

**Industrial Area  
Sampling and Analysis Plan  
Fiscal Year 2002  
Addendum #IA-02-03**

**March 2002**

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## ACRONYMS

Am	americium
As	arsenic
Ba	barium
Co	cobalt
Cr	chromium
Cu	copper
Fe	iron
FY	Fiscal Year
Hg	mercury
HPGe	high-purity germanium
HRR	Historical Release Report
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
Li	lithium
Mg	magnesium
mg/kg	milligrams per kilograms
Mn	manganese
Ni	nickel
NO <sub>2</sub>	nitrite
NO <sub>3</sub>	nitrate
OPWL	Original Process Waste Lines
PAC	Potential Area of Concern
Pb	lead
pCi/g	picocuries per gram
PCOC	potential contaminant of concern
Pu	plutonium
SAP	Sampling and Analysis Plan
Sr	strontium
SVOC	semivolatile organic compound
U	uranium
UBC	Under Building Contamination
µg/kg	micrograms per kilogram
V	vanadium
VOC	volatile organic compound
Zn	zinc

## 1.0 INTRODUCTION

This Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001a) Addendum #IA-02-03 includes Individual Hazardous Substance Sites (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 during Fiscal Year (FY)02. This IASAP Addendum is a supplement to the IASAP (DOE 2001a). The location of the IHSS Groups and IHSSs, PACs, and UBC sites proposed for FY02 are shown on Figure 1.

This IASAP Addendum includes data and proposed sampling locations for the IHSS Groups and associated IHSSs, PACs, and UBC Sites listed in Table 1.

**Table 1**  
**Addenda #IA-02-03 IHSS Groups**

IHSS Group	IHSS/PAC/UBC Site
800-4	UBC 886 – Critical Mass Laboratory
	800-164.2 – Radioactive Site #2 800 Area Building 886 Spill
	000-121 – Original Process Waste Lines (OPWL) 250-Gallon Sump (Building 828)
	000-121 – OPWL Two 250-Gallon Steel Tanks (Building 828)
	000-121 – OPWL 500-Gallon Steel Tanks (Building 828)
	000-121 – OPWL

## 2.0 EXISTING CHARACTERIZATION INFORMATION

Existing data for the IHSSs, PACs, and UBC Sites are available in Appendix C to the IASAP (DOE 2001a). Existing concentrations and activities above the background mean plus two standard deviations or method detection limits are shown on maps in Section 4.0, where available. Table 2 presents the potential contaminants of concern (PCOCs).

