

## **APPENDIX F**

### **SITE CHARACTERIZATION SUMMARY**

**Depleted Uranium Impact Area  
Jefferson Proving Ground, Madison, Indiana**

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## **SAMPLING FORMS**

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**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: blm & sf  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-1  
Project Location: Madison, Indiana  
Date: 4/21/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume: 35.03 ft - Depth to Water (10.8 ft) = Height of water column (24.23 ft)  
Height of water column (24.23 ft) x K value (0.163 gal/ft) = 1 Well Volume (3.95 gal)  
Purge Volume:  
1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Temp	pH	Cond	Turbidity	D.O.	ORP	Purge	Well	Depth	Purge
	°C		mS/cm	NTU	mg/L	mV	Quantity	Volume	Water	Rate
1350	14.5	7.39	0.616	14.6	13.2	+59			10.73	.02
1355	15.0	7.49	0.731	98.1	9.05	+91			11.41	.02
1400	15.6	7.51	0.735	36.2	9.07	+91			11.75	.02
1405	14.7	7.91	0.451	51.8	9.38	+78			12.11	.03
1410	14.1	7.89	0.696	50.8	9.62	+80			13.00	.03
1415	14.9	7.93	0.108	48.9	9.12	+78			13.82	.03
1420	13.5	7.97	0.108	30.7	9.09	+77			14.14	.03
1425	13.5	8.00	0.108	44.3	9.72	+77			15.18	.03
1430	14.0	7.93	0.681	38.7	8.19	+75			15.93	.03
1435	15.1	7.96	0.672	32.9	8.01	+74			16.56	.03
1440	15.0	8.00	0.683	25.4	8.17	+76			17.06	.03
1445	16.7	7.99	0.667	20.1	8.06	+77			17.46	.03
1450	16.1	7.99	0.682	18.1	8.60	+80			17.82	.03
1458	16.4	7.98	0.680	21.0	8.46	+83			18.38	.03
1500	16.2	7.98	0.682	19.0	8.46	+80			18.74	.03
1505	14.4	7.99	0.688	19.7	8.58	+84			19.14	.03
1510	15.8	7.99	0.673	55.9	8.46	+80			20.10	.03
1515	15.7	7.94	0.672	26.6	8.35	+78			20.61	.03
1520	15.8	7.96	0.673	23.5	8.36	+78			21.2	.03

**PURGE INFORMATION:**  
Time / Date Started: 1349 | 4/21/08  
Time Purge End: 1520  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~72.03 (ft)  
Pump Type and ID: F012  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22# 13502  
How was yield measured? volume / stopwatch  
Was well cavitating? Yes \_\_\_\_\_ No x  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**  
Time / Date Started: 1520 | 4/21/08  
Sampled by: blm & sf  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 11  
Bottle Preservatives: HNO3, H2SO4, None  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: NO  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Standing water was observed in well casing before sampling.  
After collecting static samples, well cavitating after collecting  
~ 1/2 liter of vs gas sample. well was allowed to  
recharge for 20 minutes, but water level still not above pump.  
A 1-liter from sample L-H10 (microtrem) not high dtd



r.e. wright environmental, inc. An **SATC** company

SUBJECT ..... PROJECT NUMBER .....  
PHASE ..... TASK .....  
BY ..... DATE ..... CHECKED BY ..... DATE ..... SHEET NUMBER ..... OF .....

MW-1

NA COREHOLE - OD = 3"

SEAL @ 5'

SAND 5' - 33.2'

DTW = 10.8' BTOC

1.7' STICKER HEIGHT

9.1' BGL

K of 3" DIA = 0.3672 gal/s

OPEN INTERVAL VOLUME

SAT - SAND PAK LENGTH = ~~28.1~~ 33.2 - 9.1' = 24.1'

VOLUME OF SCREEN INTERVAL (TOP OF TOP SCREEN / BOTTOM OF BOTTOM SCREEN)

LENGTH OF SCREEN INTERVAL (24.1')

K of 2" = 0.163 24.1' x 0.163 gal/s = 3.94 gallons

VOLUME OF SAND PAK

VOLUME OF REMOVAL = 24.1' x 0.3672 = 8.85

= 3.94 gal (VOLUME SCREEN)

4.94 gallons (AMOUNTS OF BARRIER AND SAND)

x 0.30 POROSITY OF SANDPAK

1.47 gallons

TOTAL VOLUME OF OPEN INTERVAL

3.94 + 1.47 = 5.41 gallons

1530  
PUMPED 1350 > 90 MINUTES = ONLY 2.7 gallons REMOVED



Well Identification: mw-1  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 5/5/08  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$
[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22# \_\_\_\_\_

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1620 | 1  
 Sampled by: SS & ES  
 Sample Method: Bailer X Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: none / cool / 4°C  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: no  
 Laboratory: GPL  
 COC Form: TPG 043 - GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**SAIC Science Applications International Corporation**  
From Science to Solutions

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DJA & SE  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-2  
Project Location: Madison, Indiana  
Date: 4/22/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth ( 25.94 ft) - Depth to Water ( 10.29 ft) = Height of water column ( 15.65 ft)  
Height of water column ( 15.65 ft) x K value ( 0.163 gal/ft) = 1 Well Volume ( 2.55 gal)

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

Time	Temp	Depth	Cond	Turbidity	pH	ORP	Purged	Well	Depth to	Purge
							Quantity	Volume	Water	Rate
1046	13.0	7.34	0.860	14.3	7.34	+109			10.88	.03
1051	13.5	7.34	0.868	11.9	6.40	+113			11.45	.03
1056	13.5	7.23	0.874	9.7.9	6.24	+106			11.86	.03
1101	13.6	7.28	0.879	7.5.9	6.06	+102			12.22	.03
1106	13.8	7.44	0.881	6.4.1	5.97	+97			12.40	.03
1111	14.5	7.57	0.875	5.5.0	5.85	+100			12.51	.03
1116	14.3	7.62	0.884	4.0.0	5.76	+88			12.59	.03
1121	13.8	7.62	0.892	3.5.2	5.71	+87			12.73	.03
1126	13.8	7.61	0.892	3.4	5.50	+84			12.82	.03
1131	13.9	7.61	0.892	2.3	5.23	+84			12.97	.03
1136	14.0	7.61	0.891	2.8	5.00	+83			13.07	.03
1141	13.8	7.62	0.898	1.8.2	4.87	+84			13.19	.03
1146	13.9	7.62	0.893	1.7.0	4.54	+85			13.29	.03
1151	14.0	7.62	0.895	1.4.6	4.45	+87			13.37	.03
1156	14.1	7.63	0.896	1.0.9	4.32	+86			13.57	.03
1201	13.6	7.63	0.895	0.6.3	4.13	+83			13.63	.03
1206	13.8	7.61	0.892	1.1.0	3.77	+83			13.69	.03
1211	13.5	7.60	0.888	1.4.8	3.74	+80			13.91	.03
1216	13.8	7.61	0.887	1.3.0	3.63	+80			13.93	.03

cover  
Horiba  
cell  
with paper  
towel to  
shield  
from  
sun

**PURGE INFORMATION:**

Time / Date Started: 1045 | 4/22/08  
Time Purge End: 1216  
Purge Method: Pump x Bailor \_\_\_\_\_  
Depth to Intake: 22.94 (ft)  
Pump Type and ID: Fultz  
Purge Rate: .03 (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22# 15302  
How was yield measured? Volume/stopwatch  
Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1216 | 4/22/08  
Sampled by: DJA & SE  
Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 11  
Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: No  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

USGS - 1-Liter sample bottle. ERM - 1-Liter bottle (MW-25-002) not included  
At 1235, Fultz pump battery died (two 1-Liter bottles analyzed for isotopes  
Uranium were already filled). Mini Mensor pump was utilized to collect  
the rest of the samples (finished the concentration check)





Well Identification: mw-2  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 5/5/00  
Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

**PURGE INFORMATION:**

**SAMPLING INFORMATION:**

Time / Date Started: 1555 | 1  
 Sampled by: SS & ES  
 Sample Method: Bailor ✓ Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: none / cool 4°C  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: n6  
 Laboratory: GPL  
 COC Form: 106-043 - GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)





Well Identification: MW-3  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 5/5/08  
Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Purge Rate (          gpm) x (          min) = 3 Well Volume

**PURGE INFORMATION:**

**SAMPLING INFORMATION:**

Time / Date Started: 1515 | 1  
 Sampled by: CS & ES  
 Sample Method: Bailer X Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: none / cool 4°C  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: no  
 Laboratory: GPL  
 COC Form: JPG-043-GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



# GROUNDWATER SAMPLE LOG

Well included on ERM sampling list (IL, HNO<sub>3</sub>)



Well Identification: MW-4  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

**PURGE INFORMATION:**

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailer ~~X~~ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**SAI Science Applications International Corporation**  
From Science to Solutions

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground Well Identification: MW-5  
Project Number: 01-1633-04-9381-310 Project Location: Madison, Indiana  
Purged by: BJN & SP Date: 4/24/08  
Sampled by: BJN & SP Date: 4/25/08  
Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.169 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (35.85 ft) - Depth to Water (21.22 ft) = Height of water column (14.63 ft)  
Height of water column (14.63 ft) x K value (0.169 gal/ft) = 1 Well Volume (2.463 gal)

