NOTICE

All drawings located at the end of the document.

KAISER•HILL
COMPANY

Data Summary Report
IHSS Group NE/NW

Environmental Restoration
Rocky Flats Environmental Technology Site

August 2003

AUG 2003
RECEIVED
RECORDS CENTER

DOCU CLASSIFICATION
CL WAIVER PER
TION OFFICE

CEX-105-01

1/108

ADMIN RECORD
BZ-A-000621

Data Summary Report
IHSS Group NE/NW

Approval letter received from the Colorado Department of Public Health and Environment

( )

Approval letter contained in the Administrative Record

August 2003

2

TABLE OF CONTENTS

JULY 2003 . . II
1 0 INTRODUCTION . 1
2 0 SITE CHARACTERIZATION . 1
3 0 DEVIATIONS FROM PLANNED SAMPLING SPECIFICATIONS 87
4 0 DATA QUALITY ASSESSMENT 88
4 1 1 Data Quality Assessment Process . . 88
4 1.2 Verification and Validation of Results 89
4 1 3 Accuracy . 89
4 1 4 Precision . 95
4 1 5 Sensitivity 100
4 1 6 Summary of Data Quality . . 100
5 0 REFERENCES 102

LIST OF FIGURES

Figure 1 IHSS Group NE/NW Location Map . 3
Figure 2 Surface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits – Trench Area 4
Figure 3 Subsurface Sampling Locations Above Background Means Plus Two Standard Deviations or Reporting/Detection Limits – Trench Area 5
Figure 4 Surface Sampling Locations Above Background Means Plus Two Standard Deviations or Reporting/Detection Limits – Sprayfields Area 6
Figure 5 Subsurface Sampling Locations Above Background Means Plus Two Standard Deviations or Reporting/Detection Limits – Sprayfields Area . 7
Figure 6 Surface and Subsurface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits – Northwest Area 8
Figure 7 Areas Prone to Landslides and High Erosion 9

3

LIST OF TABLES

Table 1 IHSS Group NE/NW Description . . . 1
Table 2 IHSS Group NE/NW Characterization Sampling Specifications 10
Table 3 Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs 34
Table 4 Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs 50
Table 5 IHSS Group NE/NW Surface Soil Summary of Analytical Results with RFCA Action Levels 79
Table 6 IHSS Group NE/NW Subsurface Soil Summary of Analytical Results with RFCA Action Levels 81
Table 7 Radionuclides Sum of Ratios for Surface Soil 83
Table 8 Radionuclides Sum of Ratios for Subsurface Soil 83
Table 9 IHSS Group NE/NW Deviations From Planned Sampling Specifications 87
Table 10 Laboratory Control Sample Evaluation . 91
Table 11 Surrogate Recovery Summary 93
Table 12 Sample Matrix Spike Evaluation 93
Table 13 Sample Matrix Spike Duplicate Evaluation 95
Table 14 Field Duplicate Sample Frequency 97
Table 15 RPD Evaluation . 97
Table 16 Validation and Verification Summary 100
Table 17 DQA Completeness Versus Programmatic Goals . 101

ENCLOSURE

IHSS Group NE/NW Real and Quality Control Data (Compact Disc)

4

ACRONYMS AND ABBREVATIONS

AL	action level
ASD	Analytical Services Division
BZ	Buffer Zone
BZSAP	Buffer Zone Sampling and Analysis Plan
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	Contaminant of Concern
DL	Detection Limit
DOE	U S Department of Energy
DQA	Data Quality Assessment
DQO	Data Quality Objective
EPA	U S Environmental Protection Agency
ER	Ecological Receptor
FY	Fiscal Year
HPGe	high-purity germanium detector
HRR	Historical Release Report
IHSS	Individual Hazardous Substance Site
IM/IRA	Interim Measure/Interim Remedial Action
K-H	Kaiser-Hill Company, L L C
LCS	laboratory control spike
mg/kg	milligrams per kilogram
MS	matrix spike
MSD	matrix spike duplicate
NA	not available
NFAA	No Further Accelerated Action
PAC	Potential Area of Concern
PARCCS	precision, accuracy, representativeness, completeness, comparability, and sensitivity
PCBs	polychlorinated biphenyls
pCi/g	picocuries per gram
ppb	parts per billion
ppm	parts per million
PU&D	Property Utilization and Disposal
QC	Quality Control
RFCA	Rocky Flats Cleanup Agreement
RFETS	Rocky Flats Environmental Technology Site
RIN	Report Identification Number
RL	Reporting Limit
SD	standard deviation
SOP	Standard Operation Procedure
SOR	sum of ratio
SSRS	Subsurface Soil Risk Screen
SVOC	semivolatile organic compound
SWD	Soil Water Database
TBD	to be determined
ug/kg	micrograms per kilogram
VOC	volatile organic compound
V&V	Verification and Validation
WRW	Wildlife Refuge Worker

5

1.0 INTRODUCTION

This Data Summary Report summarizes characterization activities conducted at Individual Hazardous Substance Site (IHSS) Group NE/NW located in the Buffer Zone (BZ) at the Rocky Flats Environmental Technology Site (RFETS) in Golden, Colorado Characterization activities were conducted in accordance with the Buffer Zone Sampling and Analysis Plan (BZSAP) (DOE 2002a) and BZSAP Addendum #BZ-02-01 (DOE 2002b)

The IHSSs and Potential Areas of Concern (PACs) included in this report are listed in Table 1 and shown on Figure 1

Table 1 IHSS Group NE/NW Description

[illegible]	[illegible]
NE	IHSS 216 2 – East Spray Field-Center Area
	IHSS 216 3 – East Spray Field-South Area
	PAC NE-1407 – OU 2 Treatment Facility
	PAC NE-1412 – Trench T-12 (located at OU 2 East Trenches)
	PAC NE-1413 – Trench T-13 (located at OU 2 East Trenches)
NW	IHSS 174a – Property Utilization And Disposal (PU&D) Yard - Drum Storage Area

2.0 SITE CHARACTERIZATION

IHSS Group NE/NW information consists of historical knowledge (DOE 1992-2002) and 55 additional sampling locations as described in BZSAP Addendum #BZ-02-01 (DOE 2002b) The sampling specifications for the characterization samples collected are listed in Table 2 The locations of these samples and associated analytical results with Wildlife Refuge Worker (WRW) action levels (ALs) greater than background mean plus two standard deviations or detection/reporting limits are presented in Figures 2 through 6 and Tables 3 and 4 Figure 7 depicts areas prone to landslides and high erosion A summary of the analytical results is presented in Tables 5 and 6 Surface and subsurface sum of ratios for radionuclides are presented in Tables 7 and 8 Deviations from planned sampling specifications are presented in Table 9 A summary of validated analytical records is presented in Tables 10 through 17 The real and quality control (QC) data are enclosed on a compact disc

When the previous characterization data were compared to the PU&D Yard treatability study, IHSS 174a demonstrated a significant reduction in soil contamination

No Further Accelerated Action (NFAA) for IHSS Group NE/NW is warranted based on surface soils being below action levels and the following Subsurface Soil Risk Screen (SSRS) identified in Figure 3 in Attachment 5 of the RFCA Modification (DOE, et al 2003)

Screen 1 – Are the contaminant of concern (COC) concentrations below RFCA Table 3 WRW Soil Action Levels?

6

Yes, all COC concentrations are below the WRW ALs (Screens 2 and 3 are bypassed). It should be noted that plutonium-239/240 at sample location CW40-003 is 88 pCi/g (see Figure 2) However, this surface sample location is overlapped by IHSS 155 and is likely to be associated with wind-blown contamination from the 903 Pad area As such, it will be addressed as part of IHSS 155

Screen 4 – Is there an environmental pathway and sufficient quantity of COCs that would cause an exceedance of the surface water standard (SWS)?

Contamination migration via erosion and groundwater are the two possible pathways whereby surface water could become contaminated by the East Spray Fields (IHSSs 216 2 and 216 3), Trenches T-12 (PAC NE-1412) and T-13 (PAC NE-1413), and the PU&D Yard (IHSS 174a) Based on the review of Figure 1 of the RFCA Modification Attachment 5 (DOE, et al 2003), IHSS Group NE/NW is not located in an area prone to landslides or high erosion except for a small portion of the southeast corner of IHSS 216 3 (see Figure 7) In addition, the nearest body of water is South Walnut Creek located approximately 800 feet north of IHSS Group NE Based on the distance of the nearest body of water and the majority of the IHSS Group being in an area not prone to landslides or high erosion, it appears unlikely that this IHSS Group would cause an exceedance of the SWS

Groundwater in the area of IHSS Group NE flows in a northeasterly direction and is part of the 903 Pad/East Trenches plume Analytical data from groundwater monitoring wells in this area were reviewed Wells 4286 and 07891 were identified with contaminants above groundwater Tier I ALs The contaminants are carbon tetrachloride, tetrachloroethene, trichloroethene, methylene chloride, dibromo-3-chloropropane 1,2 and plutonium-239/240 These COCs are similar to those compounds detected in the East Sprayfields, however, groundwater at wells 4286 and 07891 would be incapable of being contaminated by the East Sprayfields, since the wells are located significantly west (upgradient) of the East Sprayfields area Groundwater will be addressed seperately as an Interim Measrue/Interim Remedial Action (IM/IRA)

Wells 4286 and 07891 are located downgradient or crossgradient of IHSS Group NE Based on the position of the wells, it does not appear that this IHSS Group has caused a groundwater Tier I AL exceedance Consequently, there does not appear to be a sufficient quantity of COCs that would cause an exceedance of the SWS

Screen 5 – Are COC concentrations below Table 3 Action Levels for Ecological Receptors?

All COC concentrations are below the ALs for Ecological Receptors except for lead Lead exceeds the Ecological Receptor AL of 25 6 mg/kg in two surface soil locations However, these widely spaced locations appear to be anomolies that are not representative of the IHSS Group

Analytical results and the above Subsurface Soil Risk Screen indicate that an NFAA is justified for IHSS Group NE/NW Approval of this Data Summary Report constitutes regulatory agency concurrence of this IHSS Group as an NFAA This information and NFAA determination will be documented in the FY03 Historical Release Report (HRR)

7

THIS TARGET SHEET REPRESENTS AN OVER-SIZED MAP / PLATE FOR THIS DOCUMENT

Data Summary Report IHSS Group NE/NW August 2003

Figure 3: Subsurface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits - Trench Area

August 13, 2003

CERCLA Administrative Record document, BZ - A - 000621

U S DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

GOLDEN, COLORADO

10

BZ-A-008621

THIS TARGET SHEET REPRESENTS AN OVER-SIZED MAP / PLATE FOR THIS DOCUMENT

Data Summary Report IHSS Group NE/NW August 2003

Figure 4: Subsurface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits - Sprayfields

August 13, 2003

CERCLA Administrative Record document, BZ - A - 000621

U S DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

GOLDEN, COLORADO

11

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/CAC Site	Location Code	Easting	Northing	Medium	Depth (ft bgs)	Analyte	Analytical Method
NE	IHSS 216 2 – East Spray Field-Center Area	DB43-000	2088219 15	750163 83	Surface Soil	0-0 5'	Radionuclides	HPGe
		DB43-000	2088219 15	750163 83	Surface Soil	0-0 5'	Metals	6010A
		DB43-000	2088219 15	750163 83	Surface Soil	0-0 5'	SVOCs	8270C
		DB43-000	2088219 15	750163 83	Surface Soil	0-0 5'	PCBs	8082
		DB43-000	2088219 15	750163 83	Surface Soil	0-0 5'	Pesticides	8081A
		DB44-000	2088317 84	750231 30	Surface Soil	0-0 5'	Radionuclides	HPGe
		DB44-000	2088317 84	750231 30	Surface Soil	0-0 5'	Metals	6010A
		DB44-000	2088317 84	750231 30	Surface Soil	0-0 5'	SVOCs	8270C
		DB44-000	2088317 84	750231 30	Surface Soil	0-0 5'	PCBs	8082
		DB44-000	2088317 84	750231 30	Surface Soil	0-0 5'	Pesticides	8081A
		DC43-000	2088442 46	750152 87	Surface Soil	0-0 5'	Radionuclides	HPGe
		DC43-000	2088442 46	750152 87	Surface Soil	0-0 5'	Metals	6010A
		DC43-000	2088442 46	750152 87	Surface Soil	0-0 5'	SVOCs	8270C
		DC43-000	2088442 46	750152 87	Surface Soil	0-0 5'	PCBs	8082
		DC43-000	2088442 46	750152 87	Surface Soil	0-0 5'	Pesticides	8081A
		DC45-000	2088455 44	750459 28	Surface Soil	0-0 5'	Radionuclides	HPGe
		DC45-000	2088455 44	750459 28	Surface Soil	0-0 5'	Metals	6010A
		DC45-000	2088455 44	750459 28	Surface Soil	0-0 5'	SVOCs	8270C
		DC45-000	2088455 44	750459 28	Surface Soil	0-0 5'	PCBs	8082
		DC45-000	2088455 44	750459 28	Surface Soil	0-0 5'	Pesticides	8081A
		DD43-000	2088438 18	750004 16	Surface Soil	0-0 5'	Radionuclides	HPGe
		DD43-000	2088438 18	750004 16	Surface Soil	0-0 5'	Metals	6010A
		DD43-000	2088438 18	750004 16	Surface Soil	0-0 5'	SVOCs	8270C
		DD43-000	2088438 18	750004 16	Surface Soil	0-0 5'	PCBs	8082
		DD43-000	2088438 18	750004 16	Surface Soil	0-0 5'	Pesticides	8081A
		DD44-000	2088472 83	750275 17	Surface Soil	0-0 5'	Radionuclides	HPGe

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UCA Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Analytical Method
		DD44-000	2088472 83	750275 17	Surface Soil	0-0 5'	Metals	6010A
		DD44-000	2088472 83	750275 17	Surface Soil	0-0 5'	SVOCs	8270C
		DD44-000	2088472 83	750275 17	Surface Soil	0-0 5'	PCBs	8082
		DD44-000	2088472 83	750275 17	Surface Soil	0-0 5'	Pesticides	8081A
	IHSS 216 3 – East Spray Field – South Area	DB43-001	2088225 51	749962 66	Surface Soil	0-0 5'	Radionuclides	HPGe
		DB43-001	2088225 51	749962 66	Surface Soil	0-0 5'	Metals	6010A
		DB43-001	2088225 51	749962 66	Surface Soil	0-0 5'	SVOCs	8270C
		DB43-001	2088225 51	749962 66	Surface Soil	0-0 5'	PCBs	8082
		DB43-001	2088225 51	749962 66	Surface Soil	0-0 5'	Pesticides	8081A
		DB43-001	2088225 51	749962 66	Subsurface Soil	05'-2 5'	VOCs	8260B
		DD43-001	2088548 16	750006 90	Surface Soil	0-0 5'	Radionuclides	HPGe
		DD43-001	2088548 16	750006 90	Surface Soil	0-0 5'	Metals	6010A
		DD43-001	2088548 16	750006 90	Surface Soil	0-0 5'	SVOCcs	8270C
		DD43-001	2088548 16	750006 90	Surface Soil	0-0 5'	PCBs	8082
		DD43-001	2088548 16	750006 90	Surface Soil	0-0 5'	Pesticides	8081A
		DD43-001	2088548 16	750006 90	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DC42-000	2088475 30	749921 03	Surface Soil	0-0 5'	Radionuclides	HPGe
		DC42-000	2088475 30	749921 03	Surface Soil	0-0 5'	Metals	6010A
		DC42-000	2088475 30	749921 03	Surface Soil	0-0 5'	SVOCs	8270C
		DC42-000	2088475 30	749921 03	Surface Soil	0-0 5'	PCBs	8082
		DC42-000	2088475 30	749921 03	Surface Soil	0-0 5'	Pesticides	8081A
		DC42-000	2088475 30	749921 03	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DC41-000	2088420 66	749720 68	Surface Soil	0-0 5'	Radionuclides	HPGe
		DC41-000	2088420 66	749720 68	Surface Soil	0-0 5'	Metals	6010A
		DC41-000	2088420 66	749720 68	Surface Soil	0-0 5'	SVOCcs	8270C
		DC41-000	2088420 66	749720 68	Surface Soil	0-0 5'	PCBs	8082

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Analytical Method
		DC41-000	2088420 66	749720 68	Surface Soil	0-0 5'	Pesticides	8081A
		DC41-000	2088420 66	749720 68	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DB41-000	2088277 55	749577 57	Surface Soil	0-0 5'	Radionuclides	HPGe
		DB41-000	2088277 55	749577 57	Surface Soil	0-0 5'	Metals	6010A
		DB41-000	2088277 55	749577 57	Surface Soil	0-0 5'	SVOCs	8270C
		DB41-000	2088277 55	749577 57	Surface Soil	0-0 5'	PCBs	8082
		DB41-000	2088277 55	749577 57	Surface Soil	0-0 5'	Pesticides	8081A
		DB41-000	2088277 55	749577 57	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DC40-000	2088394 64	749416 24	Surface Soil	0-0 5'	Radionuclides	HPGe
		DC40-000	2088394 64	749416 24	Surface Soil	0-0 5'	Metals	6010A
		DC40-000	2088394 64	749416 24	Surface Soil	0-0 5'	SVOCs	8270C
		DC40-000	2088394 64	749416 24	Surface Soil	0-0 5'	PCBs	8082
		DC40-000	2088394 64	749416 24	Surface Soil	0-0 5'	Pesticides	8081A
		DC40-000	2088394 64	749416 24	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DB39-000	2088267 14	749247 11	Surface Soil	0-0 5'	Radionuclides	HPGe
		DB39-000	2088267 14	749247 11	Surface Soil	0-0 5'	Metals	6010A
		DB39-000	2088267 14	749247 11	Surface Soil	0-0 5'	SVOCs	8270C
		DB39-000	2088267 14	749247 11	Surface Soil	0-0 5'	PCBs	8082
		DB39-000	2088267 14	749247 11	Surface Soil	0-0 5'	Pesticides	8081A
		DB39-000	2088267 14	749247 11	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DB39-001	2088319 18	749273 13	Surface Soil	0-0 5'	Radionuclides	HPGe
		DB39-001	2088319 18	749273 13	Surface Soil	0-0 5'	Metals	6010A
		DB39-001	2088319 18	749273 13	Surface Soil	0-0 5'	SVOCs	8270C
		DB39-001	2088319 18	749273 13	Surface Soil	0-0 5'	PCBs	8082
		DB39-001	2088319 18	749273 13	Surface Soil	0-0 5'	Pesticides	8081A
		DB39-001	2088319 18	749273 13	Subsurface Soil	0 5'-2 5'	VOCs	8260B

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location ID	Easting	Northing	Media	Depth Interval	Analyte	Laboratory Method
		DD40-000	2088550 76	749551 55	Surface Soil	0-0 5'	Radionuclides	HPGe
		DD40-000	2088550 76	749551 55	Surface Soil	0-0 5'	Metals	6010A
		DD40-000	2088550 76	749551 55	Surface Soil	0-0 5'	SVOCs	8270C
		DD40-000	2088550 76	749551 55	Surface Soil	0-0 5'	PCBs	8082
		DD40-000	2088550 76	749551 55	Surface Soil	0-0 5'	Pesticides	8081A
		DD40-000	2088550 76	749551 55	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DD42-000	2088662 65	749783 13	Surface Soil	0-0 5'	Radionuclides	HPGe
		DD42-000	2088662 65	749783 13	Surface Soil	0-0 5'	Metals	6010A
		DD42-000	2088662 65	749783 13	Surface Soil	0-0 5'	SVOCs	8270C
		DD42-000	2088662 65	749783 13	Surface Soil	0-0 5'	PCBs	8082
		DD42-000	2088662 65	749783 13	Surface Soil	0-0 5'	Pesticides	8081A
		DD42-000	2088662 65	749783 13	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DE42-000	2088831 78	749949 65	Surface Soil	0-0 5'	Radionuclides	HPGe
		DE42-000	2088831 78	749949 65	Surface Soil	0-0 5'	Metals	6010A
		DE42-000	2088831 78	749949 65	Surface Soil	0-0 5'	SVOCs	8270C
		DE42-000	2088831 78	749949 65	Surface Soil	0-0 5'	PCBs	8082
		DE42-000	2088831 78	749949 65	Surface Soil	0-0 5'	Pesticides	8081A
		DE42-000	2088831 78	749949 65	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DF42-000	2089123 21	749910 62	Surface Soil	0-0 5'	Radionuclides	HPGe
		DF42-000	2089123 21	749910 62	Surface Soil	0-0 5'	Metals	6010A
		DF42-000	2089123 21	749910 62	Surface Soil	0-0 5'	SVOCs	8270C
		DF42-000	2089123 21	749910 62	Surface Soil	0-0 5'	PCBs	8082
		DF42-000	2089123 21	749910 62	Surface Soil	0-0 5'	Pesticides	8081A
		DF42-000	2089123 21	749910 62	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DH43-000	2089362 59	749991 29	Surface Soil	0-0 5'	Radionuclides	HPGe
		DH43-000	2089362 59	749991 29	Surface Soil	0-0 5'	Metals	6010A

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/AOC Sub-Unit	Location Code	Easting	Northing	Media	Depth (feet)	Analytical Group	Analytical Method
		DH43-000	2089362 59	749991 29	Surface Soil	0-0 5'	SVOCs	8270C
		DH43-000	2089362 59	749991 29	Surface Soil	0-0 5'	PCBs	8082
		DH43-000	2089362 59	749991 29	Surface Soil	0-0 5'	Pesticides	8081A
		DH43-000	2089362 59	749991 29	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DG41-000	2089307 95	749744 10	Surface Soil	0-0 5'	Radionuclides	HPGe
		DG41-000	2089307 95	749744 10	Surface Soil	0-0 5'	Metals	6010A
		DG41-000	2089307 95	749744 10	Surface Soil	0-0 5'	SVOCs	8270C
		DG41-000	2089307 95	749744 10	Surface Soil	0-0 5'	PCBs	8082
		DG41-000	2089307 95	749744 10	Surface Soil	0-0 5'	Pesticides	8081A
		DG41-000	2089307 95	749744 10	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DF41-000	2088998 31	749741 49	Surface Soil	0-0 5'	Radionuclides	HPGe
		DF41-000	2088998 31	749741 49	Surface Soil	0-0 5'	Metals	6010A
		DF41-000	2088998 31	749741 49	Surface Soil	0-0 5'	SVOCs	8270C
		DF41-000	2088998 31	749741 49	Surface Soil	0-0 5'	PCBs	8082
		DF41-000	2088998 31	749741 49	Surface Soil	0-0 5'	Pesticides	8081A
		DF41-000	2088998 31	749741 49	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DF40-000	2089086 78	749483 89	Surface Soil	0-0 5'	Radionuclides	HPGe
		DF40-000	2089086 78	749483 89	Surface Soil	0-0 5'	Metals	6010A
		DF40-000	2089086 78	749483 89	Surface Soil	0-0 5'	SVOCs	8270C
		DF40-000	2089086 78	749483 89	Surface Soil	0-0,5'	PCBs	8082
		DF40-000	2089086 78	749483 89	Surface Soil	0-0 5'	Pesticides	8081A
		DF40-000	2089086 78	749483 89	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DE40-000	2088805 76	749554 15	Surface Soil	0-0 5'	Radionuclides	HPGe
		DE40-000	2088805 76	749554 15	Surface Soil	0-0 5'	Metals	6010A
		DE40-000	2088805 76	749554 15	Surface Soil	0-0 5'	SVOCs	8270C
		DE40-000	2088805 76	749554 15	Surface Soil	0-0 5'	PCBs	8082

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Medium	Depth (ft bgs)	Analyte	Laboratory Method
		DE40-000	2088805 76	749554 15	Surface Soil	0-0 5'	Pesticides	8081A
		DE40-000	2088805 76	749554 15	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DD39-000	2088639 23	749288 74	Surface Soil	0-0 5'	Radionuclides	HPGe
		DD39-000	2088639 23	749288 74	Surface Soil	0-0 5'	Metals	6010A
		DD39-000	2088639 23	749288 74	Surface Soil	0-0 5'	SVOCs	8270C
		DD39-000	2088639 23	749288 74	Surface Soil	0-0 5'	PCBs	8082
		DD39-000	2088639 23	749288 74	Surface Soil	0-0 5'	Pesticides	8081A
		DD39-000	2088639 23	749288 74	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DG41-001	2089248 22	749647 97	Surface Soil	0-0 5'	Radionuclides	HPGe
		DG41-001	2089248 22	749647 97	Surface Soil	0-0 5'	Metals	6010A
		DG41-001	2089248 22	749647 97	Surface Soil	0-0 5'	SVOCs	8270C
		DG41-001	2089248 22	749647 97	Surface Soil	0-0 5'	PCBs	8082
		DG41-001	2089248 22	749647 97	Surface Soil	0-0 5'	Pesticides	8081A
		DG41-001	2089248 22	749647 97	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		DC39-000	2088448 69	749186 93	Surface Soil	0-0 5'	Radionuclides	HPGe
		DC39-000	2088448 69	749186 93	Surface Soil	0-0 5'	Metals	6010A
		DC39-000	2088448 69	749186 93	Surface Soil	0-0 5'	SVOCs	8270C
		DC39-000	2088448 69	749186 93	Surface Soil	0-0 5'	PCBs	8082
		DC39-000	2088448 69	749186 93	Surface Soil	0-0 5'	Pesticides	8081A
		DC39-000	2088448 69	749186 93	Subsurface Soil	0 5'-2 5'	VOCs	8260B
	PAC NE-1412 – Trench T-12	CV41-000	2086966 71	749584 29	Surface Soil	0-0 5'	Radionuclides	HPGe
		CV41-000	2086966 71	749584 29	Surface Soil	0-0 5'	Metals	6010A
		CV41-000	2086966 71	749584 29	Surface Soil	0-0 5'	SVOCs	8270C
		CV41-000	2086966 71	749584 29	Surface Soil	0-0 5'	PCBs	8082
		CV41-000	2086966 71	749584 29	Subsurface Soil	0 5'-2 5'	Radionuclides	HPGe
		CV41-000	2086966 71	749584 29	Subsurface Soil	0 5'-2 5'	Metals	6010A

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/AOC Site	Location Code	Easting	Northing	Media	Depth (feet)	Analyte	Analytical Method
		CV41-000	2086966 71	749584 29	Subsurface Soil	0 5'-2 5'	SVOCs	8270C
		CV41-000	2086966 71	749584 29	Subsurface Soil	0 5'-2 5'	VOCs	8260B
		CV41-000	2086966 71	749584 29	Subsurface Soil	0 5'-2 5'	PCBs	8082
		CV41-000	2086966 71	749584 29	Subsurface Soil	2 5-4 5'	Radionuclides	HPGe
		CV41-000	2086966 71	749584 29	Subsurface Soil	2 5-4 5'	Metals	6010A
		CV41-000	2086966 71	749584 29	Subsurface Soil	2 5-4 5'	SVOCs	8270C
		CV41-000	2086966 71	749584 29	Subsurface Soil	2 5-4 5'	VOCs	8260B
		CV41-000	2086966 71	749584 29	subsurface soil	2 5-4 5'	PCBs	8082
		CV41-000	2086966 71	749584 29	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV41-000	2086966 71	749584 29	subsurface soil	4 5-6 5'	Metals	6010A
		CV41-000	2086966 71	749584 29	subsurface soil	4 5-6 5'	SVOCs	8270C
		CV41-000	2086966 71	749584 29	subsurface soil	4 5-6 5'	VOCs	8260B
		CV41-000	2086966 71	749584 29	subsurface soil	4 5-6 5'	PCBs	8082
		CV41-000	2086966 71	749584 29	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV41-000	2086966 71	749584 29	subsurface soil	6 5-8 5'	Metals	6010A
		CV41-000	2086966 71	749584 29	subsurface soil	6 5-8 5'	SVOCs	8270C
		CV41-000	2086966 71	749584 29	subsurface soil	6 5-8 5'	VOCs	8260B
		CV41-000	2086966 71	749584 29	subsurface soil	6 5-8 5'	PCBs	8082
		CV41-000	2086966 71	749584 29	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV41-000	2086966 71	749584 29	subsurface soil	8 5-10 5'	Metals	6010A
		CV41-000	2086966 71	749584 29	subsurface soil	8 5-10 5'	SVOCs	8270C
		CV41-000	2086966 71	749584 29	subsurface soil	8 5-10 5'	VOCs	8260B
		CV41-000	2086966 71	749584 29	subsurface soil	8 5-10 5'	PCBs	8082
		CV41-001	2086994 24	749570 86	surface soil	0-0 5'	Radionuclides	HPGe
		CV41-001	2086994 24	749570 86	surface soil	0-0 5'	Metals	6010A
		CV41-001	2086994 24	749570 86	surface soil	0-0 5'	SVOCs	8270C

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location/Site	Easting	Northing	Media	Depth (bgs)	Analyte	Laboratory Method
		CV41-001	2086994 24	749570 86	surface soil	0-0 5'	PCBs	8082
		CV41-001	2086994 24	749570 86	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CV41-001	2086994 24	749570 86	subsurface soil	0 5'-2 5'	Metals	6010A
		CV41-001	2086994 24	749570 86	subsurface soil	0 5'-2 5'	SVOCs	8270C
		CV41-001	2086994 24	749570 86	subsurface soil	0 5'-2 5'	VOCs	8260B
		CV41-001	2086994 24	749570 86	subsurface soil	0 5'-2 5'	PCBs	8082
		CV41-001	2086994 24	749570 86	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV41-001	2086994 24	749570 86	subsurface soil	2 5-4 5'	Metals	6010A
		CV41-001	2086994 24	749570 86	subsurface soil	2 5-4 5'	SVOCs	8270C
		CV41-001	2086994 24	749570 86	subsurface soil	2 5-4 5'	VOCs	8260B
		CV41-001	2086994 24	749570 86	subsurface soil	2 5-4 5'	PCBs	8082
		CV41-001	2086994 24	749570 86	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV41-001	2086994 24	749570 86	subsurface soil	4 5-6 5'	Metals	6010A
		CV41-001	2086994 24	749570 86	subsurface soil	4 5-6 5'	SVOCs	8270C
		CV41-001	2086994 24	749570 86	subsurface soil	4 5-6 5'	VOCs	8260B
		CV41-001	2086994 24	749570 86	subsurface soil	4 5-6 5'	PCBs	8082
		CV41-001	2086994 24	749570 86	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV41-001	2086994 24	749570 86	subsurface soil	6 5-8 5'	Metals	6010A
		CV41-001	2086994 24	749570 86	subsurface soil	6 5-8 5'	SVOCs	8270C
		CV41-001	2086994 24	749570 86	subsurface soil	6 5-8 5'	VOCs	8260B
		CV41-001	2086994 24	749570 86	subsurface soil	6 5-8 5'	PCBs	8082
		CV41-001	2086994 24	749570 86	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV41-001	2086994 24	749570 86	subsurface soil	8 5-10 5'	Metals	6010A
		CV41-001	2086994 24	749570 86	subsurface soil	8 5-10 5'	SVOCs	8270C
		CV41-001	2086994 24	749570 86	subsurface soil	8 5-10 5'	VOCs	8260B
		CV41-001	2086994 24	749570 86	subsurface soil	8 5-10 5'	PCBs	8082

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Analytical Method
		CV41-002	2087015 06	749599 73	surface soil	0-0 5'	Radionuclides	HPGe
		CV41-002	2087015 06	749599 73	surface soil	0-0 5'	Metals	6010A
		CV41-002	2087015 06	749599 73	surface soil	0-0 5'	SVOCs	8270C
		CV41-002	2087015 06	749599 73	surface soil	0-0 5'	PCBs	8082
		CV41-002	2087015 06	749599 73	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CV41-002	2087015 06	749599 73	subsurface soil	0 5'-2 5'	Metals	6010A
		CV41-002	2087015 06	749599 73	subsurface soil	0 5'-2 5'	SVOCs	8270C
		CV41-002	2087015 06	749599 73	subsurface soil	0 5'-2 5'	VOCs	8260B
		CV41-002	2087015 06	749599 73	subsurface soil	0 5'-2 5'	PCBs	8082
		CV41-002	2087015 06	749599 73	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV41-002	2087015 06	749599 73	subsurface soil	2 5-4 5'	Metals	6010A
		CV41-002	2087015 06	749599 73	subsurface soil	2 5-4 5'	SVOCs	8270C
		CV41-002	2087015 06	749599 73	subsurface soil	2 5-4 5'	VOCs	8260B
		CV41-002	2087015 06	749599 73	subsurface soil	2 5-4 5'	PCBs	8082
		CV41-002	2087015 06	749599 73	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV41-002	2087015 06	749599 73	subsurface soil	4 5-6 5'	Metals	6010A
		CV41-002	2087015 06	749599 73	subsurface soil	4 5-6 5'	SVOCs	8270C
		CV41-002	2087015 06	749599 73	subsurface soil	4 5-6 5'	VOCs	8260B
		CV41-002	2087015 06	749599 73	subsurface soil	4 5-6 5'	PCBs	8082
		CV41-002	2087015 06	749599 73	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV41-002	2087015 06	749599 73	subsurface soil	6 5-8 5'	Metals	6010A
		CV41-002	2087015 06	749599 73	subsurface soil	6 5-8 5'	SVOCs	8270C
		CV41-002	2087015 06	749599 73	subsurface soil	6 5-8 5'	VOCs	8260B
		CV41-002	2087015 06	749599 73	subsurface soil	6 5-8 5'	PCBs	8082
		CV41-002	2087015 06	749599 73	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV41-002	2087015 06	749599 73	subsurface soil	8 5-10 5'	Metals	6010A

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/AOC Unit	Location Code	Easting	Northing	Media	Depth	Analyte	Analytical Method
		CV41-002	2087015 06	749599 73	subsurface soil	8 5-10 5'	SVOCs	8270C
		CV41-002	2087015 06	749599 73	subsurface soil	8 5-10 5'	VOCs	8260B
		CV41-002	2087015 06	749599 73	subsurface soil	8 5-10 5'	PCBs	8082
		CV41-003	2087050 64	749597 05	surface soil	0-0 5'	Radionuclides	HPGe
		CV41-003	2087050 64	749597 05	surface soil	0-0 5'	Metals	6010A
		CV41-003	2087050 64	749597 05	surface soil	0-0 5'	SVOCs	8270C
		CV41-003	2087050 64	749597 05	surface soil	0-0 5'	PCBs	8082
		CV41-003	2087050 64	749597 05	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CV41-003	2087050 64	749597 05	subsurface soil	0 5'-2 5'	Metals	6010A
		CV41-003	2087050 64	749597 05	subsurface soil	0 5'-2 5'	SVOCs	8270C
		CV41-003	2087050 64	749597 05	subsurface soil	0 5'-2 5'	VOCs	8260B
		CV41-003	2087050 64	749597 05	subsurface soil	0 5'-2 5'	PCBs	8082
		CV41-003	2087050 64	749597 05	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV41-003	2087050 64	749597 05	subsurface soil	2 5-4 5'	Metals	6010A
		CV41-003	2087050 64	749597 05	subsurface soil	2 5-4 5'	SVOCs	8270C
		CV41-003	2087050 64	749597 05	subsurface soil	2 5-4 5'	VOCs	8260B
		CV41-003	2087050 64	749597 05	subsurface soil	2 5-4 5'	PCBs	8082
		CV41-003	2087050 64	749597 05	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV41-003	2087050 64	749597 05	subsurface soil	4 5-6 5'	Metals	6010A
		CV41-003	2087050 64	749597 05	subsurface soil	4 5-6 5'	SVOCs	8270C
		CV41-003	2087050 64	749597 05	subsurface soil	4 5-6 5'	VOCs	8260B
		CV41-003	2087050 64	749597 05	subsurface soil	4 5-6 5'	PCBs	8082
		CV41-003	2087050 64	749597 05	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV41-003	2087050 64	749597 05	subsurface soil	6 5-8 5'	Metals	6010A
		CV41-003	2087050 64	749597 05	subsurface soil	6 5-8 5'	SVOCs	8270C
		CV41-003	2087050 64	749597 05	subsurface soil	6 5-8 5'	VOCs	8260B