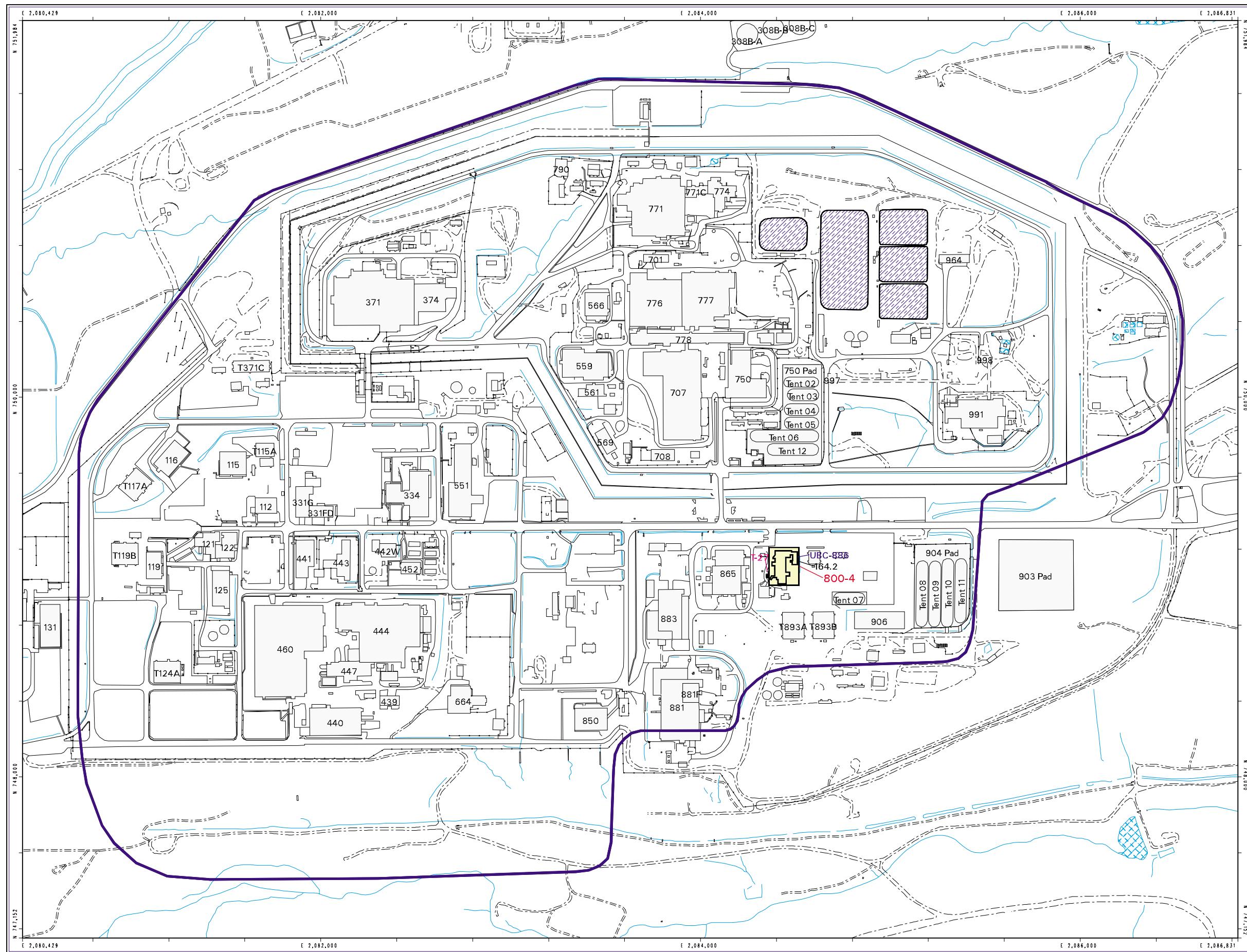
## 3.0 SAMPLING

The proposed sampling specifications (number and type of samples) for each IHSS, PAC, and UBC site are listed in Table 3. 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 geostatistical analysis was used where possible.

Where a new sampling location overlaps or is adjacent to an existing sampling location, the existing sampling location data will be used during evaluation.

**Figure 1**  
IA Group Location Map



**DRAFT**

January 29, 2002

## **4.0 MAPS**

Maps in this section are organized by IHSS Group and IHSS. All existing sampling locations and existing data, where available, are presented, followed by the proposed new sampling locations.

## **5.0 REFERENCES**

DOE, 1992 – 2001, Historical Release Report for the Rocky Flats Plant, Golden, Colorado.

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

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

DOE, 2001b, Final Data Summary Report for the Characterization of UBC's 123 and 886, Rocky Flats Environmental Technology Site, Golden, Colorado, August.

**Table 2**  
**Potential Contaminants of Concern**

IA Group	IHSS/PAC/UBC Site	PCOCs	Media	Data Source	Sampling Location Method
800-4	UBC 886 – Critical Mass Laboratory	Radionuclides (Am-241, Pu-239/240, U-234, U-235, U-238) Metals (Cu, Hg, Mg, Sr, Zn) VOCs	Surface and Subsurface Soil Subsurface Soil	Data Summary Report for the Characterization of UBC's 123 and 886 (DOE 2001b) Historical Release Report (HRR) (DOE 1992 - 2001) IA Data Summary Report (DOE 2000)	Statistical Grid
	800-164.2 – Radioactive Site #2 800 Area Building 886 Spill	Radionuclides (Am-241, Pu-239/240, U -235) Metals (As, Ba, Co Cu, Fe, Hg, Li, Mg, Mn, Ni, Sr, Zn) SVOCs (bis, 2-ethylhexyl-phthalate, fluoranthene, pyrene) VOCs (1,2-dichloroethene, methylene chloride, Bis(2-ethylhexyl)phthalate trichloroethene)	Subsurface Soil Surface and Subsurface Soil Subsurface Soil	IA Data Summary Report Data Summary Report for the Characterization of UBC's 123 and 886 (DOE 2001b)	Statistical Grid
	000-121 – OPWL 250-Gallon Sump	Radionuclides	Subsurface Soil	HRR	Biased locations below and near sump
	000-121 – OPWL Two 250-Gallon Steel Tanks	Radionuclides (Am-241, Pu-239/240, U and Ra-226) Metals (Ba, Co, Fe, Mn) Nitrite (NO <sub>2</sub> ) , Nitrate (NO <sub>3</sub> )	Subsurface Soil	HRR IA Data Summary Report	Biased locations below and near tank
	000-121 – OPWL 500-Gallon Steel Tanks	Radionuclides (Am-241, Pu-239/240, U and Ra-226) Metals (Ba, Co, Fe, Mn) NO <sub>2</sub> , NO <sub>3</sub>	Subsurface Soil	HRR IA Data Summary Report	Biased location near tank