**Purge Volume:**

1 Well Volume (2.463 gallons) x 3 = 3 Well Volumes (7.389 gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Temp	Pressure	Flow	Depth	Depth	Depth	Purge	Well	Depth	Purge
12:35	15.4	7.41	4.48	17.1	4.97	+12.9	1.70		21.22	.04
12:40	16.5	7.67	2.62	17.9	4.99	+103	1.0		21.22	.02
12:45	17.7	7.79	2.53	18.5	4.95	+92	1.0		21.22	.02
12:50	18.4	7.93	2.20	19.6	4.91	+81	1.0		21.22	.02
12:55	19.9	7.99	2.21	19.10	3.98	+74	1.0		21.22	.02
1:00	17.6	7.98	2.11	19.2	3.107	+73	1.0		21.22	.02
1:05	16.8	8.00	2.06	19.37	3.61	+73	1.0		21.22	.02
1:10	17.9	7.96	2.10	19.6	3.35	+73	1.0		21.22	.02
1:15	17.4	7.94	2.17	19.9	3.04	+72	1.0		21.22	.02
1:20	18.1	7.97	2.23	19.9	3.46	+69	1.0		21.22	.02
1:25	17.6	7.94	2.00	19.4	3.16	+74	1.0		21.22	.02
1:30	17.7	7.98	2.50	19.8	2.89	+70	1.0		21.22	.02
1:35	18.7	7.97	2.64	19.9	2.86	+71	1.0		21.22	.02
1:40	17.8	7.98	2.71	19.5	2.60	+72	1.0		21.22	.02
1:45	18.8	7.97	2.57	19.5	2.53	+72.5	1.0		21.22	.02
1:50	18.1	7.95	3.05	19.4	2.41	+71			21.22	.02
1:55										
1:00	18.3	8.13	2.95	19.1	5.65	+77	1.5		24.51	.03
1:05	18.8	7.96	2.78	19.7	4.30	+79	1.5		23.03	.03
1:10	18.0	8.02	3.24	19.5	4.92	+76	1.5		25.35	.03
1:15	18.1	7.83	3.24	19.4	4.88	+75	1.5		25.71	.03
1:20	19.2	7.82	3.30	19.1	3.08	+63	1.5		26.33	.03
1:25	18.3	7.89	3.33	19.8	3.69	+60	1.5		23.06	.03
1:30	19.1	7.88	3.65	19.7	4.17	+57	1.5		28.14	.03
1:35	19.2	8.09	3.93	19.8	3.02		1.5		29.72	.03

**PURGE INFORMATION:**

Time / Date Started: 12:34 4/24/08  
Time Purge End: 1:35 (well runs dry)  
Purge Method: Pump x Bailor \_\_\_\_\_  
Depth to Intake: 32.85 (ft)  
Pump Type and ID: Fultz  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22B 15362  
How was yield measured? Volumetric / Stopwatch  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Gruntfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1:07 4/25/08  
Sampled by: BJN & SP  
Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 11  
Bottle Preservatives: HNO3, H2SO4, None  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: No  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

After well ran dry on 4/24/08, well sampled on 4/25/08  
DU=21.22 BNG - well recharged overnight  
ERM 1-liter bottle (MW-DU-005), USGS 1-liter bottle not included



## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: \_\_\_\_\_  
 Purged by: \_\_\_\_\_ & \_\_\_\_\_  
 Sampled by: SS & ES  
 Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-5  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 5/5/06  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft

Height of water column ( \_\_\_\_\_ ft) x K value ( \_\_\_\_\_ gal/ft) = 1 Well Volume ( \_\_\_\_\_ gal)

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$
[illegible]

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22# \_\_\_\_\_  
How was yield measured? \_\_\_\_\_  
Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1355 1  
 Sampled by: SS & ES  
 Sample Method: Bailor X Other Swamp  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 2  
 Bottle Preservatives: none / cool 40c  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: yes  
 Laboratory: GPL  
 COC Form: TP6043-GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: ML & SS/DL  
Sampled by: ML & SS/DL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MLW-6  
Project Location: Madison, Indiana  
Date: 4-15-08  
Date: 4-15-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (42.95 ft) - Depth to Water (6.13 ft) = Height of water column (36.82 ft)  
Height of water column (36.82 ft) x K value (0.63 gal/ft) = 1 Well Volume (6.0 gal)

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

[illegible]

**PURGE INFORMATION:**

Time / Date Started: 1140 1 4-15-08  
Time Purge End: 1215  
Purge Method: Pump x Bailor \_\_\_\_\_  
Depth to Intake: ~40 (ft)  
Pump Type and ID: mini. merson  
Purge Rate: ① 26 (gpm)  
Purged Volume: ~2 (gal)  
Water Quality Meter: Horiba U-22B 15964  
How was yield measured? Calculated w/ depth  
Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Grufos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1315 / 4-15-08  
 Sampled by: MOL & SES/DL  
 Sample Method: Bailor \_\_\_\_\_ Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, etc  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Well on ERM 1st (1 L. Hwp).





Project Name:	Jefferson Proving Ground	Well Identification:	MW-6
Project Number:		Project Location:	Madison, Indiana
Purged by:	&	Date:	
Sampled by:	ES	Date:	5/5/00
Checked by:	&	Date:	

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1450 | 1  
 Sampled by: SS & ES  
 Sample Method: Bailer X Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: none / cool / 4°C  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: no  
 Laboratory: GPL  
 COC Form: TPG043-GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: MW-1  
Project Location: Madison, Indiana  
Date: 4/9/68  
Date: 4/9/68  
Date:

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

[illegible]

Time / Date Started: 0913 | 4/1/68  
 Sampled by: BJA & SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 33  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: Yes MS/MSD  
 Laboratory: \_\_\_\_\_  
 CQC Form: \_\_\_\_\_

★ 1 - Elmer CRM sample bottle (Mw-DU-007) Not Included



## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: \_\_\_\_\_  
 Purged by: \_\_\_\_\_ & \_\_\_\_\_  
 Sampled by: SS & ES  
 Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-1  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 5/5/00  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (          gpm) x (          min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

[illegible]

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ X \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1505 | ES  
 Sampled by: SS & ES  
 Sample Method: Bailer X Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: none / cool 4°C  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: no  
 Laboratory: GPL  
 COC Form: SP6043-GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: MW-8  
Project Location: Madison, Indiana  
Date: 4-15-08  
Date: 4-15-08  
Date:

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

[illegible]

Time / Date Started: 1008 | 4-15-08  
 Sampled by: ML & STS/DL  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 12  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

Well on ERM sampling list. (LE, HNO<sub>3</sub>)  
Well decontaminated at end of sampling



Well Identification: MW-3  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 5/5/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Total Depth ( ) ft) - Depth to Water ( ) ft) = Height of water column ( ) ft)  
Height of water column ( ) ft) x K value ( ) gal/ft) = 1 Well Volume ( ) gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate ( } \quad \text{ qpm) } \times ( \quad \text{ min) } = 1 \text{ Well Volume}$$
$$\text{Purge Rate ( gpm) } \times \text{ ( min) } = 3 \text{ Well Volume}$$

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ 1 \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump 2 Bailer X

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Honba U-22#

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount NA

Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1200 | 1200  
 Sampled by: SS & ES  
 Sample Method: Bailor X Other \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: none / cool 4°C  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: n.o.  
 Laboratory: GPL  
 COC Form: TPG043 - GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: MW-4  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

$$\text{Purge Rate ( } \quad \text{ gpm) } \times ( \quad \text{ min) } = 3 \text{ Well Volume}$$
[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab   x   \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

SAMPLES W/IN BAILER, SEE LOG BOOK



# GROUNDWATER SAMPLE LOG

Project Name:	Jefferson Proving Ground		
Project Number:	01-1633-04-9381-310		
Purged by:	<u>DJM</u>	&	<u>SF</u>
Sampled by:	<u>DJM</u>	&	<u>SF</u>
Checked by:		&	

Well Identification: NW-10  
Project Location: Madison, Indiana  
Date: 4/23/08  
Date: 4/23/08  
Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume:  $\frac{41.07 \text{ ft} \times 2.38 \text{ ft} \times 38.69 \text{ ft}}{6.31 \text{ gal}} = 1 \text{ Well Volume}$

**Purge Volume:**

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

[illegible]

**PURGE INFORMATION:**

Time / Date Started: 11/19 4/23/08  
 Time Purge End: 11:50  
 Purge Method: Pump x 41032 Bailor  
 Depth to Intake: ~ 38.0 f (ft)  
 Pump Type and ID: Fuji 17  
 Purge Rate: 0.3 - 0.6 (gpm)  
 Purged Volume: ~ 1.8 (gal)  
 Water Quality Meter: Hanna U-22H 15302  
 How was yield measured? volume meter / 50  
 Was well cavitated? Yes      No       
 Water containerized/Amount      NA  
 Grunfos controller set @      NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1150 | 4/23/08  
 Sampled by: DLM & SK  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 11  
 Bottle Preservatives: H<sub>2</sub>NO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: No  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
 1 Ekem 1-liter bottle (MW-DU-010), USGS 1-liter sample bottle  
 not included



Project Name: Jefferson Proving Ground  
 Project Number: \_\_\_\_\_  
 Purged by: \_\_\_\_\_ & \_\_\_\_\_  
 Sampled by: SS & ES  
 Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MLW-10  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 5/5/00  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

Time / Date Started: 1310 | 1  
 Sampled by: SS & ES  
 Sample Method: Bailor X Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: none / cool 402  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: no  
 Laboratory: GPL  
 COC Form: SP5043-GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: NM & SE  
Sampled by: DJM & SE  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-11  
Project Location: Madison, Indiana  
Date: 4/23/08  
Date: 4/23/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**  
Total Depth (42.4 ft) - Depth to Water (7.12 ft) = Height of water column (35.28 ft)  
Height of water column (35.28 ft) x K value (0.163 gal/ft) = 1 Well Volume (5.75 gal)  
**Purge Volume:**  
1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Temp	pH	Cond	Turbidity	DO	ORP	Purge	Well	Depth	Purge
	(°C)		(mS/cm)	(NTU)	(mg/L)	(mV)	Quantity	Volume	(ft)	Rate
1355	16.2	7.42	1.51	17.0	0.40	-31	0.15		7.47	-0.3
1405	16.5	7.85	1.8	91.1	2.40	-51	0.15		8.04	-0.3
1405	13.5	8.03	1.7	84	2.56	-43	0.3		9.80	-0.6
1410	14.8	8.30	6.65	47.8	0.81	-37	0.3		11.09	-0.6
1415	14.7	8.45	4.42	27.6	0.72	-38	0.3		12.13	-0.6
1420	14.5	8.53	3.66	32.1	0.48	-37	0.15		12.74	-0.3
1425	15.2	8.51	3.34	21.3	0.61	-35	0.15		13.32	-0.3
1430	15.1	8.55	2.51	16.8	2.76	-16	0.35		15.56	-0.6
1435	16.4	8.57	1.66	12.8	1.03	+10	0.3		16.36	-0.6
1440	16.6	8.57	1.33	12.0	6.72	+21	0.15		17.08	-0.3
1445	15.4	8.53	1.03	9.5	7.25	+32			17.66	-0.3
1450	15.1	8.48	0.949	8.8	7.40	+38			18.21	-0.3
1455	16.0	8.48	0.858	6.8	7.48	+48			18.71	-0.3
1500	16.8	8.45	0.804	6.2	8.01	+52			18.90	-0.3
1505	17.7	8.46	0.772	5.3	7.66	+56			19.33	-0.3
1510	18.3	8.48	0.821	22.2	8.41	+64			19.95	-0.3
1515	18.4	8.41	0.806	17.0	8.89	+66			20.38	-0.3
1520	18.5	8.43	0.787	11.5	8.82	+64	0.10		20.64	-0.2
1525	18.5	8.44	0.745	10.1	8.88	+65	0.15		21.00	-0.3