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location/Code	Easting	Northing	Medium	Depth	Analyte	Analytical Method
		CV41-003	2087050 64	749597 05	subsurface soil	6 5-8 5'	PCBs	8082
		CV41-003	2087050 64	749597 05	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV41-003	2087050 64	749597 05	subsurface soil	8 5-10 5'	Metals	6010A
		CV41-003	2087050 64	749597 05	subsurface soil	8 5-10 5'	SVOCs	8270C
		CV41-003	2087050 64	749597 05	subsurface soil	8 5-10 5'	VOCs	8260B
		CV41-003	2087050 64	749597 05	subsurface soil	8 5-10 5'	PCBs	8082
		CV41-004	2087073 47	749619 88	surface soil	0-0 5'	Radionuclides	HPGe
		CV41-004	2087073 47	749619 88	surface soil	0-0 5'	Metals	6010A
		CV41-004	2087073 47	749619 88	surface soil	0-0 5'	SVOCs	8270C
		CV41-004	2087073 47	749619 88	surface soil	0-0 5'	PCBs	8082
		CV41-004	2087073 47	749619 88	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV41-004	2087073 47	749619 88	subsurface soil	2 5-4 5'	Metals	6010A
		CV41-004	2087073 47	749619 88	subsurface soil	2 5-4 5'	SVOCs	8270C
		CV41-004	2087073 47	749619 88	subsurface soil	2 5-4 5'	PCBs	8082
		CV41-004	2087073 47	749619 88	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV41-004	2087073 47	749619 88	subsurface soil	4 5-6 5'	Metals	6010A
		CV41-004	2087073 47	749619 88	subsurface soil	4 5-6 5'	SVOCs	8270C
		CV41-004	2087073 47	749619 88	subsurface soil	4 5-6 5'	VOCs	8260B
		CV41-004	2087073 47	749619 88	subsurface soil	4 5-6 5'	PCBs	8082
		CV41-004	2087073 47	749619 88	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV41-004	2087073 47	749619 88	subsurface soil	6 5-8 5'	Metals	6010A
		CV41-004	2087073 47	749619 88	subsurface soil	6 5-8 5'	SVOCs	8270C
		CV41-004	2087073 47	749619 88	subsurface soil	6 5-8 5'	VOCs	8260B
		CV41-004	2087073 47	749619 88	subsurface soil	6 5-8 5'	PCBs	8082
		CV41-004	2087073 47	749619 88	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV41-004	2087073 47	749619 88	subsurface soil	8 5-10 5'	Metals	6010A

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS Area	Location Code	Easting	Northing	Sample Type	Depth Interval	Analytes	Analytical Method
		CV41-004	2087073 47	749619 88	subsurface soil	8 5-10 5'	SVOCs	8270C
		CV41-004	2087073 47	749619 88	subsurface soil	8 5-10 5'	VOCs	8260B
		CV41-004	2087073 47	749619 88	subsurface soil	8 5-10 5'	PCBs	8082
		CV41-005	2087086 22	749593 02	surface soil	0-0 5'	Radionuclides	HPGe
		CV41-005	2087086 22	749593 02	surface soil	0-0 5'	Metals	6010A
		CV41-005	2087086 22	749593 02	surface soil	0-0 5'	SVOCs	8270C
		CV41-005	2087086 22	749593 02	surface soil	0-0 5'	PCBs	8082
		CV41-005	2087086 22	749593 02	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV41-005	2087086 22	749593 02	subsurface soil	2 5-4 5'	Metals	6010A
		CV41-005	2087086 22	749593 02	subsurface soil	2 5-4 5'	SVOCs	8270C
		CV41-005	2087086 22	749593 02	subsurface soil	2 5-4 5'	PCBs	8082
		CV41-005	2087086 22	749593 02	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV41-005	2087086 22	749593 02	subsurface soil	4 5-6 5'	Metals	6010A
		CV41-005	2087086 22	749593 02	subsurface soil	4 5-6 5'	SVOCs	8270C
		CV41-005	2087086 22	749593 02	subsurface soil	4 5-6 5'	VOCs	8260B
		CV41-005	2087086 22	749593 02	subsurface soil	4 5-6 5'	PCBs	8082
		CV41-005	2087086 22	749593 02	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV41-005	2087086 22	749593 02	subsurface soil	6 5-8 5'	Metals	6010A
		CV41-005	2087086 22	749593 02	subsurface soil	6 5-8 5'	SVOCs	8270C
		CV41-005	2087086 22	749593 02	subsurface soil	6 5-8 5'	VOCs	8260B
		CV41-005	2087086 22	749593 02	subsurface soil	6 5-8 5'	PCBs	8082
		CV41-005	2087086 22	749593 02	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV41-005	2087086 22	749593 02	subsurface soil	8 5-10 5'	Metals	6010A
		CV41-005	2087086 22	749593 02	subsurface soil	8 5-10 5'	SVOCs	8270C
		CV41-005	2087086 22	749593 02	subsurface soil	8 5-10 5'	VOCs	8260B
		CV41-005	2087086 22	749593 02	subsurface soil	8 5-10 5'	PCBs	8082

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Location Code/Site	Location Code	Easting	Northing	Media	Depth (ft bgs)	Analyte	Method
		CV41-006	2087106 37	749621 22	surface soil	0-0 5'	Radionuclides	HPGe
		CV41-006	2087106 37	749621 22	surface soil	0-0 5'	Metals	6010A
		CV41-006	2087106 37	749621 22	surface soil	0-0 5'	SVOCs	8270C
		CV41-006	2087106 37	749621 22	surface soil	0-0 5'	PCBs	8082
		CV41-006	2087106 37	749621 22	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV41-006	2087106 37	749621 22	subsurface soil	2 5-4 5'	Metals	6010A
		CV41-006	2087106 37	749621 22	subsurface soil	2 5-4 5'	SVOCs	8270C
		CV41-006	2087106 37	749621 22	subsurface soil	2 5-4 5'	PCBs	8082
		CV41-006	2087106 37	749621 22	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV41-006	2087106 37	749621 22	subsurface soil	4 5-6 5'	Metals	6010A
		CV41-006	2087106 37	749621 22	subsurface soil	4 5-6 5'	SVOCs	8270C
		CV41-006	2087106 37	749621 22	subsurface soil	4 5-6 5'	VOCs	8260B
		CV41-006	2087106 37	749621 22	subsurface soil	4 5-6 5'	PCBs	8082
		CV41-006	2087106 37	749621 22	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV41-006	2087106 37	749621 22	subsurface soil	6 5-8 5'	Metals	6010A
		CV41-006	2087106 37	749621 22	subsurface soil	6 5-8 5'	SVOCs	8270C
		CV41-006	2087106 37	749621 22	subsurface soil	6 5-8 5'	VOCs	8260B
		CV41-006	2087106 37	749621 22	subsurface soil	6 5-8 5'	PCBs	8082
		CV41-006	2087106 37	749621 22	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV41-006	2087106 37	749621 22	subsurface soil	8 5-10.5'	Metals	6010A
		CV41-006	2087106 37	749621 22	subsurface soil	8 5-10 5'	SVOCs	8270C
		CV41-006	2087106 37	749621 22	subsurface soil	8 5-10 5'	VOCs	8260B
		CV41-006	2087106 37	749621 22	subsurface soil	8 5-10 5'	PCBs	8082
		CW41-000	2087142 62	749618 53	surface soil	0-0 5'	Radionuclides	HPGe
		CW41-000	2087142 62	749618 53	surface soil	0-0 5'	Metals	6010A
		CW41-000	2087142 62	749618 53	surface soil	0-0 5'	SVOCs	8270C

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/AOC Site	Sample Location Code	Easting	Northing	Sample Matrix	Depth Interval	Analyte	Analytical Method
		CW41-000	2087142 62	749618 53	surface soil	0-0 5'	PCBs	8082
		CW41-000	2087142 62	749618 53	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CW41-000	2087142 62	749618 53	subsurface soil	2 5-4 5'	Metals	6010A
		CW41-000	2087142 62	749618 53	subsurface soil	2 5-4 5'	SVOCs	8270C
		CW41-000	2087142 62	749618 53	subsurface soil	2 5-4 5'	PCBs	8082
		CW41-000	2087142 62	749618 53	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CW41-000	2087142 62	749618 53	subsurface soil	4 5-6 5'	Metals	6010A
		CW41-000	2087142 62	749618 53	subsurface soil	4 5-6 5'	SVOCs	8270C
		CW41-000	2087142 62	749618 53	subsurface soil	4 5-6 5'	VOCs	8260B
		CW41-000	2087142 62	749618 53	subsurface soil	4 5-6 5'	PCBs	8082
		CW41-000	2087142 62	749618 53	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CW41-000	2087142 62	749618 53	subsurface soil	6 5-8 5'	Metals	6010A
		CW41-000	2087142 62	749618 53	subsurface soil	6 5-8 5'	SVOCs	8270C
		CW41-000	2087142 62	749618 53	subsurface soil	6 5-8 5'	VOCs	8260B
		CW41-000	2087142 62	749618 53	subsurface soil	6 5-8 5'	PCBs	8082
		CW41-000	2087142 62	749618 53	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CW41-000	2087142 62	749618 53	subsurface soil	8 5-10 5'	Metals	6010A
		CW41-000	2087142 62	749618 53	subsurface soil	8 5-10 5'	SVOCs	8270C
		CW41-000	2087142 62	749618 53	subsurface soil	8 5-10 5'	VOCs	8260B
		CW41-000	2087142 62	749618 53	subsurface soil	8 5-10 5'	PCBs	8082
		CW41-001	2087163 44	749648 07	surface soil	0-0 5'	Radionuclides	HPGe
		CW41-001	2087163 44	749648 07	surface soil	0-0 5'	Metals	6010A
		CW41-001	2087163 44	749648 07	surface soil	0-0 5'	SVOCs	8270C
		CW41-001	2087163 44	749648 07	surface soil	0-0 5'	PCBs	8082
		CW41-001	2087163 44	749648 07	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CW41-001	2087163 44	749648 07	subsurface soil	2 5-4 5'	Metals	6010A

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth (bgs)	Analyte	Laboratory Method
		CW41-001	2087163 44	749648 07	subsurface soil	2 5-4 5'	SVOCs	8270C
		CW41-001	2087163 44	749648 07	subsurface soil	2 5-4 5'	PCBs	8082
		CW41-001	2087163 44	749648 07	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CW41-001	2087163 44	749648 07	subsurface soil	4 5-6 5'	Metals	6010A
		CW41-001	2087163 44	749648 07	subsurface soil	4 5-6 5'	SVOCs	8270C
		CW41-001	2087163 44	749648 07	subsurface soil	4 5-6 5'	VOCs	8260B
		CW41-001	2087163 44	749648 07	subsurface soil	4 5-6 5'	PCBs	8082
		CW41-001	2087163 44	749648 07	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CW41-001	2087163 44	749648 07	subsurface soil	6 5-8 5'	Metals	6010A
		CW41-001	2087163 44	749648 07	subsurface soil	6 5-8 5'	SVOCs	8270C
		CW41-001	2087163 44	749648 07	subsurface soil	6 5-8 5'	VOCs	8260B
		CW41-001	2087163 44	749648 07	subsurface soil	6 5-8 5'	PCBs	8082
		CW41-001	2087163 44	749648 07	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CW41-001	2087163 44	749648 07	subsurface soil	8 5-10 5'	Metals	6010A
		CW41-001	2087163 44	749648 07	subsurface soil	8 5-10 5'	SVOCs	8270C
		CW41-001	2087163 44	749648 07	subsurface soil	8 5-10 5'	VOCs	8260B
		CW41-001	2087163 44	749648 07	subsurface soil	8 5-10 5'	PCBs	8082
		CW41-002	2087178 88	749622 56	surface soil	0-0 5'	Radionuclides	HPGe
		CW41-002	2087178 88	749622 56	surface soil	0-0 5'	Metals	6010A
		CW41-002	2087178 88	749622 56	surface soil	0-0 5'	SVOCs	8270C
		CW41-002	2087178 88	749622 56	surface soil	0-0 5'	PCBs	8082
		CW41-002	2087178 88	749622 56	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CW41-002	2087178 88	749622 56	subsurface soil	2 5-4 5'	Metals	6010A
		CW41-002	2087178 88	749622 56	subsurface soil	2 5-4 5'	SVOCs	8270C
		CW41-002	2087178 88	749622 56	subsurface soil	2 5-4 5'	PCBs	8082
		CW41-002	2087178 88	749622 56	subsurface soil	4 5-6 5'	Radionuclides	HPGe

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/PRS Location Code	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Laboratory Method
		CW41-002	2087178 88	749622 56	subsurface soil	4 5-6 5'	Metals	6010A
		CW41-002	2087178 88	749622 56	subsurface soil	4 5-6 5'	SVOCs	8270C
		CW41-002	2087178 88	749622 56	subsurface soil	4 5-6 5'	VOCs	8260B
		CW41-002	2087178 88	749622 56	subsurface soil	4 5-6 5'	PCBs	8082
		CW41-002	2087178 88	749622 56	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CW41-002	2087178 88	749622 56	subsurface soil	6 5-8 5'	Metals	6010A
		CW41-002	2087178 88	749622 56	subsurface soil	6 5-8 5'	SVOCs	8270C
		CW41-002	2087178 88	749622 56	subsurface soil	6 5-8 5'	VOCs	8260B
		CW41-002	2087178 88	749622 56	subsurface soil	6 5-8 5'	PCBs	8082
		CW41-002	2087178 88	749622 56	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CW41-002	2087178 88	749622 56	subsurface soil	8 5-10 5'	Metals	6010A
		CW41-002	2087178 88	749622 56	subsurface soil	8 5-10 5'	SVOCs	8270C
		CW41-002	2087178 88	749622 56	subsurface soil	8 5-10 5'	VOCs	8260B
		CW41-002	2087178 88	749622 56	subsurface soil	8 5-10 5'	PCBs	8082
	PAC NE-1413 – Trench T-13	CV40-000	2087078 06	749463 45	surface soil	0-0 5'	Radionuclides	HPGe
		CV40-000	2087078 06	749463 45	surface soil	0-0 5'	Metals	6010A
		CV40-000	2087078 06	749463 45	surface soil	0-0 5'	PCBs	8082
		CV40-000	2087078 06	749463 45	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CV40-000	2087078 06	749463 45	subsurface soil	0 5'-2 5'	Metals	6010A
		CV40-000	2087078 06	749463 45	subsurface soil	0 5'-2 5'	VOCs	8260B
		CV40-000	2087078 06	749463 45	subsurface soil	0 5'-2 5'	PCBs	8082
		CV40-000	2087078 06	749463 45	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV40-000	2087078 06	749463 45	subsurface soil	2 5-4 5'	Metals	6010A
		CV40-000	2087078 06	749463 45	subsurface soil	2 5-4 5'	VOCs	8260B
		CV40-000	2087078 06	749463 45	subsurface soil	2 5-4 5'	PCBs	8082
		CV40-000	2087078 06	749463 45	subsurface soil	4 5-6 5'	Radionuclides	HPGe

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/AOC Site	Location Code	Easting	Northing	Media	Depth (feet)	Analyte	Analytical Method
		CV40-000	2087078 06	749463 45	subsurface soil	4 5-6 5'	Metals	6010A
		CV40-000	2087078 06	749463 45	subsurface soil	4 5-6 5'	VOCs	8260B
		CV40-000	2087078 06	749463 45	subsurface soil	4 5-6 5'	PCBs	8082
		CV40-000	2087078 06	749463 45	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV40-000	2087078 06	749463 45	subsurface soil	6 5-8 5'	Metals	6010A
		CV40-000	2087078 06	749463 45	subsurface soil	6 5-8 5'	VOCs	8260B
		CV40-000	2087078 06	749463 45	subsurface soil	6 5-8 5'	PCBs	8082
		CV40-000	2087078 06	749463 45	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV40-000	2087078 06	749463 45	subsurface soil	8 5-10 5'	Metals	6010A
		CV40-000	2087078 06	749463 45	subsurface soil	8 5-10 5'	VOCs	8260B
		CV40-000	2087078 06	749463 45	subsurface soil	8 5-10 5'	PCBs	8082
		CV40-001	2087106 49	749480 09	surface soil	0-0 5'	Radionuclides	HPGe
		CV40-001	2087106 49	749480 09	surface soil	0-0 5'	Metals	6010A
		CV40-001	2087106 49	749480 09	surface soil	0-0 5'	PCBs	8082
		CV40-001	2087106 49	749480 09	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CV40-001	2087106 49	749480 09	subsurface soil	0 5'-2 5'	Metals	6010A
		CV40-001	2087106 49	749480 09	subsurface soil	0 5'-2 5'	VOCs	8260B
		CV40-001	2087106 49	749480 09	subsurface soil	0 5'-2 5'	PCBs	8082
		CV40-001	2087106 49	749480 09	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV40-001	2087106 49	749480 09	subsurface soil	2 5-4 5'	Metals	6010A
		CV40-001	2087106 49	749480 09	subsurface soil	2 5-4 5'	VOCs	8260B
		CV40-001	2087106 49	749480 09	subsurface soil	2 5-4 5'	PCBs	8082
		CV40-001	2087106 49	749480 09	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV40-001	2087106 49	749480 09	subsurface soil	4 5-6 5'	Metals	6010A
		CV40-001	2087106 49	749480 09	subsurface soil	4 5-6 5'	VOCs	8260B
		CV40-001	2087106 49	749480 09	subsurface soil	4 5-6 5'	PCBs	8082

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Sample Matrix	Depth (ft bgs)	Analyte	Analytical Method
		CV40-001	2087106 49	749480 09	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV40-001	2087106 49	749480 09	subsurface soil	6 5-8 5'	Metals	6010A
		CV40-001	2087106 49	749480 09	subsurface soil	6 5-8 5'	VOCs	8260B
		CV40-001	2087106 49	749480 09	subsurface soil	6 5-8 5'	PCBs	8082
		CV40-001	2087106 49	749480 09	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV40-001	2087106 49	749480 09	subsurface soil	8 5-10 5'	Metals	6010A
		CV40-001	2087106 49	749480 09	subsurface soil	8 5-10 5'	VOCs	8260B
		CV40-001	2087106 49	749480 09	subsurface soil	8 5-10 5'	PCBs	8082
		CV40-002	2087113 43	749452 35	surface soil	0-0 5'	Radionuclides	HPGe
		CV40-002	2087113 43	749452 35	surface soil	0-0 5'	Metals	6010A
		CV40-002	2087113 43	749452 35	surface soil	0-0 5'	PCBs	8082
		CV40-002	2087113 43	749452 35	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CV40-002	2087113 43	749452 35	subsurface soil	0 5'-2 5'	Metals	6010A
		CV40-002	2087113 43	749452 35	subsurface soil	0 5'-2 5'	VOCs	8260B
		CV40-002	2087113 43	749452 35	subsurface soil	0 5'-2 5'	PCBs	8082
		CV40-002	2087113 43	749452 35	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CV40-002	2087113 43	749452 35	subsurface soil	2 5-4 5'	Metals	6010A
		CV40-002	2087113 43	749452 35	subsurface soil	2 5-4 5'	VOCs	8260B
		CV40-002	2087113 43	749452 35	subsurface soil	2 5-4 5'	PCBs	8082
		CV40-002	2087113 43	749452 35	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CV40-002	2087113 43	749452 35	subsurface soil	4 5-6 5'	Metals	6010A
		CV40-002	2087113 43	749452 35	subsurface soil	4 5-6 5'	VOCs	8260B
		CV40-002	2087113 43	749452 35	subsurface soil	4 5-6 5'	PCBs	8082
		CV40-002	2087113 43	749452 35	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CV40-002	2087113 43	749452 35	subsurface soil	6 5-8 5'	Metals	6010A
		CV40-002	2087113 43	749452 35	subsurface soil	6 5-8 5'	VOCs	8260B

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Analytical Method
		CV40-002	2087113 43	749452 35	subsurface soil	6 5-8 5'	PCBs	8082
		CV40-002	2087113 43	749452 35	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CV40-002	2087113 43	749452 35	subsurface soil	8 5-10 5'	Metals	6010A
		CV40-002	2087113 43	749452 35	subsurface soil	8 5-10 5'	VOCs	8260B
		CV40-002	2087113 43	749452 35	subsurface soil	8 5-10 5'	PCBs	8082
		CW40-000	2087139 09	749477 67	surface soil	0-0 5'	Radionuclides	HPGe
		CW40-000	2087139 09	749477 67	surface soil	0-0 5'	Metals	6010A
		CW40-000	2087139 09	749477 67	surface soil	0-0 5'	PCBs	8082
		CW40-000	2087139 09	749477 67	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CW40-000	2087139 09	749477 67	subsurface soil	0 5'-2 5'	Metals	6010A
		CW40-000	2087139 09	749477 67	subsurface soil	0 5'-2 5'	VOCs	8260B
		CW40-000	2087139 09	749477 67	subsurface soil	0 5'-2 5'	PCBs	8082
		CW40-000	2087139 09	749477 67	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CW40-000	2087139 09	749477 67	subsurface soil	2 5-4 5'	Metals	6010A
		CW40-000	2087139 09	749477 67	subsurface soil	2 5-4 5'	VOCs	8260B
		CW40-000	2087139 09	749477 67	subsurface soil	2 5-4 5'	PCBs	8082
		CW40-000	2087139 09	749477 67	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CW40-000	2087139 09	749477 67	subsurface soil	4 5-6 5'	Metals	6010A
		CW40-000	2087139 09	749477 67	subsurface soil	4 5-6 5'	VOCs	8260B
		CW40-000	2087139 09	749477 67	subsurface soil	4 5-6 5'	PCBs	8082
		CW40-000	2087139 09	749477 67	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CW40-000	2087139 09	749477 67	subsurface soil	6 5-8 5'	Metals	6010A
		CW40-000	2087139 09	749477 67	subsurface soil	6 5-8 5'	VOCs	8260B
		CW40-000	2087139 09	749477 67	subsurface soil	6 5-8 5'	PCBs	8082
		CW40-000	2087139 09	749477 67	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CW40-000	2087139 09	749477 67	subsurface soil	8 5-10 5'	Metals	6010A

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS (ASOU)	IHSS/PAC/UBC Site	Location ID	Easting	Northing	Sample Medium	Depth interval	Analyte	Analytical method
		CW40-000	2087139 09	749477 67	subsurface soil	8 5-10 5'	VOCs	8260B
		CW40-000	2087139 09	749477 67	subsurface soil	8 5-10 5'	PCBs	8082
		CW40-001	2087145 33	749448 88	surface soil	0-0 5'	Radionuclides	HPGe
		CW40-001	2087145 33	749448 88	surface soil	0-0 5'	Metals	6010A
		CW40-001	2087145 33	749448 88	surface soil	0-0 5'	PCBs	8082
		CW40-001	2087145 33	749448 88	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CW40-001	2087145 33	749448 88	subsurface soil	0 5'-2 5'	Metals	6010A
		CW40-001	2087145 33	749448 88	subsurface soil	0 5'-2 5'	VOCs	8260B
		CW40-001	2087145 33	749448 88	subsurface soil	0 5'-2 5'	PCBs	8082
		CW40-001	2087145 33	749448 88	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CW40-001	2087145 33	749448 88	subsurface soil	2 5-4 5'	Metals	6010A
		CW40-001	2087145 33	749448 88	subsurface soil	2 5-4 5'	VOCs	8260B
		CW40-001	2087145 33	749448 88	subsurface soil	2 5-4 5'	PCBs	8082
		CW40-001	2087145 33	749448 88	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CW40-001	2087145 33	749448 88	subsurface soil	4 5-6 5'	Metals	6010A
		CW40-001	2087145 33	749448 88	subsurface soil	4 5-6 5'	VOCs	8260B
		CW40-001	2087145 33	749448 88	subsurface soil	4 5-6 5'	PCBs	8082
		CW40-001	2087145 33	749448 88	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CW40-001	2087145 33	749448 88	subsurface soil	6 5-8 5'	Metals	6010A
		CW40-001	2087145 33	749448 88	subsurface soil	6 5-8 5'	VOCs	8260B
		CW40-001	2087145 33	749448 88	subsurface soil	6 5-8 5'	PCBs	8082
		CW40-001	2087145 33	749448 88	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CW40-001	2087145 33	749448 88	subsurface soil	8 5-10 5'	Metals	6010A
		CW40-001	2087145 33	749448 88	subsurface soil	8 5-10 5'	VOCs	8260B
		CW40-001	2087145 33	749448 88	subsurface soil	8 5-10 5'	PCBs	8082
		CW40-002	2087173 08	749468 30	surface soil	0-0 5'	Radionuclides	HPGe

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS PAC/AOC Sites	Location Code	Easting	Northing	Media	Depth (ft bgs)	Analyte	Analytical Method
		CW40-002	2087173 08	749468 30	surface soil	0-0 5'	Metals	6010A
		CW40-002	2087173 08	749468 30	surface soil	0-0 5'	PCBs	8082
		CW40-002	2087173 08	749468 30	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CW40-002	2087173 08	749468 30	subsurface soil	0 5'-2 5'	Metals	6010A
		CW40-002	2087173 08	749468 30	subsurface soil	0 5'-2 5'	VOCs	8260B
		CW40-002	2087173 08	749468 30	subsurface soil	0 5'-2 5'	PCBs	8082
		CW40-002	2087173 08	749468 30	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CW40-002	2087173 08	749468 30	subsurface soil	2 5-4 5'	Metals	6010A
		CW40-002	2087173 08	749468 30	subsurface soil	2 5-4 5'	VOCs	8260B
		CW40-002	2087173 08	749468 30	subsurface soil	2 5-4 5'	PCBs	8082
		CW40-002	2087173 08	749468 30	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CW40-002	2087173 08	749468 30	subsurface soil	4 5-6 5'	Metals	6010A
		CW40-002	2087173 08	749468 30	subsurface soil	4 5-6 5'	VOCs	8260B
		CW40-002	2087173 08	749468 30	subsurface soil	4 5-6 5'	PCBs	8082
		CW40-002	2087173 08	749468 30	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CW40-002	2087173 08	749468 30	subsurface soil	6 5-8 5'	metals	6010A
		CW40-002	2087173 08	749468 30	subsurface soil	6 5-8 5'	VOCs	8260B
		CW40-002	2087173 08	749468 30	subsurface soil	6 5-8 5'	PCBs	8082
		CW40-002	2087173 08	749468 30	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CW40-002	2087173 08	749468 30	subsurface soil	8 5-10 5'	Metals	6010A
		CW40-002	2087173 08	749468 30	subsurface soil	8 5-10 5'	VOCs	8260B
		CW40-002	2087173 08	749468 30	subsurface soil	8 5-10 5'	PCBs	8082
		CW40-003	2087207 75	749457 21	surface soil	0-0 5'	Radionuclides	HPGe
		CW40-003	2087207 75	749457 21	surface soil	0-0 5'	Metals	6010A
		CW40-003	2087207 75	749457 21	surface soil	0-0 5'	PCBs	8082
		CW40-003	2087207 75	749457 21	subsurface soil	0 5'-2 5'	Radionuclides	HPGe

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/AOC Site	Location Code	Easting	Northing	Media	Depth (bgs)	Analyte	Laboratory Method
		CW40-003	2087207 75	749457 21	subsurface soil	0 5'-2 5'	Metals	6010A
		CW40-003	2087207 75	749457 21	subsurface soil	0 5'-2 5'	VOCs	8260B
		CW40-003	2087207 75	749457 21	subsurface soil	0 5'-2 5'	PCBs	8082
		CW40-003	2087207 75	749457 21	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CW40-003	2087207 75	749457 21	subsurface soil	2 5-4 5'	Metals	6010A
		CW40-003	2087207 75	749457 21	subsurface soil	2 5-4 5'	VOCs	8260B
		CW40-003	2087207 75	749457 21	subsurface soil	2 5-4 5'	PCBs	8082
		CW40-003	2087207 75	749457 21	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CW40-003	2087207 75	749457 21	subsurface soil	4 5-6 5'	Metals	6010A
		CW40-003	2087207 75	749457 21	subsurface soil	4 5-6 5'	VOCs	8260B
		CW40-003	2087207 75	749457 21	subsurface soil	4 5-6 5'	PCBs	8082
		CW40-003	2087207 75	749457 21	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CW40-003	2087207 75	749457 21	subsurface soil	6 5-8 5'	Metals	6010A
		CW40-003	2087207 75	749457 21	subsurface soil	6 5-8 5'	VOCs	8260B
		CW40-003	2087207 75	749457 21	subsurface soil	6 5-8 5'	PCBs	8082
		CW40-003	2087207 75	749457 21	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CW40-003	2087207 75	749457 21	subsurface soil	8 5-10 5'	Metals	6010A
		CW40-003	2087207 75	749457 21	subsurface soil	8 5-10 5'	VOCs	8260B
		CW40-003	2087207 75	749457 21	subsurface soil	8 5-10 5'	PCBs	8082
		CW40-004	2087204 29	749479 75	surface soil	0-0 5'	Radionuclides	HPGe
		CW40-004	2087204 29	749479 75	surface soil	0-0 5'	Metals	6010A
		CW40-004	2087204 29	749479 75	surface soil	0-0 5'	PCBs	8082
		CW40-004	2087204 29	749479 75	subsurface soil	0 5'-2 5'	Radionuclides	HPGe
		CW40-004	2087204 29	749479 75	subsurface soil	0 5'-2 5'	Metals	6010A
		CW40-004	2087204 29	749479 75	subsurface soil	0 5'-2 5'	VOCs	8260B
		CW40-004	2087204 29	749479 75	subsurface soil	0 5'-2 5'	PCBs	8082

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/OU/SWMU Site	Location Code	Easting	Northing	Sample Type	Depth	Analyte	Method
		CW40-004	2087204 29	749479 75	subsurface soil	2 5-4 5'	Radionuclides	HPGe
		CW40-004	2087204 29	749479 75	subsurface soil	2 5-4 5'	Metals	6010A
		CW40-004	2087204 29	749479 75	subsurface soil	2 5-4 5'	VOCs	8260B
		CW40-004	2087204 29	749479 75	subsurface soil	2 5-4 5'	PCBs	8082
		CW40-004	2087204 29	749479 75	subsurface soil	4 5-6 5'	Radionuclides	HPGe
		CW40-004	2087204 29	749479 75	subsurface soil	4 5-6 5'	Metals	6010A
		CW40-004	2087204 29	749479 75	subsurface soil	4 5-6 5'	VOCs	8260B
		CW40-004	2087204 29	749479 75	subsurface soil	4 5-6 5'	PCBs	8082
		CW40-004	2087204 29	749479 75	subsurface soil	6 5-8 5'	Radionuclides	HPGe
		CW40-004	2087204 29	749479 75	subsurface soil	6 5-8 5'	Metals	6010A
		CW40-004	2087204 29	749479 75	subsurface soil	6 5-8 5'	VOCs	8260B
		CW40-004	2087204 29	749479 75	subsurface soil	6 5-8 5'	PCBs	8082
		CW40-004	2087204 29	749479 75	subsurface soil	8 5-10 5'	Radionuclides	HPGe
		CW40-004	2087204 29	749479 75	subsurface soil	8 5-10 5'	Metals	6010A
	PAC NE-1407 – OU 2 Treatment Facility	CV43-000	2087134 60	749980 95	surface soil	0-0 5'	Metals	6010A
		CV43-000	2087134 60	749980 95	subsurface soil	0-0 5'	VOCs	8260
		CV43-001	2087135 47	749967 93	surface soil	0-0 5'	Metals	6010A
		CV43-001	2087135 47	749967 93	subsurface soil	0-0 5'	VOCs	8260
		CW43-000	2087135 47	749967 93	surface soil	0-0 5'	Metals	6010A
		CW43-000	2087135 47	749967 93	subsurface soil	0-0 5'	VOCs	8260
		CW43-001	2087140 61	749975 88	surface soil	0-0 5'	Metals	6010A
		CW43-001	2087140 61	749975 88	subsurface soil	0-0 5'	VOCs	8260
		CW43-002	2087147 12	749969 73	surface soil	0-0 5'	Metals	6010A
		CW43-002	2087147 12	749969 73	subsurface soil	0-0 5'	VOCs	8260

Table 2 IHSS Group NE/NW Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UHC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Analytical Method
NW	IHSS 174a – Property Utilization and Disposal (PU&D) Yard and Drum Storage Area	BW52-000	2082020 64	751766 82	subsurface	TBD	Radionuclides	HPGe
							Metals	6010A
							VOCs	8260
							SVOCs	8270C
							Pesticides	8081A
							PCBs	8082

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus Standard Deviations	Industrial Worker Action Level	Ecological Receptor Action Level	Units
DB44-000	750231 30	2088317 84	4,4'-DDE	4 3	1 70	-	101000	-	ug/kg
DD43-000	750249 97	2088554 95	4,4'-DDE	5 8	1 80	-	101000	-	ug/kg
DD44-000	750275 17	2088472 83	4,4'-DDE	4	1 70	-	101000	-	ug/kg
CV41-004	749619 88	2087073 47	Acenaphthene	71	51 00	-	40800000	-	ug/kg
CV41-004	749619 88	2087073 47	Aluminum	23700	1 30	16902 00	228000	-	mg/kg
CV41-006	749621 22	2087106 37	Aluminum	17400	1 20	16902 00	228000	-	mg/kg
CW41-001	749648 07	2087163 44	Aluminum	18300	1 20	16902 00	228000	-	mg/kg
CW43-000	749981 91	2087145 35	Aluminum	17300	1 30	16902 00	228000	-	mg/kg
DB41-000	749574 27	2088280 51	Aluminum	18700	1 90	16902 00	228000	-	mg/kg
DB43-001	749963 51	2088226 91	Aluminum	17000	1 90	16902 00	228000	-	mg/kg
DB44-000	750231 30	2088317 84	Aluminum	17000	1 90	16902 00	228000	-	mg/kg
DC42-000	749918 10	2088478 64	Aluminum	18100	1 90	16902 00	228000	-	mg/kg
DC43-000	750152 87	2088442 46	Aluminum	17900	1 90	16902 00	228000	-	mg/kg
DD40-000	749572 23	2088585 28	Aluminum	21200	2 00	16902 00	228000	-	mg/kg
DD43-000	750249 97	2088554 95	Aluminum	27400	1 90	16902 00	228000	-	mg/kg
DD44-000	750275 17	2088472 83	Aluminum	21600	1 90	16902 00	228000	-	mg/kg
DE40-000	749552 11	2088809 06	Aluminum	22500	1 90	16902 00	228000	-	mg/kg
DE42-000	749946 42	2088837 41	Aluminum	21600	1 90	16902 00	228000	-	mg/kg
DF42-000	749906 57	2089129 65	Aluminum	17100	1 90	16902 00	228000	-	mg/kg
DG41-000	749743 20	2089312 89	Aluminum	17000	1 90	16902 00	228000	-	mg/kg
DG41-001	749648 40	2089248 07	Aluminum	18800	2 20	16902 00	228000	-	mg/kg
DH43-000	749991 19	2089365 30	Aluminum	17100	1 90	16902 00	228000	-	mg/kg
CV41-006	749621 22	2087106 37	Americium-241	0 7006	0 51	0 02	76	1900	pCi/g
CV41-006	749621 22	2087106 37	Americium-241	0 952	0 62	0 02	76	1900	pCi/g
CV41-006	749621 22	2087106 37	Americium-241	0 641	0 46	0 02	76	1900	pCi/g

