 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-004A | 2082297.506 | 748808.321 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-004A | 2082297.506 | 748808.321 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-004B | 2082297.506 | 748808.321 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-004B | 2082297.506 | 748808.321 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-004B | 2082297.506 | 748808.321 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical location | BX37-005A | 2082336.557 | 748806.845 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-005A | 2082336.557 | 748806.845 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-005A | 2082336.557 | 748806.845 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-005B | 2082336.557 | 748806.845 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-005B | 2082336.557 | 748806.845 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-005B | 2082336.557 | 748806.845 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX37-006A | 2082267.115 | 748787.825 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-006A | 2082267.115 | 748787.825 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-006A | 2082267.115 | 748787.825 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-006B | 2082267.115 | 748787.825 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-006B | 2082267.115 | 748787.825 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-006B | 2082267.115 | 748787.825 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX37-007A | 2082197.672 | 748768.806 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-007A | 2082197.672 | 748768.806 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-007A | 2082197.672 | 748768.806 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-007B | 2082197.672 | 748768.806 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-007B | 2082197.672 | 748768.806 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-007B | 2082197.672 | 748768.806 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX37-008A | 2082285.364 | 748857.474 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-008A | 2082285.364 | 748857.474 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-008A | 2082285.364 | 748857.474 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-008B | 2082285.364 | 748857.474 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX37-008B | 2082285.364 | 748857.474 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-008B | 2082285.364 | 748857.474 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX37-009A | 2082215.922 | 748838.454 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-009A | 2082215.922 | 748838.454 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-009A | 2082215.922 | 748838.454 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-009B | 2082215.922 | 748838.454 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-009B | 2082215.922 | 748838.454 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-009B | 2082215.922 | 748838.454 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX37-010A | 2082146.48 | 748819.435 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-010A | 2082146.48 | 748819.435 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-010A | 2082146.48 | 748819.435 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-010B | 2082146.48 | 748819.435 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-010B | 2082146.48 | 748819.435 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-010B | 2082146.48 | 748819.435 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX37-011A | 2082164.729 | 748889.083 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX37-011A | 2082164.729 | 748889.083 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX37-011A | 2082164.729 | 748889.083 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX37-011B | 2082164.729 | 748889.083 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX37-011B | 2082164.729 | 748889.083 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX37-011B | 2082164.729 | 748889.083 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – OPWL/tanks/berms and foundation drain | BY36-007A | 2082432.502 | 748583.4 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-007A | 2082432.502 | 748583.4 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-007A | 2082432.502 | 748583.4 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-007B | 2082432.502 | 748583.4 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-007B | 2082432.502 | 748583.4 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-007B | 2082432.502 | 748583.4 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – OPWL below grade and foundation drain | BY36-008A | 2082438.926 | 748607.487 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-008A | 2082438.926 | 748607.487 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-008A | 2082438.926 | 748607.487 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-008B | 2082438.926 | 748607.487 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-008B | 2082438.926 | 748607.487 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-008B | 2082438.926 | 748607.487 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | UBC 444 – Statistical replacement and foundation drain | BY36-009A | 2082384.328 | 748686.173 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-009A | 2082384.328 | 748686.173 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-009A | 2082384.328 | 748686.173 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-009B | 2082384.328 | 748686.173 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-009B | 2082384.328 | 748686.173 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-009B | 2082384.328 | 748686.173 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Elevator pit | BY36-010A | 2082447.758 | 748739.968 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-010A | 2082447.758 | 748739.968 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-010A | 2082447.758 | 748739.968 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-010B | 2082447.758 | 748739.968 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-010B | 2082447.758 | 748739.968 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-010B | 2082447.758 | 748739.968 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical location | BY36-011A | 2082420.693 | 748635.938 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-011A | 2082420.693 | 748635.938 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-011A | 2082420.693 | 748635.938 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-011B | 2082420.693 | 748635.938 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY36-011B | 2082420.693 | 748635.938 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-011B | 2082420.693 | 748635.938 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY36-012A | 2082351.251 | 748616.919 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-012A | 2082351.251 | 748616.919 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-012A | 2082351.251 | 748616.919 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-012B | 2082351.251 | 748616.919 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-012B | 2082351.251 | 748616.919 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-012B | 2082351.251 | 748616.919 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical location | BY36-013A | 2082508.385 | 748724.607 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-013A | 2082508.385 | 748724.607 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-013A | 2082508.385 | 748724.607 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-013B | 2082508.385 | 748724.607 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-013B | 2082508.385 | 748724.607 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-013B | 2082508.385 | 748724.607 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical location and foundation drain | BY36-014A | 2082438.943 | 748705.587 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-014A | 2082438.943 | 748705.587 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY36-014A | 2082438.943 | 748705.587 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-014B | 2082438.943 | 748705.587 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-014B | 2082438.943 | 748705.587 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-014B | 2082438.943 | 748705.587 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical location and foundation drain | BY36-016A | 2082387.75 | 748756.216 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY36-016A | 2082387.75 | 748756.216 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-016A | 2082387.75 | 748756.216 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY36-016B | 2082387.75 | 748756.216 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY36-016B | 2082387.75 | 748756.216 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY36-016B | 2082387.75 | 748756.216 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Sump location and foundation drain | BY37-001A | 2082359.738 | 748819.341 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-001A | 2082359.738 | 748819.341 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-001A | 2082359.738 | 748819.341 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-001B | 2082359.738 | 748819.341 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-001B | 2082359.738 | 748819.341 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-001B | 2082359.738 | 748819.341 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | UBC 444 – Sump location | BY37-002A | 2082348.718 | 748899.077 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-002A | 2082348.718 | 748899.077 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-002A | 2082348.718 | 748899.077 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-002B | 2082348.718 | 748899.077 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-002B | 2082348.718 | 748899.077 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-002B | 2082348.718 | 748899.077 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY37-003A | 2082377.241 | 748899.077 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-003A | 2082377.241 | 748899.077 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-003A | 2082377.241 | 748899.077 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-003B | 2082377.241 | 748899.077 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-003B | 2082377.241 | 748899.077 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-003B | 2082377.241 | 748899.077 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY37-004A | 2082413.544 | 748884.815 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-004A | 2082413.544 | 748884.815 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-004A | 2082413.544 | 748884.815 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-004B | 2082413.544 | 748884.815 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY37-004B | 2082413.544 | 748884.815 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-004B | 2082413.544 | 748884.815 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Sample in pit/under grate | BY37-005A | 2082514.672 | 748803.783 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-005A | 2082514.672 | 748803.783 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-005A | 2082514.672 | 748803.783 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-005B | 2082514.672 | 748803.783 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-005B | 2082514.672 | 748803.783 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-005B | 2082514.672 | 748803.783 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Foundation drain and OPWL below grade | BY37-006A | 2082366.663 | 748772.085 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-006A | 2082366.663 | 748772.085 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-006A | 2082366.663 | 748772.085 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-006B | 2082366.663 | 748772.085 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-006B | 2082366.663 | 748772.085 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-006B | 2082366.663 | 748772.085 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical replacement | BY37-007A | 2082393.962 | 748818.654 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-007A | 2082393.962 | 748818.654 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY37-007A | 2082393.962 | 748818.654 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-007B | 2082393.962 | 748818.654 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-007B | 2082393.962 | 748818.654 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-007B | 2082393.962 | 748818.654 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | IHSS 000-121 – Tank 5 Process Waste Tanks | BY37-008A | 2082463.013 | 748799.384 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-008A | 2082463.013 | 748799.384 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-008A | 2082463.013 | 748799.384 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-008B | 2082463.013 | 748799.384 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-008B | 2082463.013 | 748799.384 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-008B | 2082463.013 | 748799.384 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | IHSS 000-121 – Tank 6 Process Waste Floor Sump and Foundation Drain Floor | BY37-009A | 2082443.743 | 748805.807 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-009A | 2082443.743 | 748805.807 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-009A | 2082443.743 | 748805.807 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-009B | 2082443.743 | 748805.807 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-009B | 2082443.743 | 748805.807 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-009B | 2082443.743 | 748805.807 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | UBC 444 – Foundation drain and Room 1 entrance in basement | BY37-010A | 2082433.305 | 748821.877 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-010A | 2082433.305 | 748821.877 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-010A | 2082433.305 | 748821.877 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-010B | 2082433.305 | 748821.877 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-010B | 2082433.305 | 748821.877 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-010B | 2082433.305 | 748821.877 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 444 – Statistical location | BY37-011A | 2082526.635 | 748794.256 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-011A | 2082526.635 | 748794.256 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-011A | 2082526.635 | 748794.256 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-011B | 2082526.635 | 748794.256 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-011B | 2082526.635 | 748794.256 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-011B | 2082526.635 | 748794.256 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY37-012A | 2082457.192 | 748775.236 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-012A | 2082457.192 | 748775.236 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-012A | 2082457.192 | 748775.236 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-012B | 2082457.192 | 748775.236 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BY37-012B | 2082457.192 | 748775.236 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-012B | 2082457.192 | 748775.236 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY37-013A | 2082475.442 | 748844.885 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-013A | 2082475.442 | 748844.885 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-013A | 2082475.442 | 748844.885 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-013B | 2082475.442 | 748844.885 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-013B | 2082475.442 | 748844.885 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-013B | 2082475.442 | 748844.885 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BY37-016A | 2082354.807 | 748876.494 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BY37-016A | 2082354.807 | 748876.494 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-016A | 2082354.807 | 748876.494 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BY37-016B | 2082354.807 | 748876.494 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BY37-016B | 2082354.807 | 748876.494 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BY37-016B | 2082354.807 | 748876.494 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 447 – OPWL below grade | BW35-002A | 2082068.888 | 748552.885 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW35-002A | 2082068.888 | 748552.885 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW35-002A | 2082068.888 | 748552.885 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW35-002B | 2082068.888 | 748552.885 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW35-002B | 2082068.888 | 748552.885 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-002B | 2082068.888 | 748552.885 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | IHSS 000-121 – Tank 4 Process Waste Pits | BW35-003A | 2082054.842 | 748549.846 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW35-003A | 2082054.842 | 748549.846 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-003A | 2082054.842 | 748549.846 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW35-003B | 2082054.842 | 748549.846 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW35-003B | 2082054.842 | 748549.846 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-003B | 2082054.842 | 748549.846 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 447 – Statistical location | BW35-004A | 2082032.27 | 748536.921 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW35-004A | 2082032.27 | 748536.921 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-004A | 2082032.27 | 748536.921 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW35-004B | 2082032.27 | 748536.921 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW35-004B | 2082032.27 | 748536.921 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-004B | 2082032.27 | 748536.921 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW35-005A | 2082104.04 | 748531.175 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW35-005A | 2082104.04 | 748531.175 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-005A | 2082104.04 | 748531.175 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW35-005B | 2082104.04 | 748531.175 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW35-005B | 2082104.04 | 748531.175 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW35-005B | 2082104.04 | 748531.175 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 447 – OPWL below grade | BW36-015A | 2082067.739 | 748596.279 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-015A | 2082067.739 | 748596.279 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-015A | 2082067.739 | 748596.279 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-015B | 2082067.739 | 748596.279 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BW36-015B | 2082067.739 | 748596.279 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-015B | 2082067.739 | 748596.279 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 447 – OPWL below grade | BW36-016A | 2082125.641 | 748564.36 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BW36-016A | 2082125.641 | 748564.36 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-016A | 2082125.641 | 748564.36 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BW36-016B | 2082125.641 | 748564.36 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BW36-016B | 2082125.641 | 748564.36 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BW36-016B | 2082125.641 | 748564.36 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 447 – Statistical location | BX35-001A | 2082236.087 | 748534.978 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX35-001A | 2082236.087 | 748534.978 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX35-001A | 2082236.087 | 748534.978 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX35-001B | 2082236.087 | 748534.978 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX35-001B | 2082236.087 | 748534.978 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX35-001B | 2082236.087 | 748534.978 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 447 – OPWL below grade | BX35-002A | 2082154.314 | 748539.58 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX35-002A | 2082154.314 | 748539.58 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX35-002A | 2082154.314 | 748539.58 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX35-002B | 2082154.314 | 748539.58 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX35-002B | 2082154.314 | 748539.58 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX35-002B | 2082154.314 | 748539.58 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 447 – Statistical location | BX35-004A | 2082175.811 | 748525.428 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX35-004A | 2082175.811 | 748525.428 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX35-004A | 2082175.811 | 748525.428 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX35-004B | 2082175.811 | 748525.428 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX35-004B | 2082175.811 | 748525.428 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX35-004B | 2082175.811 | 748525.428 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | UBC 447 – OPWL below grade | BX36-008A | 2082172.014 | 748564.006 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-008A | 2082172.014 | 748564.006 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-008A | 2082172.014 | 748564.006 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-008B | 2082172.014 | 748564.006 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-008B | 2082172.014 | 748564.006 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-008B | 2082172.014 | 748564.006 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-009A | 2082219.449 | 748563.652 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-009A | 2082219.449 | 748563.652 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-009A | 2082219.449 | 748563.652 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-009B | 2082219.449 | 748563.652 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-009B | 2082219.449 | 748563.652 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-009B | 2082219.449 | 748563.652 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | UBC 447 – Statistical location | BX36-015A | 2082144.902 | 748590.456 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-015A | 2082144.902 | 748590.456 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-015A | 2082144.902 | 748590.456 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-015B | 2082144.902 | 748590.456 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-015B | 2082144.902 | 748590.456 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-015B | 2082144.902 | 748590.456 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-016A | 2082216.672 | 748584.71 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-016A | 2082216.672 | 748584.71 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-016A | 2082216.672 | 748584.71 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-016B | 2082216.672 | 748584.71 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |
| | | BX36-016B | 2082216.672 | 748584.71 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-016B | 2082216.672 | 748584.71 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |
| | | BX36-017A | 2082185.764 | 748649.738 | Surface Soil | 0'-0.5' | Metals | N/A | 6010 |
| | | BX36-017A | 2082185.764 | 748649.738 | Surface Soil | 0'-0.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-017A | 2082185.764 | 748649.738 | Surface Soil | 0'-0.5' | VOCs | 8260 | 8260 |
| | | BX36-017B | 2082185.764 | 748649.738 | Subsurface Soil | 0.5'-2.5' | Metals | N/A | 6010 |