**PURGE INFORMATION:**

Time / Date Started: 1354 | 4/23/08  
Time Purge End: 1525  
Purge Method: Pump ☒ Bailer \_\_\_\_\_  
Depth to Intake: ~39.4 (ft)  
Pump Type and ID: FL1P2  
Purge Rate: 0.02 - 0.07 (gpm)  
Purged Volume: ~3.6 (gal)  
Water Quality Meter: Horiba U-22# 15302  
How was yield measured? volume of stopwatch  
Was well cavitating? Yes ☒ No \_\_\_\_\_  
Water containerized/Amount: \_\_\_\_\_ NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1525 | 4/23/08  
Sampled by: DJM & SE  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab ☒ Composite \_\_\_\_\_  
# of Bottles Collected: 11  
Bottle Preservatives: HNO3, H2SO4, None  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: NO  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Purge rate hard to control at this well  
ERM 1-Ltr bottle (MW-SU-001), uses 2-Ltr bottle not included



Well Identification: mw-11  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 5/5/08  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

Purge Rate (      gpm) x (      min) = 3 Well Volume

[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailor \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Honba U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1245 | 1  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailer X Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: none / 100 / 40L  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: no  
 Laboratory: GPL  
 COC Form: PR 043 - GPL

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**SAIC** Science Applications  
From Science to Solutions International Corporation

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground Well Identification: MW-PS-1  
Project Number: 01-1633-04-9381-310 Project Location: Madison, Indiana  
Purged by: DJM & SE Date: 4/8/08  
Sampled by: DJM & SE Date: 4/8/08  
Checked by: \_\_\_\_\_ & \_\_\_\_\_ Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume: 15.89 (gallons) x 3 = 3 Well Volumes (gallons)  
Total Depth (ft) - Depth to Water (ft) = Height of water column (ft)  
Height of water column (ft) x K value (gal/ft) = 1 Well Volume (gal)  
Purge Volume: 12.85 (gallons) x 3 = 3 Well Volumes (gallons)  
Purge Rate (gpm) x (min) = 1 Well Volume  
Purge Rate (gpm) x (min) = 3 Well Volumes

002 = out of range

Time	Temp	Pressure	Conductivity	Turbidity	pH	ORP	Purge Quantity	Well Volume	Depth to Water	Purge Rate
1255	11.6	7.08	0.99	0.00	2.00	-13	1.80	3.45	0.36	
1300	11.1	7.46	0.93		1.57	-28	1.30	3.64	0.26	
1305	12.0	7.53	0.90		1.13	-45		3.53	0.23	
1310	10.4	7.67	0.94		0.22	-56		8.26	0.23	
1315	10.3	7.55	0.9		0.06	-59		9.19	0.23	
1320	10.2	7.41	0.94		0.47	-55		8.51	0.23	
1325	10.3	7.26	0.94		0.23	-54		8.69	0.23	
1330	10.3	7.10	0.99		0.46	-56		8.95	0.23	
1335	10.6	7.65	0.94		0.61	-49	1.10	8.66	0.22	
1340	10.5	7.23	0.99		0.60	-48	1.10	8.72	0.22	
1345	10.3	7.16	0.94		0.98	-47	1.10	8.93	0.22	
1350	10.7	7.61	0.99	7.55	0.0	-31	0.50	8.63	0.10	
1355	10.0	7.10	0.98	6.41	0.0	-30		8.02	0.10	
1402	10.9	7.62	0.99	5.32	0.68	-30		8.67	0.10	
1405	10.6	7.63	0.98	4.01	0.32	-30		8.68	0.10	
1410	10.4	7.62	0.90	3.17	0.37	-27		8.77	0.10	
1415	10.5	7.63	0.94	3.11	0.13	-33	0.85	8.75	0.10	
1420	10.5	7.67	0.99	2.98	0.32	-32		8.80	0.10	
1425	10.3	7.57	0.94	1.88	0.0	-3		8.64	0.13	
1430	10.7	7.60	0.94	1.04	0.0	-30		8.51	0.13	
1435	10.7	7.60	0.94	1.25	0.0	-35		8.25	0.13	
1440	10.2	7.61	0.94	0.87	0.0	-34		8.21	0.13	
1445	10.9	7.62	0.94	0.77	0.2	-17		8.00	0.13	
1450	10.6	7.67	0.99	0.52	0.81	-17		8.00	0.13	
1455	10.9	7.62	0.94	0.43	0.40	-10		8.90	0.12	

**PURGE INFORMATION:**

Time / Date Started: 1251 | 4/8/08  
Time Purge End: 1525  
Purge Method: Pump X Bailer \_\_\_\_\_  
Depth to Intake: ~18.5 ft (ft) w/ 12.89  
Pump Type and ID: Monsoon P41F2  
Purge Rate: 0.1 - 0.36 (gpm)  
Purged Volume: 29.45 (gal)  
Water Quality Meter: Horiba U-22# 15307  
How was yield measured? Volumetric / stopwatch  
Was well cavitated? Yes No X  
Water containerized/Amount NA  
Grufos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1525 | 4/8/08  
Sampled by: DJM & SR  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab X Composite \_\_\_\_\_  
# of Bottles Collected: 11  
Bottle Preservatives: HNO3, H2SO4, None  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: No  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: MW-RS-7  
Project Location: Madison, Indiana  
Date: 4/8/08  
Date: 4/8/08  
Date:

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

Purge Rate (      gpm) x (      min) = 3 Well Volume

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab   x   \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 C.O.C. Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



MW-PS2

Well Identification: MW 127  
Project Location: Madison, Indiana  
Date: 4/19/09  
Date: 4/18/09  
Date:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft

6" I.D., K=1.469 gal/ft

8" I.D., K=2.61 gal/ft

10" ID, K=4.08 gal/ft

1 Well Volume: 28.25  
 Total Depth (25.7 ft) - Depth to Water (3.88 ft) = Height of water column (21.81 ft)  
 Height of water column (21.81 ft) x K value (0.163 gal/ft) = 1 Well Volume (3.55 gal)  
 Purge Volume: 24.39  
 1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)  
 Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
 Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Core	Depth	Core Inches	Turbidity NTU	DO mg/L	ORP mV	Pumped Quantity	Well Volume	Depth to Water	Purge Ratio
1015	11.8	3.14	0.601	588	1.00	-102	0.95		6.04	.19
1020	11.7	3.44	0.568	99	1.75	-97			6.81	.19
1025	11.9	3.58	0.586	39.2	2.01	-86			6.68	.19
1030	11.9	3.65	0.559	56.4	1.42	-84			6.68	.19
1035	11.9	3.74	0.536	21.1	1.36	-85			6.72	.19
1040	12.0	3.97	0.557	16.4	1.38	-90			6.78	.19
1045	12.1	4.24	0.557	11.4	1.21	-112			6.96	.19
1050	12.1	8.32	0.558	16.3	1.32	-102			6.88	.19
1055	12.1	8.36	0.559	9.4	1.30	-164			7.23	.19

**SAMPLING INFORMATION:**

TIME / Date Started: 1055 | 4/18/68  
 Sampled by: DJM & SF  
 Sample Method: Bailer Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 22  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: yes  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DJM & SF  
Sampled by: DJM & SF  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-KS-3  
Project Location: Madison, Indiana  
Date: 4/22/08  
Date: 4/22/08  
Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
~~2" I.D., K=0.163 gal/ft~~  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

1 Well Volume: 4.88 ft) - Depth to Water (5.91 ft) = Height of water column (8.97 ft)  
 Total Depth (4.88 ft) x K value (1.63 gal/ft) = 1 Well Volume (7.96 gal)  
 Height of water column (8.97 ft) x K value (1.63 gal/ft) = 1 Well Volume (14.62 gal)  
**Purge Volume:**  
 1 Well Volume (7.96 gallons) x 3 = 3 Well Volumes (23.88 gallons)  
 Purge Rate (7.96 gpm) x (3 min) = 1 Well Volume  
 Purge Rate (7.96 gpm) x (3 min) = 3 Well Volume

Time	Temp °C	Depth m	Cond mS/cm	NRuby mm	2Dio mm	OH mm	Pumped (Quantity)	Well Volume	Obs Water Temp	Baro Reading
0802	10.5	6.40	0.999	16.7	4.34	+138			6.87	.02
0807	10.5	6.31	0.999	399	3.82	+125			6.60	.02
0812	10.6	6.26	0.999	342	3.30	+120			7.12	.03
0813	10.7	7.05	0.999	191	2.82	+70			7.34	.04
0822	10.7	7.04	0.999	116	2.26	+47			7.49	.04
0823	10.8	7.24	0.999	86.4	1.93	+23			7.57	.04
0832	10.8	7.33	0.999	59.5	1.64	+10			7.64	.04
0833	10.9	7.35	0.999	42.2	1.39	+2			7.70	.04
0842	10.8	7.45	0.999	43.1	1.06	-16			7.96	.08
0847	10.6	7.33	0.999	30.6	0.71	-6			8.39	.08
0852	10.6	7.73	0.999	25.8	0.51	-18			8.83	.08
0857	10.7	7.40	0.999	21.0	0.26	-19			8.97	.08
0907	10.9	7.42	0.999	17.3	0.18	-23			9.04	.08
0916	11.1	7.50	0.999	17.1	0.16	-70			9.10	.08

**PURGE INFORMATION:**

Time / Date Started: 0801 | 4/22/08  
 Time Purge End: 0907  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: ~ 11.88 (ft)  
 Pump Type and ID: FuHz  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22# 15302  
 How was yield measured? volumeetric / sh  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 0907 | 4/12/08  
 Sampled by: ADH & SK  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 11A  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, I, none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: No  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
 A 1-Liter sample bottle was also collected for USGS, not included



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MOL & SIS/OL  
Sampled by: MOL & SIS/OL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-4  
Project Location: Madison, Indiana  
Date: 4.15.08  
Date: 4.15.08  
Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

1 Well Volume: Total Depth (6.75) ft - Depth to Water (6.33) ft = Height of water column (0.42) ft  
Height of water column (0.42) ft x K value (0.65) gal/ft = 1 Well Volume (0.27) gal

**Purge Volume:**

1 Well Volume (                      gallons) x 3 = 3 Well Volumes (                      gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

$$\text{Purge Rate ( } \underline{\hspace{2cm}} \text{ gpm) } \times \text{ ( } \underline{\hspace{2cm}} \text{ min) } = 3 \text{ Well Volume}$$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574																																																																																																																																																																																																																																																																																																																																																																																																																																										

**PURGE INFORMATION:**

Time / Date Started: 1340 4.15.08

Time Purge End: 458

Purge Method: Pump      x      Bailer

Depth to Intake: ~ 14 (ft)

Pump Type and ID: MINI MORGAN

Purge Rate: 0.05 (gpm)

Purged Volume: ~35 (gal)

Water Quality Meter: Hanba U-22# 1584

How was yield measured? (b) beaker cup / stop watch

Was well cavitated? Yes \_\_\_\_\_ No X

Water containerized/Amount	NA
Surface containerized - 0	NA (1 unit)

Gruntfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 152 4-15-02

Sampled by: MSL & STS/OL

Sample Method: Bailer Other Pump

Grab x Composite .