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Units
CW40-001	749448 88	2087145 33	Americium-241	5 3	0 72	0 02	76	1900	pCi/g
CW40-001	749448 88	2087145 33	Americium-241	4 85	0 67	0 02	76	1900	pCi/g
CW40-001	749448 88	2087145 33	Americium-241	2 9	0 48	0 02	76	1900	pCi/g
CW40-001	749448 88	2087145 33	Americium-241	3 319	0 55	0 02	76	1900	pCi/g
CW40-002	749468 30	2087173 08	Americium-241	2 62	0 50	0 02	76	1900	pCi/g
CW40-002	749468 30	2087173 08	Americium-241	3	0 54	0 02	76	1900	pCi/g
CW40-003	749457 21	2087207 75	Americium-241	10 5	0 21	0 02	76	1900	pCi/g
CW40-004	749479 75	2087204 29	Americium-241	1	0 63	0 02	76	1900	pCi/g
CW40-004	749479 75	2087204 29	Americium-241	1 05	0 56	0 02	76	1900	pCi/g
CW40-004	749479 75	2087204 29	Americium-241	1 05	0 56	0 02	76	1900	pCi/g
CW40-004	749479 75	2087204 29	Americium-241	0 785	0 38	0 02	76	1900	pCi/g
DB41-000	749574 27	2088280 51	Americium-241	2	0 68	0 02	76	1900	pCi/g
DB41-000	749574 27	2088280 51	Americium-241	0 714	0 43	0 02	76	1900	pCi/g
DB41-000	749574 27	2088280 51	Americium-241	0 7912	0 47	0 02	76	1900	pCi/g
DB44-000	750231 30	2088317 84	Americium-241	0 747	0 56	0 02	76	1900	pCi/g
DC41-000	749715 79	2088426 17	Americium-241	1 16	0 69	0 02	76	1900	pCi/g
DC43-000	750152 87	2088442 46	Americium-241	0 807	0 73	0 02	76	1900	pCi/g
DD42-000	749777 16	2088664 41	Americium-241	1 58	0 56	0 02	76	1900	pCi/g
DD43-000	750249 97	2088554 95	Americium-241	1 86	0 71	0 02	76	1900	pCi/g
DD43-000	750249 97	2088554 95	Americium-241	0 837	0 43	0 02	76	1900	pCi/g
DD43-000	750249 97	2088554 95	Americium-241	0 9059	0 46	0 02	76	1900	pCi/g
DD44-000	750275 17	2088472 83	Americium-241	1	0 75	0 02	76	1900	pCi/g
DF42-000	749906 57	2089129 65	Americium-241	1 39	0 65	0 02	76	1900	pCi/g
STEP OUT 3 - A	749635 15	2087116 33	Anthracene	220	72 00	-	204000000	-	ug/kg
STEP OUT 4 - A	749616 62	2087113 72	Anthracene	220	70 00	-	204000000	-	ug/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Rating Worker Action Level	Ecological Receptor Action Level	Units
CV41-001	749570 86	2086994 24	Aroclor-1254	38	6 80	-	12400	371000	ug/kg
CV41-004	749619 88	2087073 47	Aroclor-1254	28	6 70	-	12400	371000	ug/kg
CW40-001	749448 88	2087145 33	Aroclor-1254	200	4 70	-	12400	371000	ug/kg
CW40-002	749468 30	2087173 08	Aroclor-1254	120	4 60	-	12400	371000	ug/kg
CW40-003	749457 21	2087207 75	Aroclor-1254	110	4 40	-	12400	371000	ug/kg
CW40-004	749479 75	2087204 29	Aroclor-1254	530	33 00	-	12400	371000	ug/kg
CW40-004	749479 75	2087204 29	Aroclor-1254	220	4 60	-	12400	371000	ug/kg
DB41-000	749574 27	2088280 51	Aroclor-1254	11	6 30	-	12400	371000	ug/kg
DB43-001	749963 51	2088226 91	Aroclor-1254	39	6 40	-	12400	371000	ug/kg
DC42-000	749918 10	2088478 64	Aroclor-1254	7 6	6 50	-	12400	371000	ug/kg
DD40-000	749572 23	2088585 28	Aroclor-1254	11	6 60	-	12400	371000	ug/kg
DD42-000	749777 16	2088664 41	Aroclor-1254	6 8	6 40	-	12400	371000	ug/kg
DD43-000	750249 97	2088554 95	Aroclor-1254	74	6 80	-	12400	371000	ug/kg
DD43-001	750003 07	2088550 71	Aroclor-1254	27	6 50	-	12400	371000	ug/kg
DE40-000	749552 11	2088809 06	Aroclor-1254	9 1	6 40	-	12400	371000	ug/kg
DG41-001	749648 40	2089248 07	Aroclor-1254	8 2	7 80	-	12400	371000	ug/kg
DH43-000	749991 19	2089365 30	Aroclor-1254	190	6 30	-	12400	371000	ug/kg
CV41-001	749570 86	2086994 24	Aroclor-1260	24	5 40	-	12400	-	ug/kg
CV41-004	749619 88	2087073 47	Aroclor-1260	37	5 30	-	12400	-	ug/kg
CV41-006	749621 22	2087106 37	Aroclor-1260	9	4 90	-	12400	-	ug/kg
CW40-001	749448 88	2087145 33	Aroclor-1260	180	5 20	-	12400	-	ug/kg
CW40-002	749468 30	2087173 08	Aroclor-1260	84	5 10	-	12400	-	ug/kg
CW40-003	749457 21	2087207 75	Aroclor-1260	42	5 00	-	12400	-	ug/kg
CW40-004	749479 75	2087204 29	Aroclor-1260	240	26 00	-	12400	-	ug/kg
CW40-004	749479 75	2087204 29	Aroclor-1260	190	5 20	-	12400	-	ug/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus Two Standard Deviations	Human Risk Based Action Level	Ecological Risk Based Action Level	Units
CW41-001	749648 07	2087163 44	Aroclor-1260	7 5	4 90	-	12400	-	ug/kg
DB41-000	749574 27	2088280 51	Aroclor-1260	9 1	5 00	-	12400	-	ug/kg
DD43-000	750249 97	2088554 95	Aroclor-1260	16	5 40	-	12400	-	ug/kg
DF41-000	749737 05	2089000 19	Aroclor-1260	6 2	5 20	-	12400	-	ug/kg
DH43-000	749991 19	2089365 30	Aroclor-1260	32	5 00	-	12400	-	ug/kg
CW40-001	749448 88	2087145 33	Barium	144	0 04	141 26	26400	-	mg/kg
CW40-002	749468 30	2087173 08	Barium	202	0 04	141 26	26400	-	mg/kg
CW40-003	749457 21	2087207 75	Barium	146	0 04	141 26	26400	-	mg/kg
CW40-004	749479 75	2087204 29	Barium	152	0 04	141 26	26400	-	mg/kg
CW40-004	749479 75	2087204 29	Barium	160	0 04	141 26	26400	-	mg/kg
DC41-000	749715 79	2088426 17	Barium	154	0 06	141 26	26400	-	mg/kg
DD43-000	750249 97	2088554 95	Barium	149	0 06	141 26	26400	-	mg/kg
DD43-001	750003 07	2088550 71	Barium	158	0 06	141 26	26400	-	mg/kg
CV41-001	749570 86	2086994 24	Benzo(a)anthracene	54	44 00	-	34900	800000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(a)anthracene	220	43 00	-	34900	800000	ug/kg
CV41-006	749621 22	2087106 37	Benzo(a)anthracene	91	40 00	-	34900	800000	ug/kg
DB43-001	749963 51	2088226 91	Benzo(a)anthracene	76	42 00	-	34900	800000	ug/kg
DD42-000	749777 16	2088664 41	Benzo(a)anthracene	46	41 00	-	34900	800000	ug/kg
DD43-000	750249 97	2088554 95	Benzo(a)anthracene	55	43 00	-	34900	800000	ug/kg
DD44-000	750275 17	2088472 83	Benzo(a)anthracene	55	42 00	-	34900	800000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(a)pyrene	290	100 00	-	3490	25700	ug/kg
CV41-006	749621 22	2087106 37	Benzo(a)pyrene	110	97 00	-	3490	25700	ug/kg
CV41-004	749619 88	2087073 47	Benzo(b)fluoranthene	230	110 00	-	34900	1010000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(k)fluoranthene	210	100 00	-	349000	1010000	ug/kg
CV41-006	749621 22	2087106 37	Benzo(k)fluoranthene	110	96 00	-	349000	1010000	ug/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Units
CV41-001	749570 86	2086994 24	Benzoic Acid	920	640 00	-	1000000000	-	ug/kg
STEP OUT 4 - A	749616 62	2087113 72	Benzoic Acid	880	300 00	-	1000000000	-	ug/kg
CV41-004	749619 88	2087073 47	Beryllium	1	0 03	0 97	921	2 15	mg/kg
DC41-000	749715 79	2088426 17	Beryllium	1 3	0 06	0 97	921	2 15	mg/kg
DE40-000	749552 11	2088809 06	Beryllium	0 99	0 05	0 97	921	2 15	mg/kg
DB44-000	750231 30	2088317 84	bis(2-Ethylhexyl)phthalate	190	74 00	-	1970000	-	ug/kg
DC43-000	750152 87	2088442 46	bis(2-Ethylhexyl)phthalate	470	76 00	-	1970000	-	ug/kg
DD43-000	750249 97	2088554 95	bis(2-Ethylhexyl)phthalate	390	76 00	-	1970000	-	ug/kg
DD44-000	750275 17	2088472 83	bis(2-Ethylhexyl)phthalate	330	74 00	-	1970000	-	ug/kg
CW41-001	749648 07	2087163 44	Cadmium	2 6	0 05	1 61	962	-	mg/kg
CV41-004	749619 88	2087073 47	Chromium	21 5	0 06	16 99	268	-	mg/kg
CV43-000	749980 95	2087134 60	Chromium	31 1	0 05	16 99	268	-	mg/kg
CW43-000	749981 91	2087145 35	Chromium	23	0 05	16 99	268	-	mg/kg
CW43-001	749975 88	2087140 61	Chromium	23 4	0 05	16 99	268	-	mg/kg
DB41-000	749574 27	2088280 51	Chromium	17 1	0 36	16 99	268	-	mg/kg
DC42-000	749918 10	2088478 64	Chromium	17 8	0 38	16 99	268	-	mg/kg
DD40-000	749572 23	2088585 28	Chromium	28 6	0 39	16 99	268	-	mg/kg
DD43-000	750249 97	2088554 95	Chromium	21 7	0 38	16 99	268	-	mg/kg
DD44-000	750275 17	2088472 83	Chromium	18 5	0 37	16 99	268	-	mg/kg
DE40-000	749552 11	2088809 06	Chromium	20 1	0 37	16 99	268	-	mg/kg
DE42-000	749946 42	2088837 41	Chromium	19 7	0 38	16 99	268	-	mg/kg
CV41-001	749570 86	2086994 24	Chrysene	89	60 00	-	3490000	-	ug/kg
CV41-004	749619 88	2087073 47	Chrysene	300	59 00	-	3490000	-	ug/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus Two Standard Deviations	Industrial Area Action Level	Industrial Area Action Level	Units
CV41-006	749621 22	2087106 37	Chrysene	120	55 00	-	3490000	-	ug/kg
DB43-001	749963 51	2088226 91	Chrysene	84	57 00	-	3490000	-	ug/kg
DD42-000	749777 16	2088664 41	Chrysene	64	56 00	-	3490000	-	ug/kg
DD43-000	750249 97	2088554 95	Chrysene	61	59 00	-	3490000	-	ug/kg
DD44-000	750275 17	2088472 83	Chrysene	74	57 00	-	3490000	-	ug/kg
DC41-000	749715 79	2088426 17	Cobalt	21 6	0 37	10 91	1550	-	mg/kg
CV43-000	749980 95	2087134 60	Copper	36 9	0 16	18 06	40900	-	mg/kg
CW43-000	749981 91	2087145 35	Copper	27 3	0 16	18 06	40900	-	mg/kg
CW43-001	749975 88	2087140 61	Copper	31 3	0 15	18 06	40900	-	mg/kg
DC41-000	749715 79	2088426 17	Copper	19 7	0 20	18 06	40900	-	mg/kg
DD40-000	749572 23	2088585 28	Copper	27 8	0 20	18 06	40900	-	mg/kg
DD43-000	750249 97	2088554 95	Copper	18 7	0 19	18 06	40900	-	mg/kg
DE40-000	749552 11	2088809 06	Copper	20 3	0 19	18 06	40900	-	mg/kg
DF42-000	749906 57	2089129 65	Copper	36 7	0 19	18 06	40900	-	mg/kg
DB44-000	750231 30	2088317 84	Dieldrin	4 3	2 90	-	1720	-	ug/kg
DD43-000	750249 97	2088554 95	Dieldrin	5 8	3 10	-	1720	-	ug/kg
DB44-000	750231 30	2088317 84	Endrin	4 5	2 00	-	221000	-	ug/kg
DD43-000	750249 97	2088554 95	Endrin	5 1	2 20	-	221000	-	ug/kg
DD44-000	750275 17	2088472 83	Endrin	4 8	2 00	-	221000	-	ug/kg
CV41-001	749570 86	2086994 24	Fluoranthene	160	94 00	-	27200000	-	ug/kg
CV41-004	749619 88	2087073 47	Fluoranthene	620	93 00	-	27200000	-	ug/kg
CV41-006	749621 22	2087106 37	Fluoranthene	230	86 00	-	27200000	-	ug/kg
CW41-001	749648 07	2087163 44	Fluoranthene	89	86 00	-	27200000	-	ug/kg
DB41-000	749574 27	2088280 51	Fluoranthene	99	87 00	-	27200000	-	ug/kg
DB43-001	749963 51	2088226 91	Fluoranthene	160	90 00	-	27200000	-	ug/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
DC43-000	750152 87	2088442 46	Fluoranthene	160	-	-	27200000	-	ug/kg
DD42-000	749777 16	2088664 41	Fluoranthene	130	88 00	-	27200000	-	ug/kg
DD43-000	750249 97	2088554 95	Fluoranthene	150	93 00	-	27200000	-	ug/kg
DE40-000	749552 11	2088809 06	Fluoranthene	91	89 00	-	27200000	-	ug/kg
STEP OUT 3 - A	749635 15	2087116 33	Fluoranthene	240	43 00	-	27200000	-	ug/kg
STEP OUT 4 - A	749616 62	2087113 72	Fluoranthene	230	42 00	-	27200000	-	ug/kg
CV41-001	749570 86	2086994 24	Indeno(1,2,3-cd)pyrene	72	54 00	-	34900	-	ug/kg
CV41-004	749619 88	2087073 47	Indeno(1,2,3-cd)pyrene	180	53 00	-	34900	-	ug/kg
CV43-000	749980 95	2087134 60	Iron	21900	1 50	18037 00	307000	-	mg/kg
CW43-000	749981 91	2087145 35	Iron	18600	1 50	18037 00	307000	-	mg/kg
CW43-001	749975 88	2087140 61	Iron	20300	1 40	18037 00	307000	-	mg/kg
DC41-000	749715 79	2088426 17	Iron	23800	1 80	18037 00	307000	-	mg/kg
DD40-000	749572 23	2088585 28	Iron	19000	1 80	18037 00	307000	-	mg/kg
DE40-000	749552 11	2088809 06	Iron	18400	1 70	18037 00	307000	-	mg/kg
CV41-001	**749570 86**	**2086994.24**	**Lead**	**35 3**	**0 21**	**54.62**	**1000**	**25 6**	**mg/kg**
CW40-001	**749448 88**	**2087145 33**	**Lead**	**44 3**	**0 21**	**54 62**	**1000**	**25 6**	**mg/kg**
CW40-002	**749468 30**	**2087173 08**	**Lead**	**35**	**0 20**	**54.62**	**1000**	**25.6**	**mg/kg**
CW40-003	**749457 21**	**2087207 75**	**Lead**	**39 7**	**0 20**	**54.62**	**1000**	**25 6**	**mg/kg**
CW40-004	**749479 75**	**2087204 29**	**Lead**	**26 8**	**0 21**	**54 62**	**1000**	**25 6**	**mg/kg**
CW40-004	**749479 75**	**2087204 29**	**Lead**	**43 6**	**0 21**	**54 62**	**1000**	**25.6**	**mg/kg**
DB41-000	**749574 27**	**2088280.51**	**Lead**	**26.4**	**0 21**	**54 62**	**1000**	**25.6**	**mg/kg**
DB43-001	**749963 51**	**2088226 91**	**Lead**	**44 6**	**0 21**	**54 62**	**1000**	**25 6**	**mg/kg**
DB44-000	**750231 30**	**2088317 84**	**Lead**	**34**	**0 21**	**54 62**	**1000**	**25.6**	**mg/kg**
DC42-000	**749918 10**	**2088478 64**	**Lead**	**39 1**	**0 22**	**54 62**	**1000**	**25.6**	**mg/kg**
DD42-000	**749777 16**	**2088664 41**	**Lead**	**29 9**	**0 21**	**54.62**	**1000**	**25.6**	**mg/kg**

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Worker Action Level	Industrial Receptor Action Level	Units
DD43-000	**750249.97**	**2088554.95**	**Lead**	**67 8**	**0 22**	**54 62**	**1000**	**25.6**	**mg/kg**
DD43-001	**750003 07**	**2088550 71**	**Lead**	**33 4**	**0 22**	**54 62**	**1000**	**25 6**	**mg/kg**
DD44-000	**750275.17**	**2088472 83**	**Lead**	**32**	**0 21**	**54 62**	**1000**	**25.6**	**mg/kg**
DE40-000	**749552 11**	**2088809 06**	**Lead**	**34 2**	**0 21**	**54 62**	**1000**	**25 6**	**mg/kg**
DE42-000	**749946 42**	**2088837 41**	**Lead**	**45**	**0 22**	**54 62**	**1000**	**25 6**	**mg/kg**
DF42-000	**749906.57**	**2089129.65**	**Lead**	**39 1**	**0 21**	**54 62**	**1000**	**25 6**	**mg/kg**
DG41-001	**749648 40**	**2089248 07**	**Lead**	**26 6**	**0 24**	**54 62**	**1000**	**25 6**	**mg/kg**
DH43-000	**749991 19**	**2089365 30**	**Lead**	**38.8**	**0 21**	**54 62**	**1000**	**25.6**	**mg/kg**
CV41-004	749619 88	2087073 47	Lithium	16 5	0 19	11 55	20400	-	mg/kg
CV41-006	749621 22	2087106 37	Lithium	13 3	0 17	11 55	20400	-	mg/kg
CV43-001	749967 93	2087135 47	Lithium	12	0 17	11 55	20400	-	mg/kg
CW40-004	749479 75	2087204 29	Lithium	11 9	0 18	11 55	20400	-	mg/kg
CW41-001	749648 07	2087163 44	Lithium	15 1	0 17	11 55	20400	-	mg/kg
CW43-000	749981 91	2087145 35	Lithium	13 4	0 18	11 55	20400	-	mg/kg
CW43-001	749975 88	2087140 61	Lithium	12 5	0 17	11 55	20400	-	mg/kg
CW43-002	749969 73	2087147 12	Lithium	12	0 17	11 55	20400	-	mg/kg
DB41-000	749574 27	2088280 51	Lithium	16 2	0 25	11 55	20400	-	mg/kg
DB43-000	750163 83	2088219 15	Lithium	11 7	0 26	11 55	20400	-	mg/kg
DB43-001	749963 51	2088226 91	Lithium	13 6	0 25	11 55	20400	-	mg/kg
DB44-000	750231 30	2088317 84	Lithium	13 6	0 25	11 55	20400	-	mg/kg
DC40-000	749412 32	2088396 73	Lithium	13 2	0 26	11 55	20400	-	mg/kg
DC42-000	749918 10	2088478 64	Lithium	16	0 26	11 55	20400	-	mg/kg
DC43-000	750152 87	2088442 46	Lithium	14 8	0 26	11 55	20400	-	mg/kg
DD40-000	749572 23	2088585 28	Lithium	23 7	0 26	11 55	20400	-	mg/kg
DD43-000	750249 97	2088554 95	Lithium	25 1	0 26	11 55	20400	-	mg/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Range Worker Action Level	Ecological Receptor Action Level	Units
DD44-000	750275 17	2088472 83	Lithium	16 7	0 26	11 55	20400	-	mg/kg
DE40-000	749552 11	2088809 06	Lithium	19 5	0 25	11 55	20400	-	mg/kg
DE42-000	749946 42	2088837 41	Lithium	15 4	0 26	11 55	20400	-	mg/kg
DF41-000	749737 05	2089000 19	Lithium	11 6	0 26	11 55	20400	-	mg/kg
DF42-000	749906 57	2089129 65	Lithium	15 4	0 25	11 55	20400	-	mg/kg
DG41-000	749743 20	2089312 89	Lithium	12 2	0 25	11 55	20400	-	mg/kg
DG41-001	749648 40	2089248 07	Lithium	15 4	0 29	11 55	20400	-	mg/kg
DH43-000	749991 19	2089365 30	Lithium	12 6	0 25	11 55	20400	-	mg/kg
CV43-000	749980 95	2087134 60	Manganese	436	0 03	365 08	3480	-	mg/kg
CW43-001	749975 88	2087140 61	Manganese	392	0 03	365 08	3480	-	mg/kg
DG41-000	749743 20	2089312 89	Manganese	380	0 04	365 08	3480	-	mg/kg
DG41-001	749648 40	2089248 07	Manganese	438	0 05	365 08	3480	-	mg/kg
CW40-004	749479 75	2087204 29	Mercury	0 16	0 00	0 13	25200	-	mg/kg
CW41-001	749648 07	2087163 44	Mercury	0 15	0 00	0 13	25200	-	mg/kg
DB44-000	750231 30	2088317 84	Methoxychlor	3 4	0 91	-	5110000	-	ug/kg
DD43-000	750249 97	2088554 95	Methoxychlor	9 4	0 98	-	5110000	-	ug/kg
DD44-000	750275 17	2088472 83	Methoxychlor	3	0 91	-	5110000	-	ug/kg
BW52-000	751772 30	2082012 80	Methylene chloride	1 5	0 80	-	2530000	39500	ug/kg
DD44-000	750275 17	2088472 83	Methylene chloride	220	-	-	2530000	39500	ug/kg
CV41-004	749619 88	2087073 47	Nickel	19 3	0 70	14 91	20400	-	mg/kg
CV43-000	749980 95	2087134 60	Nickel	28 3	0 66	14 91	20400	-	mg/kg
CW40-003	749457 21	2087207 75	Nickel	15 6	0 65	14 91	20400	-	mg/kg
CW40-004	749479 75	2087204 29	Nickel	15 1	0 69	14 91	20400	-	mg/kg
CW40-004	749479 75	2087204 29	Nickel	17 3	0 68	14 91	20400	-	mg/kg
CW41-001	749648 07	2087163 44	Nickel	15 7	0 65	14 91	20400	-	mg/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Worker Action Level	Residential Receptor Action Level	Unit
CW43-000	749981 91	2087145 35	Nickel	20 5	0 66	14 91	20400	-	mg/kg
CW43-001	749975 88	2087140 61	Nickel	21 7	0 64	14 91	20400	-	mg/kg
DC41-000	749715 79	2088426 17	Nickel	48 4	0 47	14 91	20400	-	mg/kg
DC43-000	750152 87	2088442 46	Nickel	15 6	0 47	14 91	20400	-	mg/kg
DD40-000	749572 23	2088585 28	Nickel	22 6	0 47	14 91	20400	-	mg/kg
DD43-000	750249 97	2088554 95	Nickel	18 8	0 46	14 91	20400	-	mg/kg
DE40-000	749552 11	2088809 06	Nickel	15 3	0 45	14 91	20400	-	mg/kg
DG41-001	749648 40	2089248 07	Nickel	21 3	0 52	14 91	20400	-	mg/kg
CV41-006	749621 22	2087106 37	Plutonium-239/240	8 41928	0 46	0 07	50	3800	pCi/g
CV41-006	749621 22	2087106 37	Plutonium-239/240	8 900848	0 51	0 07	50	3800	pCi/g
CV41-006	749621 22	2087106 37	Plutonium-239/240	10 93216	0 62	0 07	50	3800	pCi/g
CW40-001	749448 88	2087145 33	Plutonium-239/240	46 064	0 72	0 07	50	3800	pCi/g
CW40-001	749448 88	2087145 33	Plutonium-239/240	26 672	0 48	0 07	50	3800	pCi/g
CW40-001	749448 88	2087145 33	Plutonium-239/240	42 428	0 67	0 07	50	3800	pCi/g
CW40-001	749448 88	2087145 33	Plutonium-239/240	30 05752	0 55	0 07	50	3800	pCi/g
CW40-002	749468 30	2087173 08	Plutonium-239/240	24 4096	0 50	0 07	50	3800	pCi/g
CW40-002	749468 30	2087173 08	Plutonium-239/240	27 48	0 54	0 07	50	3800	pCi/g
CW40-003	**749457.21**	**2087207 75**	**Plutonium-239/240**	**88 08**	**0 21**	**0 07**	**50**	**3800**	**pCi/g**
CW40-004	749479 75	2087204 29	Plutonium-239/240	11 724	0 56	0 07	50	3800	pCi/g
CW40-004	749479 75	2087204 29	Plutonium-239/240	11 32	0 63	0 07	50	3800	pCi/g
CW40-004	749479 75	2087204 29	Plutonium-239/240	9 5828	0 38	0 07	50	3800	pCi/g
CW40-004	749479 75	2087204 29	Plutonium-239/240	11 724	0 56	0 07	50	3800	pCi/g
DB41-000	749574 27	2088280 51	Plutonium-239/240	19 4	0 68	0 07	50	3800	pCi/g
DB41-000	749574 27	2088280 51	Plutonium-239/240	9 632896	0 47	0 07	50	3800	pCi/g
DB41-000	749574 27	2088280 51	Plutonium-239/240	9 00912	0 43	0 07	50	3800	pCi/g

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Ultra Trace Worker Action Level	Residential Receptor Action Level	Unit
DB44-000	750231 30	2088317 84	Plutonium-239/240	9 27576	0 56	0 07	50	3800	pCi/g
DC41-000	749715 79	2088426 17	Plutonium-239/240	12 6128	0 69	0 07	50	3800	pCi/g
DC43-000	750152 87	2088442 46	Plutonium-239/240	9 76056	0 73	0 07	50	3800	pCi/g
DD42-000	749777 16	2088664 41	Plutonium-239/240	16 0064	0 56	0 07	50	3800	pCi/g
DD43-000	750249 97	2088554 95	Plutonium-239/240	18 2688	0 71	0 07	50	3800	pCi/g
DD43-000	750249 97	2088554 95	Plutonium-239/240	10 00296	0 43	0 07	50	3800	pCi/g
DD43-000	750249 97	2088554 95	Plutonium-239/240	10 55967	0 46	0 07	50	3800	pCi/g
DD44-000	750275 17	2088472 83	Plutonium-239/240	11 32	0 75	0 07	50	3800	pCi/g
DF42-000	749906 57	2089129 65	Plutonium-239/240	14 4712	0 65	0 07	50	3800	pCi/g
CV41-001	749570 86	2086994 24	Pyrene	160	45 00	-	22100000	-	ug/kg
CV41-004	749619 88	2087073 47	Pyrene	640	44 00	-	22100000	-	ug/kg
CV41-006	749621 22	2087106 37	Pyrene	230	41 00	-	22100000	-	ug/kg
CW40-001	749448 88	2087145 33	Pyrene	65	44 00	-	22100000	-	ug/kg
CW40-004	749479 75	2087204 29	Pyrene	48	44 00	-	22100000	-	ug/kg
CW41-001	749648 07	2087163 44	Pyrene	79	41 00	-	22100000	-	ug/kg
DB41-000	749574 27	2088280 51	Pyrene	100	42 00	-	22100000	-	ug/kg
DB43-000	750163 83	2088219 15	Pyrene	87	42 00	-	22100000	-	ug/kg
DB43-001	749963 51	2088226 91	Pyrene	170	43 00	-	22100000	-	ug/kg
DB44-000	750231 30	2088317 84	Pyrene	46	43 00	-	22100000	-	ug/kg
DC41-000	749715 79	2088426 17	Pyrene	50	45 00	-	22100000	-	ug/kg
DC42-000	749918 10	2088478 64	Pyrene	53	42 00	-	22100000	-	ug/kg
DC43-000	750152 87	2088442 46	Pyrene	60	44 00	-	22100000	-	ug/kg
DD40-000	749572 23	2088585 28	Pyrene	54	44 00	-	22100000	-	ug/kg
DD42-000	749777 16	2088664 41	Pyrene	130	42 00	-	22100000	-	ug/kg
DD43-000	750249 97	2088554 95	Pyrene	130	44 00	-	22100000	-	ug/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Worker Action Level	Ecological Receptor Action Level	Units
DD44-000	750275 17	2088472 83	Pyrene	130	43 00	-	22100000	-	ug/kg
DE40-000	749552 11	2088809 06	Pyrene	93	42 00	-	22100000	-	ug/kg
DE42-000	749946 42	2088837 41	Pyrene	81	43 00	-	22100000	-	ug/kg
DF41-000	749737 05	2089000 19	Pyrene	51	43 00	-	22100000	-	ug/kg
DF42-000	749906 57	2089129 65	Pyrene	67	43 00	-	22100000	-	ug/kg
DG41-000	749743 20	2089312 89	Pyrene	43	42 00	-	22100000	-	ug/kg
STEP OUT 3 - A	749635 15	2087116 33	Pyrene	240	62 00	-	22100000	-	ug/kg
STEP OUT 4 - A	749616 62	2087113 72	Pyrene	230	61 00	-	22100000	-	ug/kg
DD40-000	749572 23	2088585 28	Selenium	1 4	0 44	1 22	5110	-	mg/kg
DD42-000	749777 16	2088664 41	Selenium	1 9	0 43	1 22	5110	-	mg/kg
DE40-000	749552 11	2088809 06	Selenium	1 6	0 42	1 22	5110	-	mg/kg
DG41-001	749648 40	2089248 07	Selenium	1 4	0 48	1 22	5110	-	mg/kg
CV43-000	749980 95	2087134 60	Strontium	84 2	0 01	48 94	613000	-	mg/kg
CW40-001	749448 88	2087145 33	Strontium	170	0 01	48 94	613000	-	mg/kg
CW40-002	749468 30	2087173 08	Strontium	362	0 01	48 94	613000	-	mg/kg
CW40-003	749457 21	2087207 75	Strontium	136	0 01	48 94	613000	-	mg/kg
CW40-004	749479 75	2087204 29	Strontium	169	0 01	48 94	613000	-	mg/kg
CW40-004	749479 75	2087204 29	Strontium	165	0 01	48 94	613000	-	mg/kg
CW41-001	749648 07	2087163 44	Strontium	69 6	0 01	48 94	613000	-	mg/kg
CW43-000	749981 91	2087145 35	Strontium	53 1	0 01	48 94	613000	-	mg/kg
CW43-001	749975 88	2087140 61	Strontium	56 1	0 01	48 94	613000	-	mg/kg
DC40-000	749412 32	2088396 73	Strontium	87 7	0 02	48 94	613000	-	mg/kg
DC43-000	750152 87	2088442 46	Strontium	63 4	0 02	48 94	613000	-	mg/kg
DD40-000	749572 23	2088585 28	Strontium	50 5	0 02	48 94	613000	-	mg/kg
DD43-000	750249 97	2088554 95	Strontium	57 5	0 02	48 94	613000	-	mg/kg

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Human Health Worker Action Level	Ecological Receptor Action Level	Unit
DD43-001	750003 07	2088550 71	Strontium	194	0 02	48 94	613000	-	mg/kg
BW52-000	751772 30	2082012 80	Tetrachloroethene	10	0 99	-	615000	37500	ug/kg
BW52-000	751772 30	2082012 80	Uranium-234	3 76	1 95	2 25	300	1800	pCi/g
BW52-000	751772 30	2082012 80	Uranium-234	3 917	2 03	2 25	300	1800	pCi/g
CV41-006	749621 22	2087106 37	Uranium-234	3 771	2 03	2 25	300	1800	pCi/g
CV41-006	749621 22	2087106 37	Uranium-234	3 45	1 86	2 25	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	3 76	1 50	2 25	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	4 7	2 10	2 25	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	4 304	1 72	2 25	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	5	2 28	2 25	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	8	3 75	2 25	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	6 97	3 47	2 25	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	5	2 18	2 25	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	4 24	1 92	2 25	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	4 24	1 92	2 25	300	1800	pCi/g
CW41-002	749622 56	2087178 88	Uranium-234	4 7	2 14	2 25	300	1800	pCi/g
CW41-002	749622 56	2087178 88	Uranium-234	4 61	2 10	2 25	300	1800	pCi/g
DB41-000	749574 27	2088280 51	Uranium-234	4 067	1 73	2 25	300	1800	pCi/g
DB41-000	749574 27	2088280 51	Uranium-234	2 65	1 83	2 25	300	1800	pCi/g
DB41-000	749574 27	2088280 51	Uranium-234	3 67	1 56	2 25	300	1800	pCi/g
DB43-000	750163 83	2088219 15	Uranium-234	2 76	1 31	2 25	300	1800	pCi/g
DB44-000	750231 30	2088317 84	Uranium-234	2 7	1 27	2 25	300	1800	pCi/g
DC42-000	749918 10	2088478 64	Uranium-234	2 61	1 59	2 25	300	1800	pCi/g
DD42-000	749777 16	2088664 41	Uranium-234	2 86	1 78	2 25	300	1800	pCi/g
DD43-000	750249 97	2088554 95	Uranium-234	4 546	1 68	2 25	300	1800	pCi/g

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Range Worker Action Level	Ecological Receptor Action Level	Unit
DD43-000	750249 97	2088554 95	Uranium-234	4 2	1 55	2 25	300	1800	pCi/g
DD43-001	750003 07	2088550 71	Uranium-234	2 72	2 08	2 25	300	1800	pCi/g
DF42-000	749906 57	2089129 65	Uranium-234	2 26	1 42	2 25	300	1800	pCi/g
BW52-000	751772 30	2082012 80	Uranium-235	0 249	0 17	0 09	8	1900	pCi/g
BW52-000	751772 30	2082012 80	Uranium-235	0 2594	0 17	0 09	8	1900	pCi/g
CV41-001	749570 86	2086994 24	Uranium-235	0 134	0 13	0 09	8	1900	pCi/g
CV41-006	749621 22	2087106 37	Uranium-235	0 191	0 12	0 09	8	1900	pCi/g
CV41-006	749621 22	2087106 37	Uranium-235	0 2087	0 13	0 09	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	0 313	0 23	0 09	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	0 277	0 11	0 09	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	0 3	0 25	0 09	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	0 242	0 09	0 09	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	0 3	0 23	0 09	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	0 238	0 21	0 09	8	1900	pCi/g
CW40-003	749457 21	2087207 75	Uranium-235	0 169	0 10	0 09	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	0 5	0 24	0 09	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	0 439	0 21	0 09	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	0 439	0 21	0 09	8	1900	pCi/g
DB41-000	749574 27	2088280 51	Uranium-235	0 2294	0 15	0 09	8	1900	pCi/g
DB41-000	749574 27	2088280 51	Uranium-235	0 207	0 14	0 09	8	1900	pCi/g
DB43-000	750163 83	2088219 15	Uranium-235	0 211	0 09	0 09	8	1900	pCi/g
DB43-001	749963 51	2088226 91	Uranium-235	0 24	0 14	0 09	8	1900	pCi/g
DB44-000	750231 30	2088317 84	Uranium-235	0 174	0 09	0 09	8	1900	pCi/g
DC41-000	749715 79	2088426 17	Uranium-235	0 148	0 10	0 09	8	1900	pCi/g
DC42-000	749918 10	2088478 64	Uranium-235	0 233	0 11	0 09	8	1900	pCi/g

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location/Source	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus Two Standard Deviations	Activity Range Worker Action Level	Ecological Receptor Action Level	Units
DC43-000	750152 87	2088442 46	Uranium-235	0 125	0 08	0 09	8	1900	pCi/g
DD40-000	749572 23	2088585 28	Uranium-235	0 197	0 11	0 09	8	1900	pCi/g
DD43-000	750249 97	2088554 95	Uranium-235	0 204	0 13	0 09	8	1900	pCi/g
DD43-000	750249 97	2088554 95	Uranium-235	0 2208	0 14	0 09	8	1900	pCi/g
DD43-000	750249 97	2088554 95	Uranium-235	0 178	0 11	0 09	8	1900	pCi/g
DD43-001	750003 07	2088550 71	Uranium-235	0 15	0 09	0 09	8	1900	pCi/g
DD44-000	750275 17	2088472 83	Uranium-235	0 156	0 14	0 09	8	1900	pCi/g
DF41-000	749737 05	2089000 19	Uranium-235	0 161	0 09	0 09	8	1900	pCi/g
DF42-000	749906 57	2089129 65	Uranium-235	0 151	0 10	0 09	8	1900	pCi/g
BW52-000	751772 30	2082012 80	Uranium-238	3 76	1 95	2 00	351	1600	pCi/g
BW52-000	751772 30	2082012 80	Uranium-238	3 917	2 03	2 00	351	1600	pCi/g
CV41-004	749619 88	2087073 47	Uranium-238	2 04	1 56	2 00	351	1600	pCi/g
CV41-006	749621 22	2087106 37	Uranium-238	3 45	1 86	2 00	351	1600	pCi/g
CV41-006	749621 22	2087106 37	Uranium-238	3 771	2 03	2 00	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	5	2 28	2 00	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	4 304	1 72	2 00	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	4 7	2 10	2 00	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	3 76	1 50	2 00	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	6 97	3 47	2 00	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	8	3 75	2 00	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	4 24	1 92	2 00	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	4 24	1 92	2 00	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	2 2	1 45	2 00	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	5	2 18	2 00	351	1600	pCi/g
CW41-002	749622 56	2087178 88	Uranium-238	4 61	2 10	2 00	351	1600	pCi/g

Table 3
Surface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limit with RFCA ALs