| IHSS Group | IHSS/PAC/UBC Site | Location Code | Easting | Northing | Media | Depth Interval | Analyte | Onsite Laboratory Method | Offsite Laboratory Method |
|---|---|---|---|---|---|---|---|---|---|
| | | BX36-017B | 2082185.764 | 748649.738 | Subsurface Soil | 0.5'-2.5' | Radionuclides | HPGe | Alpha Spec |
| | | BX36-017B | 2082185.764 | 748649.738 | Subsurface Soil | 0.5'-2.5' | VOCs | 8260 | 8260 |

**Figure 5**
**IHSS Group 400-3 Proposed Sampling Locations for UBC Sites**



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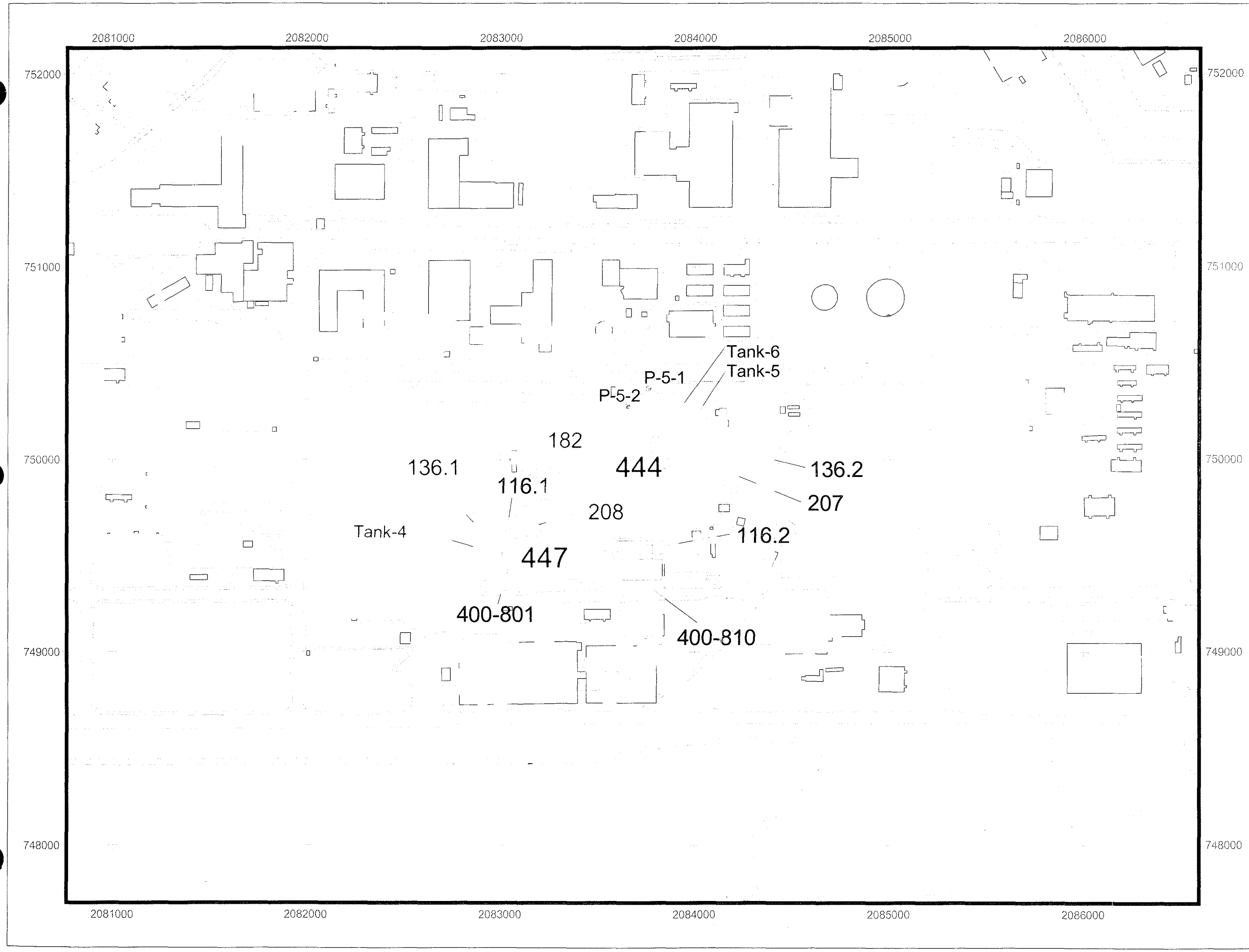