# of Bottles Collected: 11

Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, none

Recovering WL: \_\_\_\_\_

**Duplicate Sampling:** \_\_\_\_\_

**Laboratory:** \_\_\_\_\_

COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

1082



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground Well Identification: MW-RS-5  
 Project Number: 01-1633-04-9381-310 Project Location: Madison, Indiana  
 Purged by: MDL & SSS/OL Date: 4-14-08  
 Sampled by: MDL & SSS/OL Date: 4-14-08  
 Checked by: \_\_\_\_\_ & \_\_\_\_\_ Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**  
 Circle diameter and K used below: 1" I.D., K=0.041 gal/ft 6" I.D., K=1.469 gal/ft  
 2" I.D., K=0.163 gal/ft 8" I.D., K=2.61 gal/ft  
 4" I.D., K=0.653 gal/ft 10" I.D., K=4.08 gal/ft

**1 Well Volume:**  
 Total Depth (15.68 ft) - Depth to Water (3.03 ft) = Height of water column (12.62 ft)  
 Height of water column (12.62 ft) x K value (0.653 gal/ft) = 1 Well Volume (8.25 gal)  
**Purge Volume:**  
 1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

Time	Temp	Cond	Turbidity	pH	ORP	Purge	Well	Depth to	Purge
Time	Temp	Cond	Turbidity	pH	ORP	Rate	Volume	Water	Rate
1354	9.85	7.36	0.047	61.3	5.68	148			0.15
1354	9.85	7.04	0.045	57.1	5.13	201		3.30	0.15
1354	10.13	6.84	0.045	178	6.24	193		3.30	
1354	10.03	6.57	0.043	154	7.35	192		3.29	0.19
1354	10.10	6.50	0.044	126	7.24	201		3.29	
1354	10.21	6.45	0.044	126	7.15	201		3.29	
1354	10.52	6.34	0.044	150	7.32	201		3.28	
1354	10.40	6.33	0.045	158	7.40	201		3.28	0.14
1354	10.18	6.28	0.045	152	7.34	201		3.28	
1354	10.23	6.28	0.045	161	7.44	208		3.28	
1354	10.37	6.28	0.046	166	8.16	211		3.37	0.16
1354	10.37	6.21	0.047	174	7.48	212		3.38	
1354	10.36	6.19	0.047	203	8.04	214		3.36	
1354	10.36	6.18	0.048	211	8.34	214		3.36	
1354	10.49	6.17	0.049	182	8.20	211		3.36	
1404	Flush cell								
1414	10.63	6.17	0.049	179	8.17	205		3.35	0.15
1414	10.54	6.13	0.049	170	8.17	206		3.37	
1424	10.40	6.12	0.050	206	8.81	216			
1424	10.28	6.17	0.050	247	8.44	207		3.60	0.11
1434	10.54	6.15	0.050	243	8.65	206			
1434	10.68	6.06	0.050	338	8.91	235		4.22	0.13
1444	10.58	6.03	0.052	319	8.15	216		4.33	0.07
1444	10.57	6.03	0.057	319	8.49	210		4.43	
1454	10.53	5.87	0.057	334	8.35	205		4.60	

Flushed cell →  
 Flushed cell →  
 Flushed cell →  
 Flush cell, P.  
 41.6666 Hertz  
 into 8.9 in O.D.  
 solution.

**PURGE INFORMATION:**  
 Time / Date Started: 1252 | 4-14-08  
 Time Purge End: 1619  
 Purge Method: Pump x Bailer \_\_\_\_\_  
 Depth to Intake: ~126 (ft)  
 Pump Type and ID: mini monsoon  
 Purge Rate: 0.14-0.08 (gpm)  
 Purged Volume: ~23 (gal)  
 Water Quality Meter: Horiba U-22# 1584  
 How was yield measured? Calibrated cup / stopwatch  
 Was well cavitating? Yes \_\_\_\_\_ No x  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**  
 Time / Date Started: 1619 | 4-14-08  
 Sampled by: MDL & SSS/OL  
 Sample Method: Bailer \_\_\_\_\_ Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 11  
 Bottle Preservatives: HNO3, H2SO4, none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW- RS- 5  
Project Location: Madison, Indiana  
Date: 4-14-08  
Date: 4-14-08  
Date:

Circle diameter and K used below:

1" I.D.,	K=0.041 gal/ft
2" I.D.,	K=0.163 gal/ft
4" I.D.,	K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Total Depth (\_\_\_\_\_ ft) - Depth to Water (\_\_\_\_\_ ft) = Height of water column (\_\_\_\_\_ ft)  
Height of water column (\_\_\_\_\_ ft) x K value (\_\_\_\_\_ gal/ft) = 1 Well Volume (\_\_\_\_\_ gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

Time	Temp °C	pH	Cond µmS/cm	Turbidity NTU	DO mg/L	ORP mV	Fitted Conc mg/L	Weight g/volume	Disputed Water	Surp Rate
15:00	28.45	6.82	0.0057	2.28	8.32	201			5.64	0.11
15:05	28.47	6.80	0.0057	2.28	7.97	201			5.64	0.06
15:10	28.47	6.80	0.0057	2.28	7.70	201			5.64	0.06
15:15	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
15:20	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
15:25	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
15:30	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
15:35	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
15:40	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
15:45	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
15:50	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
15:55	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:00	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:05	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:10	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:15	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:20	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:25	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:30	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:35	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:40	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:45	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:50	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
16:55	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:00	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:05	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:10	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:15	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:20	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:25	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:30	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:35	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:40	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:45	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:50	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
17:55	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
18:00	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
18:05	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
18:10	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
18:15	28.49	6.81	0.0058	2.80	7.55	201			5.64	0.08
18:20	28.49	6.81	0.0058	2.80	7.55	201			5.64</	

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump   x   Bailor \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22# \_\_\_\_\_

How was yield measured? \_\_\_\_\_

Was well caviated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab   x   Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MJE & STS  
Sampled by: MJE & STS / DL  
Checked by: S &

Well Identification: MG-RS6  
Project Location: Madison, Indiana  
Date: 4-14-08  
Date: 4-14-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (17.01 ft) - Depth to Water (5.31 ft) = Height of water column (11.70 ft)  
Height of water column (11.70 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.9 gal)

**Purge Volume:**

1 Well Volume (                      gallons) x 3 = 3 Well Volumes (                      gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

Time	Temp C	Depth m	Cond ms/cm	Transp INTU	DO mg/l	ORP mV	Purge Quantity	Well Volume	Depth Water	Purge Rate
041	9.87	6.28	0.701	7.5	0.00	220				0.13
046	9.74	6.59	0.701	7.3	0.00	220			5.55	
051	10.11	6.66	0.783	2.8	0.00	218			5.66	0.11
052	9.97	6.70	0.774	2.3	0.00	217			5.65	
057	9.73	6.75	0.788	1.6	0.00	207			5.55	
062	9.83	6.76	0.713	2.4	0.00	203			5.55	0.02
067	9.91	6.76	0.779	1.8	0.00	201				
072	10.03	6.78	0.785	1.5	0.00	192			5.55	
077	9.93	6.80	0.717	2.1	0.00	196			5.57	0.02
082	9.87	6.80	0.740	1.1	0.00	193			5.55	0.02
087	9.94	6.81	0.746	1.1	0.00	191			5.55	
092	9.94	6.83	0.804	34.3	0.58	189			5.61	0.02
097	9.98	6.83	0.746	64.7	0.00	187			5.63	
102	10.07	6.83	0.803	48.1	0.00	184			5.63	0.02
107	10.12	6.83	0.792	80.2	0.00	172				
112	10.45	6.84	0.802	25.6	0.00	177			5.63	

**PURGE INFORMATION:**

Time / Date Started: 1038 1 4.14.08  
Time Purge End: 1152  
Purge Method: Pump x Bailor \_\_\_\_\_  
Depth to Intake: ~ 14 (ft)  
Pump Type and ID: Mini monsoon  
Purge Rate: 0.08 (gpm)  
Purged Volume: ~ 6 (gal)  
Water Quality Meter: Horiba U-22# 15964  
How was yield measured? Call. water cap (9.5%)  
Was well cavitated? Yes \_\_\_\_\_ No X  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1156 | 4-14-08  
 Sampled by: MDL & SJS / DJ  
 Sample Method: Bailer Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 11  
 Bottle Preservatives:  $\text{HNO}_3$ ,  $\text{H}_2\text{SO}_4$ , none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: BJM & SP  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-8  
Project Location: Madison, Indiana  
Date: 4/24/00  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume: 7.91 ft - Depth to Water 3.97 ft = Height of water column 13.84 ft  
Height of water column 13.84 ft x K value 0.163 gal/ft = 1 Well Volume 2.26 gal