Location Code	Easting	Northing	Analyte	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Multiple Range Workers Action (Tier 2)	Ecological Receptor (Tier 1 Level)	Units
CW41-002	749622 56	2087178 88	Uranium-238	4 7	2 14	2 00	351	1600	pCi/g
DB41-000	749574 27	2088280 51	Uranium-238	2 65	1 83	2 00	351	1600	pCi/g
DB41-000	749574 27	2088280 51	Uranium-238	3 67	1 56	2 00	351	1600	pCi/g
DB41-000	749574 27	2088280 51	Uranium-238	4 067	1 73	2 00	351	1600	pCi/g
DB43-000	750163 83	2088219 15	Uranium-238	2 76	1 31	2 00	351	1600	pCi/g
DB44-000	750231 30	2088317 84	Uranium-238	2 7	1 27	2 00	351	1600	pCi/g
DC42-000	749918 10	2088478 64	Uranium-238	2 61	1 59	2 00	351	1600	pCi/g
DD42-000	749777 16	2088664 41	Uranium-238	2 86	1 78	2 00	351	1600	pCi/g
DD43-000	750249 97	2088554 95	Uranium-238	4 2	1 55	2 00	351	1600	pCi/g
DD43-000	750249 97	2088554 95	Uranium-238	4 546	1 68	2 00	351	1600	pCi/g
DD43-001	750003 07	2088550 71	Uranium-238	2 72	2 08	2 00	351	1600	pCi/g
DF41-000	749737 05	2089000 19	Uranium-238	2 16	1 42	2 00	351	1600	pCi/g
DF42-000	749906 57	2089129 65	Uranium-238	2 26	1 42	2 00	351	1600	pCi/g
CV43-000	749980 95	2087134 60	Vanadium	58 1	0 25	45 59	7150	433	mg/kg
CW43-001	749975 88	2087140 61	Vanadium	46 1	0 25	45 59	7150	433	mg/kg
DC41-000	749715 79	2088426 17	Zinc	104	0 63	73 76	307000	-	mg/kg
DD43-000	750249 97	2088554 95	Zinc	101	0 62	73 76	307000	-	mg/kg
DE40-000	749552 11	2088809 06	Zinc	75 4	0 60	73 76	307000	-	mg/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Easting	Northing	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus Two Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CV41-006	749621 22	2087106 37	1,1,2,2-Tetrachloroethane	2 5	4 5	72	26 00	-	100000	-	ug/kg
BW52-000	751772 30	2082012 80	2-Butanone	4 5	6 5	720	4 80	-	192000000	433000	ug/kg
BW52-000	751772 30	2082012 80	2-Butanone	6 5	8 5	520	5 00	-	192000000	433000	ug/kg
BW52-000	751772 30	2082012 80	2-Butanone	8 5	10 5	16	5 50	-	192000000	433000	ug/kg
BW52-000	751772 30	2082012 80	2-Butanone	10 5	12 5	1600	27 00	-	192000000	433000	ug/kg
BW52-000	751772 30	2082012 80	2-Butanone	12 5	14 5	400	5 60	-	192000000	433000	ug/kg
BW52-000	751772 30	2082012 80	2-Butanone	14 5	16 5	560	5 20	-	192000000	433000	ug/kg
BW52-000	751772 30	2082012 80	2-Butanone	24 6	25 6	200	5 50	-	192000000	433000	ug/kg
CV40-001	749480 09	2087106 49	2-Butanone	1	3	36	5 30	-	192000000	433000	ug/kg
CV41-000	749584 29	2086966 71	2-Butanone	5	7	11	5 20	-	192000000	433000	ug/kg
CV41-000	749584 29	2086966 71	2-Butanone	1	3	16	4 60	-	192000000	433000	ug/kg
CV41-000	749584 29	2086966 71	2-Butanone	3	5	25	5 20	-	192000000	433000	ug/kg
CV41-002	749599 73	2087015 06	2-Butanone	1	3	8 6	5 80	-	192000000	433000	ug/kg
CV41-003	749597 05	2087050 64	2-Butanone	1	3	6 9	5 00	-	192000000	433000	ug/kg
CV41-004	749619 88	2087073 47	2-Butanone	2 5	4 5	8100	6200 00	-	192000000	433000	ug/kg
CV41-004	749619 88	2087073 47	2-Butanone	0 5	2 5	5400	320 00	-	192000000	433000	ug/kg
CV41-004	749619 88	2087073 47	2-Butanone	4 5	6 5	7600	6600 00	-	192000000	433000	ug/kg
CV41-005	749593 02	2087086 22	2-Butanone	3	5	74	5 80	-	192000000	433000	ug/kg
CV41-005	749593 02	2087086 22	2-Butanone	1	3	63	5 60	-	192000000	433000	ug/kg
CV41-006	749621 22	2087106 37	2-Butanone	0 5	2 5	420	340 00	-	192000000	433000	ug/kg
CV41-006	749621 22	2087106 37	2-Butanone	2 5	4 5	380	340 00	-	192000000	433000	ug/kg
CV41-005	749593 02	2087086 22	2-Methylnaphthalene	0 5	1	110	60 00	-	20400000	-	ug/kg
CV41-002	749599 73	2087015 06	Acenaphthene	5	7	110	54 00	-	40800000	-	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Acenaphthene	0 5	2 5	140	50 00	-	40800000	-	ug/kg
BW52-000	751772 30	2082012 80	Acetone	0 5	2 5	7 6	4 70	-	102000000	211000	ug/kg
BW52-000	751772 30	2082012 80	Acetone	4 5	6 5	510	4 70	-	102000000	211000	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Easting	Northing	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
BW52-000	751772 30	2082012 80	Acetone	6 5	8 5	370	4 90	-	102000000	211000	ug/kg
BW52-000	751772 30	2082012 80	Acetone	10 5	12 5	140	5 40	-	102000000	211000	ug/kg
BW52-000	751772 30	2082012 80	Acetone	12 5	14 5	690	5 40	-	102000000	211000	ug/kg
BW52-000	751772 30	2082012 80	Acetone	14 5	16 5	290	5 00	-	102000000	211000	ug/kg
CV40-000	749457 38	2087080 79	Acetone	1	3	8 6	5 50	-	102000000	211000	ug/kg
CV40-000	749457 38	2087080 79	Acetone	3	5	5 4	4 90	-	102000000	211000	ug/kg
CV40-001	749480 09	2087106 49	Acetone	1	3	140	5 20	-	102000000	211000	ug/kg
CV40-001	749480 09	2087106 49	Acetone	9	9 8	4 8	4 80	-	102000000	211000	ug/kg
CV40-001	749480 09	2087106 49	Acetone	5	7	9 1	4 80	-	102000000	211000	ug/kg
CV41-000	749584 29	2086966 71	Acetone	3	5	95	5 10	-	102000000	211000	ug/kg
CV41-000	749584 29	2086966 71	Acetone	5	7	55	5 10	-	102000000	211000	ug/kg
CV41-000	749584 29	2086966 71	Acetone	7	9	6	4 90	-	102000000	211000	ug/kg
CV41-000	749584 29	2086966 71	Acetone	1	3	72	4 50	-	102000000	211000	ug/kg
CV41-001	749570 86	2086994 24	Acetone	6 5	8 5	8 1	4 80	-	102000000	211000	ug/kg
CV41-002	749599 73	2087015 06	Acetone	1	3	55	5 70	-	102000000	211000	ug/kg
CV41-002	749599 73	2087015 06	Acetone	9	11	5 1	4 90	-	102000000	211000	ug/kg
CV41-002	749599 73	2087015 06	Acetone	7	9	5 3	4 70	-	102000000	211000	ug/kg
CV41-003	749597 05	2087050 64	Acetone	1	3	43	4 90	-	102000000	211000	ug/kg
CV41-003	749597 05	2087050 64	Acetone	7	9	5 8	4 80	-	102000000	211000	ug/kg
CV41-003	749597 05	2087050 64	Acetone	9	11	6 7	4 80	-	102000000	211000	ug/kg
CV41-005	749593 02	2087086 22	Acetone	7	9	9 2	4 90	-	102000000	211000	ug/kg
CV41-005	749593 02	2087086 22	Acetone	9	11	6	5 00	-	102000000	211000	ug/kg
CV41-005	749593 02	2087086 22	Acetone	1	3	270	5 50	-	102000000	211000	ug/kg
CV41-005	749593 02	2087086 22	Acetone	3	5	310	5 60	-	102000000	211000	ug/kg
CV41-006	749621 22	2087106 37	Acetone	6 5	8 5	11	4 80	-	102000000	211000	ug/kg
CV41-006	749621 22	2087106 37	Acetone	8 5	10 5	7 7	4 80	-	102000000	211000	ug/kg
CW40-000	749477 67	2087139 09	Acetone	9	11	21	5 40	-	102000000	211000	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Worker Action Level	Ecological Receptor Action Level	Unit
CW40-000	749477 67	2087139 09	Acetone	3	5	9 2	5 30	-	102000000	211000	ug/kg
CW40-000	749477 67	2087139 09	Acetone	7	9	7 8	5 00	-	102000000	211000	ug/kg
CW40-001	749448 88	2087145 33	Acetone	6 5	8 5	5	4 70	-	102000000	211000	ug/kg
CW40-001	749448 88	2087145 33	Acetone	8 5	10 5	5 3	4 80	-	102000000	211000	ug/kg
CW40-002	749468 30	2087173 08	Acetone	6 5	8 5	5 7	4 90	-	102000000	211000	ug/kg
CW40-002	749468 30	2087173 08	Acetone	2 5	4 5	14	5 40	-	102000000	211000	ug/kg
CW40-002	749468 30	2087173 08	Acetone	8 5	10 5	5 8	4 70	-	102000000	211000	ug/kg
CW40-002	749468 30	2087173 08	Acetone	0 5	2 5	20	5 60	-	102000000	211000	ug/kg
CW40-004	749479 75	2087204 29	Acetone	2 5	4 5	5 3	5 00	-	102000000	211000	ug/kg
CW40-004	749479 75	2087204 29	Acetone	4 5	6 5	5 6	5 10	-	102000000	211000	ug/kg
CW41-000	749618 53	2087142 62	Acetone	6 5	8 5	6 6	5 10	-	102000000	211000	ug/kg
CW41-001	749648 07	2087163 44	Acetone	0 5	2 5	18	5 00	-	102000000	211000	ug/kg
CW41-002	749622 56	2087178 88	Acetone	0 5	2 5	6	4 80	-	102000000	211000	ug/kg
CW41-002	749622 56	2087178 88	Acetone	6 5	8 5	5	4 80	-	102000000	211000	ug/kg
DE42-000	749946 42	2088837 41	Acetone	0 5	2 5	7 9	5 60	-	102000000	211000	ug/kg
DF42-000	749906 57	2089129 65	Acetone	0 5	2 5	5 3	4 90	-	102000000	211000	ug/kg
STEP OUT 4 - D	749616 62	2087113 72	Acetone	4 5	6 5	8 4	5 30	-	102000000	211000	ug/kg
CV41-000	749584 29	2086966 71	Aluminum	1	3	38000	1 40	35373 17	228000	-	mg/kg
CW40-003	749457 21	2087207 75	Americium-241	0 5	2 5	0 588	0 15	0 02	76	1900	pCi/g
CV41-002	749599 73	2087015 06	Anthracene	5	7	140	91 00	-	204000000	-	ug/kg
CV41-004	749619 88	2087073 47	Anthracene	2 5	4 5	2500	850 00	-	204000000	-	ug/kg
CV41-004	749619 88	2087073 47	Anthracene	2 5	4 5	89	85 00	-	204000000	-	ug/kg
STEP OUT 3 - B	749635 15	2087116 33	Anthracene	0 5	2 5	430	140 00	-	204000000	-	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Anthracene	4 5	6 5	480	140 00	-	204000000	-	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Anthracene	0 5	2 5	300	72 00	-	204000000	-	ug/kg
CV41-004	749619 88	2087073 47	Antimony	0 5	2 5	350	0 46	16 97	409	-	mg/kg
CV40-001	749480 09	2087106 49	Aroclor-1254	0 5	1	87	4 90	-	12400	371000	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Worker Action Level	Ecological Receptor Action Level	Unit
CV41-001	749570 86	2086994 24	Aroclor-1254	0 5	2 5	9 4	6 80	-	12400	371000	ug/kg
CV41-004	749619 88	2087073 47	Aroclor-1254	2 5	4 5	680	66 00	-	12400	371000	ug/kg
CV41-004	749619 88	2087073 47	Aroclor-1254	4 5	6 5	390	67 00	-	12400	371000	ug/kg
CV41-004	749619 88	2087073 47	Aroclor-1254	0 5	2 5	190	66 00	-	12400	371000	ug/kg
CV41-006	749621 22	2087106 37	Aroclor-1254	2 5	4 5	2500	71 00	-	12400	371000	ug/kg
CV41-006	749621 22	2087106 37	Aroclor-1254	0 5	2 5	1100	66 00	-	12400	371000	ug/kg
CV41-006	749621 22	2087106 37	Aroclor-1254	4 5	6 5	100	6 60	-	12400	371000	ug/kg
CW40-000	749477 67	2087139 09	Aroclor-1254	3	5	15	5 10	-	12400	371000	ug/kg
CW40-000	749477 67	2087139 09	Aroclor-1254	1	3	34	4 80	-	12400	371000	ug/kg
CW40-001	749448 88	2087145 33	Aroclor-1254	0 5	2 5	14	4 90	-	12400	371000	ug/kg
CW40-002	749468 30	2087173 08	Aroclor-1254	0 5	2 5	35	5 00	-	12400	371000	ug/kg
CW40-004	749479 75	2087204 29	Aroclor-1254	0 5	2 5	130	6 70	-	12400	371000	ug/kg
CV41-002	749599 73	2087015 06	Aroclor-1260	5	7	21	5 60	-	12400	-	ug/kg
CV41-003	749597 05	2087050 64	Aroclor-1260	3	5	7 2	5 70	-	12400	-	ug/kg
CV41-004	749619 88	2087073 47	Aroclor-1260	2 5	4 5	170	52 00	-	12400	-	ug/kg
CV41-006	749621 22	2087106 37	Aroclor-1260	0 5	2 5	320	52 00	-	12400	-	ug/kg
CW40-000	749477 67	2087139 09	Aroclor-1260	1	3	15	5 30	-	12400	-	ug/kg
CW40-004	749479 75	2087204 29	Aroclor-1260	0 5	2 5	50	5 30	-	12400	-	ug/kg
CV41-000	749584 29	2086966 71	Arsenic	1	3	14 5	0 65	13 14	22 2	21 6	mg/kg
CW40-001	749448 88	2087145 33	Arsenic	6 5	8 5	17 8	0 58	13 14	22 2	21 6	mg/kg
CW40-001	749448 88	2087145 33	Barium	4 5	6 5	838	0 04	289 38	26400	-	mg/kg
CV41-000	749584 29	2086966 71	Benzo(a)anthracene	3	5	67	45 00	-	34900	800000	ug/kg
CV41-002	749599 73	2087015 06	Benzo(a)anthracene	5	7	220	45 00	-	34900	800000	ug/kg
CV41-003	749597 05	2087050 64	Benzo(a)anthracene	0 5	1	49	42 00	-	34900	800000	ug/kg
CV41-003	749597 05	2087050 64	Benzo(a)anthracene	0 5	1	120	42 00	-	34900	800000	ug/kg
CV41-003	749597 05	2087050 64	Benzo(a)anthracene	3	5	110	47 00	-	34900	800000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(a)anthracene	2 5	4 5	160	43 00	-	34900	800000	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CV41-004	749619 88	2087073 47	Benzo(a)anthracene	0 5	2 5	54	42 00	-	34900	800000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(a)anthracene	2 5	4 5	7500	430 00	-	34900	800000	ug/kg
CV41-005	749593 02	2087086 22	Benzo(a)anthracene	0 5	1	170	40 00	-	34900	800000	ug/kg
CV41-006	749621 22	2087106 37	Benzo(a)anthracene	0 5	2 5	220	42 00	-	34900	800000	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Benzo(a)anthracene	4 5	6 5	270	86 00	-	34900	800000	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Benzo(a)anthracene	0 5	2 5	290	43 00	-	34900	800000	ug/kg
CV41-002	749599 73	2087015 06	Benzo(a)pyrene	5	7	220	110 00	-	3490	25700	ug/kg
CV41-003	749597 05	2087050 64	Benzo(a)pyrene	0 5	1	120	100 00	-	3490	25700	ug/kg
CV41-003	749597 05	2087050 64	Benzo(a)pyrene	3	5	120	110 00	-	3490	25700	ug/kg
CV41-004	749619 88	2087073 47	Benzo(a)pyrene	0 5	2 5	110	100 00	-	3490	25700	ug/kg
CV41-004	749619 88	2087073 47	Benzo(a)pyrene	2 5	4 5	9300	1000 00	-	3490	25700	ug/kg
CV41-004	749619 88	2087073 47	Benzo(a)pyrene	2 5	4 5	270	100 00	-	3490	25700	ug/kg
CV41-005	749593 02	2087086 22	Benzo(a)pyrene	0 5	1	150	96 00	-	3490	25700	ug/kg
CV41-006	749621 22	2087106 37	Benzo(a)pyrene	2 5	4 5	3900	1100 00	-	3490	25700	ug/kg
CV41-006	749621 22	2087106 37	Benzo(a)pyrene	0 5	2 5	490	100 00	-	3490	25700	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Benzo(a)pyrene	4 5	6 5	440	110 00	-	3490	25700	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Benzo(a)pyrene	0 5	2 5	270	57 00	-	3490	25700	ug/kg
CV41-002	749599 73	2087015 06	Benzo(b)fluoranthene	5	7	180	120 00	-	34900	1010000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(b)fluoranthene	2 5	4 5	220	110 00	-	34900	1010000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(b)fluoranthene	2 5	4 5	7100	1100 00	-	34900	1010000	ug/kg
CV41-006	749621 22	2087106 37	Benzo(b)fluoranthene	0 5	2 5	410	110 00	-	34900	1010000	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Benzo(b)fluoranthene	0 5	2 5	180	70 00	-	34900	1010000	ug/kg
CV41-002	749599 73	2087015 06	Benzo(k)fluoranthene	5	7	200	110 00	-	349000	1010000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(k)fluoranthene	2 5	4 5	8000	1000 00	-	349000	1010000	ug/kg
CV41-004	749619 88	2087073 47	Benzo(k)fluoranthene	2 5	4 5	230	100 00	-	349000	1010000	ug/kg
CV41-006	749621 22	2087106 37	Benzo(k)fluoranthene	0 5	2 5	380	100 00	-	349000	1010000	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Benzo(k)fluoranthene	0 5	2 5	250	75 00	-	349000	1010000	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Easting	Northing	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection/Reporting Limit	Background Mean Plus 2 Standard Deviations	RFCA Tier 2 Action Level	Residential Recreational Action Level	Unit
CV41-004	749619 88	2087073 47	bis(2-Ethylhexyl)phthalate	2 5	4 5	150	75 00	-	1970000	-	ug/kg
CV41-004	749619 88	2087073 47	bis(2-Ethylhexyl)phthalate	2 5	4 5	910	750 00	-	1970000	-	ug/kg
CV41-004	749619 88	2087073 47	Cadmium	0 5	2 5	10 1	0 05	1 70	962	-	mg/kg
CV41-004	749619 88	2087073 47	Cadmium	2 5	4 5	7 8	0 05	1 70	962	-	mg/kg
CV41-004	749619 88	2087073 47	Cadmium	4 5	6 5	7 4	0 05	1 70	962	-	mg/kg
CV41-004	749619 88	2087073 47	Cadmium	6 5	8 5	2 1	0 05	1 70	962	-	mg/kg
CV41-006	749621 22	2087106 37	Cadmium	2 5	4 5	58 7	0 05	1 70	962	-	mg/kg
CV41-006	749621 22	2087106 37	Cadmium	4 5	6 5	5 5	0 05	1 70	962	-	mg/kg
CV41-006	749621 22	2087106 37	Cadmium	0 5	2 5	5	0 05	1 70	962	-	mg/kg
CW41-001	749648 07	2087163 44	Cadmium	0 5	2 5	3 5	0 05	1 70	962	-	mg/kg
CV40-000	749457 38	2087080 79	Chromium	5	7	191	0 06	68 27	268	-	mg/kg
CV41-000	749584 29	2086966 71	Chromium	9	11	156	0 06	68 27	268	-	mg/kg
CV41-000	749584 29	2086966 71	Chromium	7	9	72	0 06	68 27	268	-	mg/kg
CV41-000	749584 29	2086966 71	Chrysene	3	5	220	61 00	-	3490000	-	ug/kg
CV41-002	749599 73	2087015 06	Chrysene	5	7	270	62 00	-	3490000	-	ug/kg
CV41-003	749597 05	2087050 64	Chrysene	0 5	1	400	58 00	-	3490000	-	ug/kg
CV41-003	749597 05	2087050 64	Chrysene	1	3	91	55 00	-	3490000	-	ug/kg
CV41-003	749597 05	2087050 64	Chrysene	0 5	1	76	58 00	-	3490000	-	ug/kg
CV41-003	749597 05	2087050 64	Chrysene	3	5	120	63 00	-	3490000	-	ug/kg
CV41-004	749619 88	2087073 47	Chrysene	2 5	4 5	8500	580 00	-	3490000	-	ug/kg
CV41-004	749619 88	2087073 47	Chrysene	2 5	4 5	200	58 00	-	3490000	-	ug/kg
CV41-004	749619 88	2087073 47	Chrysene	4 5	6 5	70	59 00	-	3490000	-	ug/kg
CV41-004	749619 88	2087073 47	Chrysene	0 5	2 5	81	58 00	-	3490000	-	ug/kg
CV41-005	749593 02	2087086 22	Chrysene	0 5	1	580	54 00	-	3490000	-	ug/kg
CV41-006	749621 22	2087106 37	Chrysene	0 5	2 5	320	58 00	-	3490000	-	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Chrysene	4 5	6 5	450	75 00	-	3490000	-	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Chrysene	0 5	2 5	340	38 00	-	3490000	-	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Northing	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection/Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Reuse Worker Action Level	Ecological Receptor Action Level	Unit
CV41-004	749619 88	2087073 47	Copper	0 5	2 5	53	0 16	38 21	40900	-	mg/kg
CV41-006	749621 22	2087106 37	Copper	2 5	4 5	43 2	0 18	38 21	40900	-	mg/kg
CV41-004	749619 88	2087073 47	Dibenz(a,h)anthracene	2 5	4 5	1700	510 00	-	3490	-	ug/kg
CV41-006	749621 22	2087106 37	Dibenz(a,h)anthracene	2 5	4 5	3900	550 00	-	3490	-	ug/kg
CV41-006	749621 22	2087106 37	Dibenz(a,h)anthracene	0 5	2 5	170	51 00	-	3490	-	ug/kg
CV41-002	749599 73	2087015 06	Fluoranthene	5	7	640	98 00	-	27200000	-	ug/kg
CV41-003	749597 05	2087050 64	Fluoranthene	3	5	230	100 00	-	27200000	-	ug/kg
CV41-003	749597 05	2087050 64	Fluoranthene	0 5	1	110	91 00	-	27200000	-	ug/kg
CV41-004	749619 88	2087073 47	Fluoranthene	6 5	8 5	120	89 00	-	27200000	-	ug/kg
CV41-004	749619 88	2087073 47	Fluoranthene	2 5	4 5	340	92 00	-	27200000	-	ug/kg
CV41-004	749619 88	2087073 47	Fluoranthene	0 5	2 5	120	91 00	-	27200000	-	ug/kg
CV41-004	749619 88	2087073 47	Fluoranthene	2 5	4 5	18000	920 00	-	27200000	-	ug/kg
CV41-006	749621 22	2087106 37	Fluoranthene	0 5	2 5	450	91 00	-	27200000	-	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Fluoranthene	4 5	6 5	710	86 00	-	27200000	-	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Fluoranthene	0 5	2 5	640	43 00	-	27200000	-	ug/kg
CV41-004	749619 88	2087073 47	Fluorene	2 5	4 5	840	830 00	-	40800000	-	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Fluorene	0 5	2 5	98	60 00	-	40800000	-	ug/kg
CV41-002	749599 73	2087015 06	Indeno(1,2,3-cd)pyrene	5	7	130	56 00	-	34900	-	ug/kg
CV41-003	749597 05	2087050 64	Indeno(1,2,3-cd)pyrene	3	5	72	57 00	-	34900	-	ug/kg
CV41-004	749619 88	2087073 47	Indeno(1,2,3-cd)pyrene	0 5	2 5	94	52 00	-	34900	-	ug/kg
CV41-004	749619 88	2087073 47	Indeno(1,2,3-cd)pyrene	2 5	4 5	3000	520 00	-	34900	-	ug/kg
CV41-004	749619 88	2087073 47	Indeno(1,2,3-cd)pyrene	2 5	4 5	210	52 00	-	34900	-	ug/kg
CV41-006	749621 22	2087106 37	Indeno(1,2,3-cd)pyrene	0 5	2 5	360	52 00	-	34900	-	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Indeno(1,2,3-cd)pyrene	4 5	6 5	300	97 00	-	34900	-	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Indeno(1,2,3-cd)pyrene	0 5	2 5	150	49 00	-	34900	-	ug/kg
CV41-004	**749619 88**	**2087073.47**	**Lead**	**0 5**	**2 5**	**195**	**0 21**	**24 97**	**1000**	**25 6**	**mg/kg**
CV41-004	749619 88	2087073 47	Mercury	2 5	4 5	3 2	0 01	1 52	25200	-	mg/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Range Worker Action Level	Ecological Receptor Action Level	Unit
CV41-004	749619 88	2087073 47	Mercury	4 5	6 5	2	0 01	1 52	25200	-	mg/kg
CV41-006	749621 22	2087106 37	Mercury	2 5	4 5	3 4	0 01	1 52	25200	-	mg/kg
BW52-000	751772 30	2082012 80	Methylene chloride	0 5	2 5	1 6	0 81	-	2530000	39500	ug/kg
CV41-000	749584 29	2086966 71	Methylene chloride	1	3	1 4	0 79	-	2530000	39500	ug/kg
CV41-000	749584 29	2086966 71	Methylene chloride	5	7	1 4	0 89	-	2530000	39500	ug/kg
CV41-000	749584 29	2086966 71	Methylene chloride	9	11	1 3	0 85	-	2530000	39500	ug/kg
CV41-000	749584 29	2086966 71	Methylene chloride	3	5	1 5	0 89	-	2530000	39500	ug/kg
CV41-000	749584 29	2086966 71	Methylene chloride	7	9	1 4	0 86	-	2530000	39500	ug/kg
CV41-001	749570 86	2086994 24	Methylene chloride	0 5	2 5	0 83	0 83	-	2530000	39500	ug/kg
CV41-001	749570 86	2086994 24	Methylene chloride	2 5	4 5	1 1	0 81	-	2530000	39500	ug/kg
CV41-001	749570 86	2086994 24	Methylene chloride	8 5	10 5	0 99	0 82	-	2530000	39500	ug/kg
CV41-001	749570 86	2086994 24	Methylene chloride	4 5	6 5	0 87	0 83	-	2530000	39500	ug/kg
CV41-002	749599 73	2087015 06	Methylene chloride	9	11	1 5	0 85	-	2530000	39500	ug/kg
CV41-002	749599 73	2087015 06	Methylene chloride	1	3	1 8	0 98	-	2530000	39500	ug/kg
CV41-002	749599 73	2087015 06	Methylene chloride	7	9	1 7	0 82	-	2530000	39500	ug/kg
CV41-002	749599 73	2087015 06	Methylene chloride	5	7	2	0 97	-	2530000	39500	ug/kg
CV41-002	749599 73	2087015 06	Methylene chloride	3	5	1 2	0 89	-	2530000	39500	ug/kg
CV41-003	749597 05	2087050 64	Methylene chloride	1	3	3 7	0 86	-	2530000	39500	ug/kg
CV41-003	749597 05	2087050 64	Methylene chloride	5	7	3 6	0 82	-	2530000	39500	ug/kg
CV41-003	749597 05	2087050 64	Methylene chloride	3	5	3 9	0 89	-	2530000	39500	ug/kg
CV41-003	749597 05	2087050 64	Methylene chloride	7	9	3 2	0 83	-	2530000	39500	ug/kg
CV41-003	749597 05	2087050 64	Methylene chloride	9	11	4 5	0 83	-	2530000	39500	ug/kg
CV41-004	749619 88	2087073 47	Methylene chloride	6 5	8 5	1 1	0 95	-	2530000	39500	ug/kg
CV41-005	749593 02	2087086 22	Methylene chloride	3	5	4 9	0 98	-	2530000	39500	ug/kg
CV41-005	749593 02	2087086 22	Methylene chloride	9	11	3 5	0 88	-	2530000	39500	ug/kg
CV41-005	749593 02	2087086 22	Methylene chloride	7	9	3 7	0 85	-	2530000	39500	ug/kg
CV41-005	749593 02	2087086 22	Methylene chloride	1	3	4 6	0 96	-	2530000	39500	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Range Worker Action Level	Ecological Receptor Action Level	Unit
CV41-005	749593 02	2087086 22	Methylene chloride	5	7	4 3	0 98	-	2530000	39500	ug/kg
CV41-006	749621 22	2087106 37	Methylene chloride	6 5	8 5	0 84	0 83	-	2530000	39500	ug/kg
CV41-006	749621 22	2087106 37	Methylene chloride	4 5	6 5	2 2	0 87	-	2530000	39500	ug/kg
CV41-006	749621 22	2087106 37	Methylene chloride	8 5	10 5	1	0 84	-	2530000	39500	ug/kg
CW40-001	749448 88	2087145 33	Methylene chloride	0 5	2 5	0 95	0 90	-	2530000	39500	ug/kg
CW40-001	749448 88	2087145 33	Methylene chloride	4 5	6 5	0 9	0 83	-	2530000	39500	ug/kg
CW40-002	749468 30	2087173 08	Methylene chloride	0 5	2 5	1 1	0 97	-	2530000	39500	ug/kg
CW40-004	749479 75	2087204 29	Methylene chloride	0 5	2 5	0 93	0 86	-	2530000	39500	ug/kg
CW41-000	749618 53	2087142 62	Methylene chloride	0 5	2 5	0 99	0 96	-	2530000	39500	ug/kg
CW41-000	749618 53	2087142 62	Methylene chloride	4 5	6 5	0 99	0 89	-	2530000	39500	ug/kg
CW41-000	749618 53	2087142 62	Methylene chloride	8 5	10 5	0 93	0 82	-	2530000	39500	ug/kg
CW41-001	749648 07	2087163 44	Methylene chloride	6 5	8 5	1 2	0 90	-	2530000	39500	ug/kg
CW41-001	749648 07	2087163 44	Methylene chloride	8 5	10 5	1 4	0 85	-	2530000	39500	ug/kg
CW41-001	749648 07	2087163 44	Methylene chloride	2 5	4 5	1 1	0 86	-	2530000	39500	ug/kg
CW41-001	749648 07	2087163 44	Methylene chloride	4 5	6 5	1 2	0 83	-	2530000	39500	ug/kg
CW41-001	749648 07	2087163 44	Methylene chloride	0 5	2 5	1 1	0 87	-	2530000	39500	ug/kg
CW41-002	749622 56	2087178 88	Methylene chloride	2 5	4 5	2	0 92	-	2530000	39500	ug/kg
CW41-002	749622 56	2087178 88	Methylene chloride	4 5	6 5	1 6	0 89	-	2530000	39500	ug/kg
CW41-002	749622 56	2087178 88	Methylene chloride	8 5	10	1 5	0 86	-	2530000	39500	ug/kg
CW41-002	749622 56	2087178 88	Methylene chloride	6 5	8 5	1 8	0 84	-	2530000	39500	ug/kg
CW43-000	749981 91	2087145 35	Methylene chloride	0 5	2 5	0 94	0 82	-	2530000	39500	ug/kg
DB41-000	749574 27	2088280 51	Methylene chloride	0 5	1	2 2	0 88	-	2530000	39500	ug/kg
DB43-000	750163 83	2088219 15	Methylene chloride	0 5	2 5	3 7	0 86	-	2530000	39500	ug/kg
DB43-001	749963 51	2088226 91	Methylene chloride	0 5	1	3 7	0 87	-	2530000	39500	ug/kg
DC40-000	749412 32	2088396 73	Methylene chloride	0 5	1	3 1	0 89	-	2530000	39500	ug/kg
DC41-000	749715 79	2088426 17	Methylene chloride	0 5	1	3 6	0 91	-	2530000	39500	ug/kg
DC42-000	749918 10	2088478 64	Methylene chloride	0 5	1 25	3 8	0 89	-	2530000	39500	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Easting	Northing	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Worker Action Level	Industrial Retention Action Level	Unit
DD40-000	749572 23	2088585 28	Methylene chloride	0 5	1	2 5	0 85	-	2530000	39500	ug/kg
DD42-000	749777 16	2088664 41	Methylene chloride	0 5	2 5	3 1	0 83	-	2530000	39500	ug/kg
DD43-001	750003 07	2088550 71	Methylene chloride	0 5	1	3 4	0 98	-	2530000	39500	ug/kg
DE40-000	749552 11	2088809 06	Methylene chloride	0 5	2 5	4 2	0 85	-	2530000	39500	ug/kg
DF41-000	749737 05	2089000 19	Methylene chloride	0 5	2 5	1 1	0 85	-	2530000	39500	ug/kg
DG41-000	749743 20	2089312 89	Methylene chloride	0 5	2 5	2	0 84	-	2530000	39500	ug/kg
DG41-001	749648 40	2089248 07	Methylene chloride	0 5	2 5	3 1	0 96	-	2530000	39500	ug/kg
DH43-000	749991 19	2089365 30	Methylene chloride	0 5	2 5	2	0 81	-	2530000	39500	ug/kg
STEP OUT 3 - B	749635 15	2087116 33	Methylene chloride	0 5	2 5	1 3	0 86	-	2530000	39500	ug/kg
STEP OUT 3 - C	749635 15	2087116 33	Methylene chloride	2 5	4 5	1 7	0 85	-	2530000	39500	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Methylene chloride	4 5	6 5	2	0 88	-	2530000	39500	ug/kg
STEP OUT 3 - E	749635 15	2087116 33	Methylene chloride	6 5	8 5	1 5	0 86	-	2530000	39500	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Methylene chloride	0 5	2 5	1 5	0 89	-	2530000	39500	ug/kg
STEP OUT 4 - C	749616 62	2087113 72	Methylene chloride	2 5	4 5	1 7	0 93	-	2530000	39500	ug/kg
STEP OUT 4 - D	749616 62	2087113 72	Methylene chloride	4 5	6 5	1 7	0 92	-	2530000	39500	ug/kg
STEP OUT 4 - E	749616 62	2087113 72	Methylene chloride	6 5	8 5	1 7	0 88	-	2530000	39500	ug/kg
STEP OUT 4 - F	749616 62	2087113 72	Methylene chloride	8 5	10 5	1 5	0 87	-	2530000	39500	ug/kg
CV40-000	749457 38	2087080 79	Molybdenum	5	7	37 7	0 15	25 61	5110	-	mg/kg
CV41-000	749584 29	2086966 71	Molybdenum	9	11	30 4	0 14	25 61	5110	-	mg/kg
CV41-004	749619 88	2087073 47	Naphthalene	6 5	8 5	1	1 00	-	3090000	-	ug/kg
CV41-006	749621 22	2087106 37	Pentachlorophenol	4 5	6 5	790	400 00	-	162000	-	ug/kg
CW40-003	749457 21	2087207 75	Plutonium-239/240	0 5	2 5	7 99104	0 15	0 02	50	3800	pCi/g
CV41-000	749584 29	2086966 71	Pyrene	3	5	170	46 00	-	22100000	-	ug/kg
CV41-002	749599 73	2087015 06	Pyrene	5	7	600	47 00	-	22100000	-	ug/kg
CV41-002	749599 73	2087015 06	Pyrene	0 5	1	54	41 00	-	22100000	-	ug/kg
CV41-003	749597 05	2087050 64	Pyrene	1	3	50	41 00	-	22100000	-	ug/kg
CV41-003	749597 05	2087050 64	Pyrene	3	5	230	48 00	-	22100000	-	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Worker Action Level	Residential Receptor Action Level	Unit
CV41-003	749597 05	2087050 64	Pyrene	0 5	1	150	43 00	-	22100000	-	ug/kg
CV41-003	749597 05	2087050 64	Pyrene	0 5	1	280	43 00	-	22100000	-	ug/kg
CV41-004	749619 88	2087073 47	Pyrene	0 5	2 5	200	44 00	-	22100000	-	ug/kg
CV41-004	749619 88	2087073 47	Pyrene	6 5	8 5	160	43 00	-	22100000	-	ug/kg
CV41-004	749619 88	2087073 47	Pyrene	2 5	4 5	26000	440 00	-	22100000	-	ug/kg
CV41-004	749619 88	2087073 47	Pyrene	4 5	6 5	360	44 00	-	22100000	-	ug/kg
CV41-004	749619 88	2087073 47	Pyrene	2 5	4 5	510	44 00	-	22100000	-	ug/kg
CV41-005	749593 02	2087086 22	Pyrene	0 5	1	410	41 00	-	22100000	-	ug/kg
CV41-006	749621 22	2087106 37	Pyrene	0 5	2 5	370	44 00	-	22100000	-	ug/kg
STEP OUT 3 - B	749635 15	2087116 33	Pyrene	0 5	2 5	790	120 00	-	22100000	-	ug/kg
STEP OUT 3 - C	749635 15	2087116 33	Pyrene	2 5	4 5	590	120 00	-	22100000	-	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Pyrene	4 5	6 5	1000	120 00	-	22100000	-	ug/kg
STEP OUT 4 - B	749616 62	2087113 72	Pyrene	0 5	2 5	640	62 00	-	22100000	-	ug/kg
CV41-005	749593 02	2087086 22	Strontium	7	9	220	0 01	211 38	613000	-	mg/kg
CW40-001	749448 88	2087145 33	Strontium	0 5	2 5	368	0 01	211 38	613000	-	mg/kg
CW40-002	749468 30	2087173 08	Strontium	2 5	4 5	237	0 01	211 38	613000	-	mg/kg
CW40-002	749468 30	2087173 08	Strontium	0 5	2 5	220	0 01	211 38	613000	-	mg/kg
BW52-000	751772 30	2082012 80	Tetrachloroethene	0 5	2 5	50	1 00	-	615000	37500	ug/kg
BW52-000	751772 30	2082012 80	Tetrachloroethene	2 5	4 5	6 4	1 10	-	615000	37500	ug/kg
BW52-000	751772 30	2082012 80	Tetrachloroethene	4 5	6 5	550	5 10	-	615000	37500	ug/kg
BW52-000	751772 30	2082012 80	Tetrachloroethene	6 5	8 5	120	5 30	-	615000	37500	ug/kg
BW52-000	751772 30	2082012 80	Tetrachloroethene	8 5	10 5	950	5 80	-	615000	37500	ug/kg
BW52-000	751772 30	2082012 80	Tetrachloroethene	10 5	12 5	140	1 20	-	615000	37500	ug/kg
CV41-000	749584 29	2086966 71	Tetrachloroethene	3	5	1 9	1 10	-	615000	37500	ug/kg
CV41-001	749570 86	2086994 24	Tetrachloroethene	0 5	2 5	2 4	1 00	-	615000	37500	ug/kg
CV41-002	749599 73	2087015 06	Tetrachloroethene	3	5	1 3	1 10	-	615000	37500	ug/kg
CV41-002	749599 73	2087015 06	Tetrachloroethene	1	3	1 5	1 20	-	615000	37500	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Easting	Northing	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Source Volatile Action Level	Ecological Risk Action Level	Unit
CV41-003	749597 05	2087050 64	Tetrachloroethene	3	5	11	1 10	-	615000	37500	ug/kg
CV41-004	**749619 88**	**2087073 47**	**Tetrachloroethene**	**4 5**	**6 5**	**72000**	**660 00**	**-**	**615000**	**37500**	**ug/kg**
CV41-004	749619 88	2087073 47	Tetrachloroethene	6 5	8 5	4 2	1 20	-	615000	37500	ug/kg
CV41-004	749619 88	2087073 47	Tetrachloroethene	0 5	2 5	3000	32 00	-	615000	37500	ug/kg
CV41-004	**749619 88**	**2087073 47**	**Tetrachloroethene**	**2 5**	**4 5**	**72000**	**620.00**	**-**	**615000**	**37500**	**ug/kg**
CV41-005	749593 02	2087086 22	Tetrachloroethene	5	7	2 8	1 20	-	615000	37500	ug/kg
CV41-005	749593 02	2087086 22	Tetrachloroethene	3	5	2 3	1 20	-	615000	37500	ug/kg
CV41-005	749593 02	2087086 22	Tetrachloroethene	1	3	2	1 20	-	615000	37500	ug/kg
CV41-006	749621 22	2087106 37	Tetrachloroethene	0 5	2 5	6100	34 00	-	615000	37500	ug/kg
CV41-006	749621 22	2087106 37	Tetrachloroethene	4 5	6 5	140	1 10	-	615000	37500	ug/kg
CV41-006	749621 22	2087106 37	Tetrachloroethene	2 5	4 5	5600	34 00	-	615000	37500	ug/kg
CV43-000	749980 95	2087134 60	Tetrachloroethene	0 5	2 5	1 4	1 20	-	615000	37500	ug/kg
CV43-001	749967 93	2087135 47	Tetrachloroethene	0 5	2 5	3 3	1 00	-	615000	37500	ug/kg
CW40-000	749477 67	2087139 09	Tetrachloroethene	1	3	1 2	1 10	-	615000	37500	ug/kg
CW41-000	749618 53	2087142 62	Tetrachloroethene	2 5	4 5	1 9	1 20	-	615000	37500	ug/kg
CW41-000	749618 53	2087142 62	Tetrachloroethene	0 5	2 5	2 6	1 20	-	615000	37500	ug/kg
CW41-001	749648 07	2087163 44	Tetrachloroethene	0 5	2 5	17	1 10	-	615000	37500	ug/kg
CW43-001	749975 88	2087140 61	Tetrachloroethene	0 5	2 5	2	1 20	-	615000	37500	ug/kg
DB41-000	749574 27	2088280 51	Tetrachloroethene	0 5	1	2 8	1 10	-	615000	37500	ug/kg
DB43-000	750163 83	2088219 15	Tetrachloroethene	0 5	2 5	7 8	1 10	-	615000	37500	ug/kg
DB43-001	749963 51	2088226 91	Tetrachloroethene	0 5	1	2 9	1 10	-	615000	37500	ug/kg
DC40-000	749412 32	2088396 73	Tetrachloroethene	0 5	1	2 2	1 10	-	615000	37500	ug/kg
DC41-000	749715 79	2088426 17	Tetrachloroethene	0 5	1	1 2	1 10	-	615000	37500	ug/kg
DC42-000	749918 10	2088478 64	Tetrachloroethene	0 5	1 25	3 6	1 10	-	615000	37500	ug/kg
DD40-000	749572 23	2088585 28	Tetrachloroethene	0 5	1	2 8	1 10	-	615000	37500	ug/kg
DD42-000	749777 16	2088664 41	Tetrachloroethene	0 5	2 5	2 7	1 00	-	615000	37500	ug/kg
DE40-000	749552 11	2088809 06	Tetrachloroethene	0 5	2 5	4 9	1 10	-	615000	37500	ug/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Easting	Northing	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Human Health Worker Action Level	Ecological Receptor Action Level	Unit
DE42-000	749946 42	2088837 41	Tetrachloroethene	0 5	2 5	3 1	1 20	-	615000	37500	ug/kg
DF41-000	749737 05	2089000 19	Tetrachloroethene	0 5	2 5	7 9	1 10	-	615000	37500	ug/kg
DF42-000	749906 57	2089129 65	Tetrachloroethene	0 5	2 5	2 8	1 10	-	615000	37500	ug/kg
DG41-001	749648 40	2089248 07	Tetrachloroethene	0 5	2 5	2 5	1 20	-	615000	37500	ug/kg
DH43-000	749991 19	2089365 30	Tetrachloroethene	0 5	2 5	2	1 00	-	615000	37500	ug/kg
STEP OUT 3 - B	749635 15	2087116 33	Tetrachloroethene	0 5	2 5	1 4	1 10	-	615000	37500	ug/kg
STEP OUT 3 - C	749635 15	2087116 33	Tetrachloroethene	2 5	4 5	75	1 10	-	615000	37500	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Tetrachloroethene	4 5	6 5	210	1 10	-	615000	37500	ug/kg
STEP OUT 4 - C	749616 62	2087113 72	Tetrachloroethene	2 5	4 5	1 7	1 20	-	615000	37500	ug/kg
BW52-000	751772 30	2082012 80	Trichloroethene	4 5	6 5	1 6	0 89	-	19600	509000	ug/kg
BW52-000	751772 30	2082012 80	Trichloroethene	6 5	8 5	7 8	0 93	-	19600	509000	ug/kg
BW52-000	751772 30	2082012 80	Trichloroethene	8 5	10 5	1 1	1 00	-	19600	509000	ug/kg
CV41-004	749619 88	2087073 47	Trichloroethene	4 5	6 5	1400	660 00	-	19600	509000	ug/kg
CV41-004	749619 88	2087073 47	Trichloroethene	2 5	4 5	1900	620 00	-	19600	509000	ug/kg
CV41-006	749621 22	2087106 37	Trichloroethene	4 5	6 5	3 9	0 95	-	19600	509000	ug/kg
CV41-006	749621 22	2087106 37	Trichloroethene	2 5	4 5	100	34 00	-	19600	509000	ug/kg
CV41-006	749621 22	2087106 37	Trichloroethene	0 5	2 5	89	34 00	-	19600	509000	ug/kg
DF41-000	749737 05	2089000 19	Trichloroethene	0 5	2 5	3 9	0 93	-	19600	509000	ug/kg
STEP OUT 3 - C	749635 15	2087116 33	Trichloroethene	2 5	4 5	2 2	0 92	-	19600	509000	ug/kg
STEP OUT 3 - D	749635 15	2087116 33	Trichloroethene	4 5	6 5	12	0 96	-	19600	509000	ug/kg
CV40-000	749457 38	2087080 79	Uranium, Total	0 5	1	11 1375	7 13	3 04	2750	67 8	mg/kg
CV40-000	749457 38	2087080 79	Uranium, Total	5	7	13 0086	6 03	3 04	2750	67 8	mg/kg
CV40-000	749457 38	2087080 79	Uranium, Total	7	9	8 1675	5 91	3 04	2750	67 8	mg/kg
CV40-000	749457 38	2087080 79	Uranium, Total	7	9	9 504	6 95	3 04	2750	67 8	mg/kg
CV40-000	749457 38	2087080 79	Uranium, Total	0 5	1	11 583	7 41	3 04	2750	67 8	mg/kg
CV40-000	749457 38	2087080 79	Uranium, Total	3	5	15 9786	6 30	3 04	2750	67 8	mg/kg
CV40-000	749457 38	2087080 79	Uranium, Total	3	5	18 414	7 25	3 04	2750	67 8	mg/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CV40-000	749457 38	2087080 79	Uranium, Total	5	7	13 5491	6 28	3 04	2750	67 8	mg/kg
CV40-000	749457 38	2087080 79	Uranium, Total	9	11	4 455	1 80	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	3	5	14 2263	6 89	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	3	5	14 85	7 14	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	1	3	9 801	6 50	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	5	7	16 9587	8 38	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	0 5	1	10 989	7 18	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	1	3	8 2269	5 49	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	7	9	15 147	10 81	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	5	7	24 948	12 29	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	0 5	1	10 5732	6 92	3 04	2750	67 8	mg/kg
CV40-001	749480 09	2087106 49	Uranium, Total	7	9	11 3751	8 08	3 04	2750	67 8	mg/kg
CV41-000	749584 29	2086966 71	Uranium, Total	9	11	7 8705	7 07	3 04	2750	67 8	mg/kg
CV41-000	749584 29	2086966 71	Uranium, Total	7	9	11 88	5 28	3 04	2750	67 8	mg/kg
CV41-000	749584 29	2086966 71	Uranium, Total	0 5	1	11 7315	6 71	3 04	2750	67 8	mg/kg
CV41-000	749584 29	2086966 71	Uranium, Total	1	3	15 1767	7 69	3 04	2750	67 8	mg/kg
CV41-000	749584 29	2086966 71	Uranium, Total	7	9	12 2067	4 84	3 04	2750	67 8	mg/kg
CV41-000	749584 29	2086966 71	Uranium, Total	9	11	8 91	7 30	3 04	2750	67 8	mg/kg
CV41-001	749570 86	2086994 24	Uranium, Total	2 5	4 5	6 4449	3 74	3 04	2750	67 8	mg/kg
CV41-001	749570 86	2086994 24	Uranium, Total	0 5	2 5	9 9792	4 43	3 04	2750	67 8	mg/kg
CV41-001	749570 86	2086994 24	Uranium, Total	6 5	8 5	8 5239	4 48	3 04	2750	67 8	mg/kg
CV41-001	749570 86	2086994 24	Uranium, Total	4 5	6 5	10 7217	5 49	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	7	9	7 6032	5 32	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	0 5	1	20 79	6 28	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	3	5	7 0686	5 82	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	7	9	8 91	5 79	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	9	11	6 0291	6 36	3 04	2750	67 8	mg/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	Bottom Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Area Worker Action Level	Ecological Receptor Action Level	Unit
CV41-002	749599 73	2087015 06	Uranium, Total	7	9	7 6032	5 32	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	3	5	8 91	6 52	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	0 5	1	20 8791	6 12	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	5	7	25 3341	14 79	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	9	11	5 94	6 89	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	5	7	28 215	16 52	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	1	3	8 9991	4 84	3 04	2750	67 8	mg/kg
CV41-002	749599 73	2087015 06	Uranium, Total	1	3	8 91	5 52	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	0 5	1	5 9697	6 09	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	9	11	10 2465	5 94	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	3	5	7 3656	6 21	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	7	9	11 1672	5 70	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	0 5	1	5 94	6 22	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	3	5	8 91	6 76	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	1	3	9 8307	5 17	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	9	11	11 88	6 14	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	5	7	8 91	6 98	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	1	3	11 88	6 12	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	7	9	11 88	6 04	3 04	2750	67 8	mg/kg
CV41-003	749597 05	2087050 64	Uranium, Total	5	7	9 8604	6 71	3 04	2750	67 8	mg/kg
CV41-004	749619 88	2087073 47	Uranium, Total	8 5	10 5	8 7318	8 35	3 04	2750	67 8	mg/kg
CV41-004	749619 88	2087073 47	Uranium, Total	4 5	6 5	5 7321	5 23	3 04	2750	67 8	mg/kg
CV41-004	749619 88	2087073 47	Uranium, Total	6 5	8 5	4 9896	4 63	3 04	2750	67 8	mg/kg
CV41-004	749619 88	2087073 47	Uranium, Total	0 5	2 5	6 8607	5 44	3 04	2750	67 8	mg/kg
CV41-005	749593 02	2087086 22	Uranium, Total	0 5	1	4 6035	1 99	3 04	2750	67 8	mg/kg
CV41-006	749621 22	2087106 37	Uranium, Total	0 5	2 5	6 8607	5 67	3 04	2750	67 8	mg/kg
CV41-006	749621 22	2087106 37	Uranium, Total	6 5	8 5	6 3558	4 51	3 04	2750	67 8	mg/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Northing	Easting	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection/Reporting Limit	Background Mean Plus 2 Standard Deviations	Within Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CV41-006	749621 22	2087106 37	Uranium, Total	8 5	10 5	12 474	4 63	3 04	2750	67 8	mg/kg
CV41-006	749621 22	2087106 37	Uranium, Total	2 5	4 5	8 2863	5 67	3 04	2750	67 8	mg/kg
CW40-000	749477 67	2087139 09	Uranium, Total	3	5	4 0689	1 75	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	4 5	6 5	22 5423	6 36	3 04	2750	67 8	mg/kg
CW40-001	749448.88	2087145 33	Uranium, Total	6 5	8 5	15 2361	6 36	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	2 5	4 5	13 3353	6 56	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	8 5	10 5	12 8007	5 94	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	8 5	10 5	14 85	6 41	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	4 5	6 5	23 76	6 80	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	0 5	2 5	14 85	6 67	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	0 5	2 5	12 9789	5 79	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	2 5	4 5	14 85	6 74	3 04	2750	67 8	mg/kg
CW40-001	749448 88	2087145 33	Uranium, Total	6 5	8 5	17 82	7 07	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	4 5	6 5	13 7808	5 44	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	8 5	10 5	11 2266	6 65	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	0 5	2 5	11 88	7 74	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	6 5	8 5	9 4743	6 65	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	2 5	4 5	12 8601	6 00	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	0 5	2 5	10 3653	6 62	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	2 5	4 5	12 8601	6 00	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	4 5	6 5	13 7808	5 44	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	8 5	10 5	11 2266	6 65	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	4 5	6 5	14 85	5 72	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	6 5	8 5	9 4743	6 65	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	8 5	10 5	11 88	7 02	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	2 5	4 5	14 85	6 76	3 04	2750	67 8	mg/kg
CW40-002	749468 30	2087173 08	Uranium, Total	6 5	8 5	8 91	7 29	3 04	2750	67 8	mg/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Easting	Northing	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Range Action Level	Ecological Receptor Action Level	Unit
CW40-003	749457 21	2087207 75	Uranium, Total	4 5	6 5	3 5343	2 09	3 04	2750	67 8	mg/kg
CW40-003	749457 21	2087207 75	Uranium, Total	6 5	8 5	3 5343	2 27	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	2 5	4 5	12 177	5 82	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	4 5	6 5	8 91	4 31	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	6 5	8 5	9 0288	5 02	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	0 5	2 5	7 8111	5 14	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	2 5	4 5	14 85	6 47	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	4 5	6 5	6 831	3 80	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	2 5	4 5	4 3956	3 06	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	2 5	4 5	12 177	5 82	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	4 5	6 5	6 831	3 80	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	6 5	8 5	9 0288	5 02	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	4 5	6 5	6 5934	4 57	3 04	2750	67 8	mg/kg
CW40-004	749479 75	2087204 29	Uranium, Total	6 5	8 5	8 91	5 62	3 04	2750	67 8	mg/kg
CW41-000	749618 53	2087142 62	Uranium, Total	4 5	6 5	9 0585	4 07	3 04	2750	67 8	mg/kg
CW41-000	749618 53	2087142 62	Uranium, Total	6 5	8 5	5 1975	4 31	3 04	2750	67 8	mg/kg
CW41-000	749618 53	2087142 62	Uranium, Total	0 5	2 5	6 3855	4 96	3 04	2750	67 8	mg/kg
CW41-000	749618 53	2087142 62	Uranium, Total	2 5	4 5	5 9103	3 56	3 04	2750	67 8	mg/kg
CW41-000	749618 53	2087142 62	Uranium, Total	8 5	10 5	4 8411	3 89	3 04	2750	67 8	mg/kg
CW41-001	749648 07	2087163 44	Uranium, Total	2 5	4 5	7 9893	4 99	3 04	2750	67 8	mg/kg
CW41-001	749648 07	2087163 44	Uranium, Total	8 5	10 5	11 9097	3 80	3 04	2750	67 8	mg/kg
CW41-001	749648 07	2087163 44	Uranium, Total	0 5	2 5	4 752	4 31	3 04	2750	67 8	mg/kg
CW41-002	749622 56	2087178 88	Uranium, Total	6 5	8 5	7 5438	7 45	3 04	2750	67 8	mg/kg
CW41-002	749622 56	2087178 88	Uranium, Total	2 5	4 5	11 7315	5 64	3 04	2750	67 8	mg/kg
CW41-002	749622 56	2087178 88	Uranium, Total	4 5	6 5	18 5328	6 03	3 04	2750	67 8	mg/kg
CW41-002	749622 56	2087178 88	Uranium, Total	0 5	2 5	7 722	6 71	3 04	2750	67 8	mg/kg
CW41-002	749622 56	2087178 88	Uranium, Total	0 5	2 5	8 019	6 90	3 04	2750	67 8	mg/kg