Am	americium	NO <sub>3</sub>	nitrate
As	arsenic	NO <sub>2</sub>	nitrite
Ba	barium	Pb	lead
Co	cobalt	PCOC	potential contaminant of concern
Cr	chromium	Pu	plutonium
Cu	copper	Sr	strontium
Fe	iron	SVOC	semi-volatile organic compound
Hg	mercury	U	uranium
Li	lithium	V	vanadium
Mg	magnesium	VOC	volatile organic compound
Mn	manganese	Zn	zinc
Ni	nickel		

**Table 3**  
**Sampling Specifications**

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	OnSite Method	OffSite Laboratory Method
800-4	UBC 886 – Critical Mass Laboratory								
		CI39-A002	2084399.81	749181.76	Surface Soil	0'-.5'	Radionuclides	High-Purity Germanium (HPGe)	Alpha Spec
		CI39-A002	2084399.81	749181.76	Surface Soil	0'-.5'	Metals	6200	6010
		CI39-B002	2084399.81	749181.76	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI39-B002	2084399.81	749181.76	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI39-B002	2084399.81	749181.76	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A002	2084382.00	749150.08	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A002	2084382.00	749150.08	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B002	2084382.00	749150.08	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B002	2084382.00	749150.08	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B002	2084382.00	749150.08	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A005	2084400.00	749118.90	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A005	2084400.00	749118.90	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B005	2084400.00	749118.90	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B005	2084400.00	749118.90	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B005	2084400.00	749118.90	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A006	2084418.00	749150.08	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A006	2084418.00	749150.08	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B006	2084418.00	749150.08	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B006	2084418.00	749150.08	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B006	2084418.00	749150.08	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI39-A003	2084436.00	749181.26	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI39-A003	2084436.00	749181.26	Surface Soil	0'-.5'	Metals	6200	6010
		CI39-B003	2084436.00	749181.26	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI39-B003	2084436.00	749181.26	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI39-B003	2084436.00	749181.26	Subsurface Soil	.5'-2.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	OnSite Method	OffSite Laboratory Method
		CI38-A008	2084400.00	749056.55	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A008	2084400.00	749056.55	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B008	2084400.00	749056.55	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B008	2084400.00	749056.55	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B008	2084400.00	749056.55	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A009	2084418.00	749087.73	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A009	2084418.00	749087.73	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B009	2084418.00	749087.73	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B009	2084418.00	749087.73	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B009	2084418.00	749087.73	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A010	2084436.00	749118.90	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A010	2084436.00	749118.90	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B010	2084436.00	749118.90	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B010	2084436.00	749118.90	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B010	2084436.00	749118.90	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI39-A004	2084472.00	749181.26	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI39-A004	2084472.00	749181.26	Surface Soil	0'-.5'	Metals	6200	6010
		CI39-B004	2084472.00	749181.26	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI39-B004	2084472.00	749181.26	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI39-B004	2084472.00	749181.26	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A012	2084418.00	749025.37	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A012	2084418.00	749025.37	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B012	2084418.00	749025.37	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B012	2084418.00	749025.37	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B012	2084418.00	749025.37	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A013	2084436.00	749056.55	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A013	2084436.00	749056.55	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B013	2084436.00	749056.55	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B013	2084436.00	749056.55	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B013	2084436.00	749056.55	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A016	2084490.00	749150.08	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	OnSite Method	OffSite Laboratory Method
Room 101		CI38-A016	2084490.00	749150.08	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B016	2084490.00	749150.08	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B016	2084490.00	749150.08	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B016	2084490.00	749150.08	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI39-A005	2084508.00	749181.26	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI39-A005	2084508.00	749181.26	Surface Soil	0'-.5'	Metals	6200	6010
		CI39-B005	2084508.00	749181.26	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI39-B005	2084508.00	749181.26	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI39-B005	2084508.00	749181.26	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A020	2084508.00	749118.90	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A020	2084508.00	749118.90	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B020	2084508.00	749118.90	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B020	2084508.00	749118.90	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B020	2084508.00	749118.90	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A034	2084411.63	749049.31	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A035	2084412.66	749049.31	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A036	2084420.71	749032.54	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A037	2084422.38	749041.43	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A038	2084432.66	749036.70	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
800-164.2 – Radioactive Site #2 800 Area Building 886 Spill									
		CI39-A001	2084364.00	749181.26	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI39-A001	2084364.00	749181.26	Surface Soil	0'-.5'	Metals	6200	6010
		CI39-B001	2084364.00	749181.26	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI39-B001	2084364.00	749181.26	Subsurface Soil	.5'-2.5'	SVOCs	N/A	8270
		CI39-B001	2084364.00	749181.26	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI39-B001	2084364.00	749181.26	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A001	2084364.00	749118.90	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A001	2084364.00	749118.90	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B001	2084364.00	749118.90	Subsurface Soil	.5'-2.5'	VOCs	8260	8260