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

66R = out of range

Time	Temp °C	Temp °F	Cond µm/cm	Turbidity NTU	pH	ORP mV	Purge Quantity	Well Volume	Depth to Water	Purge Rate
0730	10.6	50.2	4.97	0.08	7.20	+172	0.25		4.45	-0.5
0735	10.4	50.7	0.080	0.08	1.97	+149	0.25		4.52	-0.5
0740	10.0	50.0	0.083	0.08	1.22	+149	0.50		5.02	-1.0
0745	10.6	51.1	0.079	0.08	0.44	+147			5.37	-1.0
0750	9.4	48.9	0.074	0.08	0.28	+150			5.49	-1.0
0755	9.8	49.6	0.076	0.08	0.0	+154			5.58	-1.0
0800	10.0	50.0	0.076	0.08	0.90	+156			5.63	-1.0
0805	9.9	49.8	0.074	0.08	0.36	+156			5.66	-1.0
0810	9.9	49.8	0.074	0.08	2.56	+156			5.71	-1.0
0815	10.1	50.2	0.073	0.08	1.80	+155			5.71	-1.0
0820	10.1	50.2	0.074	0.08	0.12	+154			5.71	-1.0
0825	10.2	50.4	0.073	0.08	0.77	+154			5.71	-1.0
0830	10.1	50.2	0.071	0.08	0.0	+153			5.71	-1.0
0835	10.2	50.4	0.071	0.08	0.0	+154			5.71	-1.0
0840	10.3	50.5	0.070	0.08	0.0	+155			5.71	-1.0
0845	10.4	50.7	0.070	0.08	0.11	+156			5.71	-1.0
0850	10.5	50.9	0.072	0.08	3.10	+161			5.71	-1.0
0855	10.3	50.5	0.069	0.08	0.0	+156			5.71	-1.0
0900	10.4	50.7	0.067	0.08	0.0	+162			5.79	-1.0
0905	10.3	50.5	0.068	0.08	0.0	+164			5.91	-1.0
0910	10.4	50.7	0.067	0.08	0.0	+170			5.94	-1.0
0915	10.3	50.5	0.067	0.08	0.06	+172			6.00	-1.0
0920	10.4	50.7	0.066	0.08	0.28	+173			6.09	-1.0
0925	10.3	50.5	0.066	0.08	1.50	+173			6.10	-1.0
0930	10.3	50.5	0.068	0.08	1.83	+178			6.4	-1.0

**PURGE INFORMATION:**

Time / Date Started: 0734 / 4/24/00  
Time Purge End: 1125  
Purge Method: Pump X Bailer \_\_\_\_\_  
Depth to Intake: ~74.81 (ft)  
Pump Type and ID: Full  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22 15302  
How was yield measured? Volumetric / stopwatch  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount: \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1125 / 4/24/00  
Sampled by: BJM & SP  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab X Composite \_\_\_\_\_  
# of Bottles Collected: 11  
Bottle Preservatives: HNO3 + H2SO4 + NaOH  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: No  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

After purging for 4 hours, samples were collected as per  
ESP Addendum 5  
4/24/00 4 liter bottle not included

**GROUNDWATER SAMPLE LOG**

*(continued)*  
**MW-RS-8**

Project Name: Jefferson Proving Ground  
Project Number: 01-1833-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: \_\_\_\_\_  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.489 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (\_\_\_\_ ft) - Depth to Water (\_\_\_\_ ft) = Height of water column (\_\_\_\_ ft)  
Height of water column (\_\_\_\_ ft) x K value (\_\_\_\_ gal/ft) = 1 Well Volume (\_\_\_\_ gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_ gallons)  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volumes

Time	Temp	pH	Cond	Turb	DO	ORP	Purge	Well	Depth	Purge
	F		mc/cm	NTU	mg/L	mv	Quantity	Volume	Water	Rate
0930	10.4	5.62	0.066	221	0.9	+177			6.22	0.16
0935	10.4	5.68	0.068	250	0.9	+168			6.04	0.16
0940	10.4	5.69	0.068	226	0.9	+169			5.98	0.16
0945	10.4	5.68	0.067	210	0.9	+176			5.98	0.16
0950	10.4	5.68	0.066	199	0.9	+167			5.98	0.16
0955	10.5	5.67	0.066	202	0.9	+166			5.98	0.16
1000	10.4	5.67	0.066	191	0.9	+168			6.01	0.16
1005	10.4	5.67	0.067	197	0.9	+189			6.08	0.16
1010	10.5	5.67	0.067	191	0.9	+189			6.10	0.16
1015	10.7	5.69	0.067	205	0.9	+188			6.14	0.16
1020	10.6	5.71	0.067	210	0.9	+188			6.20	0.16
1025	10.7	5.70	0.067	216	0.9	+191			6.20	0.16
1030	10.6	5.70	0.066	209	0.9	+190			6.26	0.16
1035	10.7	5.71	0.066	219	0.9	+190			6.20	0.16
1040	10.7	5.71	0.067	216	0.9	+190			6.20	0.16
1045	10.8	5.71	0.066	214	0.9	+190			6.20	0.16
1050	10.8	5.71	0.066	208	0.9	+192			6.20	0.16
1055	10.7	5.71	0.066	213	0.9	+195			6.20	0.16
1100	11.0	5.71	0.066	220	0.9	+195			6.20	0.16
1105	10.9	5.72	0.066	211	0.9	+194			6.21	0.16
1110	11.0	5.71	0.066	202	0.9	+196			6.20	0.16
1115	11.1	5.70	0.066	211	0.9	+198			6.20	0.16
1120	10.9	5.70	0.066	193	0.9	+198			6.20	0.16
1125	10.8	5.69	0.066	197	0.9	+200			6.20	0.16

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump ☒ Bailer \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? \_\_\_\_\_  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab ☒ Composite \_\_\_\_\_  
# of Bottles Collected: \_\_\_\_\_  
Bottle Preservatives: \_\_\_\_\_  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



ion JPG-DU-01I  
~~JPG-DU-01I~~

Well Identification: 4111010  
Project Location: Madison, Indiana  
Date: 4/10/08  
Date: 4/16/08  
Date: \_\_\_\_\_

Circle diameter and K used below. 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume: 41.7 ft - Depth to Water (2.56 ft) = Height of water column (39.14 ft) 42.31  
 Total Depth (41.7 ft) x K value (0.163 gal/ft) = 1 Well Volume (6.78 gal) 6.90  
 Height of water column (39.14 ft) x K value (0.163 gal/ft) = 1 Well Volume (6.38 gal) 6.90  
 Purge Volume: 46.10 42.31  
 1 Well Volume (          gallons) x 3 = 3 Well Volumes (          gallons) 46.10  
 Purge Rate (          gpm) x (          min) = 1 Well Volume  
 Purge Rate (          gpm) x (          min) = 3 Well Volumes

**PURGE INFORMATION:**

Time / Date Started: 9:03, 4/10/98  
 Time Purge End: 9:40  
 Purge Method: Pump Fulkra Pump Bailor P.M.  
 Depth to Intake: 538.7 (ft) 41.87  
 Pump Type and ID: AA-3000 Fulcr  
 Purge Rate: 0.07 - 0.18 (gpm)  
 Purged Volume: 4.75 (gal)  
 Water Quality Meter: Horiba U-22# 15302  
 How was yield measured? Volumetric / stop watch  
 Was well cavitated? Yes        No X  
 Water containerized / Amount        NA         
 Grunfos controller set @        NA        (Hertz)

Time / Date Started: 9:46 1 4/18/08  
 Sampled by: DJA & JP  
 Sample Method: Bailor Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 33  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, Mo, ve  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: Yes (MS, MSD)  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DJM & SE  
Sampled by: DJM & SE  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: 115-50-021  
Project Location: Madison, Indiana  
Date: 4/14/08  
Date: 4/14/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
~~2" I.D., K=0.163 gal/ft~~  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (32.23 ft) - Depth to Water (18.75 ft) = Height of water column (13.48 ft)  
Height of water column (13.48 ft) x K value (.163 gal/ft) = 1 Well Volume (2.20 gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\quad \text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

Time	Temp °C	pH	Cond mS/cm	Turb NTU	DIO mg/L	ORP mV	PtDO Quantity	Well Volume	Depth Water	PtDO Range
1307	10.4	8.18	0.90	209	3.17	+57	.2		18.50	.04
1312	11.0	8.01	0.818	33.7	2.67	+26			18.51	.04
1317	11.7	8.05	0.811	5.0	2.41	0	.7		18.51	.04
1322	11.1	8.05	0.768	0.0	1.81	-24	.4		18.61	.08
1327	11.1	8.04	0.750	0.0	1.44	-34			18.63	.08
1332	11.1	8.03	0.743	0.0	1.7	-47			18.64	.08
1337	11.1	8.02	0.736	0.0	0.96	-47			18.65	.08
1342	11.1	8.00	0.728	0.0	0.69	-55			18.68	.08
1347	11.1	8.00	0.720	0.0	0.51	-52			18.70	.08
1352	11.2	8.00	0.716	0.0	0.30	-28			18.73	.08
1357	11.4	8.00	0.712	0.0	0.32	-73			18.75	.08
1402	11.3	8.00	0.708	0.0	0.01	-79			18.75	.08
1407	11.3	7.98	0.705	0.0	0.02	-81			18.75	.08
1412	11.4	7.98	0.702	0.0	0.00	-82				

Time / Date Started: 1366 | 4/14/08  
 Time Purge End: 1412  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: ~29.23 (ft) 41160  
 Pump Type and ID: ANCO 5000 F4H2  
 Purge Rate: 0.04-6.08 (gpm)  
 Purged Volume: ~5.8 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Volumetric / 5 steps  
 Was well cavitated? Yes \_\_\_\_\_ No X  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1412 1 4/14/08  
 Sampled by: DJM & SF  
 Sample Method: Bailor Other Pump  
 Grab x Composite  
 # of Bottles Collected: 22  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, Neave  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: Yes  
 Laboratory: \_\_\_\_\_  
 CQC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: JPG-DU-030  
 Project Location: Madison, Indiana  
 Date: 4/9/00  
 Date: 4/9/00  
 Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume:  $27.74$   
 Total Depth ( $24.3$  ft) - Depth to Water ( $4.95$  ft) = Height of water column ( $19.35$  ft)  $22.79$   
 Height of water column ( $19.35$  ft) x K value ( $0.163$  gal/ft) = 1 Well Volume ( $3.16$  gal)  $3.71$   
 Purge Volume:  $22.79$   
 1 Well Volume ( $419108$  gallons) x 3 = 3 Well Volumes ( $419108$  gallons)  
 Purge Rate ( $22.79$  gpm) x ( $60$  min) = 1 Well Volume  
 Purge Rate ( $22.79$  gpm) x ( $60$  min) = 3 Well Volumes