# Figure 1

IHSS Group 400-3
Location Map

## Key

- Paved area
- Dirt road
- Stream, ditch, or other drainage
- Building
- UBC site
- IHSS
- PAC
- OPWL tank (000-121)
- OPWL known leak (000-121)

N

60 0 60 120 Feet

Scale = 1:2,500

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:

RADMS

Prepared for:

KAISER-HILL COMPANY

400-3characterization02-03mr.apr

March 2003

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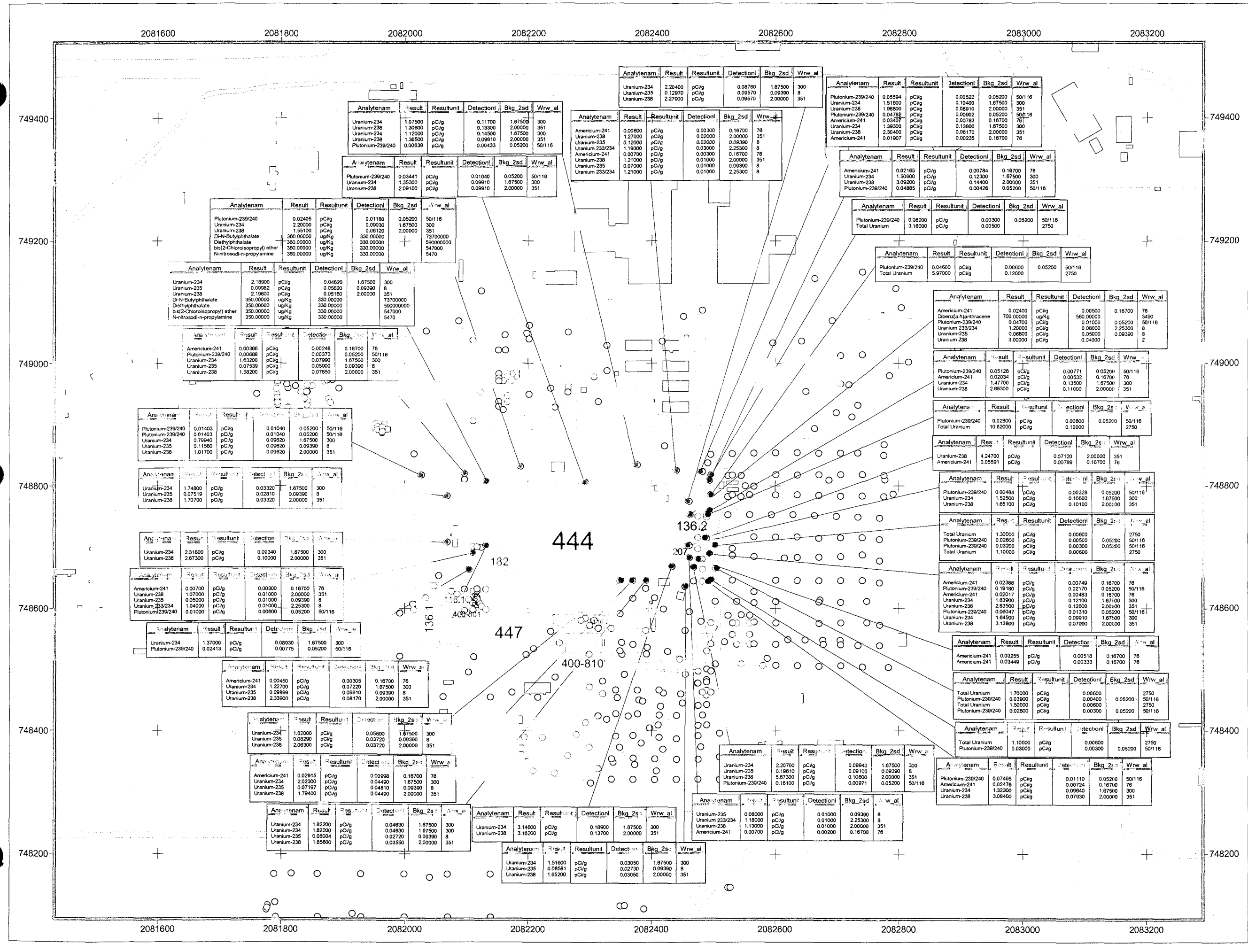
# Figure 2