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	OnSite Method	OffSite Laboratory Method
		CI38-B001	2084364.00	749118.90	Subsurface Soil	.5'-2.5'	SVOCs	N/A	8270
		CI38-B001	2084364.00	749118.90	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B001	2084364.00	749118.90	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A003	2084364.00	749056.55	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A003	2084364.00	749056.55	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B003	2084364.00	749056.55	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B003	2084364.00	749056.55	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B003	2084364.00	749056.55	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A004	2084382.00	749087.73	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A004	2084382.00	749087.73	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B004	2084382.00	749087.73	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B004	2084382.00	749087.73	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B004	2084382.00	749087.73	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A007	2084382.00	749025.37	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A007	2084382.00	749025.37	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B007	2084382.00	749025.37	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B007	2084382.00	749025.37	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B007	2084382.00	749025.37	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A011	2084454.00	749150.08	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A011	2084454.00	749150.08	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B011	2084454.00	749150.08	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B011	2084454.00	749150.08	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B011	2084454.00	749150.08	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A014	2084454.00	749087.73	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A014	2084454.00	749087.73	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B014	2084454.00	749087.73	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B014	2084454.00	749087.73	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B014	2084454.00	749087.73	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A015	2084472.00	749118.90	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A015	2084472.00	749118.90	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B015	2084472.00	749118.90	Subsurface Soil	.5'-2.5'	VOCs	8260	8260