Time	Time Sec	Depth Fm	Cond mS/cm	Turbidity NTU	D.O. mg/L	ORP mV	Purge Quantity	Well Volume	Depth to Water	Purge Rate
1420	12.8	7.87	6.92	00R	3.68	+52	0.55		6.49	.11
1425	11.7	7.30	6.92	00R	1.98	+22	0.55		7.00	.11
1430	11.4	7.32	6.92	00R	3.95	+35	0.65		6.30	.13
1435	11.3	7.29	6.91	00R	2.22	+30	0.5		6.67	.10
1440	11.2	7.40	6.92	60R	2.62	+24			10.0	.10
1445	11.2	7.49	6.91	51R	1.63	+17			10.13	.10
1450	11.3	7.64	6.90	222	2.65	+9			10.47	.10
1455	11.3	7.63	6.89	133	1.56	-4			10.66	.10
1500	11.3	7.61	6.89	113	1.21	-13			10.82	.10
1505	11.3	7.63	6.89	77.2	1.28	-21			10.95	.10
1510	11.2	7.52	6.94	53.5	1.22	-26			11.15	.10
1515	11.1	7.53	6.94	46.3	1.13	-24			11.35	.10
1520	11.0	7.53	6.93	38	0.65	-24			11.55	.10
1525	11.0	7.51	6.99	32.7	0.56	-21			11.55	.10
1530	11.1	7.55	6.99	31.7	0.61	-32			11.64	.10

Time / Date Started: 1530 | 4/9/08  
 Sampled by: SE & ML  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 11  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: No  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

F-36



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DJM & SP  
Sampled by: DJM & SP  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JP4-BU-03I  
Project Location: Madison, Indiana  
Date: 4/9/08  
Date: 4/9/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:  
1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

$0.163 \cdot 10 = 1.63 \text{ SV}$

$1.469 \cdot 10 = 14.7 \text{ BV}$

$14.7 \cdot 1.63 = 13.07$

$13.07 \cdot 0.3 = 3.92$

$3.92 + 1.63 = 5.6 \text{ S+BV}$

1 Well Volume: 64.36 (ft) - Depth to Water 4.69 (ft) = Height of water column 59.67 (ft)  
Height of water column 59.67 (ft) x K value 0.163 gal/ft = 1 Well Volume 9.73 gal

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

*0.02 out of range*

Time	Temp	SpH	Cond	Turbidity	DO	ORP	Purge Quantity	Well Volume	Depth to Water	Purge Rate
1110	12.4	7.60	1.28	521.3	0.01	+67	0.33		9.48	0.07
1115	12.3	7.61	1.28	189	0.02	+48	0.35		10.68	0.07
1120	12.4	7.63	1.28	62.1	1.82	+38	0.9		13.71	0.18
1125	12.6	7.77	1.28	28.1	4.72	+32	0.6		16.75	0.12
1130	12.5	7.90	1.28	23.8	1.50	+24	0.25		17.4	0.05
1135	12.6	7.95	1.28	16.2	1.65	+19	0.25		21.3	0.05
1140	12.7	7.97	1.28	14.2	1.66	+18	0.25		21.55	0.05
1145	12.4	7.97	1.28	14.2	1.51	+9	0.40		23.65	0.08
1150	12.9	7.96	1.28	13.7	1.58	+10	0.40		25.91	0.08
1155	NA	measurement	—	—	—	—	USGS checked		—	0.08
1200	NA	measurement	—	—	—	—	collecting from		—	0.08
1205	NA	measurement	—	—	—	—	sample		—	0.08
1210	NA	measurement	—	—	—	—	—		30.7	0.08
1215	NM	—	—	—	—	—	—		—	0.08
1220	NM	—	—	—	—	—	—		33.20	0.08
1225	NM	—	—	—	—	—	—		33.94	0.08
1230	NM	—	—	—	—	—	—		34.3	0.08
1235	NM	—	—	—	—	—	—		35.04	0.08
1240	NM	—	—	—	—	—	—		—	0.08
1245	NM	—	—	—	—	—	—		38.68	0.08
1250	NA	—	—	—	—	—	—		39.39	0.08
1255	NA	—	—	—	—	—	—		41.03	0.08
1300	NM	—	—	—	—	—	—		—	0.08
1305	NM	—	—	—	—	—	—		—	0.08
1310	13.2	7.70	1.29	0.02	2.02	+16	0.40		45.93	0.08

**PURGE INFORMATION:**

Time / Date Started: 1109 | 4/9/08  
Time Purge End: 1345  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~ 27.9 ft 64.36  
Pump Type and ID: Monsoon Pump  
Purge Rate: 0.05 - 0.18 (gpm)  
Purged Volume: 6.25 (gal)  
Water Quality Meter: Horiba U-22# 15302  
How was yield measured? Volume / stopwatch  
Was well cavitating? Yes NA No X  
Water containerized/Amount: \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1345 | 4/9/08  
Sampled by: DJM & SP  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 11  
Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: No  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Could not collect groundwater. Had low yield with purge procedures. Amount of least current barbed volume from previous installation.



Well Identification: JKA-PV-031  
Project Location: Madison, Indiana  
Date: 12-15-2011  
Date: 12-15-2011  
Date: 12-15-2011

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (I.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



JD-00-040

Well Identification: 318-BU-04  
Project Location: Madison, Indiana  
Date: 4/15/08  
Date: 4/15/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D. K=0.041 gal/ft  
2" I.D. K=0.163 gal/ft  
4" I.D. K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**Purge Volume:**

1 Well Volume (            gallons) x 3 = 3 Well Volumes (            gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

OOR = out of range

PURGE INFORMATION:		SAMPLING INFORMATION:	
Time / Date Started:	<u>749</u>   <u>4/15/08</u>	Time / Date Started:	<u>6850</u>   <u>4/15/08</u>
Time Purge End:	<u>0850</u>	Sampled by:	<u>NSM</u> & <u>SP</u>
Purge Method: Pump	<u>x</u> Bailor	Sample Method: Bailor	<u>Other</u> <u>Pump</u>
Depth to Intake:	<u>~ 47.17</u> (ft)	Grab <u>x</u>	Composite
Pump Type and ID:	<u>Fuiltz</u>	# of Bottles Collected:	<u>11</u>
Purge Rate:	<u>0.016-0.11</u> (gpm)	Bottle Preservatives:	<u>HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None</u>
Purged Volume:	<u>~ 5.55</u> (gal)	Recovering WL:	
Water Quality Meter:	<u>Horiba U-22B</u> <u>15302</u>	Duplicate Sampling:	<u>No</u>
How was yield measured?	<u>volumetric / stop watch</u>	Laboratory:	
Was well cavitated?	Yes <u>No</u> <u>X</u>	COC Form:	
Water container/Amount	<u>NA</u>		
Grunfos controller set @	<u>NA</u> (Hertz)		

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: JPG-DU-043  
Project Location: Madison, Indiana  
Date: 4/15/08  
Date: 4/15/08  
Date:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume: Total Depth (68.56 ft) - Depth to Water (10.38 ft) = Height of water column (58.18 ft)  
Height of water column (58.18 ft) x K value (0.163 gal/ft) = 1 Well Volume (9.49 gal)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

OOR = out of range

**PURGE INFORMATION:**

Time / Date Started: 10/17 | 4:15 PM  
 Time Purge End: 10:52  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: ~65.56 (ft)  
 Pump Type and ID: F4172  
 Purge Rate: 0.09 - 0.13 (gpm)  
 Purged Volume: ~5.0 (gal)  
 Water Quality Meter: Horiba U-22# 15302  
 How was yield measured? Volumetric / Step  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1052 | 9/15/08  
 Sampled by: DJM & SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 11  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: NO  
 Laboratory: \_\_\_\_\_  
 CQG Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)





Project Name:	Jefferson Proving Ground		
Project Number:	01-1633-04-9381-310		
Purged by:	<u>DJM</u>	&	<u>SP</u>
Sampled by:	<u>DJM</u>	&	<u>SP</u>
Checked by:		&	

Well Identification: SP6-DU-860  
Project Location: Madison, Indiana  
Date: 4/15/08  
Date: 4/15/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (23.91 ft) - Depth to Water (4.40 ft) = Height of water column (19.38 ft)  
Height of water column (19.38 ft) x K value (.163 gal/ft) = 1 Well Volume (3.16 gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

Empty  
bin -  
cell

Time / Date Started: 1545 1 4/15/08  
Time Purge End: 1556  
Purge Method: Pump x Bailor \_\_\_\_\_  
Depth to Intake: ~ 20.86 (ft)  
Pump Type and ID: FULTZ  
Purge Rate: 0.04 ~ 0.08 (gpm)  
Purged Volume: ~ 3.6 (gal)  
Water Quality Meter: Horiba U-22B 15302  
How was yield measured? willmor 2 step  
Was well cavitated? Yes \_\_\_\_\_ No x  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

Time / Date Started: 1556 1 4/15/02  
 Sampled by: SWA & SF  
 Sample Method: Bailer Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 11  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, NMC  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: No  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

Two abandoned birches next to well SPG-00-060  
seemed to be slowly drowning. As we progressed,  
Did not seem to affect fertility.