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Northing	Easting	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection/Reporting Limit	Background Mean Plus 2 Standard Deviations	Industrial Scenario Worker Action Level	Ecological Receptor Action Level	Unit
CW41-002	749622 56	2087178 88	Uranium, Total	2 5	4 5	16 335	7 86	3 04	2750	67 8	mg/kg
CV40-000	749457 38	2087080 79	Uranium-234	3	5	5 38	2 12	2 64	300	1800	pCi/g
CV40-000	749457 38	2087080 79	Uranium-234	3	5	6 2	2 44	2 64	300	1800	pCi/g
CV40-000	749457 38	2087080 79	Uranium-234	5	7	4 562	2 11	2 64	300	1800	pCi/g
CV40-000	749457 38	2087080 79	Uranium-234	0 5	1	3 75	2 40	2 64	300	1800	pCi/g
CV40-000	749457 38	2087080 79	Uranium-234	5	7	4 38	2 03	2 64	300	1800	pCi/g
CV40-000	749457 38	2087080 79	Uranium-234	7	9	2 75	1 99	2 64	300	1800	pCi/g
CV40-000	749457 38	2087080 79	Uranium-234	7	9	3 2	2 34	2 64	300	1800	pCi/g
CV40-000	749457 38	2087080 79	Uranium-234	0 5	1	3 9	2 50	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	3	5	5	2 41	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	1	3	2 77	1 85	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	5	7	5 71	2 82	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	0 5	1	3 7	2 42	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	7	9	5 1	3 64	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	5	7	8 4	4 14	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	0 5	1	3 56	2 33	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	7	9	3 83	2 72	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	3	5	4 79	2 32	2 64	300	1800	pCi/g
CV40-001	749480 09	2087106 49	Uranium-234	1	3	3 3	2 19	2 64	300	1800	pCi/g
CV41-000	749584 29	2086966 71	Uranium-234	7	9	4 11	1 63	2 64	300	1800	pCi/g
CV41-000	749584 29	2086966 71	Uranium-234	9	11	2 65	2 38	2 64	300	1800	pCi/g
CV41-000	749584 29	2086966 71	Uranium-234	9	11	3	2 46	2 64	300	1800	pCi/g
CV41-000	749584 29	2086966 71	Uranium-234	7	9	4	1 78	2 64	300	1800	pCi/g
CV41-000	749584 29	2086966 71	Uranium-234	0 5	1	3 95	2 26	2 64	300	1800	pCi/g
CV41-000	749584 29	2086966 71	Uranium-234	1	3	5 11	2 59	2 64	300	1800	pCi/g
CV41-001	749570 86	2086994 24	Uranium-234	0 5	2 5	3 36	1 49	2 64	300	1800	pCi/g
CV41-001	749570 86	2086994 24	Uranium-234	6 5	8 5	2 87	1 51	2 64	300	1800	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Recreator Action Level	Unit
CV41-001	749570 86	2086994 24	Uranium-234	4 5	6 5	3 61	1 85	2 64	300	1800	pCi/g
CV41-002	749599 73	2087015 06	Uranium-234	1	3	3 03	1 63	2 64	300	1800	pCi/g
CV41-002	749599 73	2087015 06	Uranium-234	3	5	3	2 20	2 64	300	1800	pCi/g
CV41-002	749599 73	2087015 06	Uranium-234	0 5	1	7 03	2 06	2 64	300	1800	pCi/g
CV41-002	749599 73	2087015 06	Uranium-234	5	7	8 53	4 98	2 64	300	1800	pCi/g
CV41-002	749599 73	2087015 06	Uranium-234	7	9	3	1 95	2 64	300	1800	pCi/g
CV41-002	749599 73	2087015 06	Uranium-234	5	7	9 5	5 56	2 64	300	1800	pCi/g
CV41-002	749599 73	2087015 06	Uranium-234	1	3	3	1 86	2 64	300	1800	pCi/g
CV41-002	749599 73	2087015 06	Uranium-234	0 5	1	7	2 11	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	1	3	3 31	1 74	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	5	7	3	2 35	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	1	3	4	2 06	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	7	9	4	2 03	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	9	11	4	2 07	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	3	5	3	2 28	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	5	7	3 32	2 26	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	9	11	3 45	2 00	2 64	300	1800	pCi/g
CV41-003	749597 05	2087050 64	Uranium-234	7	9	3 76	1 92	2 64	300	1800	pCi/g
CV41-004	749619 88	2087073 47	Uranium-234	8 5	10 5	2 94	2 81	2 64	300	1800	pCi/g
CV41-006	749621 22	2087106 37	Uranium-234	2 5	4 5	2 79	1 91	2 64	300	1800	pCi/g
CV41-006	749621 22	2087106 37	Uranium-234	8 5	10 5	4 2	1 56	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	0 5	2 5	4 37	1 95	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	4 5	6 5	8	2 29	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	2 5	4 5	4 49	2 21	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	0 5	2 5	5	2 25	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	8 5	10 5	5	2 16	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	6 5	8 5	6	2 38	2 64	300	1800	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection/Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Range Worker Action Level	Ecological Receptor Action Level	Unit
CW40-001	749448 88	2087145 33	Uranium-234	2 5	4 5	5	2 27	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	8 5	10 5	4 31	2 00	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	6 5	8 5	5 13	2 14	2 64	300	1800	pCi/g
CW40-001	749448 88	2087145 33	Uranium-234	4 5	6 5	7 59	2 14	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	2 5	4 5	5	2 28	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	6 5	8 5	3	2 46	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	8 5	10 5	4	2 36	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	2 5	4 5	4 33	2 02	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	0 5	2 5	3 49	2 23	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	8 5	10 5	3 78	2 24	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	4 5	6 5	5	1 92	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	6 5	8 5	3 19	2 24	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	0 5	2 5	4	2 61	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	6 5	8 5	3 19	2 24	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	4 5	6 5	4 64	1 83	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	8 5	10 5	3 78	2 24	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	4 5	6 5	4 64	1 83	2 64	300	1800	pCi/g
CW40-002	749468 30	2087173 08	Uranium-234	2 5	4 5	4 33	2 02	2 64	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	2 5	4 5	4 1	1 96	2 64	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	6 5	8 5	3 04	1 69	2 64	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	6 5	8 5	3	1 89	2 64	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	2 5	4 5	4 1	1 96	2 64	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	4 5	6 5	3	1 45	2 64	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	6 5	8 5	3 04	1 69	2 64	300	1800	pCi/g
CW40-004	749479 75	2087204 29	Uranium-234	2 5	4 5	5	2 18	2 64	300	1800	pCi/g
CW41-000	749618 53	2087142 62	Uranium-234	4 5	6 5	3 05	1 37	2 64	300	1800	pCi/g
CW41-001	749648 07	2087163 44	Uranium-234	2 5	4 5	2 69	1 68	2 64	300	1800	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Industrial Recreation Action Levels	Unit
CW41-001	749648 07	2087163 44	Uranium-234	8 5	10 5	4 01	1 28	2 64	300	1800	pCi/g
CW41-002	749622 56	2087178 88	Uranium-234	2 5	4 5	3 95	1 90	2 64	300	1800	pCi/g
CW41-002	749622 56	2087178 88	Uranium-234	4 5	6 5	6 24	2 03	2 64	300	1800	pCi/g
CW41-002	749622 56	2087178 88	Uranium-234	0 5	2 5	2 7	2 32	2 64	300	1800	pCi/g
CW41-002	749622 56	2087178 88	Uranium-234	2 5	4 5	5 5	2 65	2 64	300	1800	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	0 5	1	0 33	0 25	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	9	11	0 125	0 08	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	1	3	0 192	0 15	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	1	3	0 22	0 18	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	7	9	0 263	0 21	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	7	9	0 31	0 25	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	0 5	1	0 318	0 24	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	3	5	0 249	0 22	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-235	3	5	0 29	0 25	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	5	7	0 351	0 21	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	7	9	0 28	0 27	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	3	5	0 29	0 21	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	1	3	0 3	0 23	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	7	9	0 211	0 20	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	0 5	1	0 13	0 11	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	1	3	0 257	0 19	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	0 5	1	0 124	0 11	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	5	7	0 52	0 31	0 12	8	1900	pCi/g
CV40-001	749480 09	2087106 49	Uranium-235	3	5	0 3	0 22	0 12	8	1900	pCi/g
CV41-000	749584 29	2086966 71	Uranium-235	9	11	0 4	0 16	0 12	8	1900	pCi/g
CV41-000	749584 29	2086966 71	Uranium-235	7	9	0 3	0 19	0 12	8	1900	pCi/g
CV41-000	749584 29	2086966 71	Uranium-235	7	9	0 245	0 18	0 12	8	1900	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CV41-000	749584 29	2086966 71	Uranium-235	0 5	1	0 244	0 22	0 12	8	1900	pCi/g
CV41-000	749584 29	2086966 71	Uranium-235	3	5	0 276	0 16	0 12	8	1900	pCi/g
CV41-000	749584 29	2086966 71	Uranium-235	1	3	0 334	0 27	0 12	8	1900	pCi/g
CV41-000	749584 29	2086966 71	Uranium-235	9	11	0 354	0 16	0 12	8	1900	pCi/g
CV41-001	749570 86	2086994 24	Uranium-235	0 5	2 5	0 168	0 13	0 12	8	1900	pCi/g
CV41-001	749570 86	2086994 24	Uranium-235	4 5	6 5	0 184	0 14	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	3	5	0 3	0 22	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	0 5	1	0 3	0 24	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	1	3	0 2	0 21	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	0 5	1	0 248	0 24	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	7	9	0 2	0 20	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	3	5	0 25	0 19	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	9	11	0 166	0 19	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	5	7	0 162	0 13	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	1	3	0 206	0 18	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	5	7	0 2	0 14	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	7	9	0 224	0 18	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	7	9	0 224	0 18	0 12	8	1900	pCi/g
CV41-002	749599 73	2087015 06	Uranium-235	9	11	0 2	0 21	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	7	9	0 239	0 19	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	0 5	1	0 182	0 17	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	1	3	0 2	0 18	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	5	7	0 222	0 17	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	7	9	0 3	0 20	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	9	11	0 25	0 18	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	3	5	0 2	0 22	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	5	7	0 2	0 18	0 12	8	1900	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CV41-003	749597 05	2087050 64	Uranium-235	1	3	0 205	0 16	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	3	5	0 207	0 21	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	9	11	0 3	0 19	0 12	8	1900	pCi/g
CV41-003	749597 05	2087050 64	Uranium-235	0 5	1	0 2	0 17	0 12	8	1900	pCi/g
CV41-004	749619 88	2087073 47	Uranium-235	6 5	8 5	0 257	0 17	0 12	8	1900	pCi/g
CV41-004	749619 88	2087073 47	Uranium-235	2 5	4 5	0 435	0 24	0 12	8	1900	pCi/g
CV41-004	749619 88	2087073 47	Uranium-235	4 5	6 5	0 285	0 16	0 12	8	1900	pCi/g
CV41-004	749619 88	2087073 47	Uranium-235	8 5	10 5	0 236	0 17	0 12	8	1900	pCi/g
CV41-005	749593 02	2087086 22	Uranium-235	5	7	0 142	0 08	0 12	8	1900	pCi/g
CV41-006	749621 22	2087106 37	Uranium-235	6 5	8 5	0 176	0 16	0 12	8	1900	pCi/g
CV41-006	749621 22	2087106 37	Uranium-235	0 5	2 5	0 231	0 21	0 12	8	1900	pCi/g
CV41-006	749621 22	2087106 37	Uranium-235	2 5	4 5	0 324	0 19	0 12	8	1900	pCi/g
CV41-006	749621 22	2087106 37	Uranium-235	4 5	6 5	0 279	0 22	0 12	8	1900	pCi/g
CV41-006	749621 22	2087106 37	Uranium-235	8 5	10 5	0 191	0 16	0 12	8	1900	pCi/g
CW40-000	749477 67	2087139 09	Uranium-235	0 5	1	0 128	0 09	0 12	8	1900	pCi/g
CW40-000	749477 67	2087139 09	Uranium-235	5	7	0 131	0 06	0 12	8	1900	pCi/g
CW40-000	749477 67	2087139 09	Uranium-235	3	5	0 123	0 07	0 12	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	4 5	6 5	0 262	0 19	0 12	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	6 5	8 5	0 272	0 16	0 12	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	8 5	10 5	0 173	0 17	0 12	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	4 5	6 5	0 3	0 20	0 12	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	6 5	8 5	0 3	0 18	0 12	8	1900	pCi/g
CW40-001	749448 88	2087145 33	Uranium-235	8 5	10 5	0 2	0 18	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	6 5	8 5	0 218	0 14	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	2 5	4 5	0 22	0 16	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	6 5	8 5	0 218	0 14	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	0 5	2 5	0 354	0 23	0 12	8	1900	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CW40-002	749468 30	2087173 08	Uranium-235	2 5	4 5	0 22	0 16	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	4 5	6 5	0 194	0 16	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	6 5	8 5	0 2	0 15	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	4 5	6 5	0 194	0 16	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	8 5	10 5	0 3	0 20	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	8 5	10 5	0 274	0 19	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	0 5	2 5	0 4	0 27	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	4 5	6 5	0 2	0 16	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	8 5	10 5	0 274	0 19	0 12	8	1900	pCi/g
CW40-002	749468 30	2087173 08	Uranium-235	2 5	4 5	0 2	0 18	0 12	8	1900	pCi/g
CW40-003	749457 21	2087207 75	Uranium-235	6 5	8 5	0 122	0 08	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	0 5	2 5	0 145	0 13	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	6 5	8 5	0 188	0 16	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	0 5	2 5	0 397	0 22	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	4 5	6 5	0 2	0 14	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	4 5	6 5	0 161	0 13	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	4 5	6 5	0 161	0 13	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	2 5	4 5	0 132	0 11	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	6 5	8 5	0 188	0 16	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	0 5	2 5	0 397	0 22	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	6 5	8 5	0 2	0 17	0 12	8	1900	pCi/g
CW40-004	749479 75	2087204 29	Uranium-235	0 5	2 5	0 5	0 25	0 12	8	1900	pCi/g
CW41-000	749618 53	2087142 62	Uranium-235	4 5	6 5	0 154	0 11	0 12	8	1900	pCi/g
CW41-000	749618 53	2087142 62	Uranium-235	0 5	2 5	0 124	0 11	0 12	8	1900	pCi/g
CW41-000	749618 53	2087142 62	Uranium-235	2 5	4 5	0 131	0 12	0 12	8	1900	pCi/g
CW41-000	749618 53	2087142 62	Uranium-235	6 5	8 5	0 125	0 12	0 12	8	1900	pCi/g
CW41-001	749648 07	2087163 44	Uranium-235	4 5	6 5	0 232	0 15	0 12	8	1900	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CW41-002	749622 56	2087178 88	Uranium-235	0 5	2 5	0 246	0 20	0 12	8	1900	pCi/g
CW41-002	749622 56	2087178 88	Uranium-235	2 5	4 5	0 39	0 26	0 12	8	1900	pCi/g
CW41-002	749622 56	2087178 88	Uranium-235	2 5	4 5	0 278	0 18	0 12	8	1900	pCi/g
CW41-002	749622 56	2087178 88	Uranium-235	6 5	8 5	0 303	0 21	0 12	8	1900	pCi/g
CW41-002	749622 56	2087178 88	Uranium-235	0 5	2 5	0 25	0 21	0 12	8	1900	pCi/g
CW41-002	749622 56	2087178 88	Uranium-235	4 5	6 5	0 182	0 16	0 12	8	1900	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	0 5	1	3 75	2 40	1 49	351	1600	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	5	7	4 38	2 03	1 49	351	1600	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	7	9	2 75	1 99	1 49	351	1600	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	7	9	3 2	2 34	1 49	351	1600	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	0 5	1	3 9	2 50	1 49	351	1600	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	3	5	5 38	2 12	1 49	351	1600	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	3	5	6 2	2 44	1 49	351	1600	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	5	7	4 562	2 11	1 49	351	1600	pCi/g
CV40-000	749457 38	2087080 79	Uranium-238	9	11	1 5	0 61	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	3	5	4 79	2 32	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	1	3	3 3	2 19	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	3	5	5	2 41	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	0 5	1	3 7	2 42	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	5	7	5 71	2 82	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	1	3	2 77	1 85	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	5	7	8 4	4 14	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	7	9	5 1	3 64	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	7	9	3 83	2 72	1 49	351	1600	pCi/g
CV40-001	749480 09	2087106 49	Uranium-238	0 5	1	3 56	2 33	1 49	351	1600	pCi/g
CV41-000	749584 29	2086966 71	Uranium-238	9	11	2 65	2 38	1 49	351	1600	pCi/g
CV41-000	749584 29	2086966 71	Uranium-238	7	9	4	1 78	1 49	351	1600	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CV41-000	749584 29	2086966 71	Uranium-238	0 5	1	3 95	2 26	1 49	351	1600	pCi/g
CV41-000	749584 29	2086966 71	Uranium-238	1	3	5 11	2 59	1 49	351	1600	pCi/g
CV41-000	749584 29	2086966 71	Uranium-238	9	11	3	2 46	1 49	351	1600	pCi/g
CV41-000	749584 29	2086966 71	Uranium-238	7	9	4 11	1 63	1 49	351	1600	pCi/g
CV41-001	749570 86	2086994 24	Uranium-238	0 5	2 5	3 36	1 49	1 49	351	1600	pCi/g
CV41-001	749570 86	2086994 24	Uranium-238	6 5	8 5	2 87	1 51	1 49	351	1600	pCi/g
CV41-001	749570 86	2086994 24	Uranium-238	2 5	4 5	2 17	1 26	1 49	351	1600	pCi/g
CV41-001	749570 86	2086994 24	Uranium-238	4 5	6 5	3 61	1 85	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	9	11	2	2 32	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	7	9	2 56	1 79	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	5	7	8 53	4 98	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	5	7	9 5	5 56	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	0 5	1	7 03	2 06	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	3	5	3	2 20	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	7	9	2 56	1 79	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	7	9	3	1 95	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	9	11	2 03	2 14	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	1	3	3 03	1 63	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	3	5	2 38	1 96	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	1	3	3	1 86	1 49	351	1600	pCi/g
CV41-002	749599 73	2087015 06	Uranium-238	0 5	1	7	2 11	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	9	11	4	2 07	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	1	3	3 31	1 74	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	0 5	1	2 01	2 05	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	9	11	3 45	2 00	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	0 5	1	2	2 09	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	3	5	2 48	2 09	1 49	351	1600	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CV41-003	749597 05	2087050 64	Uranium-238	7	9	3 76	1 92	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	5	7	3	2 35	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	7	9	4	2 03	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	1	3	4	2 06	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	5	7	3 32	2 26	1 49	351	1600	pCi/g
CV41-003	749597 05	2087050 64	Uranium-238	3	5	3	2 28	1 49	351	1600	pCi/g
CV41-004	749619 88	2087073 47	Uranium-238	8 5	10 5	2 94	2 81	1 49	351	1600	pCi/g
CV41-004	749619 88	2087073 47	Uranium-238	6 5	8 5	1 68	1 56	1 49	351	1600	pCi/g
CV41-004	749619 88	2087073 47	Uranium-238	4 5	6 5	1 93	1 76	1 49	351	1600	pCi/g
CV41-004	749619 88	2087073 47	Uranium-238	0 5	2 5	2 31	1 83	1 49	351	1600	pCi/g
CV41-005	749593 02	2087086 22	Uranium-238	0 5	1	1 55	0 67	1 49	351	1600	pCi/g
CV41-006	749621 22	2087106 37	Uranium-238	0 5	2 5	2 31	1 91	1 49	351	1600	pCi/g
CV41-006	749621 22	2087106 37	Uranium-238	6 5	8 5	2 14	1 52	1 49	351	1600	pCi/g
CV41-006	749621 22	2087106 37	Uranium-238	8 5	10 5	4 2	1 56	1 49	351	1600	pCi/g
CV41-006	749621 22	2087106 37	Uranium-238	2 5	4 5	2 79	1 91	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	4 5	6 5	7 59	2 14	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	8 5	10 5	4 31	2 00	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	6 5	8 5	5 13	2 14	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	2 5	4 5	4 49	2 21	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	4 5	6 5	8	2 29	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	8 5	10 5	5	2 16	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	0 5	2 5	5	2 25	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	0 5	2 5	4 37	1 95	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	2 5	4 5	5	2 27	1 49	351	1600	pCi/g
CW40-001	749448 88	2087145 33	Uranium-238	6 5	8 5	6	2 38	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	4 5	6 5	5	1 92	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	6 5	8 5	3 19	2 24	1 49	351	1600	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CW40-002	749468 30	2087173 08	Uranium-238	0 5	2 5	4	2 61	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	6 5	8 5	3 19	2 24	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	4 5	6 5	4 64	1 83	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	8 5	10 5	3 78	2 24	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	2 5	4 5	4 33	2 02	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	0 5	2 5	3 49	2 23	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	8 5	10 5	3 78	2 24	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	2 5	4 5	4 33	2 02	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	4 5	6 5	4 64	1 83	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	2 5	4 5	5	2 28	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	8 5	10 5	4	2 36	1 49	351	1600	pCi/g
CW40-002	749468 30	2087173 08	Uranium-238	6 5	8 5	3	2 46	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	2 5	4 5	4 1	1 96	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	0 5	2 5	2 63	1 73	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	2 5	4 5	5	2 18	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	4 5	6 5	2 3	1 28	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	4 5	6 5	3	1 45	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	6 5	8 5	3 04	1 69	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	2 5	4 5	4 1	1 96	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	6 5	8 5	3 04	1 69	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	6 5	8 5	3	1 89	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	4 5	6 5	2 3	1 28	1 49	351	1600	pCi/g
CW40-004	749479 75	2087204 29	Uranium-238	4 5	6 5	2 22	1 54	1 49	351	1600	pCi/g
CW41-000	749618 53	2087142 62	Uranium-238	6 5	8 5	1 75	1 45	1 49	351	1600	pCi/g
CW41-000	749618 53	2087142 62	Uranium-238	4 5	6 5	3 05	1 37	1 49	351	1600	pCi/g
CW41-000	749618 53	2087142 62	Uranium-238	0 5	2 5	2 15	1 67	1 49	351	1600	pCi/g
CW41-000	749618 53	2087142 62	Uranium-238	8 5	10 5	1 63	1 31	1 49	351	1600	pCi/g