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	OnSite Method	OffSite Laboratory Method
		CI38-B015	2084472.00	749118.90	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B015	2084472.00	749118.90	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A017	2084454.00	749025.37	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A017	2084454.00	749025.37	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B017	2084454.00	749025.37	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B017	2084454.00	749025.37	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B017	2084454.00	749025.37	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A018	2084472.00	749056.55	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A018	2084472.00	749056.55	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B018	2084472.00	749056.55	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B018	2084472.00	749056.55	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B018	2084472.00	749056.55	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A019	2084490.00	749087.73	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A019	2084490.00	749087.73	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B019	2084490.00	749087.73	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B019	2084490.00	749087.73	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B019	2084490.00	749087.73	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A021	2084490.00	749025.37	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A021	2084490.00	749025.37	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B021	2084490.00	749025.37	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B021	2084490.00	749025.37	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B021	2084490.00	749025.37	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-A022	2084508.00	749056.55	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A022	2084508.00	749056.55	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-B022	2084508.00	749056.55	Subsurface Soil	.5'-2.5'	VOCs	8260	8260
		CI38-B022	2084508.00	749056.55	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B022	2084508.00	749056.55	Subsurface Soil	.5'-2.5'	Metals	6200	6010
OPWL		CI38-F024	2084379.86	749106.67	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F024	2084379.86	749106.67	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CI38-F024	2084379.86	749106.67	Subsurface Soil	8.5'-10.5'	SVOCs	N/A	8270
		CI38-F024	2084379.86	749106.67	Subsurface Soil	8.5'-10.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	OnSite Method	OffSite Laboratory Method
Foundation Drain		CI38-F025	2084362.06	749063.79	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F025	2084362.06	749063.79	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CI38-F025	2084362.06	749063.79	Subsurface Soil	8.5'-10.5'	SVOCs	N/A	8270
		CI38-F025	2084362.06	749063.79	Subsurface Soil	8.5'-10.5'	Metals	6200	6010
		CI38-F026	2084385.57	749062.59	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F026	2084385.57	749062.59	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CI38-F026	2084385.57	749062.59	Subsurface Soil	8.5'-10.5'	SVOCs	N/A	8270
		CI38-F026	2084385.57	749062.59	Subsurface Soil	8.5'-10.5'	Metals	6200	6010
		CI38-F028	2084381.50	749041.33	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F028	2084381.50	749041.33	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CI38-F028	2084381.50	749041.33	Subsurface Soil	8.5'-10.5'	SVOCs	N/A	8270
		CI38-F028	2084381.50	749041.33	Subsurface Soil	8.5'-10.5'	Metals	6200	6010
		CI38-F029	2084406.83	749040.29	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F029	2084406.83	749040.29	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CI38-F029	2084406.83	749040.29	Subsurface Soil	8.5'-10.5'	SVOCs	N/A	8270
		CI38-F029	2084406.83	749040.29	Subsurface Soil	8.5'-10.5'	Metals	6200	6010
		CI38-F030	2084360.16	749106.15	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F030	2084360.16	749106.15	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CI38-F030	2084360.16	749106.15	Subsurface Soil	8.5'-10.5'	SVOCs	N/A	8270
		CI38-F030	2084360.16	749106.15	Subsurface Soil	8.5'-10.5'	Metals	6200	6010
		CI38-F033	2084378.90	749053.17	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F033	2084378.90	749053.17	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CI38-F033	2084378.90	749053.17	Subsurface Soil	8.5'-10.5'	SVOCs	N/A	8270
		CI38-F033	2084378.90	749053.17	Subsurface Soil	8.5'-10.5'	Metals	6200	6010
		CI38-F027	2084381.50	749041.35	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F027	2084381.50	749041.35	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CI38-F027	2084381.50	749041.35	Subsurface Soil	8.5'-10.5'	SVOCs	N/A	8270
		CI38-F027	2084381.50	749041.35	Subsurface Soil	8.5'-10.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	OnSite Method	OffSite Laboratory Method
	000-121– OPWL 250-Gallon Sump, OPWL Two 250-Gallon Steel Tanks, and one 500-Gallon Steel Tank								
		CI38-A023	2084359.12	749044.96	Surface Soil	0'-.5'	Metals	6200	6010
		CI38-A023	2084359.12	749044.96	Surface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A023	2084359.12	749044.96	Surface Soil	0'-.5'	Nitrate/Nitrite	9056	
		CI38-B023	2084359.12	749044.96	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B023	2084359.12	749044.96	Subsurface Soil	.5'-2.5'	Nitrate/Nitrite		
		CI38-B023	2084359.12	749044.96	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-C023	2084359.12	749044.96	Subsurface Soil	2.5'-4.5'	Radionuclides	HPGe	Alpha Spec
		CI38-C023	2084359.12	749044.96	Subsurface Soil	2.5'-4.5'	Nitrate/Nitrite		
		CI38-C023	2084359.12	749044.96	Subsurface Soil	2.5'-4.5'	Metals	6200	6010
		CI38-D023	2084359.12	749044.96	Subsurface Soil	4.5'-6.5'	Radionuclides	HPGe	Alpha Spec
		CI38-D023	2084359.12	749044.96	Subsurface Soil	4.5'-6.5'	Nitrate/Nitrite		
		CI38-D023	2084359.12	749044.96	Subsurface Soil	4.5'-6.5'	Metals	6200	6010
		CI38-E023	2084359.12	749044.96	Subsurface Soil	6.5'-8.5'	Radionuclides	HPGe	Alpha Spec
		CI38-E023	2084359.12	749044.96	Subsurface Soil	6.5'-8.5'	Nitrate/Nitrite		
		CI38-E023	2084359.12	749044.96	Subsurface Soil	6.5'-8.5'	Metals	6200	6010
		CI38-F023	2084359.12	749044.96	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F023	2084359.12	749044.96	Subsurface Soil	8.5'-10.5'	Nitrate/Nitrite		
		CI38-F023	2084359.12	749044.96	Subsurface Soil	8.5'-10.5'	Metals	6200	6010
		CI38-A031	2084358.76	749053.52	Subsurface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A031	2084358.76	749053.52	Subsurface Soil	0'-.5'	Nitrate/Nitrite		
		CI38-A031	2084358.76	749053.52	Subsurface Soil	0'-.5'	Metals	6200	6010
		CI38-B031	2084358.76	749053.52	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B031	2084358.76	749053.52	Subsurface Soil	.5'-2.5'	Nitrate/Nitrite		
		CI38-B031	2084358.76	749053.52	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-C031	2084358.76	749053.52	Subsurface Soil	2.5'-4.5'	Radionuclides	HPGe	Alpha Spec
		CI38-C031	2084358.76	749053.52	Subsurface Soil	2.5'-4.5'	Nitrate/Nitrite		
		CI38-C031	2084358.76	749053.52	Subsurface Soil	2.5'-4.5'	Metals	6200	6010