## Existing Preaccelerated Action Surface Soil Sample Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits (Northern Area)




| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 1.07500 | pCi/g | 0.11700 | 1.67500 | 300 |
| Uranium-238 | 1.30600 | pCi/g | 0.13300 | 2.00000 | 351 |
| Uranium-234 | 1.12000 | pCi/g | 0.14500 | 1.67500 | 300 |
| Uranium-238 | 1.36500 | pCi/g | 0.09610 | 2.00000 | 351 |
| Plutonium-239/240 | 0.00639 | pCi/g | 0.00433 | 0.05200 | 50/116 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.03441 | pCi/g | 0.01040 | 0.05200 | 50/116 |
| Uranium-234 | 1.35300 | pCi/g | 0.09910 | 1.67500 | 300 |
| Uranium-238 | 2.09100 | pCi/g | 0.09910 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.02405 | pCi/g | 0.01180 | 0.05200 | 50/116 |
| Uranium-234 | 2.20000 | pCi/g | 0.09030 | 1.67500 | 300 |
| Uranium-238 | 1.55100 | pCi/g | 0.06120 | 2.00000 | 351 |
| Di-N-Butylphthalate | 360.00000 | ug/Kg | 330.00000 | | 73700000 |
| Diethylphthalate | 360.00000 | ug/Kg | 330.00000 | | 590000000 |
| bis(2-Chloroisopropyl) ether | 360.00000 | ug/Kg | 330.00000 | | 547000 |
| N-nitrosodi-n-propylamine | 360.00000 | ug/Kg | 330.00000 | | 5470 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 2.18900 | pCi/g | 0.04620 | 1.67500 | 300 |
| Uranium-235 | 0.09982 | pCi/g | 0.05620 | 0.09390 | 8 |
| Uranium-238 | 2.19600 | pCi/g | 0.05160 | 2.00000 | 351 |
| Di-N-Butylphthalate | 350.00000 | ug/Kg | 330.00000 | | 73700000 |
| Diethylphthalate | 350.00000 | ug/Kg | 330.00000 | | 590000000 |
| bis(2-Chloroisopropyl) ether | 350.00000 | ug/Kg | 330.00000 | | 547000 |
| N-nitrosodi-n-propylamine | 350.00000 | ug/Kg | 330.00000 | | 5470 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.00366 | pCi/g | 0.00248 | 0.16700 | 76 |
| Plutonium-239/240 | 0.00688 | pCi/g | 0.00373 | 0.05200 | 50/116 |
| Uranium-234 | 1.63200 | pCi/g | 0.07990 | 1.67500 | 300 |
| Uranium-235 | 0.07539 | pCi/g | 0.05900 | 0.09390 | 8 |
| Uranium-238 | 1.58200 | pCi/g | 0.07650 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.01403 | pCi/g | 0.01040 | 0.05200 | 50/116 |
| Plutonium-239/240 | 0.01403 | pCi/g | 0.01040 | 0.05200 | 50/116 |
| Uranium-234 | 0.79940 | pCi/g | 0.09620 | 1.67500 | 300 |
| Uranium-235 | 0.11560 | pCi/g | 0.09620 | 0.09390 | 8 |
| Uranium-238 | 1.01700 | pCi/g | 0.09620 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 1.74800 | pCi/g | 0.03320 | 1.67500 | 300 |
| Uranium-235 | 0.07519 | pCi/g | 0.02810 | 0.09390 | 8 |
| Uranium-238 | 1.70700 | pCi/g | 0.03320 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 2.31800 | pCi/g | 0.09340 | 1.67500 | 300 |
| Uranium-238 | 2.67300 | pCi/g | 0.10000 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.00700 | pCi/g | 0.00300 | 0.16700 | 76 |
| Uranium-238 | 1.07000 | pCi/g | 0.01000 | 2.00000 | 351 |
| Uranium-235 | 0.05000 | pCi/g | 0.01000 | 0.09390 | 8 |
| Uranium-233/234 | 1.04000 | pCi/g | 0.01000 | 2.25300 | 8 |
| Plutonium239/240 | 0.01000 | pCi/g | 0.00600 | 0.05200 | 50/116 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 1.37000 | pCi/g | 0.08930 | 1.67500 | 300 |
| Plutonium-239/240 | 0.02413 | pCi/g | 0.00775 | 0.05200 | 50/116 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.00450 | pCi/g | 0.00305 | 0.16700 | 76 |
| Uranium-234 | 1.22700 | pCi/g | 0.07220 | 1.67500 | 300 |
| Uranium-235 | 0.09899 | pCi/g | 0.06810 | 0.09390 | 8 |
| Uranium-238 | 2.33900 | pCi/g | 0.08170 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 1.82000 | pCi/g | 0.05890 | 1.67500 | 300 |
| Uranium-235 | 0.08290 | pCi/g | 0.03720 | 0.09390 | 8 |
| Uranium-238 | 2.06300 | pCi/g | 0.03720 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.02915 | pCi/g | 0.00998 | 0.16700 | 76 |
| Uranium-234 | 2.02300 | pCi/g | 0.04490 | 1.67500 | 300 |
| Uranium-235 | 0.07197 | pCi/g | 0.04810 | 0.09390 | 8 |
| Uranium-238 | 1.79400 | pCi/g | 0.04490 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 1.82200 | pCi/g | 0.04830 | 1.67500 | 300 |
| Uranium-234 | 1.82200 | pCi/g | 0.04830 | 1.67500 | 300 |
| Uranium-235 | 0.08004 | pCi/g | 0.02720 | 0.09390 | 8 |
| Uranium-238 | 1.85600 | pCi/g | 0.03550 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 3.14600 | pCi/g | 0.18900 | 1.67500 | 300 |
| Uranium-238 | 3.16200 | pCi/g | 0.13700 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 1.51600 | pCi/g | 0.03050 | 1.67500 | 300 |
| Uranium-235 | 0.08581 | pCi/g | 0.02730 | 0.09390 | 8 |
| Uranium-238 | 1.65200 | pCi/g | 0.03050 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 2.20400 | pCi/g | 0.08760 | 1.67500 | 300 |
| Uranium-235 | 0.12970 | pCi/g | 0.09570 | 0.09390 | 8 |
| Uranium-238 | 2.27000 | pCi/g | 0.09570 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.00600 | pCi/g | 0.00300 | 0.16700 | 76 |