Table 4
Subsurface Soil Results Greater Than Background Mean Plus Two Standard Deviations or Detection/Reporting Limits with RFCA ALs

Location Code	Latitude	Longitude	Analyte	Start Depth (feet)	End Depth (feet)	Result	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
CW41-000	749618 53	2087142 62	Uranium-238	2 5	4 5	1 99	1 20	1 49	351	1600	pCi/g
CW41-001	749648 07	2087163 44	Uranium-238	8 5	10 5	4 01	1 28	1 49	351	1600	pCi/g
CW41-001	749648 07	2087163 44	Uranium-238	2 5	4 5	2 69	1 68	1 49	351	1600	pCi/g
CW41-001	749648 07	2087163 44	Uranium-238	0 5	2 5	1 6	1 45	1 49	351	1600	pCi/g
CW41-002	749622 56	2087178 88	Uranium-238	4 5	6 5	6 24	2 03	1 49	351	1600	pCi/g
CW41-002	749622 56	2087178 88	Uranium-238	6 5	8 5	2 54	2 51	1 49	351	1600	pCi/g
CW41-002	749622 56	2087178 88	Uranium-238	2 5	4 5	3 95	1 90	1 49	351	1600	pCi/g
CW41-002	749622 56	2087178 88	Uranium-238	0 5	2 5	2 7	2 32	1 49	351	1600	pCi/g
CW41-002	749622 56	2087178 88	Uranium-238	0 5	2 5	2 6	2 26	1 49	351	1600	pCi/g
CW41-002	749622 56	2087178 88	Uranium-238	2 5	4 5	5 5	2 65	1 49	351	1600	pCi/g

Table 5
IHSS Group NE/NW Surface Soil Summary of Analytical Results with RFCA Action Levels

Analyte	Total Number Samples Analyzed	Detection Frequency	Average Concentration	Maximum Concentration	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
4,4'-DDE	4	75 00%	5 90	9 5	1 75	-	101000	-	ug/kg
Acenaphthene	33	3 03%	346 09	420	49 39	-	40800000	-	ug/kg
Aluminum	36	50 00%	15734 72	27400	1 63	16902 00	228000	-	mg/kg
Americium-241	43	60 47%	1 52	10 5	0 65	0 02	76	1900	pci/g
Anthracene	33	6 06%	346 67	420	83 00	-	204000000	-	ug/kg
Aroclor-1254	31	54 84%	68 51	530	7 15	-	12400	371000	ug/kg
Aroclor-1260	31	41 94%	49 06	240	5 85	-	12400	-	ug/kg
Barium	36	22 22%	111 10	202	0 05	141 26	26400	-	mg/kg
Benzo(a)anthracene	33	21 21%	297 48	420	41 97	-	34900	800000	ug/kg
Benzo(a)pyrene	33	6 06%	345 76	420	97 39	-	3490	25700	ug/kg
Benzo(b)fluoranthene	33	3 03%	350 91	420	105 39	-	34900	1010000	ug/kg
Benzo(k)fluoranthene	33	6 06%	343 33	420	97 70	-	349000	1010000	ug/kg
Benzoic Acid	33	6 06%	1672 73	2000	594 24	-	1000000000	-	ug/kg
Beryllium	36	8 33%	0 63	1 3	0 04	0 97	921	2 15	mg/kg
bis(2-Ethylhexyl)phthalate	33	12 12%	353 33	470	74 27	-	1970000	-	ug/kg
Cadmium	36	2 78%	0 43	2 6	0 04	1 61	962	-	mg/kg
Chromium	36	30 56%	16 03	31 1	0 23	16 99	268	-	mg/kg
Chrysene	33	21 21%	303 39	420	55 94	-	3490000	-	ug/kg
Cobalt	36	2 78%	5 54	21 6	0 24	10 91	1550	-	mg/kg
Copper	36	22 22%	15 42	36 9	0 18	18 06	40900	-	mg/kg
Dieldrin	4	50 00%	7 18	9 5	2 98	-	1720	-	ug/kg
Endrin	4	75 00%	5 98	9 5	2 08	-	221000	-	ug/kg
Fluoranthene	33	36 36%	297 24	620	87 25	-	27200000	-	ug/kg
Indeno(1,2,3-cd)pyrene	33	6 06%	340 36	420	51 36	-	34900	-	ug/kg

Table 5
IHSS Group NE/NW Surface Soil Summary of Analytical Results with RFCA Action Levels

Analyte	Total Number Samples Analyzed	Detection Frequency	Average Concentration	Maximum Concentration	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
Iron	36	16 67%	13329 44	23800	1 60	18037 00	307000	-	mg/kg
Lead	36	2 78%	29 26	67 8	0 21	54 62	1000	25 6	mg/kg
Lithium	36	69 44%	13 03	25 1	0 22	11 55	20400	-	mg/kg
Manganese	36	11 11%	215 25	438	0 04	365 08	3480	-	mg/kg
Mercury	36	5 56%	0 04	0 16	0 00	0 13	25200	-	mg/kg
Methoxychlor	4	75 00%	8 45	18	0 94	-	5110000	-	ug/kg
Methylene chloride	2	100 00%	110 75	220	0 80	-	2530000	39500	ug/kg
Nickel	36	38 89%	14 92	48 4	0 55	14 91	20400	-	mg/kg
Plutonium-239/240	43	60 47%	15 54	88 08	0 65	0 07	50/116	3800	pci/g
Pyrene	33	72 73%	189 00	640	44 15	-	22100000	-	ug/kg
Selenium	36	11 11%	0 69	1 9	0 44	1 22	5110	-	mg/kg
Strontium	36	38 89%	63 10	362	0 01	48 94	613000	-	mg/kg
Tetrachloroethene	1	100 00%	10 00	10	0 99	-	615000	37500	ug/kg
Uranium-234	43	60 47%	3 09	8	1 72	2 25	300	1800	pci/g
Uranium-235	43	72 09%	0 20	0 5	0 14	0 09	8	1900	pci/g
Uranium-238	43	67 44%	3 09	8	1 72	2 00	351	1600	pci/g
Vanadium	36	5 56%	29 88	58 1	0 29	45 59	7150	433	mg/kg
Zinc	36	8 33%	48 84	104	0 44	73 76	307000	-	mg/kg

* Plutonium-239/240 result estimated from Americium-241 result via gamma spectrometry

Table 6
IHSS Group NE/NW Subsurface Soil Summary of Analytical Results with RFCA Action Levels

Analyte	Total Number Samples Analyzed	Detection Frequency	Average Concentration	Maximum Concentration	Standard Deviation	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Range Worker Action Level	Ecological Receptor Action Level	Unit
1,1,2,2-Tetrachloroethane	126	0 79%	95 11	5500	671 18	9 62	-	100000	-	ug/kg
2-Butanone	126	15 87%	225 88	8100	1096 71	114 64	-	192000000	433000	ug/kg
2-Methylnaphthalene	103	0 97%	438 06	3900	473 61	75 50	-	20400000	-	ug/kg
Acenaphthene	103	1 94%	435 44	3900	474 54	61 20	-	40800000	-	ug/kg
Acetone	126	36 51%	406 72	22000	2696 68	144 36	-	102000000	211000	ug/kg
Aluminum	92	1 09%	11612 17	38000	6284 39	1 33	16902 00	228000	-	mg/kg
Americium-241	152	0 66%	0 60	0 969	0 20	0 65	0 02	76	1900	pci/g
Anthracene	103	5 83%	418 83	3900	408 91	102 21	-	204000000	-	ug/kg
Antimony	92	1 09%	4 29	350	36 44	0 46	-	409	-	mg/kg
Aroclor-1254	93	13 98%	101 98	2500	291 18	11 77	-	12400	371000	ug/kg
Aroclor-1260	93	6 45%	65 09	390	92 35	9 90	-	12400	-	ug/kg
Arsenic	92	2 17%	4 45	17 8	2 95	0 63	10 09	22.2	21 6	mg/kg
Barium	92	1 09%	77 12	838	89 41	0 04	141 26	26400	-	mg/kg
Benzo(a)anthracene	103	11 65%	452 33	7500	788 61	52 11	-	34900	800000	ug/kg
Benzo(a)pyrene	103	9 71%	481 46	9300	947 10	119 23	-	3490	25700	ug/kg
Benzo(b)fluoranthene	103	4 85%	469 61	7100	749 01	128 46	-	34900	1010000	ug/kg
Benzo(k)fluoranthene	103	4 85%	479 03	8000	827 89	120 07	-	349000	1010000	ug/kg
bis(2-Ethylhexyl)phthalate	103	1 94%	412 14	3900	357 19	92 04	-	1970000	-	ug/kg
Cadmium	92	8 70%	1 20	58 7	6 29	0 05	1 61	962	-	mg/kg
Chromium	92	3 26%	16 68	191	25 55	0 06	16 99	268	-	mg/kg
Chrysene	103	13 59%	469 59	8500	876 24	68 43	-	3490000	-	ug/kg
Copper	92	2 17%	9 50	53	7 68	0 17	18 06	40900	-	mg/kg
Dibenz(a,h)anthracene	103	1 94%	420 00	3900	375 84	64 57	-	3490	-	ug/kg
Fluoranthene	103	9 71%	577 18	18000	1770 13	106 10	-	27200000	-	ug/kg
Fluorene	103	1 94%	410 85	3900	356 72	98 49	-	40800000	-	ug/kg
Indeno(1,2,3-cd)pyrene	103	7 77%	418 60	3900	439 49	63 45	-	34900	-	ug/kg

Table 6
IHSS Group NE/NW Subsurface Soil Summary of Analytical Results with RFCA Action Levels

Analyte	Total Number Sample Analyzed	Detection Frequency	Average Concentration	Maximum Concentration	Standard Deviation	Detection or Reporting Limit	Background Mean Plus 2 Standard Deviations	Wildlife Refuge Worker Action Level	Ecological Receptor Action Level	Unit
Lead	92	1 09%	7 71	195	20 02	0 21	54 62	1000	25 6	mg/kg
Mercury	92	3 26%	0 14	3 4	0 53	0 00	0 13	25200	-	mg/kg
Methylene chloride	126	54 76%	94 98	5500	671 66	27 40	-	2530000	39500	ug/kg
Molybdenum	92	2 17%	1 30	37 7	5 11	0 14	-	5110	-	mg/kg
Naphthalene	229	0 44%	251 30	5500	613 50	50 72	-	3090000	-	ug/kg
Pentachlorophenol	103	0 97%	2117 38	19000	2272 07	453 48	-	162000	-	ug/kg
Plutonium-239/240	152	0 66%	8 07	11 06952	1 64	0 65	0 07	50/116	3800	pci/g
Pyrene	103	17 48%	651 59	26000	2548 33	55 42	-	22100000	-	ug/kg
Strontium	92	4 35%	61 46	368	63 09	0 01	48 94	613000	-	mg/kg
Tetrachloroethene	126	36 51%	1281 63	72000	9050 93	12 10	-	615000	37500	ug/kg
Trichloroethene	126	8 73%	35 05	1900	209 95	11 87	-	19600	509000	ug/kg
Uranium, Total	456	25 44%	3 31	28 215	5 45	2 02	-	2750	67 8	mg/kg
Uranium-234	152	55 92%	3 31	9 5	1 69	2 01	2 25	300	1800	pci/g
Uranium-235	152	71 71%	0 22	0 52	0 09	0 17	0 09	8	1900	pci/g
Uranium-238	152	73 68%	3 31	9 5	1 69	2 01	2 00	351	1600	pci/g

* Plutonium-239/240 result estimated from Americium-241 result via gamma spectrometry

Table 7
Radionuclides Sum of Ratios for Surface Soil

Location Code	Easting	Northing	Sum of Ratios to Wildlife Refuge Worker Action Level
BW52-000	751772 302	2082012 803	0 11
CV41-001	749570 862	2086994 241	0 02
CV41-004	749619 875	2087073 467	0 01
CV41-006	749621 218	2087106 366	0 37
CW40-001	749448 883	2087145 332	1 72
CW40-002	749468 303	2087173 075	0 68
CW40-003	749457 206	2087207 753	0 92
CW40-004	749479 747	2087204 285	0 70
CW41-002	749622 560	2087178 878	0 06
DB41-000	749574 266	2088280 510	0 49
DB43-000	750163 832	2088219 154	0 04
DB43-001	749963 505	2088226 913	0 03
DB44-000	750231 296	2088317 838	0 13
DC41-000	749715 786	2088426 166	0 14
DC42-000	749918 099	2088478 637	0 05
DC43-000	750152 867	2088442 463	0 11
DD40-000	749572 229	2088585.278	0 02
DD42-000	749777 157	2088664 411	0 18
DD43-000	750249 973	2088554 951	0 51
DD43-001	750003 066	2088550 709	0 04
DD44-000	750275 165	2088472 831	0 13
DF41-000	749737 048	2089000 190	0 03
DF42-000	749906 570	2089129 652	0 18

Table 8
Radionuclides Sum of Ratios for Subsurface Soil

Location Code	Easting	Northing	Start Depth (feet)	End Depth (feet)	Sum of Ratios to Wildlife Refuge Worker Action Level
CV40-000	749457 38	2087080 79	0 5	1	0 13
CV40-000	749457 38	2087080 79	1	3	0 05
CV40-000	749457 38	2087080 79	3	5	0 14
CV40-000	749457 38	2087080 79	5	7	0 06
CV40-000	749457 38	2087080 79	7	9	0 11
CV40-000	749457 38	2087080 79	9	11	0 02
CV40-001	749480 09	2087106 49	0 5	1	0 08
CV40-001	749480 09	2087106 49	1	3	0 11
CV40-001	749480 09	2087106 49	3	5	0 13
CV40-001	749480 09	2087106 49	5	7	0 20
CV40-001	749480 09	2087106 49	7	9	0 12
CV41-000	749584 29	2086966 71	0 5	1	0 05

88

Table 8
Radionuclides Sum of Ratios for Subsurface Soil

Location Code	Easting	Northing	Start Depth (feet)	End Depth (feet)	Sum of Ratios to Wildlife Refuge Worker Action Level
CV41-000	749584 29	2086966 71	1	3	0 07
CV41-000	749584 29	2086966 71	3	5	0 03
CV41-000	749584 29	2086966 71	7	9	0 12
CV41-000	749584 29	2086966 71	9	11	0 13
CV41-001	749570 86	2086994 24	0 5	2 5	0 04
CV41-001	749570 86	2086994 24	2 5	4 5	0 01
CV41-001	749570 86	2086994 24	4 5	6 5	0 05
CV41-001	749570 86	2086994 24	6 5	8 5	0 02
CV41-002	749599 73	2087015 06	0 5	1	0 16
CV41-002	749599 73	2087015 06	1	3	0 09
CV41-002	749599 73	2087015 06	3	5	0 09
CV41-002	749599 73	2087015 06	5	7	0 16
CV41-002	749599 73	2087015 06	7	9	0 11
CV41-002	749599 73	2087015 06	9	11	0 06
CV41-003	749597 05	2087050 64	0 5	1	0 06
CV41-003	749597 05	2087050 64	1	3	0 10
CV41-003	749597 05	2087050 64	3	5	0 08
CV41-003	749597 05	2087050 64	5	7	0 09
CV41-003	749597 05	2087050 64	7	9	0 12
CV41-003	749597 05	2087050 64	9	11	0 11
CV41-004	749619 88	2087073 47	0 5	2 5	0 01
CV41-004	749619 88	2087073 47	2 5	4 5	0 05
CV41-004	749619 88	2087073 47	4 5	6 5	0 04
CV41-004	749619 88	2087073 47	6 5	8 5	0 04
CV41-004	749619 88	2087073 47	8 5	10 5	0 05
CV41-005	749593 02	2087086 22	0 5	1	0 00
CV41-005	749593 02	2087086 22	5	7	0 02
CV41-006	749621 22	2087106 37	0 5	2 5	0 04
CV41-006	749621 22	2087106 37	2 5	4 5	0 06
CV41-006	749621 22	2087106 37	4 5	6 5	0 03
CV41-006	749621 22	2087106 37	6 5	8 5	0 03
CV41-006	749621 22	2087106 37	8 5	10 5	0 05
CW40-000	749477 67	2087139 09	0 5	1	0 02
CW40-000	749477 67	2087139 09	3	5	0 02
CW40-000	749477 67	2087139 09	5	7	0 02
CW40-001	749448 88	2087145 33	0 5	2 5	0 06
CW40-001	749448 88	2087145 33	2 5	4 5	0 06
CW40-001	749448 88	2087145 33	4 5	6 5	0 17
CW40-001	749448 88	2087145 33	6 5	8 5	0 14
CW40-001	749448 88	2087145 33	8 5	10 5	0 10
CW40-002	749468 30	2087173 08	0 5	2 5	0 14
CW40-002	749468 30	2087173 08	2 5	4 5	0 16

89

Table 8
Radionuclides Sum of Ratios for Subsurface Soil

Location Code	Easting	Northing	Start Depth (feet)	End Depth (feet)	Sum of Ratios to Wildlife Refuge Worker Action Level
CW40-002	749468 30	2087173 08	4 5	6 5	0 16
CW40-002	749468 30	2087173 08	6 5	8 5	0 14
CW40-002	749468 30	2087173 08	8 5	10 5	0 18
CW40-003	749457 21	2087207 75	0 5	2 5	0 08
CW40-003	749457.21	2087207 75	6 5	8 5	0 02
CW40-004	749479 75	2087204 29	0 5	2 5	0 19
CW40-004	749479 75	2087204.29	2 5	4 5	0 10
CW40-004	749479 75	2087204 29	4 5	6 5	0 10
CW40-004	749479 75	2087204 29	6 5	8 5	0 13
CW41-000	749618 53	2087142 62	0 5	2 5	0 02
CW41-000	749618 53	2087142 62	2 5	4 5	0 02
CW41-000	749618 53	2087142 62	4 5	6 5	0 04
CW41-000	749618 53	2087142 62	6 5	8 5	0 02
CW41-000	749618 53	2087142 62	8 5	10 5	0 00
CW41-001	749648 07	2087163 44	0 5	2 5	0 00
CW41-001	749648 07	2087163 44	2 5	4 5	0 02
CW41-001	749648 07	2087163 44	4 5	6 5	0 03
CW41-001	749648 07	2087163 44	8 5	10 5	0 02
CW41-002	749622 56	2087178 88	0 5	2 5	0 09
CW41-002	749622 56	2087178 88	2 5	4 5	0 14
CW41-002	749622 56	2087178 88	4 5	6 5	0 06
CW41-002	749622 56	2087178 88	6 5	8 5	0 05

~~89~~
90

3.0 DEVIATIONS FROM PLANNED SAMPLING SPECIFICATIONS

Deviations from the planned sampling specifications described in BZSAP Addendum #BZ-02-01 (DOE 2002b) were approved through the consultative process with EPA and are presented in Table 9

Table 9
IHSS Group NE/NW Deviations From Planned Sampling Specifications

IHSS/PAC	Location Code	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Comments
216 2	No deviations from the planned sampling specifications					
216 3	DB39-000	unplanned		2088323 82	749287 21	Sample locations were added or moved based on topography and approved by EPA during the presampling field walkdown and consultative process
	DC39-000	unplanned		2088448 69	749186 93	
	DG41-001	2089312 89	749743 20	2089248 22	749647 97	
	DD43-001	2088438 18	750004 16	2088550 71	750003 07	
	DC40-000	2088394 64	749416 24	2088396 73	749412 32	
	DB39-000	2088267 14	749247 11	2088448 57	749186 75	
	DB39-001	2088319 18	749273 13	2088323 82	749287 21	
	DD40-000	2088550 76	749551 55	2088585.28	749572 23	
	DD42-000	2088664 41	749777 16	2089129 65	749906 57	
	DE42-000	2088880 00	749926 08	2088837 41	749946 42	
	DG41-000	2089312 89	749743 20	2089248 07	749648 40	
	DD39-000	2088604 66	749159 20	2088620 52	749244 49	
NE-1407	No deviations from the planned sampling specifications					
NE-1412	STEP OUT 1	unplanned		2087034.21	749626 36	Sample locations were added in September 2002 based on VOC results from previous sampling conducted in June 2002
	STEP OUT 2	unplanned		2087079 97	749636 97	
	STEP OUT 3	unplanned		2087116 33	749635 15	
	STEP OUT 4	unplanned		2087113 72	749616 62	
NE-1413	CV40-000	2087078 06	749463 45	2087080 79	749457 38	Sample location deviation was based on topography to accommodate drill rig
174a	BW52-000	2082020 64	751766 82	2082012 80	751772 30	Sample location deviation was due to existing well in planned location

92

4.0 DATA QUALITY ASSESSMENT

The Data Quality Objectives (DQOs) for this project are described in the BZSAP (DOE 2002a) All DQOs for this project were achieved based on the following

- Regulatory agency approved sampling program design (BZSAP Addendum 02-01 [DOE 2002b),
- Collection of samples in accordance with the sampling design,
- Results of the Data Quality Assessment as described in the following sections

4.1.1 Data Quality Assessment Process

The DQA process ensures that the type, quantity and quality of environmental data used in decision making are defensible, and is based on the following guidance and requirements

- EPA QA/G-4, 1994a, Guidance for the Data Quality Objective Process,
- EPA QA/G-9, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, and
- DOE Order 414 1A, 1999, Quality Assurance

Verification and Validation (V&V) of the data are the primary components of the DQA The final data are compared with original project DQOs and evaluated with respect to project decisions, uncertainty within the decisions, and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) Validation criteria are consistent with the following RFETS-specific documents and industry guidelines

- EPA 540/R-94/012, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,
- EPA 540/R-94/013, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, and
- Kaiser-Hill Company, L.L.C (K-H) V&V Guidelines
- General Guidelines for Data Verification and Validation, DA-GR01-v2, 2002a
- V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v2, 2002b
- V&V Guidelines for Volatile Organics, DA-SS01-v3, 2002c
- V&V Guidelines for Semivolatile Organics, DA-SS02-v3, 2002d
- V&V Guidelines for Metals, DA-SS05-v3, 2002e
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5

This report will be submitted to the Comprehensive Environmental, Response, Compensation and Liability Act (CERCLA) Administrative Record (AR) for permanent storage 30 days after being provided to CDPHE and/or U S EPA

4.1.2 Verification and Validation of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly The V&V process defines the criteria that constitute data quality, namely PARCCS parameters Data traceability and archival are also addressed V&V criteria include the following

- Chain-of-custody,
- Preservation and hold-times,
- Instrument calibrations,
- Preparation blanks,
- Interference check samples (metals),
- Matrix spikes/matrix spike duplicates (MS/MSD),
- Laboratory control samples (LCS),
- Field duplicate measurements,
- Chemical yield (radiochemistry),
- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively), and
- Sample analysis and preparation methods.

Evaluation of V&V criteria ensures that PARCCS parameters are satisfactory (i e , within tolerances acceptable to the project) Satisfactory V&V of laboratory quality controls are captured through application of validation "flags" or qualifiers to individual records

Raw hardcopy data (e g , individual analytical data packages) are currently filed by RIN and are maintained by Kaiser-Hill Analytical Services Division, older hardcopies may reside in the Federal Center in Lakewood, Colorado Electronic data are stored in the RFETS Soil and Water Database (SWD)

Both quality control (QC) and real data, as of May 22, 2003, are included on the enclosed CD

4.1.3 Accuracy

The following measures of accuracy were evaluated

- Laboratory Control Sample Evaluation,
- Surrogate Evaluation,
- Field Blanks, and
- Sample Matrix Spike Evaluation

Results are compared to method requirements and project goals The results of these comparisons are summarized for RFCA COCs where the result could impact project decisions Particular attention is paid to those values near ALs when quality control (QC) results could indicate unacceptable levels of uncertainty for decision-making purposes

Laboratory Control Sample Evaluation

The frequency of Laboratory Control Sample (LCS) measurements, relative to each laboratory batch, is given in Table 10 LCS frequency was adequate based on at least one LCS per batch The minimum and maximum LCS results are also tabulated, by chemical, for the entire project While not all LCS results are within tolerances, project decisions based on AL exceedances were not affected Any qualifications of results due to LCS performance exceeding upper or lower tolerance limits are captured in the V&V flags, described in the Completeness Section

Surrogate Evaluation

The frequency of surrogate measurements, relative to each laboratory batch, is given in Table 11 Surrogate frequency was adequate based on at least one set per sample The minimum and maximum surrogate results are also tabulated, by chemical, for the entire project Any qualifications of results due to surrogate results are captured in the V&V flags, described in the Completeness Section

Field Blank Evaluation

Detectable amounts of contaminants within the blanks, which could indicate possible cross-contamination of samples, are evaluated if the same contaminant is detected in the associated real samples When the real result is less than 10 times the blank result for laboratory contaminants and 5 times the result for non-laboratory contaminants, the real result is eliminated None of the chemicals detected in blanks were detected at concentrations greater than Als, therefore no significant blank contamination is indicated

95

Table 10
Laboratory Control Sample Evaluation

CAS Number	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Laboratory Method
75-35-4	1,1-DICHLOROETHENE	LC	74	102	28	28	%REC	SW-846 8260
120-82-1	1,2,4-TRICHLOROBENZENE	LC	53	73	12	12	%REC	SW-846 8270B
121-14-2	2,4-DINITROTOLUENE	LC	54	80	12	12	%REC	SW-846 8270B
95-57-8	2-CHLOROPHENOL	LC	57	77	12	12	%REC	SW-846 8270B
83-32-9	ACENAPHTHENE	LC	55	74	12	12	%REC	SW-846 8270B
7429-90-5	ALUMINUM	LC	91	99	8	8	%REC	SW-846 6010/6010B
7440-36-0	ANTIMONY	LC	89	97	8	8	%REC	SW-846 6010/6010B
12674-11-2	AROCLOR-1016	LC	81	122	10	10	%REC	SW-846 8082
11096-82-5	AROCLOR-1260	LC	88	110	10	10	%REC	SW-846 8082
7440-38-2	ARSENIC	LC	91	101	8	8	%REC	SW-846 6010/6010B
7440-39-3	BARIUM	LC	94	105	8	8	%REC	SW-846 6010/6010B
71-43-2	BENZENE	LC	83	110	28	28	%REC	SW-846 8260
7440-41-7	BERYLLIUM	LC	89	102	8	8	%REC	SW-846 6010/6010B
7440-43-9	CADMIUM	LC	88	100	8	8	%REC	SW-846 6010/6010B
108-90-7	CHLOROBENZENE	LC	86	105	28	28	%REC	SW-846 8260
7440-48-4	COBALT	LC	88	99	8	8	%REC	SW-846 6010/6010B
7440-50-8	COPPER	LC	93	104	8	8	%REC	SW-846 6010/6010B
7439-89-6	IRON	LC	93	100	8	8	%REC	SW-846 6010/6010B
7439-92-1	LEAD	LC	91	103	8	8	%REC	SW-846 6010/6010B
7439-93-2	LITHIUM	LC	91	100	8	8	%REC	SW-846 6010/6010B
7439-96-5	MANGANESE	LC	91	101	8	8	%REC	SW-846 6010/6010B
7439-97-6	MERCURY	LC	97	102	9	9	%REC	SW-846 6010/6010B
7439-98-7	MOLYBDENUM	LC	88	96	8	8	%REC	SW-846 6010/6010B
7440-02-0	NICKEL	LC	89	102	8	8	%REC	SW-846 6010/6010B
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	LC	54	79	12	12	%REC	SW-846 8270B
106-46-7	P-DICHLOROBENZENE	LC	54	72	12	12	%REC	SW-846 8270B
87-86-5	PENTACHLOROPHENOL	LC	42	69	12	12	%REC	SW-846 8270B
108-95-2	PHENOL	LC	55	77	12	12	%REC	SW-846 8270B
100-02-7	P-NITROPHENOL	LC	49	68	12	12	%REC	SW-846 8270B
129-00-0	PYRENE	LC	53	75	12	12	%REC	SW-846 8270B
7782-49-2	SELENIUM	LC	94	103	8	8	%REC	SW-846 6010/6010B
7440-22-4	SILVER	LC	91	109	8	8	%REC	SW-846 6010/6010B
7440-24-6	STRONTIUM	LC	92	103	8	8	%REC	SW-846 6010/6010B

Table 10
Laboratory Control Sample Evaluation

CAS Number	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Laboratory Method
7440-31-5	TIN	LC	88	98	8	8	%REC	SW-846 6010/6010B
108-88-3	TOLUENE	LC	83	104	28	28	%REC	SW-846 8260
79-01-6	TRICHLOROETHENE	LC	86	107	28	28	%REC	SW-846 8260
7440-62-2	VANADIUM	LC	91	100	8	8	%REC	SW-846 6010/6010B
7440-66-6	ZINC	LC	86	102	8	8	%REC	SW-846 6010/6010B

Table 11
Surrogate Recovery Summary

VOC Surrogate Recoveries				
Number of Samples	Analyte	Minimum	Maximum	Unit Code
132	1,2-DICHLOROETHANE-D4	84	126	%REC
132	4-BROMOFLUOROBENZENE	90	126	%REC
132	TOLUENE-D8	92	118	%REC
SVOC Surrogate Recoveries				
Number of Samples	Analyte	Minimum	Maximum	Unit Code
134	TERPHENYL-D14	20	86	%REC
134	2-FLUOROBIPHENYL	24	78	%REC
134	2-FLUOROPHENOL	22	75	%REC
134	NITROBENZENE-D5	21	80	%REC

Sample Matrix Spike Evaluation

The frequency of MS measurements, relative to each laboratory batch, was adequate based on at least one MS per batch The minimum and maximum of MS results are summarized by chemical, for the entire project in Table 12 While some of the recoveries appear to be low, they would not result in rejection of data that affects the project decision

Table 12
Sample Matrix Spike Evaluation

CAS Number	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Laboratory Method
7429-90-5	ALUMINUM	MS	312	4230	8	8	%REC	SW-846 6010/6010B
7439-89-6	IRON	MS	0	1820	8	8	%REC	SW-846 6010/6010B
7439-92-1	LEAD	MS	78	127	8	8	%REC	SW-846 6010/6010B
7439-93-2	LITHIUM	MS	86	99	8	8	%REC	SW-846 6010/6010B
7439-96-5	MANGANESE	MS	0	242	8	8	%REC	SW-846 6010/6010B
7439-97-6	MERCURY	MS	91	102	8	8	%REC	SW-846 6010/6010B
7439-98-7	MOLYBDENUM	MS	80	91	8	8	%REC	SW-846 6010/6010B
7440-02-0	NICKEL	MS	79	98	8	8	%REC	SW-846 6010/6010B
7440-22-4	SILVER	MS	85	142	8	8	%REC	SW-846 6010/6010B
7440-24-6	STRONTIUM	MS	0	108	8	8	%REC	SW-846 6010/6010B
7440-31-5	TIN	MS	71	96	8	8	%REC	SW-846 6010/6010B

Table 12
Sample Matrix Spike Evaluation

CAS Number	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Laboratory Method
7440-36-0	ANTIMONY	MS	26	58	8	8	%REC	SW-846 6010/6010B
7440-38-2	ARSENIC	MS	85	100	8	8	%REC	SW-846 6010/6010B
7440-39-3	BARIUM	MS	75	106	8	8	%REC	SW-846 6010/6010B
7440-41-7	BERYLLIUM	MS	78	101	8	8	%REC	SW-846 6010/6010B
7440-43-9	CADMIUM	MS	75	96	8	8	%REC	SW-846 6010/6010B
7440-48-4	COBALT	MS	82	96	8	8	%REC	SW-846 6010/6010B
7440-50-8	COPPER	MS	86	109	8	8	%REC	SW-846 6010/6010B
7440-62-2	VANADIUM	MS	83	108	8	8	%REC	SW-846 6010/6010B
7440-66-6	ZINC	MS	69	101	8	8	%REC	SW-846 6010/6010B
7782-49-2	SELENIUM	MS	89	100	8	8	%REC	SW-846 6010/6010B
11096-82-5	AROCLOR-1260	MS	55	124	9	9	%REC	SW-846 8082
12674-11-2	AROCLOR-1016	MS	57	138	9	9	%REC	SW-846 8082
108-88-3	TOLUENE	MS	57	107	13	13	%REC	SW-846 8260
108-90-7	CHLOROBENZENE	MS	49	106	13	13	%REC	SW-846 8260
71-43-2	BENZENE	MS	63	111	13	13	%REC	SW-846 8260
75-35-4	1,1-DICHLOROETHENE	MS	60	100	13	13	%REC	SW-846 8260
79-01-6	TRICHLOROETHENE	MS	58	111	13	13	%REC	SW-846 8260
100-02-7	P-NITROPHENOL	MS	45	73	10	10	%REC	SW-846 8270B
106-46-7	P-DICHLOROBENZENE	MS	43	60	10	10	%REC	SW-846 8270B
108-95-2	PHENOL	MS	53	68	10	10	%REC	SW-846 8270B
120-82-1	1,2,4-TRICHLOROBENZENE	MS	48	63	10	10	%REC	SW-846 8270B
121-14-2	2,4-DINITROTOLUENE	MS	48	71	10	10	%REC	SW-846 8270B
129-00-0	PYRENE	MS	50	70	10	10	%REC	SW-846 8270B
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	MS	53	67	10	10	%REC	SW-846 8270B

Table 12
Sample Matrix Spike Evaluation

CAS Number	Analyte	Result Type	Minimum	Maximum	Number of Laboratory Samples	Number of Laboratory Batches	Unit	Laboratory Method
83-32-9	ACENAPHTHENE	MS	49	65	10	10	%REC	SW-846 8270B
87-86-5	PENTACHLOROPHENOL	MS	20	61	10	10	%REC	SW-846 8270B
95-57-8	2-CHLOROPHENOL	MS	52	69	10	10	%REC	SW-846 8270B