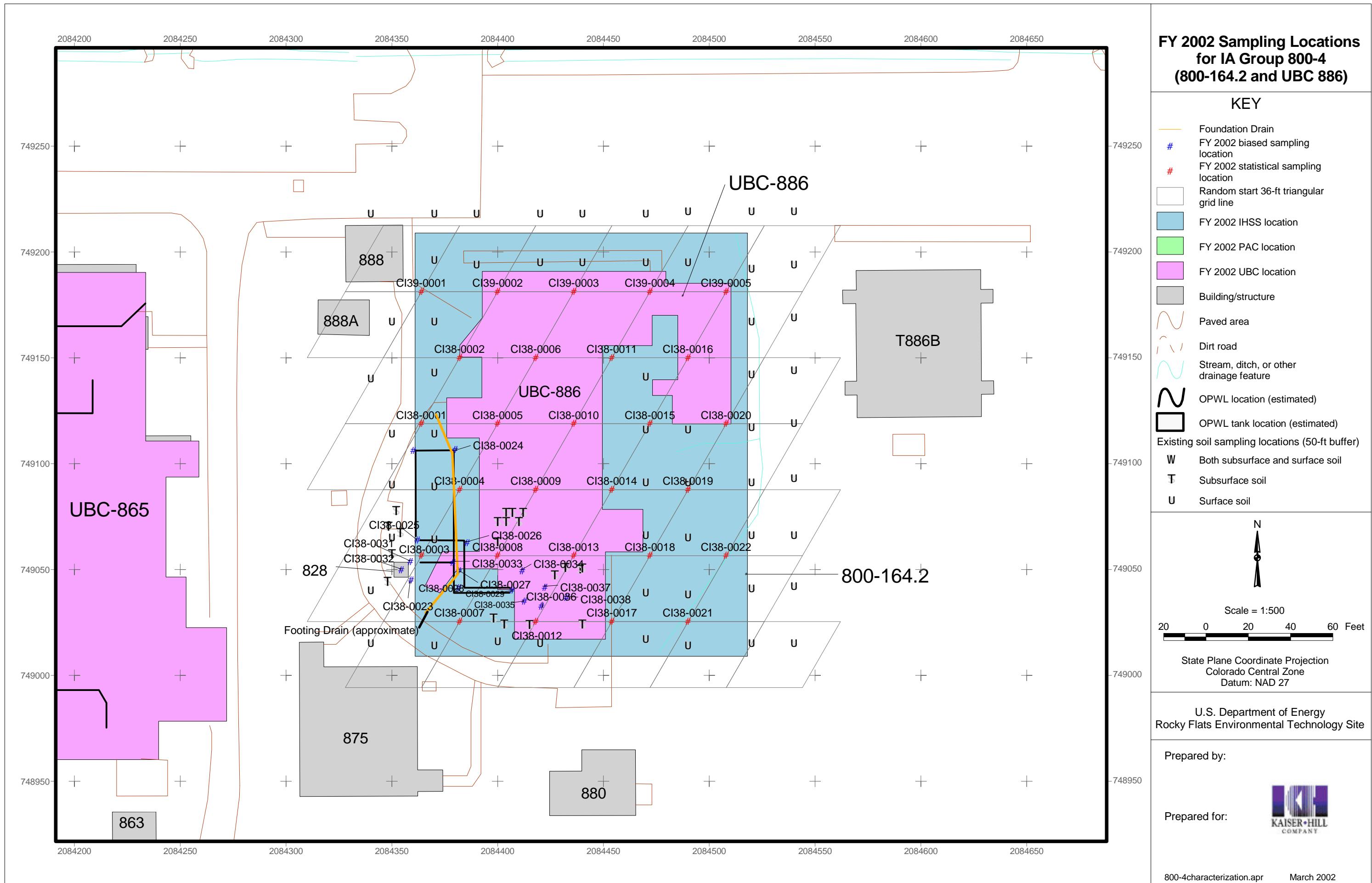
IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	OnSite Method	OffSite Laboratory Method
		CI38-D031	2084358.76	749053.52	Subsurface Soil	4.5'-6.5'	Radionuclides	HPGe	Alpha Spec
		CI38-D031	2084358.76	749053.52	Subsurface Soil	4.5'-6.5'	Nitrate/Nitrite		
		CI38-D031	2084358.76	749053.52	Subsurface Soil	4.5'-6.5'	Metals	6200	6010
		CI38-E031	2084358.76	749053.52	Subsurface Soil	6.5'-8.5'	Radionuclides	HPGe	Alpha Spec
		CI38-E031	2084358.76	749053.52	Subsurface Soil	6.5'-8.5'	Nitrate/Nitrite		
		CI38-E031	2084358.76	749053.52	Subsurface Soil	6.5'-8.5'	Metals	6200	6010
		CI38-F031	2084358.76	749053.52	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F031	2084358.76	749053.52	Subsurface Soil	8.5'-10.5'	Nitrate/Nitrite		
		CI38-F031	2084358.76	749053.52	Subsurface Soil	8.5'-10.5'	Metals	6200	6010
		CI38-A032	2084354.52	749049.72	Subsurface Soil	0'-.5'	Radionuclides	HPGe	Alpha Spec
		CI38-A032	2084354.52	749049.72	Subsurface Soil	0'-.5'	Nitrate/Nitrite		
		CI38-A032	2084354.52	749049.72	Subsurface Soil	0'-.5'	Metals	6200	6010