| Uranium-238 | 1.27000 | pCi/g | 0.02000 | 2.00000 | 351 |
| Uranium-235 | 0.12000 | pCi/g | 0.02000 | 0.09390 | 8 |
| Uranium-233/234 | 1.19000 | pCi/g | 0.03000 | 2.25300 | 8 |
| Americium-241 | 0.00700 | pCi/g | 0.00300 | 0.16700 | 76 |
| Uranium-238 | 1.21000 | pCi/g | 0.01000 | 2.00000 | 351 |
| Uranium-235 | 0.07000 | pCi/g | 0.01000 | 0.09390 | 8 |
| Uranium 233/234 | 1.21000 | pCi/g | 0.01000 | 2.25300 | 8 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-234 | 2.20700 | pCi/g | 0.09940 | 1.67500 | 300 |
| Uranium-235 | 0.19810 | pCi/g | 0.09100 | 0.09390 | 8 |
| Uranium-238 | 5.67300 | pCi/g | 0.10600 | 2.00000 | 351 |
| Plutonium-239/240 | 0.16100 | pCi/g | 0.00971 | 0.05200 | 50/116 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-235 | 0.08000 | pCi/g | 0.01000 | 0.09390 | 8 |
| Uranium 233/234 | 1.18000 | pCi/g | 0.01000 | 2.25300 | 8 |
| Uranium-238 | 1.13000 | pCi/g | 0.01000 | 2.00000 | 351 |
| Americium-241 | 0.00700 | pCi/g | 0.00200 | 0.16700 | 76 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.05594 | pCi/g | 0.00522 | 0.05200 | 50/116 |
| Uranium-234 | 1.51600 | pCi/g | 0.10400 | 1.67500 | 300 |
| Uranium-238 | 1.96800 | pCi/g | 0.08910 | 2.00000 | 351 |
| Plutonium-239/240 | 0.04782 | pCi/g | 0.00902 | 0.05200 | 50/116 |
| Americium-241 | 0.03407 | pCi/g | 0.00783 | 0.16700 | 76 |
| Uranium-234 | 1.39300 | pCi/g | 0.13800 | 1.67500 | 300 |
| Uranium-238 | 2.30400 | pCi/g | 0.06170 | 2.00000 | 351 |
| Americium-241 | 0.01907 | pCi/g | 0.00235 | 0.16700 | 76 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.02165 | pCi/g | 0.00784 | 0.16700 | 76 |
| Uranium-234 | 1.50600 | pCi/g | 0.12300 | 1.67500 | 300 |
| Uranium-238 | 3.09200 | pCi/g | 0.14400 | 2.00000 | 351 |
| Plutonium-239/240 | 0.04885 | pCi/g | 0.00426 | 0.05200 | 50/116 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.06200 | pCi/g | 0.00300 | 0.05200 | 50/116 |
| Total Uranium | 3.16000 | pCi/g | 0.00500 | | 2750 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.04600 | pCi/g | 0.00600 | 0.05200 | 50/116 |
| Total Uranium | 5.97000 | pCi/g | 0.12000 | | 2750 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.02400 | pCi/g | 0.00500 | 0.16700 | 76 |
| Dibenz(a,h)anthracene | 700.00000 | ug/Kg | 560.00000 | | 3490 |
| Plutonium-239/240 | 0.04700 | pCi/g | 0.01000 | 0.05200 | 50/116 |
| Uranium 233/234 | 1.20000 | pCi/g | 0.08000 | 2.25300 | 8 |
| Uranium-235 | 0.06800 | pCi/g | 0.05000 | 0.09390 | 8 |
| Uranium 238 | 3.00000 | pCi/g | 0.04000 | | 2 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.05128 | pCi/g | 0.00771 | 0.05200 | 50/116 |
| Americium-241 | 0.02034 | pCi/g | 0.00532 | 0.16700 | 76 |
| Uranium-234 | 1.47700 | pCi/g | 0.13500 | 1.67500 | 300 |
| Uranium-238 | 2.68300 | pCi/g | 0.11000 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.02800 | pCi/g | 0.00600 | 0.05200 | 50/116 |
| Total Uranium | 10.82000 | pCi/g | 0.12000 | | 2750 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Uranium-238 | 4.24700 | pCi/g | 0.07120 | 2.00000 | 351 |
| Americium-241 | 0.05591 | pCi/g | 0.00789 | 0.16700 | 76 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.00484 | pCi/g | 0.00328 | 0.05200 | 50/116 |
| Uranium-234 | 1.52500 | pCi/g | 0.10600 | 1.67500 | 300 |
| Uranium-238 | 1.65100 | pCi/g | 0.10100 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Total Uranium | 1.30000 | pCi/g | 0.00600 | | 2750 |
| Plutonium-239/240 | 0.02800 | pCi/g | 0.00500 | 0.05200 | 50/116 |
| Plutonium-239/240 | 0.03200 | pCi/g | 0.00300 | 0.05200 | 50/116 |
| Total Uranium | 1.10000 | pCi/g | 0.00600 | | 2750 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.02368 | pCi/g | 0.00749 | 0.16700 | 76 |
| Plutonium-239/240 | 0.19180 | pCi/g | 0.02170 | 0.05200 | 50/116 |
| Americium-241 | 0.02017 | pCi/g | 0.00483 | 0.16700 | 76 |
| Uranium-234 | 1.63900 | pCi/g | 0.12100 | 1.67500 | 300 |
| Uranium-238 | 2.63500 | pCi/g | 0.12600 | 2.00000 | 351 |
| Plutonium-239/240 | 0.06047 | pCi/g | 0.01310 | 0.05200 | 50/116 |
| Uranium-234 | 1.64500 | pCi/g | 0.09910 | 1.67500 | 300 |
| Uranium-238 | 3.13800 | pCi/g | 0.07990 | 2.00000 | 351 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Americium-241 | 0.03255 | pCi/g | 0.00518 | 0.16700 | 76 |
| Americium-241 | 0.03449 | pCi/g | 0.00333 | 0.16700 | 76 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Total Uranium | 1.70000 | pCi/g | 0.00600 | | 2750 |
| Plutonium-239/240 | 0.03900 | pCi/g | 0.00400 | 0.05200 | 50/116 |
| Total Uranium | 1.50000 | pCi/g | 0.00600 | | 2750 |
| Plutonium-239/240 | 0.02800 | pCi/g | 0.00300 | 0.05200 | 50/116 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Total Uranium | 1.10000 | pCi/g | 0.00600 | | 2750 |
| Plutonium-239/240 | 0.03000 | pCi/g | 0.00300 | 0.05200 | 50/116 |