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DJA & SP  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: 1PG-DW-065  
Project Location: Madison, Indiana  
Date: 4/20/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft

2" I.D., K=0.163 gal/ft

4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft

8" I.D., K=2.61 gal/ft

10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (50.94 ft) - Depth to Water (7.58 ft) = Height of water column (43.36 ft)

Height of water column (43.36 ft) x K value (0.163 gal/ft) = 1 Well Volume (7.07 gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

oor = out of range

purge  
Horiba  
cell  
→

purge  
Horiba  
cell  
→

purge  
Horiba  
cell  
→

Time	Date	Depth (ft)	Temp (°C)	Temp (°F)	DO (mg/L)	ORP (mV)	Purge Quantity (gal)	Well Volume (gal)	Depth to Water (ft)	Purge Rate (gpm)
1425	12-3	7.01	1.03	33.66	0.02	5.05	45	0.30	7.38	0.06
1430	11-8	7.24	1.02	33.24	0.02	2.12	135	0.36	7.35	0.06
1435	12-2	7.36	1.01	33.45	0.02	2.67	149	0.55	7.88	0.11
1440	12-3	7.60	1.01	33.00	0.02	2.19	161	0.35	7.28	0.11
1445	12-2	7.35	1.01	33.27	0.02	1.98	171	0.55	8.34	0.16
1450	12-3	7.36	1.01	33.27	0.02	0.0	176	0.55	8.51	0.16
1455	12-3	7.37	1.01	33.27	0.02	1.66	181	0.55	8.68	0.16
1500	12-3	7.38	1.01	33.30	0.02	0.0	186	0.55	8.68	0.16
1505	12-4	7.39	1.01	33.34	0.02	0.0	190	0.55	8.76	0.16
1510	12-4	7.39	1.01	33.34	0.02	0.0	196	0.55	8.81	0.16
1515	12-4	7.39	1.01	33.34	0.02	0.0	196	0.55	8.81	0.16
1520	12-10	7.39	1.01	33.34	0.02	0.0	198	0.55	9.29	0.17
1525	12-3	7.39	1.01	33.34	0.02	0.0	198	0.55	9.69	0.17
1530	12-3	7.39	1.01	33.34	0.02	0.0	198	0.55	9.86	0.17
1535	12-8	7.39	1.01	33.34	0.02	0.0	198	0.55	9.93	0.17
1540	12-8	7.39	1.01	33.34	0.02	0.0	198	0.55	10.01	0.17
1545	12-7	7.39	1.01	33.34	0.02	0.0	198	0.55	9.91	0.17
1550	12-6	7.39	1.01	33.34	0.02	0.0	198	0.55	9.64	0.16
1555	12-7	7.39	1.01	33.34	0.02	0.0	198	0.55	9.71	0.16
1600	12-7	7.39	1.01	33.34	0.02	0.0	198	0.55	9.76	0.16
1605	12-7	7.39	1.01	33.34	0.02	0.0	198	0.55	9.81	0.16
1610	12-8	7.39	1.01	33.34	0.02	0.0	198	0.55	9.85	0.16
1615	12-8	7.39	1.01	33.34	0.02	0.0	198	0.55	9.91	0.16
1620	12-8	7.39	1.01	33.34	0.02	0.0	198	0.55	9.91	0.16
1625	12-9	7.39	1.01	33.34	0.02	0.0	198	0.55	9.92	0.16

**PURGE INFORMATION:**

Time / Date Started: 1423 | 4/20/08  
Time Purge End: 1715  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~43.94 (ft)  
Pump Type and ID: F4 H2  
Purge Rate: 0.6-1.2 (gpm)  
Purged Volume: ~22.9 (gal)  
Water Quality Meter: Horiba U-22# 15362  
How was yield measured? Volumetric / stopwatch  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount: \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1715 | 4/20/08  
Sampled by: DJA & SP  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 11  
Bottle Preservatives: H2O2, H2SO4, Niche  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: No  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: MG 08-06  
 Project Location: Madison, Indiana  
 Date: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Date: \_\_\_\_\_

6" I.D., K=1.489 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)





**GROUNDWATER SAMPLE LOG** (Continued)

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JP6-00-065  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft      6" I.D., K=1.469 gal/ft  
2" I.D., K=0.163 gal/ft      8" I.D., K=2.61 gal/ft  
4" I.D., K=0.653 gal/ft      10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (\_\_\_\_\_) ft - Depth to Water (\_\_\_\_\_) ft = Height of water column (\_\_\_\_\_) ft  
Height of water column (\_\_\_\_\_) ft x K value (\_\_\_\_\_) gal/ft = 1 Well Volume (\_\_\_\_\_) gal

**Purge Volume:**

1 Well Volume (\_\_\_\_\_) gallons x 3 = 3 Well Volumes (\_\_\_\_\_) gallons

Purge Rate (\_\_\_\_\_) gpm x (\_\_\_\_\_) min = 1 Well Volume

Purge Rate (\_\_\_\_\_) gpm x (\_\_\_\_\_) min = 3 Well Volumes

Time	Temp °C	Temp °F	Cond mS/cm	Thiob mg/L	D.O. mg/L	ORP mV	Purged Quantity	Well Volume	Depth to Water	Purged Rate
0958	12.7	7.57	28.6	85.0	0.72	-2.15	45		59.79	.09
1003	12.6	7.57	29.4	89.2	0.58	-2.16			60.51	.09
1008	12.8	7.57	29.1	88.7	1.01	-2.18			61.88	.09
1012	12.8	7.59	29.1	85.3	0.94	-2.19			62.75	.09
1018	13.0	7.60	29.1	88.4	0.89	-2.21			64.49	.09
1023	12.9	7.62	27.5	79.7	0.71	-2.22			65.96	.09
1028	13.0	7.62	27.4	64.6	1.14	-2.24			67.30	.09
1033	13.0	7.62	26.8	53.0	0.93	-2.25			67.31	.09
1038	13.0	7.63	26.8	75.7	1.05	-2.26			67.71	.09
1043	13.0	7.63	26.0	33.7	0.73	-2.28			68.38	.09
1048	13.0	7.63	26.6	82.6	0.80	-2.27			69.83	.09
1053	13.4	7.66	23.9	33.9	0.69	-2.26			70.40	.09
1058	13.7	7.67	21.5	129.0	0.10	-2.34			72.55	.09
1103	13.9	7.72	20.9	88.9	0.74	-2.37			73.70	.09
1108	13.9	7.74	19.1	72.7	0.75	-2.38			74.92	.09
1113	13.8	7.75	18.9	69.7	0.29	-2.39			75.78	.09
1118	13.8	7.75	18.3	65.5	0.31	-2.44			76.81	.09
1123	13.8	7.74	17.9	61.9	0.34	-2.45			77.51	.09
1128	13.8	7.78	17.5	54.6	0.38	-2.46			78.15	.09
1133	14.0	7.78	17.2	57.25	0.37	-2.48			78.87	.09
1138	13.7	7.74	17.0	60.4	0.33	-2.47			79.40	.09
1143	14.0	7.79	16.7	56.64	0.33	-2.48			79.80	.09
1148	14.0	7.80	16.5	62.3	0.34	-2.48			80.20	.09
1153	14.0	7.80	16.3	61.2	0.34	-2.49			81.23	.09

Horiba  
cell  
purged

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump ☒      Bailor \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Honba U-22#  
How was yield measured? \_\_\_\_\_  
Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab ☒      Composite \_\_\_\_\_  
# of Bottles Collected: \_\_\_\_\_  
Bottle Preservatives: \_\_\_\_\_  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: JP6-90-081  
Project Location: Madison, Indiana  
Date: 4/11/08  
Date: 4/11/08  
Date:

10-12, 13-15, 16-18, 19-21, 22-24, 25-27, 28-30, 31-33, 34-36, 37-39, 40-42, 43-45, 46-48, 49-51, 52-54, 55-57, 58-60, 61-63, 64-66, 67-69, 70-72, 73-75, 76-78, 79-81, 82-84, 85-87, 88-90, 91-93, 94-96, 97-99, 100-102, 103-105, 106-108, 109-111, 112-114, 115-117, 118-120, 121-123, 124-126, 127-129, 130-132, 133-135, 136-138, 139-141, 142-144, 145-147, 148-150, 151-153, 154-156, 157-159, 160-162, 163-165, 166-168, 169-171, 172-174, 175-177, 178-180, 181-183, 184-186, 187-189, 190-192, 193-195, 196-198, 199-201, 202-204, 205-207, 208-210, 211-213, 214-216, 217-219, 220-222, 223-225, 226-228, 229-231, 232-234, 235-237, 238-240, 241-243, 244-246, 247-249, 250-252, 253-255, 256-258, 259-261, 262-264, 265-267, 268-270, 271-273, 274-276, 277-279, 280-282, 283-285, 286-288, 289-291, 292-294, 295-297, 298-300, 301-303, 304-306, 307-309, 310-312, 313-315, 316-318, 319-321, 322-324, 325-327, 328-330, 331-333, 334-336, 337-339, 340-342, 343-345, 346-348, 349-351, 352-354, 355-357, 358-360, 361-363, 364-366, 367-369, 370-372, 373-375, 376-378, 379-381, 382-384, 385-387, 388-390, 391-393, 394-396, 397-399, 400-402, 403-405, 406-408, 409-411, 412-414, 415-417, 418-420, 421-423, 424-426, 427-429, 430-432, 433-435, 436-438, 439-441, 442-444, 445-447, 448-450, 451-453, 454-456, 457-459, 460-462, 463-465, 466-468, 469-471, 472-474, 475-477, 478-480, 481-483, 484-486, 487-489, 490-492, 493-495, 496-498, 499-501, 502-504, 505-507, 508-510, 511-513, 514-516, 517-519, 520-522, 523-525, 526-528, 529-531, 532-534, 535-537, 538-540, 541-543, 544-546, 547-549, 550-552, 553-555, 556-558, 559-561, 562-564, 565-567, 568-570, 571-573, 574-576, 577-579, 580-582, 583-585, 586-588, 589-591, 592-594, 595-597, 598-599, 600-601, 602-603, 604-605, 606-607, 608-609, 610-611, 612-613, 614-615, 616-617, 618-619, 620-621, 622-623, 624-625, 626-627, 628-629, 630-631, 632-633, 634-635, 636-637, 638-639, 640-641, 642-643, 644-645, 646-647, 648-649, 650-651, 652-653, 654-655, 656-657, 658-659, 660-661, 662-663, 664-665, 666-667, 668-669, 670-671, 672-673, 674-675, 676-677, 678-679, 680-681, 682-683, 684-685, 686-687, 688-689, 690-691, 692-693, 694-695, 696-697, 698-699, 700-701, 702-703, 704-705, 706-707, 708-709, 710-711, 712-713, 714-715, 716-717, 718-719, 720-721, 722-723, 724-725, 726-727, 728-729, 730-731, 732-733, 734-735, 736-737, 738-739, 740-741, 742-743, 744-745, 746-747, 748-749, 750-751, 752-753, 754-755, 756-757, 758-759, 760-761, 762-763, 764-765, 766-767, 768-769, 770-771, 772-773, 774-775, 776-777, 778-779, 780-781, 782-783, 784-785, 786-787, 788-789, 790-791, 792-793, 794-795, 796-797, 798-799, 800-801, 802-803, 804-805, 806-807, 808-809, 810-811, 812-813, 814-815, 816-817, 818-819, 820-821, 822-823, 824-825, 826-827, 828-829, 830-831, 832-833, 834-835, 836-837, 838-839, 840-841, 842-843, 844-845, 846-847, 848-849, 850-851, 852-853, 854-855, 856-857, 858-859, 860-861, 862-863, 864-865, 866-867, 868-869, 870-871, 872-873, 874-875, 876-877, 878-879, 880-881, 882-883, 884-885, 886-887, 888-889, 890-891, 892-893, 894-895, 896-897, 898-899, 900-901, 902-903, 904-905, 906-907, 908-909, 910-911, 912-913, 914-915, 916-917, 918-919, 920-921, 922-923, 924-925, 926-927, 928-929, 930-931, 932-933, 934-935, 936-937, 938-939, 940-941, 942-943, 944-945, 946-947, 948-949, 950-951, 952-953, 954-955, 956-957, 958-959, 960-961, 962-963, 964-965, 966-967, 968-969, 970-971, 972-973, 974-975, 976-977, 978-979, 980-981, 982-983, 984-985, 986-987, 988-989, 990-991, 992-993, 994-995, 996-997, 998-999, 1000-1001, 1002-1003, 1004-1005, 1006-1007, 1008-1009, 1010-1011, 1012-1013, 1014-1015, 1016-1017, 1018-1019, 1020-1021, 1022-1023, 1024-1025, 1026-1027, 1028-1029, 1030-1031, 1032-1033, 1034-1035, 1036-1037, 1038-1039, 1040-1041, 1042-1043, 1044-1045, 1046-1047, 1048-1049, 1050-1051, 1052-1053, 1054-1055, 1056-1057, 1058-1059, 1060-1061, 1062-1063, 1064-1065, 1066-1067, 1068-1069, 1070-1071, 1072-1073, 1074-1075, 1076-1077, 1078-1079, 1080-1081, 1082-1083, 1084-1085, 1086-1087, 1088-1089, 1090-1091, 1092-1093, 1094-1095, 1096-1097, 1098-1099, 1100-1101, 1102-1103, 1104-1105