		CI38-B032	2084354.52	749049.72	Subsurface Soil	.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CI38-B032	2084354.52	749049.72	Subsurface Soil	.5'-2.5'	Nitrate/Nitrite		
		CI38-B032	2084354.52	749049.72	Subsurface Soil	.5'-2.5'	Metals	6200	6010
		CI38-C032	2084354.52	749049.72	Subsurface Soil	2.5'-4.5'	Radionuclides	HPGe	Alpha Spec
		CI38-C032	2084354.52	749049.72	Subsurface Soil	2.5'-4.5'	Nitrate/Nitrite		
		CI38-C032	2084354.52	749049.72	Subsurface Soil	2.5'-4.5'	Metals	6200	6010
		CI38-D032	2084354.52	749049.72	Subsurface Soil	4.5'-6.5'	Radionuclides	HPGe	Alpha Spec
		CI38-D032	2084354.52	749049.72	Subsurface Soil	4.5'-6.5'	Nitrate/Nitrite		
		CI38-D032	2084354.52	749049.72	Subsurface Soil	4.5'-6.5'	Metals	6200	6010
		CI38-E032	2084354.52	749049.72	Subsurface Soil	6.5'-8.5'	Radionuclides	HPGe	Alpha Spec
		CI38-E032	2084354.52	749049.72	Subsurface Soil	6.5'-8.5'	Nitrate/Nitrite		
		CI38-E032	2084354.52	749049.72	Subsurface Soil	6.5'-8.5'	Metals	6200	6010
		CI38-F032	2084354.52	749049.72	Subsurface Soil	8.5'-10.5'	Radionuclides	HPGe	Alpha Spec
		CI38-F032	2084354.52	749049.72	Subsurface Soil	8.5'-10.5'	Nitrate/Nitrite		
		CI38-F032	2084354.52	749049.72	Subsurface Soil	8.5'-10.5'	Metals	6200	6010