| Analytenam | Result | Resultunit | Detectionl | Bkg_2sd | Wrw_al |
|---|---|---|---|---|---|
| Plutonium-239/240 | 0.07495 | pCi/g | 0.01110 | 0.05200 | 50/116 |
| Americium-241 | 0.02476 | pCi/g | 0.00724 | 0.16700 | 76 |
| Uranium-234 | 1.32300 | pCi/g | 0.09840 | 1.67500 | 300 |
| Uranium-238 | 3.08400 | pCi/g | 0.07930 | 2.00000 | 351 |

## Key

- Building
- UBC
- Stream, ditch, or other drainage
- Dirt road
- Paved area
- IHSS
- PAC
- Surface soil sampling location greater than background means plus two standard deviations or MDLs
- ○ Sampling location

N

50 0 50 100 Feet

Scale = 1:2,500

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

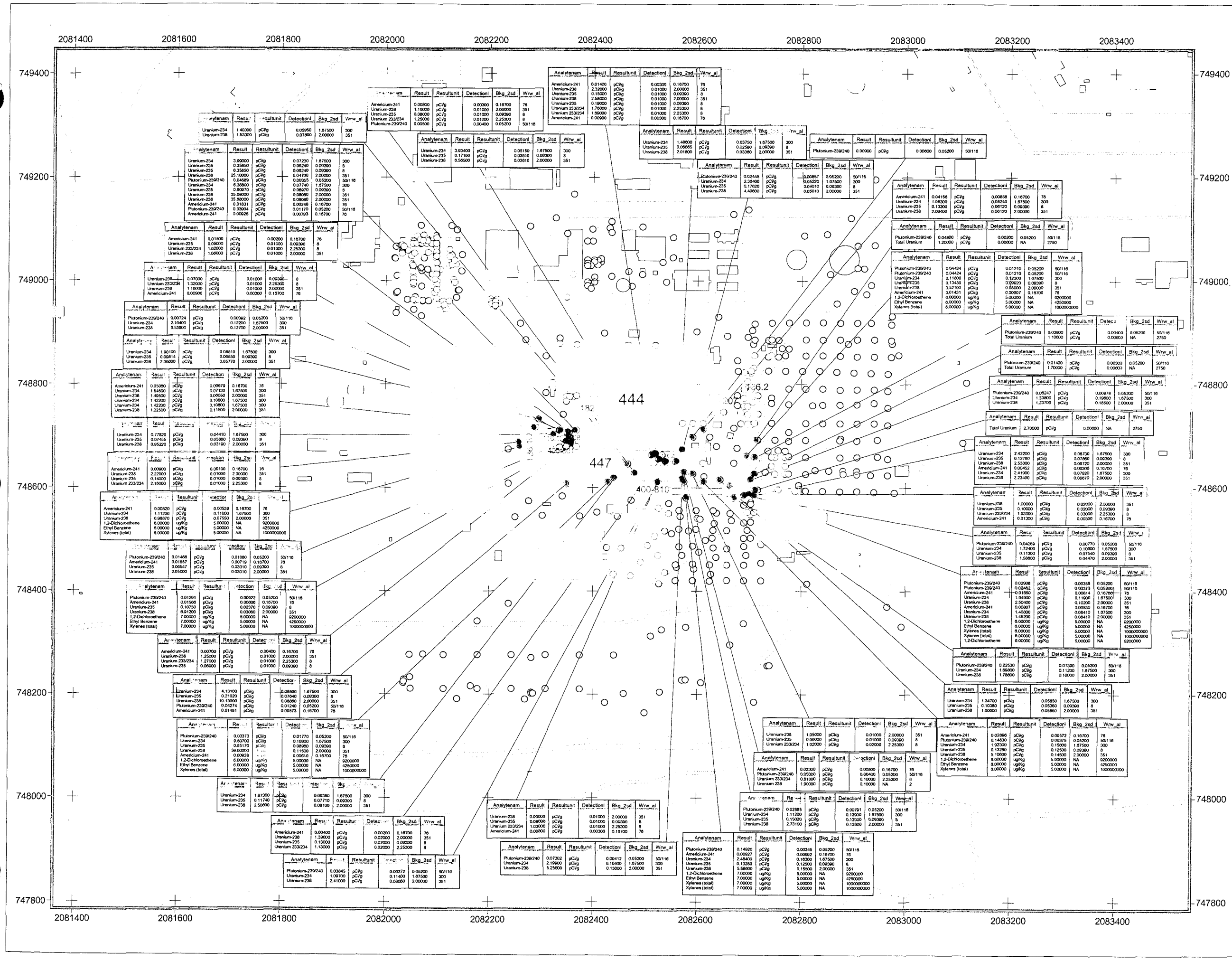
Prepared by: KAISER-HILL COMPANY

Prepared for: KAISER-HILL COMPANY

400-3existing.apr February 2003

# Figure 3

## Existing Preaccelerated Action Surface Soil Sample Results Greater Than Background Means Plus Two Standard Deviations or Detection Limits (Southern Area)




### Key

- Building
- UBC Site