4.1.4 Precision

Matrix Spike Duplicate Evaluation

Laboratory precision is measured through use of MSD Adequate frequency of MSD measurements is indicated by at least one MSD in each laboratory batch Table 13 indicates that MSD frequencies were adequate While some of the recoveries appear to be low, they would not result in rejection of data that affects the project decision

Table 13
Sample Matrix Spike Duplicate Evaluation

Analyte Name	Number of Sample Pairs	Number of Laboratory Batches	Max RPD (%)
P-NITROPHENOL	10	10	43 48
P-DICHLOROBENZENE	10	10	22 95
TOLUENE	13	13	11 46
CHLOROBENZENE	13	13	10 78
PHENOL	10	10	21 21
AROCLOR-1260	9	9	38 24
1,2,4-TRICHLOROBENZENE	10	10	15 63
2,4-DINITROTOLUENE	10	10	23 85
AROCLOR-1016	9	9	33 58
PYRENE	10	10	58 06
N-NITROSO-DI-N-PROPYLAMINE	10	10	20 16
BENZENE	13	13	9 41
ALUMINUM	7	7	127 56
IRON	4	4	109 83
LEAD	8	8	84 57
LITHIUM	8	8	6 74
MANGANESE	7	7	67 59
MERCURY	8	8	14 12
MOLYBDENUM	8	8	10 53
NICKEL	8	8	4 40
LITHIUM	8	8	6 74
MANGANESE	7	7	67 59
MERCURY	8	8	14 12

100

Table 13
Sample Matrix Spike Duplicate Evaluation

Analyte Name	Number of Sample Pairs	Number of Laboratory Batches	Max RPD (%)
MOLYBDENUM	8	8	10 53
NICKEL	8	8	4 40
BARIUM	8	8	9 26
BERYLLIUM	8	8	17 51
CADMIUM	8	8	4 49
COBALT	8	8	7 59
COPPER	8	8	29 55
VANADIUM	8	8	14 29
ZINC	8	8	25 53
1,1-DICHLOROETHENE	13	13	12 66
SELENIUM	8	8	5 78
TRICHLOROETHENE	13	13	12 72
ACENAPHTHENE	10	10	13 33
PENTACHLOROPHENOL	10	10	71 70
2-CHLOROPHENOL	10	10	20 59

Field Duplicate Evaluation

Field duplicate results reflect sampling precision, or overall repeatability of the sampling process The frequency of field duplicate collection should exceed 1 field duplicate per 20 real samples, or 5 percent Table 14 indicates that sampling frequencies were adequate A common metric for evaluating precision is the relative percent difference (RPD) value, RPD values are given in Table 15 Ideally, RPDs of less than 35 percent (in soil) indicate satisfactory precision Values exceeding 35 percent only affect project decisions if the imprecision is great enough to cause contradictory decisions relative to the COC (i e , one sample indicates clean soil whereas the QC partner does not) As indicated by the data in Table 15, a number of analytes, generally metals, VOCs and SVOCs, have RPDs greater than 35 percent Values exceeding 35 percent only affect project decisions if the imprecision is great enough to cause contradictory decisions relative to the COC (i e , one sample indicates clean soil whereas the QC partner does not) This scenario is possible for lead and arsenic, however, the elevated concentrations above Ecological Receptor ALs are considered real, given the amount of sampling imprecision

101

Table 14
Field Duplicate Sample Frequency

Test Method Name	Sample Code	Number of Samples	% Duplicate Samples
GAMMA SPECTROSCOPY	REAL	12	25
GAMMA SPECTROSCOPY	DUP	3	
SW-846 6010/6010B	REAL	23	26
SW-846 6010/6010B	DUP	6	
SW-846 6200	REAL	2	—
SW-846 8082	REAL	18	28
SW-846 8082	DUP	5	
SW-846 8260	REAL	39	21
SW-846 8260	DUP	8	
SW-846 8270B	REAL	37	16
SW-846 8270B	DUP	6	

Table 15
RPD Evaluation

Analyte	Max of RPD %
1,1,1-TRICHLOROETHANE	17 86
1,1,2,2-TETRACHLOROETHANE	17 86
1,1,2-TRICHLOROETHANE	17 86
1,1-DICHLOROETHANE	17 86
1,1-DICHLOROETHENE	17 86
1,2,4-TRICHLOROBENZENE	194 87
1,2-DICHLOROETHANE	17 86
1,2-DICHLOROPROPANE	17 86
2,4,5-TRICHLOROPHENOL	13 70
2,4,6-TRICHLOROPHENOL	13 70
2,4-DICHLOROPHENOL	13 70
2,4-DIMETHYLPHENOL	13 70
2,4-DINITROPHENOL	17 14
2,4-DINITROTOLUENE	13 70
2,6-DINITROTOLUENE	13 70
2-BUTANONE	194 82
2-CHLORONAPHTHALENE	13 70
2-CHLOROPHENOL	13 70
2-NITROANILINE	17 14
4-CHLOROANILINE	13 70
4-METHYL-2-PENTANONE	18 18
ACENAPHTHENE	98 04
ACETONE	193 16
ALUMINUM	85 97
ANTHRACENE	98 04

102

Table 15
RPD Evaluation

Analyte	Max of RPD %
ANTIMONY	77 14
ARSENIC	113 90
BARIUM	146 53
BENZENE	17 86
BENZO(A)ANTHRACENE	49 18
BENZO(A)PYRENE	33 85
BENZO(B)FLUORANTHENE	66 67
BENZO(K)FLUORANTHENE	41.27
BENZOIC ACID	17 14
BERYLLIUM	155 87
BIS(2-ETHYLHEXYL)PHTHALATE	13 70
BROMODICHLOROMETHANE	17 86
BROMOFORM	17 86
BROMOMETHANE	17 86
BUTYLBENZYLPHTHALATE	13 70
CARBON DISULFIDE	17 86
CARBON TETRACHLORIDE	17 86
CHLOROBENZENE	17 86
CHLOROETHANE	17 86
CHLOROFORM	17 86
CHLOROMETHANE	17 86
CHRYSENE	23 53
CIS-1,3-DICHLOROPROPENE	17 86
COBALT	110 56
COPPER	110 81
DIBENZ(A,H)ANTHRACENE	13 70
DIBENZOFURAN	13 70
DIBROMOCHLOROMETHANE	17 86
ETHYLBENZENE	17 86
FLUORANTHENE	117 02
FLUORENE	13 70
HEXACHLOROBENZENE	13 70
HEXACHLOROBUTADIENE	194 87
HEXACHLOROCYCLOPENTADIENE	13 33
HEXACHLOROETHANE	13 70
INDENO(1,2,3-CD)PYRENE	86 79
IRON	95 06
ISOPHORONE	13 70
LEAD	134 46
LITHIUM	80 43
MANGANESE	134 03
MERCURY	190 24

103

Table 15
RPD Evaluation

Analyte	Max of RPD %
METHYLENE CHLORIDE	147 32
MOLYBDENUM	187 73
NAPHTHALENE	194 87
NICKEL	105 26
NITROBENZENE	13 70
N-NITROSODIPHENYLAMINE	13 70
PENTACHLOROPHENOL	17 14
PHENOL	13 70
PYRENE	172 09
SELENIUM	65 65
SILVER	181 74
STRONTIUM	170 92
TETRACHLOROETHENE	173 28
TIN	66 67
TOLUENE	17 86
TRANS-1,3-DICHLOROPROPENE	17 86
TRICHLOROETHENE	130 16
VANADIUM	118 72
VINYL CHLORIDE	17 86
ZINC	111 36

Completeness

Based on original project DQOs, a minimum of 25 percent of ER Program analytical (and radiological) results must be formally verified and validated Of that percentage, no more than 10 percent of the results may be rejected, which ensures that analytical laboratory practices are consistent with quality requirements Table 16 shows the number and percentage of validated records (codes without "1"), the number and percentage of verified records (codes with "1"), and the percentage of rejected records for each analyte group While the percentage of rejected records was acceptable, the overall percentage of records validated fell short of project goals However, for the ER Program, all suites are being validated at >25% frequency with the exception of XRF Metals (19%), VOCs (22%), and SVOCs (22%) Spot checks of Gamma Spectroscopy hardcopy records indicate that >25% of the hardcopy packages are undergoing validation with acceptable rejection rates, however, the validation flags have not yet been uploaded to SWD, thus the 0% value in Table 16 Furthermore, as "verification" and "validation" criteria are essentially the same, the "V&V" results may be added to represent the true percentage of records that went through the DQA process If validation flags are aggregated in this manner, then > 25% of all records for the project have been sucessfully verified and validated Because the frequency of validation for the ER Program is adequate, with the noted exceptions, the results are considered adequate for use in project decisions

104

4.1.5 Sensitivity

Reporting limits, in units of ug/kg for organics, mg/kg for metals, and pCi/g for radionuclides, were compared with RFCA WRW and Ecological Receptor ALs Adequate sensitivities of analytical methods were attained for all COCs that affect project decisions "Adequate" sensitivity is defined as a reporting limit less than an analyte's associated AL, typically less than one-half the AL

4.1.6 Summary of Data Quality

Although several RPD values exceed the ideal value of 35%, the imprecision does not affect project decisions because the only AL exceedances are for arsenic and lead and those elevated concentrations are considered real Compliance with the project quality requirements and RFETS validation goal of 25% of all analytical records indicates that these data are adequate If additional V&V information is received, IHSS Group NE/NW records will be updated in the Soil Water Database Data qualified as a result of additional data will be assessed as part of the Comprehensive Risk Assessment process Data collected and used for IHSS Group NE/NW is adequate for decision-making

Table 16
Validation and Verification Summary

Validation Code	Number of Records	Radionuclides	Metals	PCBs	SVOCs	VOCs
No V& V	928	928	0	0	0	0
1	158	0	3	7	144	4
J	126	0	126	0	0	0
J1	1208	0	1173	1	31	3
R1	2	0	2	0	0	0
V	3511	0	371	119	1646	1375
V1	15258	0	1730	510	6685	6333
J1	1	0	1	0	0	0
JB	6	0	0	0	0	6
JB1	61	0	0	0	0	61
UJ	63	0	30	0	27	6
UJ1	561	0	138	133	162	128
Total	21883	928	3574	770	8695	7916
Total Validated	3637	0	497	119	1646	1375
% Validated	17%	0%	14%	15%	19%	17%
Total Verified	20955	0	3574	770	8695	7916
% Verified	96%	0%	100%	100%	100%	100%
% Rejected	0 01%	0 00%	0 06%	0 00%	0 00%	0 00%

KEY
1, V1 - Verified
J, J1 - Estimated
UJ1 - Estimated detection limit
J, V - Validated

Table 17 DQA Completeness Versus Programmatic Goals

Validation Code	Total Number of Records	Radionuclides		[redacted]	TCLP Metals	Metals ICP	Metals XRF	Pesticides	PCBs	Organo-phosphorus Compounds	Chlorinated Herbicides	VOCs	SVOCs	Nitroaro-matics	Anions
Laboratory Method		Alpha Spec	[redacted]	SW9010/ 9012/903 0/9040	SW1311,60 10,7470	SW6010	[redacted]	SW8081	SW8082	[redacted]	[redacted]	SW8260	SW827 0	SW8330	SW9056 or E300
Null	42540	145	25761			985	60					15039	545		5
I	420					3			14			69	332		2
J1	3782	2		4	21	3047	598	5	8			14	33		50
U1	2						1					1			
V1	58575	172	7	22	85	6853	6111	870	1059	140	120	14423	28707		6
J1	1					1									
JB1	124							4				120			
UJ1	1726	1	9	25	6	635	50	33	151		10	428	336		42
R1	89					55							31		3
SubTotal	107259	320	25777	51	112	11579	6820	912	1232	140	130	30094	29984	0	108
Validation															
J	1482	11				1340	69	19	5			20	18		
U	5											5			
JB	48											48			
UJ	920					293	61	5				304	256		1
V	18077	115	18			2720	1370	660	548			5842	6712	80	12
V	1												1		
R	72	5				29						38			
SubTotal	20533	126	18	0	0	4353	1500	684	553	0	0	6219	6987	80	13
Total	127792	446	25795	51	112	15932	8320	1596	1785	140	130	36313	36971	80	121
Percent Verified	51%	39%	0%	100%	100%	66%	81%	57%	69%	100%	100%	41%	80%	0%	85%
Percent Validated	[redacted]	29%	[redacted]	[redacted]	0%	28%	[redacted]	43%	31%	[redacted]	[redacted]	[redacted]	[redacted]	100%	11%
Percent Rejected	0 2%	1 6%	0 0%	0 0%	0 0%	0 6%	0 0%	0 0%	0 0%	0 0%	0 0%	0 2%	0 1%	0 0%	2 6%

Note Validation frequencies less than the programmatic goal of 25% are shaded gray

5.0 REFERENCES

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

DOE, 1999, Order 414 1A, Quality Assurance

DOE, 2000, Rocky Flats Cleanup Agreement, Attachment 5, March

DOE, 2002a, Buffer Zone Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June

DOE, 2002b, Buffer Zone Sampling and Analysis Plan Addendum #BZ-02-01, Rocky Flats Environmental Technology Site, Golden, Colorado, April

DOE, CDPHE and EPA, 2003, Rocky Flats Cleanup Agreement (RFCA) Modification, Rocky Flats Environmental Technology Site, Golden, Colorado, June

EPA, 1994a, Guidance for the Data Quality Objective Process, QA/G-4

EPA, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, 540/R-94/012

EPA, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, 540/R-94/013

EPA, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, QA/G-9

K-H, 2002a, General Guidelines for Data Verification and Validation, DA-GR01-v2, October

K-H, 2002b, V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v2, October

K-H, 2002c, V&V Guidelines for Volatile Organics, DA-SS01-v3, October

K-H, 2002d, V&V Guidelines for Semivolatile Organics, DA-SS02-v3, October

K-H, 2002e, V&V Guidelines for Metals, DA-SS05-v3, October

Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5

ENCLOSURE

IHSS GROUP NE/NW REAL AND QUALITY CONTROL DATA (Compact Disc)

108/108

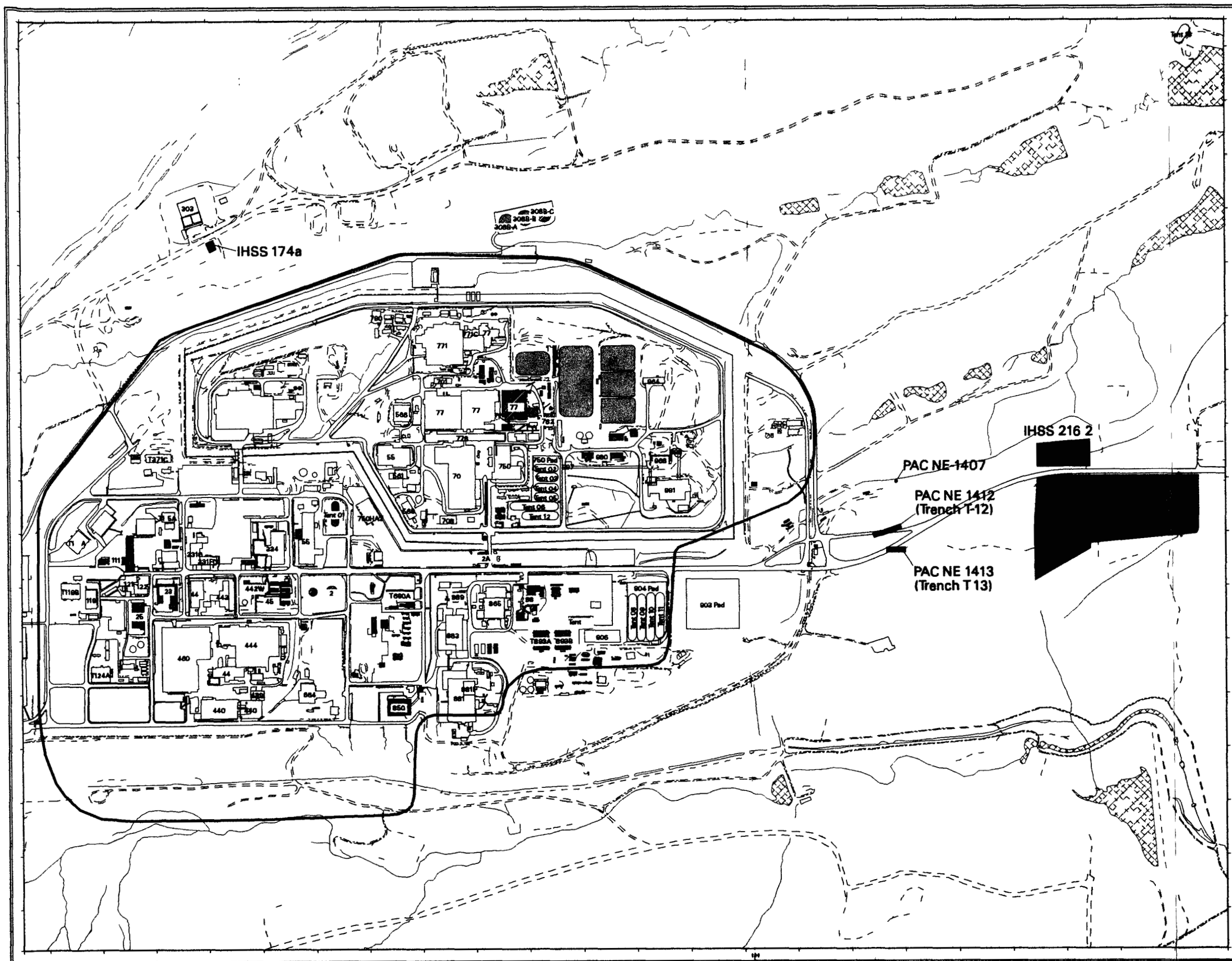


Figure 1
IHSS Group NE/NW Location Map

EXPLANATION

NE/NW

Standard Map Feature

- Buildings nd othe truct res
- D molished buildings
- Lakes nd ponds
- Streams, ditches or ther dr lnage features
- Fences nd othe barriers
- Paved ro de
- Dirt roads
- Solar Evaporation Ponds (EPs)
- Industrial Area Operabl U it Boundary

DATA SOURCE BASE FEATURES:
PACs
Historical Release Report (HRR)
2nd Annual Update
Sept 30, 199
Prefabricated Hazardous Substances Sites (PHSS)
D.O.E. 1992, HRR Report and Subsequent Updates.
Buildings, fences, hydrography, roads and other alrcelines from 1992 aerial fly-over data captured by GMS Inc., Las Vegas.
Digitized from the orthophotographs, 199

50 0 50 100

State Plane Coordinate Projection
Colorado Central Zone
Datum NAD27

U S Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

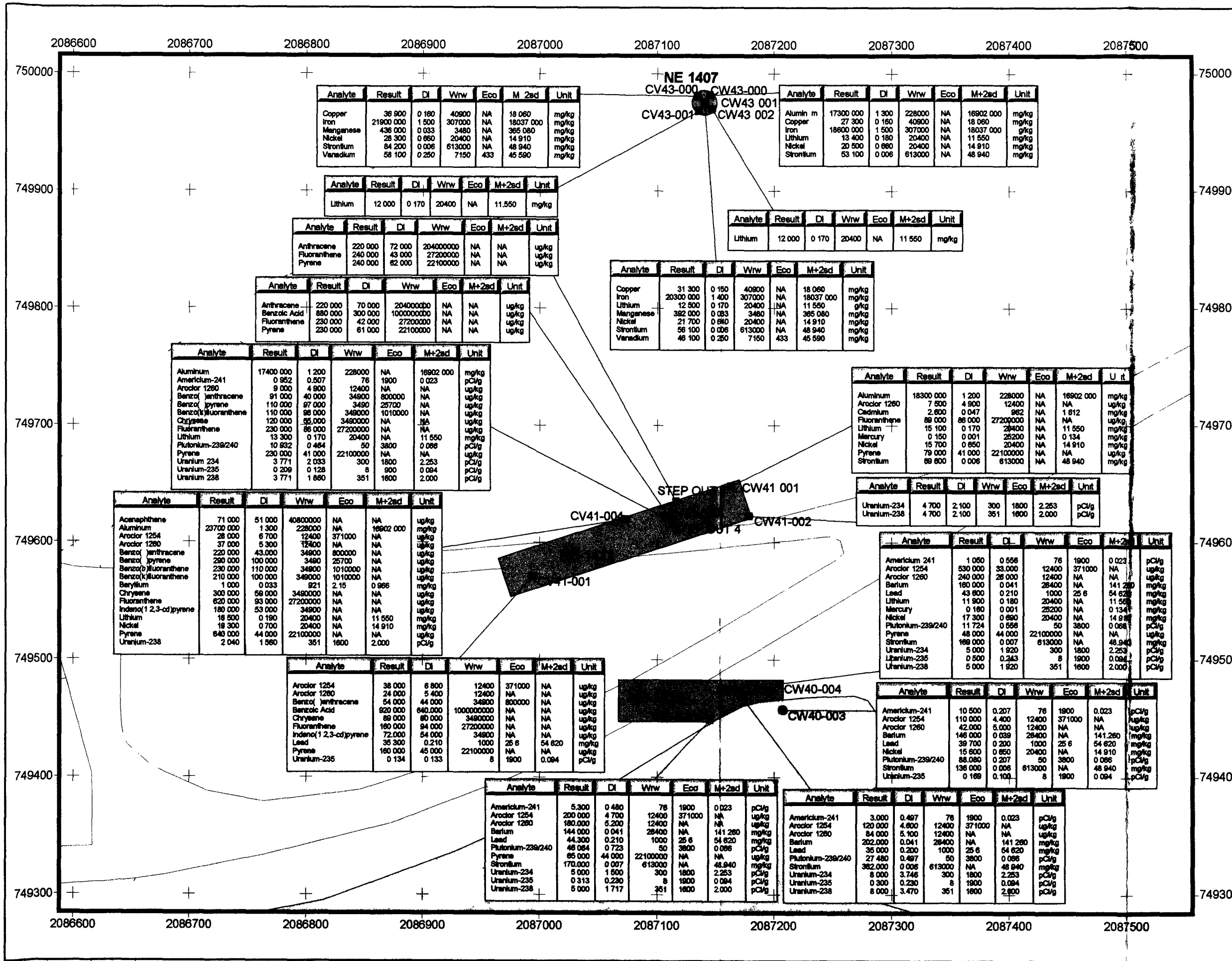
Prepared by:
DynCorp

Prepared for:
KAISER HILL

December 23, 2002

HT S w/p / tale /hydstfeat/ w/ h ta / tionlhs gro p ne w m/

8



Analyte	Result	DI	Wrw	Eco	M 2sd	Unit
Copper	36 900	0 160	40900	NA	18 060	mg/kg
Iron	21900 000	1 500	307000	NA	18037 000	mg/kg
Manganese	436 000	0 033	3480	NA	365 080	mg/kg
Nickel	28 300	0 660	20400	NA	14 910	mg/kg
Strontium	84 200	0 006	613000	NA	48 940	mg/kg
Vanadium	58 100	0 250	7150	433	45 590	mg/kg

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Alumin m	17300 000	1 300	228000	NA	16902 000	mg/kg
Copper	27 300	0 160	40900	NA	18 060	mg/kg
Iron	18600 000	1 500	307000	NA	18037 000	g/kg
Lithium	13 400	0 180	20400	NA	11 550	mg/kg
Nickel	20 500	0 660	20400	NA	14 910	mg/kg
Strontium	53 100	0 006	613000	NA	48 940	mg/kg

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Lithium	12 000	0 170	20400	NA	11.550	mg/kg

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Anthracene	220 000	72 000	204000000	NA	NA	ug/kg
Fluoranthene	240 000	43 000	27200000	NA	NA	ug/kg
Pyrene	240 000	62 000	22100000	NA	NA	ug/kg

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Lithium	12 000	0 170	20400	NA	11 550	mg/kg

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Anthracene	220 000	70 000	204000000	NA	NA	ug/kg
Benzoic Acid	880 000	300 000	1000000000	NA	NA	ug/kg
Fluoranthene	230 000	42 000	27200000	NA	NA	ug/kg
Pyrene	230 000	61 000	22100000	NA	NA	ug/kg

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Copper	31 300	0 150	40900	NA	18 060	mg/kg
Iron	20300 000	1 400	307000	NA	18037 000	mg/kg
Lithium	12 500	0 170	20400	NA	11 550	g/kg
Manganese	392 000	0 033	3480	NA	365 080	mg/kg
Nickel	21 700	0 660	20400	NA	14 910	mg/kg
Strontium	56 100	0 006	613000	NA	48 940	mg/kg
Vanadium	46 100	0 250	7150	433	45 590	mg/kg

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Aluminum	17400 000	1 200	228000	NA	16902 000	mg/kg
Americium-241	0 952	0.507	76	1900	0 023	pCi/g
Aroclor 1260	9 000	4 900	12400	NA	NA	ug/kg
Benzo( )anthracene	91 000	40 000	34900	800000	NA	ug/kg
Benzo( )pyrene	110 000	97 000	3490	25700	NA	ug/kg
Benzo(k)fluoranthene	110 000	96 000	349000	1010000	NA	ug/kg
Chrysene	120 000	55 000	3490000	NA	NA	ug/kg
Fluoranthene	230 000	86 000	27200000	NA	NA	ug/kg
Lithium	13 300	0 170	20400	NA	11 550	mg/kg
Plutonium-239/240	10 932	0 464	50	3800	0 066	pCi/g
Pyrene	230 000	41 000	22100000	NA	NA	ug/kg
Uranium 234	3 771	2 033	300	1800	2.253	pCi/g
Uranium-235	0 209	0 128	8	900	0 094	pCi/g
Uranium 238	3 771	1 860	351	1600	2.000	pCi/g

Analyte	Result	DI	Wrw	Eco	M+2sd	U it
Aluminum	18300 000	1 200	228000	NA	16902 000	mg/kg
Aroclor 1260	7 500	4 900	12400	NA	NA	ug/kg
Cadmium	2.600	0 047	962	NA	1 612	mg/kg
Fluoranthene	89 000	86 000	27200000	NA	NA	ug/kg
Lithium	15 100	0 170	20400	NA	11 550	mg/kg
Mercury	0 150	0 001	25200	NA	0 134	mg/kg
Nickel	15 700	0 650	20400	NA	14 910	mg/kg
Pyrene	79 000	41 000	22100000	NA	NA	ug/kg
Strontium	69 600	0 006	613000	NA	48 940	mg/kg

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Uranium-234	4 700	2.100	300	1800	2.253	pCi/g
Uranium-238	4 700	2.100	351	1600	2.000	pCi/g

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Acenaphthene	71 000	51 000	40800000	NA	NA	ug/kg
Aluminum	23700 000	1 300	228000	NA	16902 000	mg/kg
Aroclor 1254	28 000	6 700	12400	371000	NA	ug/kg
Aroclor 1260	37 000	5 300	12400	NA	NA	ug/kg
Benzo( )anthracene	220 000	43.000	34900	800000	NA	ug/kg
Benzo( )pyrene	290 000	100 000	3490	25700	NA	ug/kg
Benzo(b)fluoranthene	230 000	110 000	34900	1010000	NA	ug/kg
Benzo(k)fluoranthene	210 000	100 000	349000	1010000	NA	ug/kg
Beryllium	1 000	0 033	921	2.15	0 966	mg/kg
Chrysene	300 000	59 000	3490000	NA	NA	ug/kg
Fluoranthene	620 000	93 000	27200000	NA	NA	ug/kg
Indeno(1 2,3-cd)pyrene	180 000	53 000	34900	NA	NA	ug/kg
Lithium	16 500	0 190	20400	NA	11 550	mg/kg
Nickel	19 300	0 700	20400	NA	14 910	mg/kg
Pyrene	640 000	44 000	22100000	NA	NA	ug/kg
Uranium-238	2 040	1 560	351	1600	2.000	pCi/g

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Americium 241	1 050	0 556	76	1900	0 023	pCi/g
Aroclor 1254	530 000	33.000	12400	371000	NA	ug/kg
Aroclor 1260	240 000	26 000	12400	NA	NA	ug/kg
Barium	160 000	0 041	28400	NA	141 260	mg/kg
Lead	43 600	0 210	1000	25 6	54 620	mg/kg
Lithium	11 900	0 180	20400	NA	11 550	mg/kg
Mercury	0 160	0 001	25200	NA	0 134	mg/kg
Nickel	17 300	0 690	20400	NA	14 910	mg/kg
Plutonium-239/240	11 724	0 556	50	3800	0 066	pCi/g
Pyrene	48 000	44 000	22100000	NA	NA	ug/kg
Strontium	169 000	0 007	613000	NA	48.940	mg/kg
Uranium-234	5 000	1 920	300	1800	2.253	pCi/g
Uranium-235	0 500	0.243	8	1900	0.094	pCi/g
Uranium-238	5 000	1 920	351	1600	2.000	pCi/g

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Aroclor 1254	38 000	6 800	12400	371000	NA	ug/kg
Aroclor 1260	24 000	5 400	12400	NA	NA	ug/kg
Benzo( )anthracene	54 000	44 000	34900	800000	NA	ug/kg
Benzoic Acid	920 000	640.000	1000000000	NA	NA	ug/kg
Chrysene	89 000	60 000	3490000	NA	NA	ug/kg
Fluoranthene	160 000	94 000	27200000	NA	NA	ug/kg
Indeno(1 2,3-cd)pyrene	72.000	54 000	34900	NA	NA	ug/kg
Lead	35 300	0.210	1000	25 6	54 620	mg/kg
Pyrene	160 000	45 000	22100000	NA	NA	ug/kg
Uranium-235	0 134	0 133	8	1900	0.094	pCi/g

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Americium-241	10 500	0.207	76	1900	0.023	pCi/g
Aroclor 1254	110 000	4.400	12400	371000	NA	ug/kg
Aroclor 1260	42.000	5.000	12400	NA	NA	ug/kg
Barium	146 000	0 039	28400	NA	141.260	mg/kg
Lead	39 700	0 200	1000	25 6	54 620	mg/kg
Nickel	15 600	0 650	20400	NA	14 910	mg/kg
Plutonium-239/240	88.080	0.207	50	3800	0 066	pCi/g
Strontium	136 000	0 006	613000	NA	48 940	mg/kg
Uranium-235	0 169	0.100	8	1900	0 094	pCi/g

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Americium-241	5.300	0 480	76	1900	0 023	pCi/g
Aroclor 1254	200 000	4 700	12400	371000	NA	ug/kg
Aroclor 1260	180.000	5.200	12400	NA	NA	ug/kg
Barium	144 000	0 041	28400	NA	141 260	mg/kg
Lead	44.300	0.210	1000	25 6	54 620	mg/kg
Plutonium-239/240	46 064	0 723	50	3800	0 066	pCi/g
Pyrene	65 000	44 000	22100000	NA	NA	ug/kg
Strontium	170.000	0 007	613000	NA	48.940	mg/kg
Uranium-234	5 000	1 500	300	1800	2.253	pCi/g
Uranium-235	0 313	0.230	8	1900	0 094	pCi/g
Uranium-238	5 000	1 717	351	1600	2.000	pCi/g

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit
Americium-241	3.000	0.497	76	1900	0.023	pCi/g
Aroclor 1254	120 000	4.600	12400	371000	NA	ug/kg
Aroclor 1260	84 000	5.100	12400	NA	NA	ug/kg
Barium	202.000	0.041	28400	NA	141 260	mg/kg
Lead	35 000	0.200	1000	25 6	54 620	mg/kg
Plutonium-239/240	27 480	0.497	50	3800	0 066	pCi/g
Strontium	362.000	0 006	613000	NA	48 940	mg/kg
Uranium-234	8 000	3.746	300	1800	2.253	pCi/g
Uranium-235	0 300	0.230	8	1900	0.094	pCi/g
Uranium-238	8 000	3.470	351	1600	2.000	pCi/g

Figure 2
Surface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits Trench Area

KEY

- Action Level Exceedance
- Below Background Mean Plus Two Standard Devations but Above Action Level
- Detected Results
- Undetected Results
- PAC
- Dirt roads
- Paved roads
- IHSS 155

Disclaimer
Neithe the U ited States Government nor Kaiser Hill LLC or Dyncorp I&ET nor ny agency thereof nor any of their employees makes any warranty express or implied or assumes any legal liability or responsibility for the ccuracy completeness, or sefulnes of any information apparatus product or process disclosed or represents hat its se would not infringe privately own d rights

W E

20 0 20 40 60 Feet

Scale = 1 975

State Plane Coordinate Projection
Colorado Central Zone
Datum NAD 27

U S Department of Energy
Rocky Flats Environmental Technology Site

Prepared by

Date 8 13 03

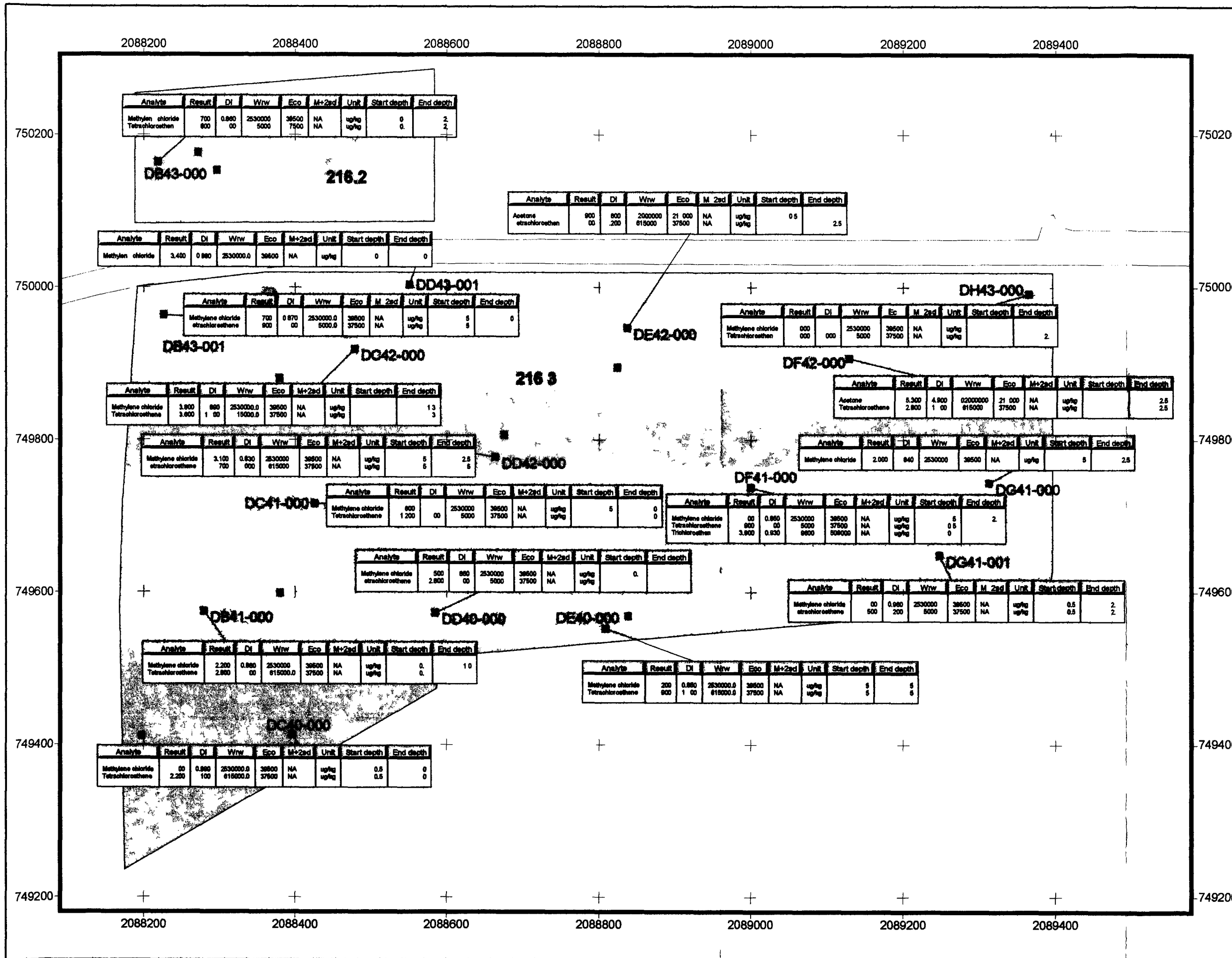
Prepared for

KAISER•HILL COMPANY

File W:\Projects\Fy2003\NENWWENW_new 080703\nenw 081203 spr

9

Figure 5
Subsurface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits Sprayfields



Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylen chloride Tetrachloroethen	700 800	0.860 00	2530000 5000	39500 7500	NA NA	ug/kg ug/kg	0 0.	2. 2.

Analyte	Result	DI	Wrw	Eco	M 2sd	Unit	Start depth	End depth
Acetone etrachloroethen	900 00	800 .200	2000000 615000	21 000 37500	NA NA	ug/kg ug/kg	0 5	2.5

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylen chloride	3.400	0 860	2530000.0	39500	NA	ug/kg	0	0

Analyte	Result	DI	Wrw	Eco	M 2sd	Unit	Start depth	End depth
Methylene chloride etrachloroethene	700 900	0 870 00	2530000.0 5000.0	39500 37500	NA NA	ug/kg ug/kg	5 5	0

Analyte	Result	DI	Wrw	Ec	M 2sd	Unit	Start depth	End depth
Methylene chloride Tetrachloroethen	000 000	000	2530000 5000	39500 37500	NA NA	ug/kg ug/kg		2.