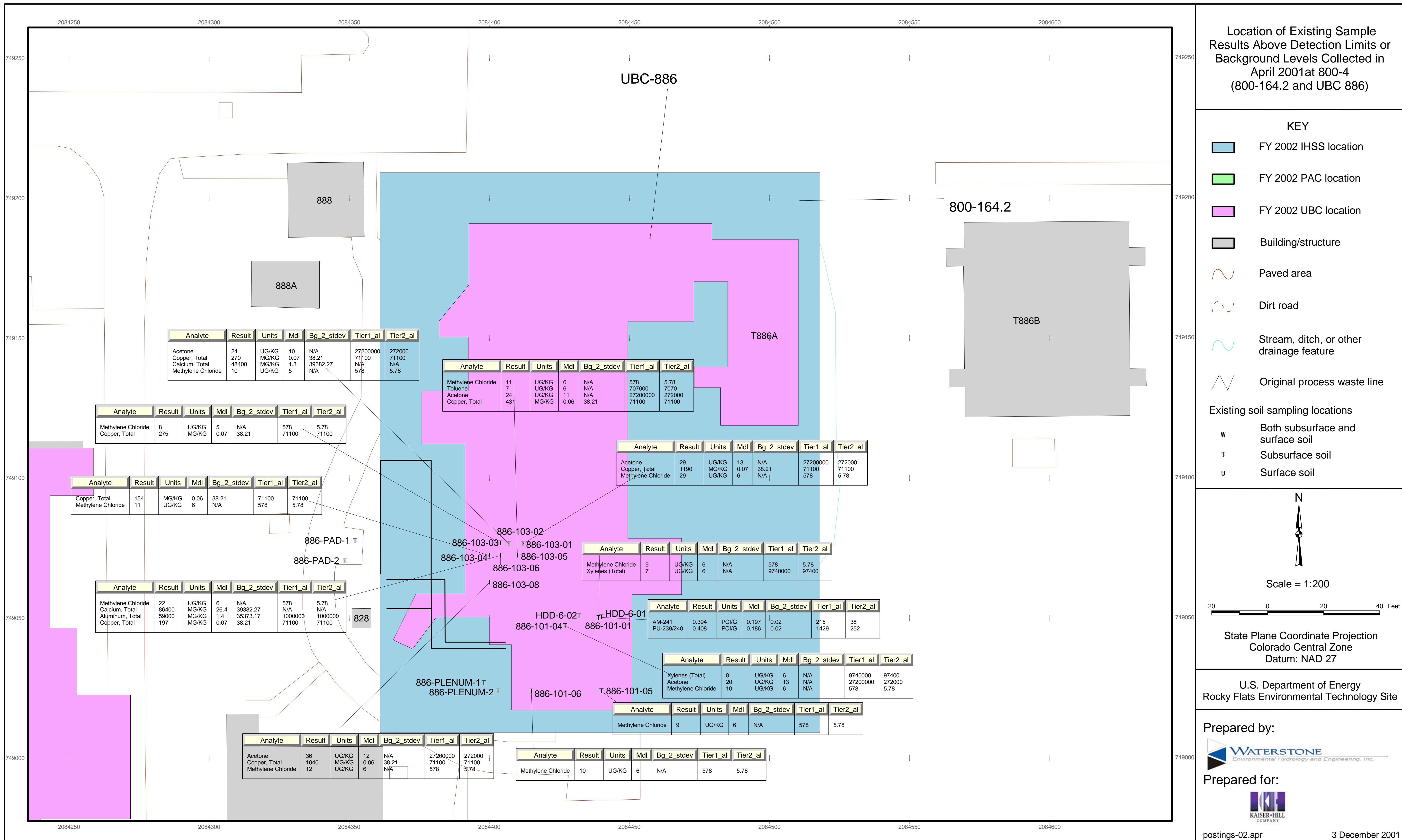
### **IHSS Group 800-4 Maps**

Location of Existing Sample Results Above Detection Limits or Background Levels  
Collected at UBC 886 (IHSS Group 800-4) in April 2001

Location of Existing Sample Results Above Detection Limits or Background Levels for  
IHSS Group 800-4 (UBC 886, 000-121, and 800-164.2)

FY2002 Sampling Locations for IHSS Group 800-4





**Location of Existing Sample Results Above Detection Limits or Background Levels at 800-4 (800-164.2 and UBC 886)**

**KEY**

FY 2002 IHSS location

FY 2002 PAC location

FY 2002 UBC location

Building/structure

Paved area

Dirt road

Stream, ditch, or other drainage feature

Original process waste line

**Existing soil sampling locations**

Both subsurface and surface soil

Subsurface soil

Surface soil

N

Scale = 1:300

30 0 30 60  
Feet

State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD 27

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

Prepared by:



Prepared for:



postings-02.apr

3 December 2001