- Stream, ditch, or other drainage
- Dirt road
- Paved area
- IHSS
- PAC
- Surface soil sampling location with results greater than background means plus two standard deviations or MDLs
- Sampling location

N

50 0 50 100 Feet

Scale = 1:3,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

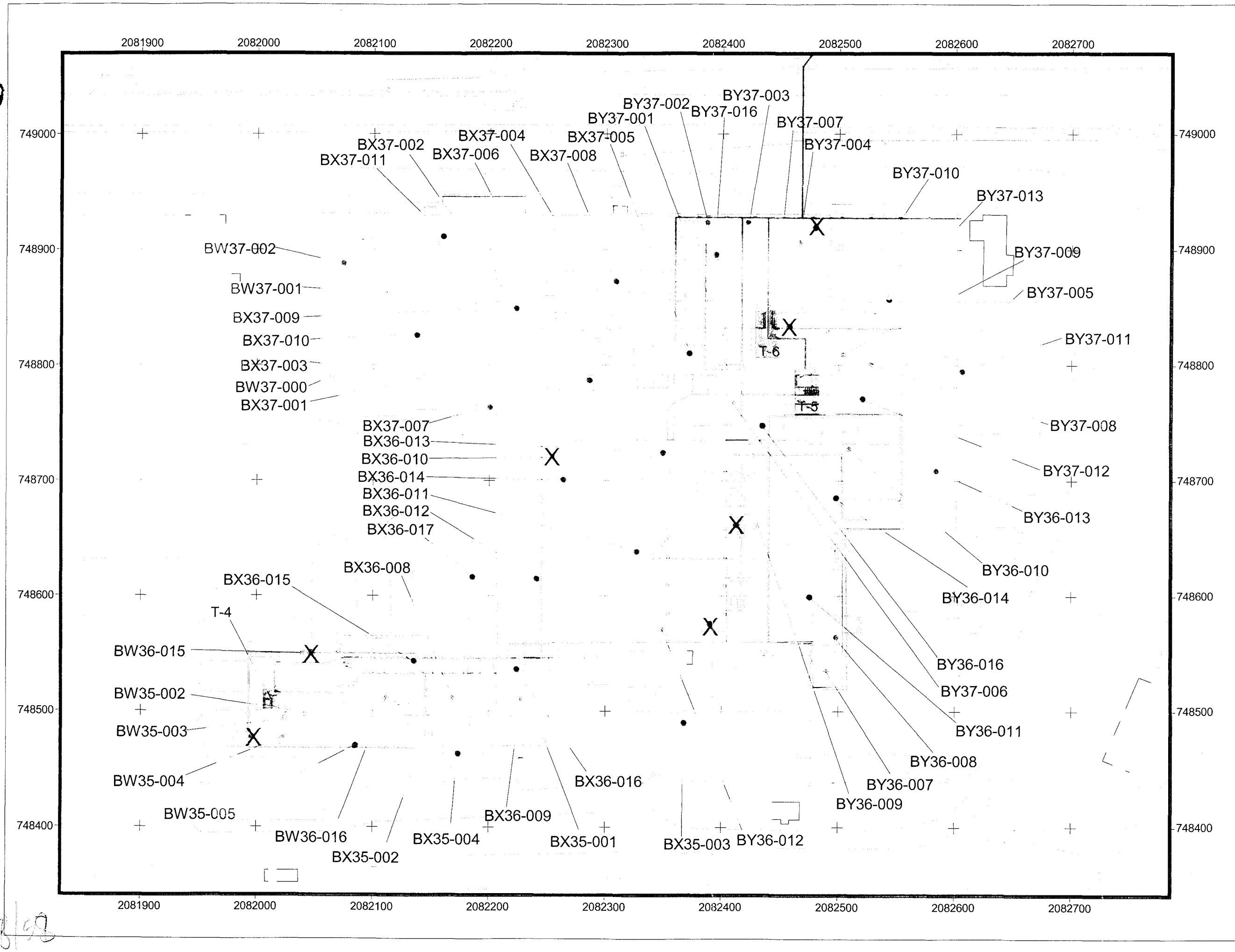
Prepared by:

RADMS

Prepared for:

KAISER HILL COMPANY

400-3existing.apr February 2003




# Figure 5

IHSS Group 400-3
Proposed Sampling Locations
for UBC Sites

## Key

- Paved area
- Dirt road
- Stream, ditch, or other drainage
- Foundation drain
- OPWL pipe
- OPWL tank
- Building
- UBC site
- IHSS
- PAC
- Statistical sampling location
- Biased sampling location

Note:
X = Statistical sample that has been replaced by a biased sample

20 0 20 40 60 Feet

Scale = 1:750

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: RADMS

Prepared for: KAISER HILL COMPANY

400-3characterization02-03mr.apr March 2003

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