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride Tetrachloroethene	3.900 3.600	890 1 00	2530000.0 15000.0	39500 37500	NA NA	ug/kg ug/kg		1 3 3

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Acetone Tetrachloroethene	5.300 2.800	4.900 1 00	02000000 615000	21 000 37500	NA NA	ug/kg ug/kg		2.5 2.5

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride etrachloroethene	3.100 700	0.830 000	2530000 615000	39500 37500	NA NA	ug/kg ug/kg	5 5	2.5 5

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride	2.000	840	2530000	39500	NA	ug/kg	5	2.5

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride Tetrachloroethene	600 1 200	00	2530000 5000	39500 37500	NA NA	ug/kg ug/kg	5	0 0

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride Tetrachloroethene Trichloroethen	00 900 3.900	0.860 00 0.930	2530000 5000 9800	39500 37500 508000	NA NA NA	ug/kg ug/kg ug/kg	5 0 5 0	2.

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride etrachloroethene	500 2.800	860 00	2530000 5000	39500 37500	NA NA	ug/kg ug/kg	0.	

Analyte	Result	DI	Wrw	Eco	M 2sd	Unit	Start depth	End depth
Methylene chloride etrachloroethene	00 500	0.860 200	2530000 5000	39500 37500	NA NA	ug/kg ug/kg	0.5 0.5	2. 2.

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride Tetrachloroethene	2.200 2.800	0.860 00	2530000 615000.0	39500 37500	NA NA	ug/kg ug/kg	0. 0.	1 0

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride Tetrachloroethene	200 900	0.860 1 00	2530000.0 615000.0	39500 37500	NA NA	ug/kg ug/kg	5 5	5 5

Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
Methylene chloride Tetrachloroethene	00 2.200	0.860 100	2530000.0 615000.0	39500 37500	NA NA	ug/kg ug/kg	0.5 0.5	0 0

KEY

- ● Detected Results
- ■ Undetected Results
- IHSS
- Dirt roads
- Paved roads

Disclaimer
either h United States Governmen nor Kaiser Hill LLC nor Dyncorp I&ET nor ny agency thereof or any of their employee makes any warranty express or implied or assumes any legal liability or responsibility for the accuracy completeness or sefulness of an information apparatus produ or process disclosed or represents that its se would not infringe privately owned rights

N
W E
S

50 0 50 100 150 Feet

Scale 1 1500

State Plane Coordinate Projection
Colorado Central Zone
Datum NAD 27

U S Department of Energy
Rocky Flats Environmental Technology Site

Prepared by

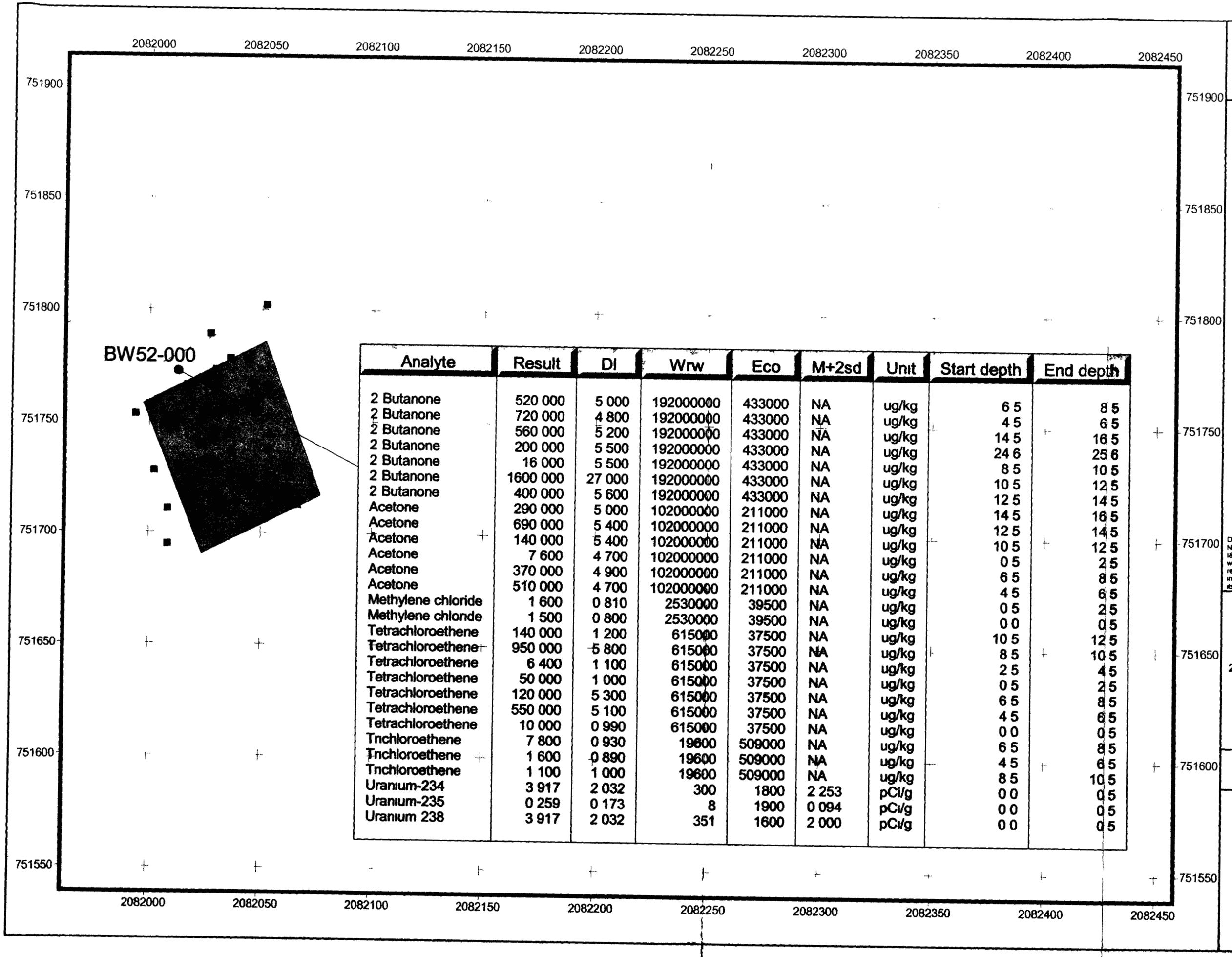
Date. 8 13 03

Prepared for

KAISER•HILL COMPANY

File W:\Projects\Fy2003\NEW\NEW_new 080703\new 081203.apr

12



Analyte	Result	DI	Wrw	Eco	M+2sd	Unit	Start depth	End depth
2 Butanone	520 000	5 000	192000000	433000	NA	ug/kg	6 5	8 5
2 Butanone	720 000	4 800	192000000	433000	NA	ug/kg	4 5	6 5
2 Butanone	560 000	5 200	192000000	433000	NA	ug/kg	14 5	16 5
2 Butanone	200 000	5 500	192000000	433000	NA	ug/kg	24 6	25 6
2 Butanone	16 000	5 500	192000000	433000	NA	ug/kg	8 5	10 5
2 Butanone	1600 000	27 000	192000000	433000	NA	ug/kg	10 5	12 5
2 Butanone	400 000	5 600	192000000	433000	NA	ug/kg	12 5	14 5
Acetone	290 000	5 000	102000000	211000	NA	ug/kg	14 5	16 5
Acetone	690 000	5 400	102000000	211000	NA	ug/kg	12 5	14 5
Acetone	140 000	5 400	102000000	211000	NA	ug/kg	10 5	12 5
Acetone	7 600	4 700	102000000	211000	NA	ug/kg	0 5	2 5
Acetone	370 000	4 900	102000000	211000	NA	ug/kg	6 5	8 5
Acetone	510 000	4 700	102000000	211000	NA	ug/kg	4 5	6 5
Methylene chloride	1 600	0 810	2530000	39500	NA	ug/kg	0 5	2 5
Methylene chloride	1 500	0 800	2530000	39500	NA	ug/kg	0 0	0 5
Tetrachloroethene	140 000	1 200	615000	37500	NA	ug/kg	10 5	12 5
Tetrachloroethene	950 000	5 800	615000	37500	NA	ug/kg	8 5	10 5
Tetrachloroethene	6 400	1 100	615000	37500	NA	ug/kg	2 5	4 5
Tetrachloroethene	50 000	1 000	615000	37500	NA	ug/kg	0 5	2 5
Tetrachloroethene	120 000	5 300	615000	37500	NA	ug/kg	6 5	8 5
Tetrachloroethene	550 000	5 100	615000	37500	NA	ug/kg	4 5	6 5
Tetrachloroethene	10 000	0 990	615000	37500	NA	ug/kg	0 0	0 5
Trichloroethene	7 800	0 930	19600	509000	NA	ug/kg	6 5	8 5
Trichloroethene	1 600	0 890	19600	509000	NA	ug/kg	4 5	6 5
Trichloroethene	1 100	1 000	19600	509000	NA	ug/kg	8 5	10 5
Uranium-234	3 917	2 032	300	1800	2 253	pCi/g	0 0	0 5
Uranium-235	0 259	0 173	8	1900	0 094	pCi/g	0 0	0 5
Uranium 238	3 917	2 032	351	1600	2 000	pCi/g	0 0	0 5

Figure 6
Surface and Subsurface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits – Northwest Area

KEY

- Detections
- Undetected Results
- IHSS
- Dirt roads
- Paved roads

Disclaimer
Neither the Un ted States Government nor Kaiser-Hill LLC nor Dyncorp I&ET nor ny agency thereof nor any of their employees, makes any warranty express or implied or assumes any legal liability or responsibility for the accuracy completeness or usefulness of any information apparatus product, or process disclosed or represents that its use would not infringe privately owned rights

N W E S

20 0 20 40 60 Feet

Scale = 1 500

State Plane Coordinate Projection
Colorado Central Zone
Datum NAD 27

U S Department of Energy
Rocky Flats Environmental Technology Site

Prepared by [redacted] Date 8 14 03

Prepared for KAISER•HILL COMPANY

File W:\Projects\Fy2003\NE\NW\NE\NW new 080703\new 081203.apr

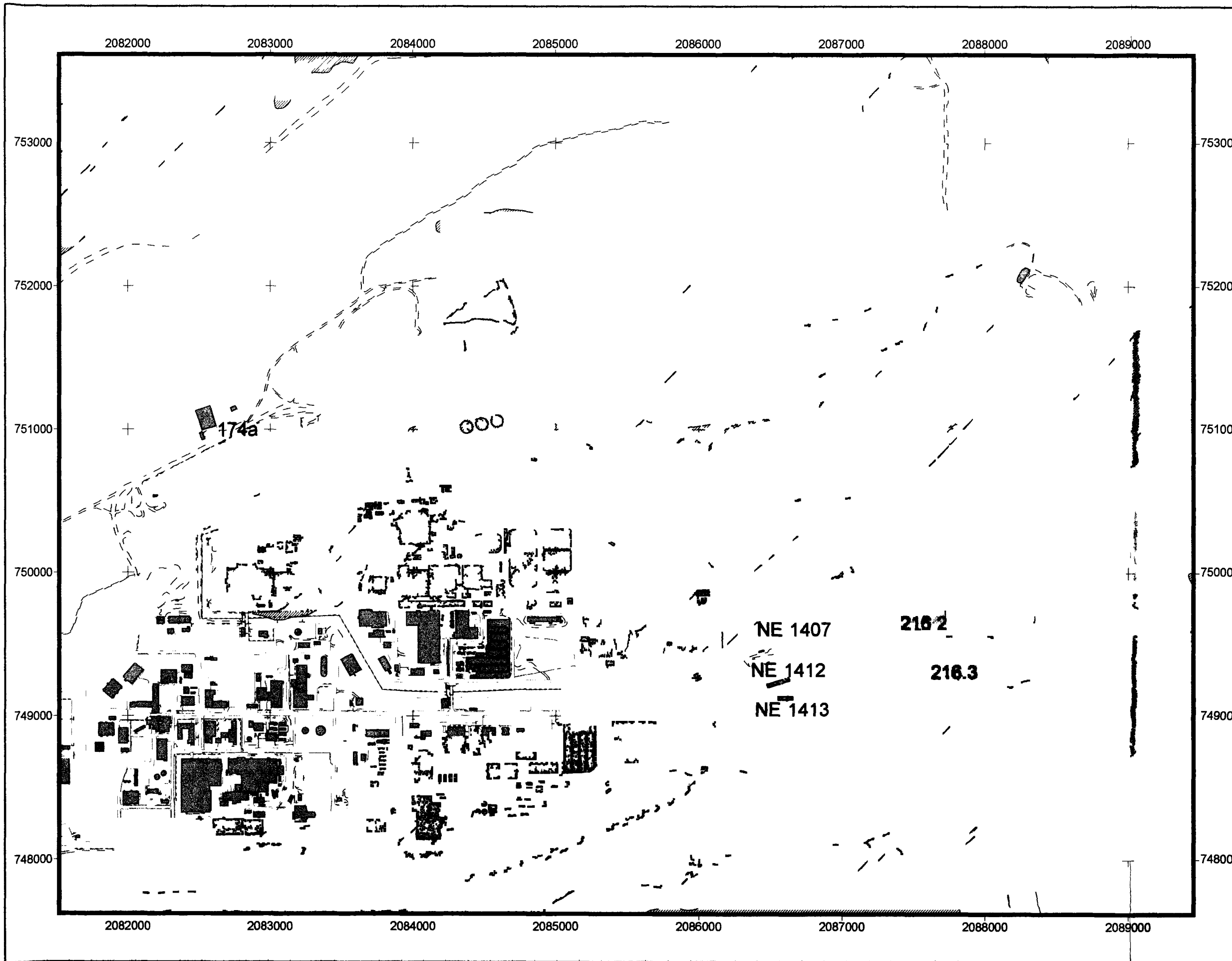


Figure 7
Areas Prone to Landslides and High Erosion

KEY

- Area Prone to Landslides or High Erosion
- IHSS
- PAC
- Paved Road
- Dirt Road

Note
Areas prone to landslides and high erosion is based on Figure 1 of Attachment 5 of the RFCA Modification (DOE et al 2003)

Disclaimer
Neither the United States Government nor Kaiser Hill LLC or Dyncorp I&ET nor any agency thereof nor any of their employees, makes any warranty express or implied, or assumes any legal liability or responsibility for the accuracy completeness or usefulness of any information apparatus product or process disclosed or represents that its use would not infringe privately owned rights

W E

500 0 500 Feet

Scale 1 8000

State Plane Coordinate Projection
Colorado Central Zone
Datum NAD 27

U S Department of Energy
Rocky Flats Environmental Technology Site

Prepared by [redacted] Date 4 21 03

Prepared for

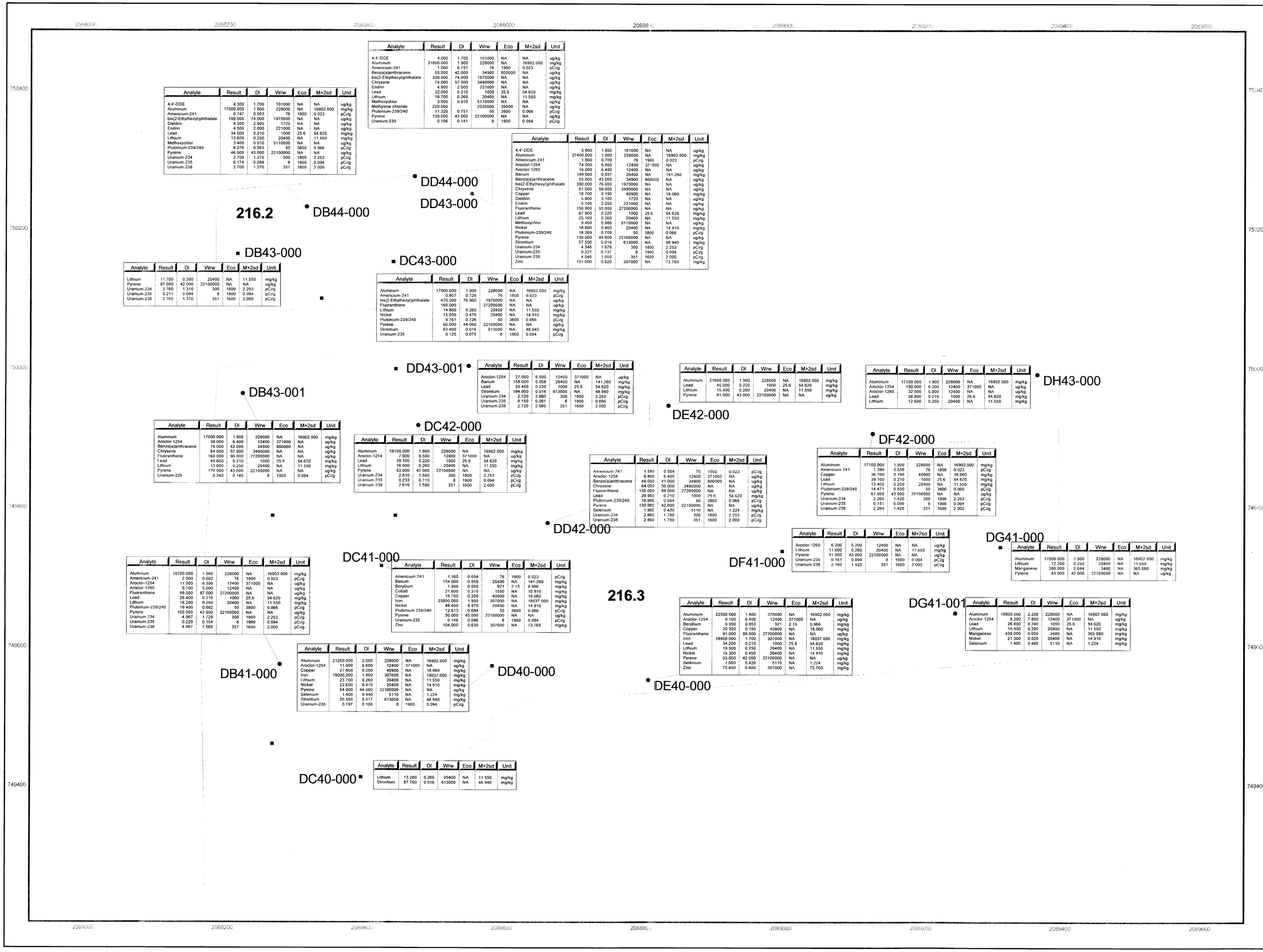
KAISER•HILL COMPANY

File W:\Projects\Fy2003\HEN\WC\Characterization\newv close_jb apr

14

BZ 11 CCC621 page 11

Figure 4
Surface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits -- Sprayfields



Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
4,4'-DDE	4.300	1.700	101000	NA	NA	ug/kg
Aluminum	17000.000	1.900	228000	NA	16902.000	mg/kg
Americium-241	0.747	0.563	76	1900	0.023	pCi/g
bis(2-Ethylhexyl)phthalate	190.000	74.000	1970000	NA	NA	ug/kg
Dieldrin	4.300	2.900	1720	NA	NA	ug/kg
Endrin	4.500	2.000	221000	NA	NA	ug/kg
Lead	34.000	0.210	1000	25.6	54.620	mg/kg
Lithium	13.600	0.250	20400	NA	11.550	mg/kg
Methoxychlor	3.400	0.910	5110000	NA	NA	ug/kg
Plutonium-239/240	9.276	0.563	50	3800	0.066	pCi/g
Pyrene	46.000	43.000	22100000	NA	NA	ug/kg
Uranium-234	2.700	1.270	300	1800	2.253	pCi/g
Uranium-235	0.174	0.088	8	1900	0.094	pCi/g
Uranium-238	2.700	1.270	351	1600	2.000	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
4,4'-DDE	4.000	1.700	101000	NA	NA	ug/kg
Aluminum	21600.000	1.900	228000	NA	16902.000	mg/kg
Americium-241	1.000	0.751	76	1900	0.023	pCi/g
Benzo(a)anthracene	55.000	42.000	34900	800000	NA	ug/kg
bis(2-Ethylhexyl)phthalate	330.000	74.000	1970000	NA	NA	ug/kg
Chrysene	74.000	57.000	3490000	NA	NA	ug/kg
Endrin	4.800	2.000	221000	NA	NA	ug/kg
Lead	32.000	0.210	1000	25.6	54.620	mg/kg
Lithium	16.700	0.260	20400	NA	11.550	mg/kg
Methoxychlor	3.000	0.910	5110000	NA	NA	ug/kg
Methylene chloride	220.000		2530000	39500	NA	ug/kg
Plutonium-239/240	11.320	0.751	50	3800	0.066	pCi/g
Pyrene	130.000	43.000	22100000	NA	NA	ug/kg
Uranium-235	0.156	0.141	8	1900	0.094	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
4,4'-DDE	5.800	1.800	101000	NA	NA	ug/kg
Aluminum	27400.000	1.900	228000	NA	16902.000	mg/kg
Americium-241	1.860	0.709	76	1900	0.023	pCi/g
Aroclor-1254	74.000	6.800	12400	371000	NA	ug/kg
Aroclor-1260	16.000	5.400	12400	NA	NA	ug/kg
Barium	149.000	0.057	26400	NA	141.260	mg/kg
Benzo(a)anthracene	55.000	43.000	34900	800000	NA	ug/kg
bis(2-Ethylhexyl)phthalate	390.000	76.000	1970000	NA	NA	ug/kg
Chrysene	61.000	59.000	3490000	NA	NA	ug/kg
Copper	18.700	0.190	40900	NA	18.060	mg/kg
Dieldrin	5.800	3.100	1720	NA	NA	ug/kg
Endrin	5.100	2.200	221000	NA	NA	ug/kg
Fluoranthene	150.000	93.000	27200000	NA	NA	ug/kg
Lead	67.800	0.220	1000	25.6	54.620	mg/kg
Lithium	25.100	0.260	20400	NA	11.550	mg/kg
Methoxychlor	9.400	0.980	5110000	NA	NA	ug/kg
Nickel	18.800	0.460	20400	NA	14.910	mg/kg
Plutonium-239/240	18.269	0.709	50	3800	0.066	pCi/g
Pyrene	130.000	44.000	22100000	NA	NA	ug/kg
Strontium	57.500	0.016	613000	NA	48.940	mg/kg
Uranium-234	4.546	1.678	300	1800	2.253	pCi/g
Uranium-235	0.221	0.137	8	1900	0.094	pCi/g
Uranium-238	4.546	1.550	351	1600	2.000	pCi/g
Zinc	101.000	0.620	307000	NA	73.760	mg/kg

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Lithium	11.700	0.260	20400	NA	11.550	mg/kg
Pyrene	87.000	42.000	22100000	NA	NA	ug/kg
Uranium-234	2.760	1.310	300	1800	2.253	pCi/g
Uranium-235	0.211	0.094	8	1900	0.094	pCi/g
Uranium-238	2.760	1.310	351	1600	2.000	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	17900.000	1.900	228000	NA	16902.000	mg/kg
Americium-241	0.867	0.726	76	1900	0.023	pCi/g
bis(2-Ethylhexyl)phthalate	470.000	76.000	1970000	NA	NA	ug/kg
Fluoranthene	160.000		27200000	NA	NA	ug/kg
Lithium	14.800	0.260	20400	NA	11.550	mg/kg
Nickel	15.600	0.470	20400	NA	14.910	mg/kg
Plutonium-239/240	9.761	0.726	50	3800	0.066	pCi/g
Pyrene	60.000	44.000	22100000	NA	NA	ug/kg
Strontium	63.400	0.016	613000	NA	48.940	mg/kg
Uranium-235	0.125	0.075	8	1900	0.094	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aroclor-1254	27.000	6.500	12400	371000	NA	ug/kg
Barium	158.000	0.058	26400	NA	141.260	mg/kg
Lead	33.400	0.220	1000	25.6	54.620	mg/kg
Strontium	194.000	0.016	613000	NA	48.940	mg/kg
Uranium-234	2.720	2.080	300	1800	2.253	pCi/g
Uranium-235	0.150	0.091	8	1900	0.094	pCi/g
Uranium-238	2.720	2.080	351	1600	2.000	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	21600.000	1.900	228000	NA	16902.000	mg/kg
Lead	45.000	0.220	1000	25.6	54.620	mg/kg
Lithium	15.400	0.260	20400	NA	11.550	mg/kg
Pyrene	81.000	43.000	22100000	NA	NA	ug/kg

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	17100.000	1.900	228000	NA	16902.000	mg/kg
Aroclor-1254	190.000	6.300	12400	371000	NA	ug/kg
Aroclor-1260	32.000	5.000	12400	NA	NA	ug/kg
Lead	38.800	0.210	1000	25.6	54.620	mg/kg
Lithium	12.600	0.250	20400	NA	11.550	mg/kg

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	17000.000	1.900	228000	NA	16902.000	mg/kg
Aroclor-1254	39.000	6.400	12400	371000	NA	ug/kg
Benzo(a)anthracene	76.000	42.000	34900	800000	NA	ug/kg
Chrysene	84.000	57.000	3490000	NA	NA	ug/kg
Fluoranthene	160.000	90.000	27200000	NA	NA	ug/kg
Lead	44.600	0.210	1000	25.6	54.620	mg/kg
Lithium	13.600	0.250	20400	NA	11.550	mg/kg
Pyrene	170.000	43.000	22100000	NA	NA	ug/kg
Uranium-235	0.240	0.140	8	1900	0.094	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	18100.000	1.900	228000	NA	16902.000	mg/kg
Aroclor-1254	7.600	6.500	12400	371000	NA	ug/kg
Lead	39.100	0.220	1000	25.6	54.620	mg/kg
Lithium	16.000	0.260	20400	NA	11.550	mg/kg
Pyrene	53.000	42.000	22100000	NA	NA	ug/kg
Uranium-234	2.610	1.590	300	1800	2.253	pCi/g
Uranium-235	0.233	0.110	8	1900	0.094	pCi/g
Uranium-238	2.610	1.590	351	1600	2.000	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Americium-241	1.580	0.564	76	1900	0.023	pCi/g
Aroclor-1254	6.800	6.400	12400	371000	NA	ug/kg
Benzo(a)anthracene	46.000	41.000	34900	800000	NA	ug/kg
Chrysene	64.000	56.000	3490000	NA	NA	ug/kg
Fluoranthene	130.000	88.000	27200000	NA	NA	ug/kg
Lead	29.900	0.210	1000	25.6	54.620	mg/kg
Plutonium-239/240	16.006	0.564	50	3800	0.066	pCi/g
Pyrene	130.000	42.000	22100000	NA	NA	ug/kg
Selenium	1.900	0.430	5110	NA	1.224	mg/kg
Uranium-234	2.860	1.780	300	1800	2.253	pCi/g
Uranium-238	2.860	1.780	351	1600	2.000	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	17100.000	1.900	228000	NA	16902.000	mg/kg
Americium-241	1.390	0.650	76	1900	0.023	pCi/g
Copper	36.700	0.190	40900	NA	18.060	mg/kg
Lead	39.100	0.210	1000	25.6	54.620	mg/kg
Lithium	15.400	0.250	20400	NA	11.550	mg/kg
Plutonium-239/240	14.471	0.650	50	3800	0.066	pCi/g
Pyrene	67.000	43.000	22100000	NA	NA	ug/kg
Uranium-234	2.260	1.420	300	1800	2.253	pCi/g
Uranium-235	0.151	0.099	8	1900	0.094	pCi/g
Uranium-238	2.260	1.420	351	1600	2.000	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aroclor-1260	6.200	5.200	12400	NA	NA	ug/kg
Lithium	11.600	0.260	20400	NA	11.550	mg/kg
Pyrene	51.000	43.000	22100000	NA	NA	ug/kg
Uranium-235	0.161	0.094	8	1900	0.094	pCi/g
Uranium-238	2.160	1.420	351	1600	2.000	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	17000.000	1.900	228000	NA	16902.000	mg/kg
Manganese	380.000	0.044	3480	NA	365.080	mg/kg
Pyrene	43.000	42.000	22100000	NA	NA	ug/kg

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	18700.000	1.900	228000	NA	16902.000	mg/kg
Americium-241	2.000	0.682	76	1900	0.023	pCi/g
Aroclor-1254	11.000	6.300	12400	371000	NA	ug/kg
Aroclor-1260	9.100	5.000	12400	NA	NA	ug/kg
Fluoranthene	99.000	87.000	27200000	NA	NA	ug/kg
Lead	26.400	0.210	1000	25.6	54.620	mg/kg
Lithium	16.200	0.250	20400	NA	11.550	mg/kg
Plutonium-239/240	19.400	0.682	50	3800	0.066	pCi/g
Pyrene	100.000	42.000	22100000	NA	NA	ug/kg
Uranium-234	4.067	1.729	300	1800	2.253	pCi/g
Uranium-235	0.229	0.154	8	1900	0.094	pCi/g
Uranium-238	4.067	1.560	351	1600	2.000	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Americium-241	1.160	0.694	76	1900	0.023	pCi/g
Barium	154.000	0.058	26400	NA	141.260	mg/kg
Beryllium	1.300	0.055	921	2.15	0.966	mg/kg
Cobalt	21.600	0.370	1550	NA	10.910	mg/kg
Copper	19.700	0.200	40900	NA	18.060	mg/kg
Iron	23800.000	1.800	307000	NA	18037.000	mg/kg
Nickel	48.400	0.470	20400	NA	14.910	mg/kg
Plutonium-239/240	12.613	0.694	50	3800	0.066	pCi/g
Pyrene	50.000	45.000	22100000	NA	NA	ug/kg
Uranium-235	0.148	0.098	8	1900	0.094	pCi/g
Zinc	104.000	0.630	307000	NA	73.760	mg/kg

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	22500.000	1.900	228000	NA	16902.000	mg/kg
Aroclor-1254	9.100	6.400	12400	371000	NA	ug/kg
Beryllium	0.990	0.053	921	2.15	0.966	mg/kg
Copper	20.300	0.190	40900	NA	18.060	mg/kg
Fluoranthene	91.000	89.000	27200000	NA	NA	ug/kg
Iron	18400.000	1.700	307000	NA	18037.000	mg/kg
Lead	34.200	0.210	1000	25.6	54.620	mg/kg
Lithium	19.500	0.250	20400	NA	11.550	mg/kg
Nickel	15.300	0.450	20400	NA	14.910	mg/kg
Pyrene	93.000	42.000	22100000	NA	NA	ug/kg
Selenium	1.600	0.420	5110	NA	1.224	mg/kg
Zinc	75.400	0.600	307000	NA	73.760	mg/kg

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	18800.000	2.200	228000	NA	16902.000	mg/kg
Aroclor-1254	8.200	7.800	12400	371000	NA	ug/kg
Lead	26.600	0.240	1000	25.6	54.620	mg/kg
Lithium	15.400	0.290	20400	NA	11.550	mg/kg
Manganese	438.000	0.050	3480	NA	365.080	mg/kg
Nickel	21.300	0.520	20400	NA	14.910	mg/kg
Selenium	1.400	0.480	5110	NA	1.224	mg/kg

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Aluminum	21200.000	2.000	228000	NA	16902.000	mg/kg
Aroclor-1254	11.000	6.600	12400	371000	NA	ug/kg
Copper	27.800	0.200	40900	NA	18.060	mg/kg
Iron	19000.000	1.800	307000	NA	18037.000	mg/kg
Lithium	23.700	0.260	20400	NA	11.550	mg/kg
Nickel	22.600	0.470	20400	NA	14.910	mg/kg
Pyrene	54.000	44.000	22100000	NA	NA	ug/kg
Selenium	1.400	0.440	5110	NA	1.224	mg/kg
Strontium	50.500	0.017	613000	NA	48.940	mg/kg
Uranium-235	0.197	0.106	8	1900	0.094	pCi/g

Analyte	Result	Dl	Wrw	Eco	M+2sd	Unit
Lithium	13.200	0.260	20400	NA	11.550	mg/kg
Strontium	87.700	0.016	613000	NA	48.940	mg/kg

KEY

Action Level Excedence

● Below Background Mean Plus Two Standard Devations but Above Action Level

● Detected Results

■ Undetected Results

IHSS

Dirt roads

Paved roads

N

Scale = 1: 775

60 0 60 120 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: 8.13.03

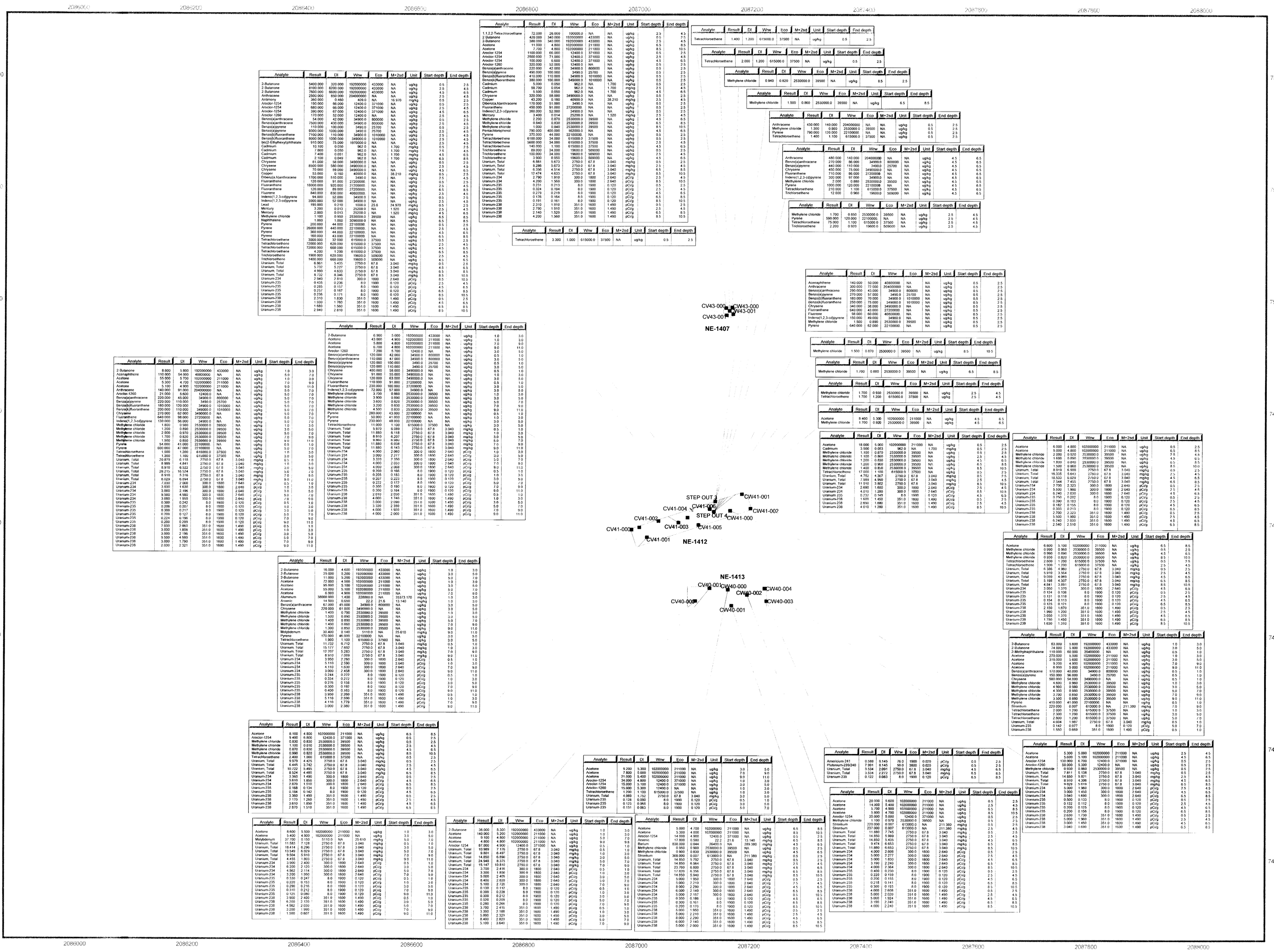
RADMS

Prepared for:

KAISER•HILL COMPANY

File: W:\Projects\Fy2003\NENW\NENW_new_080703\nenw_081203.apr

Figure 3.
Subsurface Sampling Locations Above Background Means Plus Two Standard Deviations or Detection/Reporting Limits -- Trench Area



KEY

Action Level Excedence

● Detected Results

■ Undetected Results

PAC

Dirt roads

Paved roads

N

Scale = 1: 1000

60 0 60 120 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

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

Prepared by: Date: 8.12.03

RADMS

Prepared for:

KAISER•HILL COMPANY

File: W:\Projects\Fy2003\NENW\NENW_new_080703\nenw_081203.apr