1 Well Volume: 21.74 gal  
 Total Depth (21.74 ft) - Depth to Water (26.0 ft) = Height of water column (44.26 ft) 17.4 gal  
 Height of water column (44.26 ft) x K value (1.6) gal/ft = 1 Well Volume (2.84 gal)  
 Purge Volume: 17.4 gal  
 1 Well Volume (17.4 gallons) x 3 = 3 Well Volumes (52.2 gallons)  
 Purge Rate (17.4 gpm) x (1 min) = 1 Well Volume  
 Purge Rate (17.4 gpm) x (3 min) = 3 Well Volumes

Time	Temp	SpH	Cond µm/cm	DO mg/L	DO mg/L	ORP mV	Algae Count	Wt Volume	Depth m	Purge Rate
0832	17.7	7.51	38.2	56.4	0.81	-80	25		25.11	0.05
0839	17.6	7.51	37.7	11.5	0.11	-69			27.07	0.05
0842	17.6	7.51	36.1	7.5	0.59	-86			28.58	0.05
0847	17.6	7.51	22.2	10.7	1.30	-55			30.04	0.05
0852	17.6	7.50	17.6	0.0	1.22	-48			30.21	0.05
0857	17.6	7.82	15.3	0.0	1.16	-44			30.25	0.05
0902	17.6	7.86	13.6	0.0	1.14	-31			30.96	0.05
0908	17.6	7.87	13.1	0.0	1.13	-31			30.71	0.05
0917	17.6	7.88	12.2	0.0	1.12	-32			30.87	0.05
0917	17.6	7.86	11.9	0.0	1.21	-29			31.02	0.05
0922	17.6	7.86	11.5	0.0	1.06	-30			31.19	0.05
0927	17.6	7.85	11.3	0.0	1.12	-33			31.24	0.05
0932	17.6	7.86	11.2	0.0	1.08	-39			31.28	0.05
0937	17.6	7.81	12.6	4.5	0.89	-97	40		35.38	0.05
0942	17.6	7.83	10.4	5.0	0.93	-80	25		35.95	0.05
0947	17.6	7.85	9.4	5.2	0.96	-63			36.14	0.05
0952	17.6	7.86	9.6	5.0	1.03	-43			36.33	0.05
0957	17.6	7.85	9.6	3.2	1.14	-34			35.51	0.05
1002	17.6	7.89	9.6	1.5	1.13	-29			36.81	0.05

Time / Date Started: 1602 1 4/11/08  
 Sampled by: DJA & SF  
 Sample Method: Baller Other Pump  
 Grab x Composite 2  
~~# of Bottles Collected: \_\_\_\_\_~~  
~~Bottle Preservatives: \_\_\_\_\_~~  
~~Recovering WL: \_\_\_\_\_~~  
~~Duplicate Sampling: \_\_\_\_\_~~  
~~Laboratory: \_\_\_\_\_~~  
~~COC Form: \_\_\_\_\_~~

well draw down could not be controlled. After two 1-liter sample bottles filled, well runs dry. Pump is turned off and well is allowed time to recharge.



Well Identification: JPG-00-090  
Project Location: Madison, Indiana  
Date: 4/13/08  
Date: 4/13/08  
Date:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
~~2" I.D., K=0.163 gal/ft~~  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**Purge Volume:**  
 1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

OOE = Out of range

**PURGE INFORMATION:**

Time / Date Started: 1809 1 4/13/08  
 Time Purge End: 1915  
 Purge Method: Pump x Bailer  
 Depth to Intake: 34.0 (ft) 32m  
 Pump Type and ID: Manson Fuller 4/13/08  
 Purge Rate: 0.06 - 0.08 (gpm)  
 Purged Volume: ~ 4.0 (gal)  
 Water Quality Meter: Horiba U-22# 15302  
 How was yield measured? Volume / Stop watch  
 Was well cavitated? Yes      No X  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1715 | 4/13/18  
 Sampled by: DW & SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 11  
 Bottle Preservatives: HNB<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: No  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)





Well Identification: JP6-20-09D  
Project Location: Madison, Indiana  
Date: 4/14/08  
Date: 4/14/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (86.46 ft) - Depth to Water (37.07 ft) = Height of water column (49.44 ft)  
Height of water column (49.44 ft) x K value (0.163 gal/ft) = 1 Well Volume (8.06 gal)

$$\text{Purge Rate ( } \frac{\text{gpm}}{\text{min}} \text{ ) } \times \text{ ( } \frac{\text{min}}{\text{min}} \text{ ) } = 3 \text{ Well Volume}$$
**PURGE INFORMATION:**

**SAMPLING INFORMATION:**

Time / Date Started: 1050 1 4/14/08  
 Sampled by: Dina & SE  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 22  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: yes  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: J26-00-140  
Project Location: Madison, Indiana  
Date: 4/10/08  
Date: 4/16/08  
Date:

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

$$\begin{aligned} 4.163 \times 10 &= 1.635V \\ 1.489 \times 10 &= 14.7 \text{ BV} \\ 14.7 - 1.63 &= 13.07 \\ 13.07 \times 0.3 &= 3.92 \\ 3.92 + 1.63 &= \textcircled{5.6} \\ S + BV \end{aligned}$$

**PURGE INFORMATION:**

### SAMPLING INFORMATION

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

F-51



## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DTM & SE  
Sampled by: DTM & SE  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JP6-BU-146  
Project Location: Madison, Indiana  
Date: 4/11/08  
Date: 4/16/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume ( 88.3 ft) - Depth to Water ( 36.1 ft) = Height of water column ( 52.19 ft) 55.12  
 Height of water column ( 52.19 ft) x K value ( 0.163 gal/ft) = 1 Well Volume ( 8.51 gal) 8.98  
 Purge Volume: 411.08 55.12  
 1 Well Volume ( 88.3 gallons) x 3 = 3 Well Volumes ( 264.9 gallons)  
 Purge Rate ( 411.08 gpm) x ( 3 min) = 1 Well Volume  
 Purge Rate ( 411.08 gpm) x ( 3 min) = 3 Well Volumes

[illegible]

**PURGE INFORMATION:**

Time / Date Started: 1345 4/10/08  
Time Purge End: 1430  
Purge Method: Pump x Bailor  
Depth to Intake: ~85 ft (ft) 88.23  
Pump Type and ID: Magnason Full 2  
Purge Rate: 0.09 (gpm)  
Purged Volume: 3.6 (gal)  
Water Quality Meter: Horiba U-22H 15302  
How was yield measured? volumetric / stopwatch  
Was well cavitated? Yes        No X  
Water containerized/Amount        NA  
Grunt/ controller set @        NA (Hertz)

**SAMPLING INFORMATION:**

CAMP LINE IN CHARGE: 1920      1      4/11/08  
 Time / Date Started: \_\_\_\_\_  
 Sampled by: DJM      &      SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 11  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: NCS  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-01 / SR-0-01 DATE COLLECTED (MM/DD/YY): 4-13-08  
 TIME: 1415 / 1430  
O / S

SAMPLING LOCATION CODE: BC-CA-03  
 DESCRIPTION: Flat, cave passage w/ spring

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ : 0 TO 0 BLS  
 SAMPLE MEDIA CODE: 55 / 01 DESCRIPTION: Sediment / Water

WEATHER: Cloudy 40°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Flow off ledge is at four points. Rate at all four are similar. Timed flow at one point and multiplied by 4 for estimate of flow. Used 500 ml dipper and timed filling. 500ml / 2 sec or 250ml/sec = 4.0 g/min x 4 = 16 gal/min (total flow).

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>50</u>	<u>cpm</u>	<u>19790 / 212132</u>	<u>4-1-08</u>
TEMPERATURE:	<u>10.43</u>	<u>°C</u>	<u>15964</u>	<u>4-13-08</u>
pH:	<u>5.84</u>	<u>SDU</u>		
CONDUCTIVITY:	<u>0.208</u>	<u>ns/cm</u>		
REDOX:	<u>239</u>	<u>mV</u>		
DO:	<u>11.27</u>	<u>mg/L</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>34.9</u>	<u>NTU</u>		
OTHER <u>Salinity</u> :	<u>0.01</u>	<u>‰</u>	<u>↓</u>	<u>↓</u>

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

RAO instrument used 44.9.

Recorded By: Matt / Jpg QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)



# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-02/JP-D-02 DATE COLLECTED (MM/DD/YY): 4-23-08  
TIME: 1030/1105

SAMPLING LOCATION CODE: BC-CA-06  
DESCRIPTION: Cave w/ flow

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: \_\_\_\_\_ ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Measured flow w/ plastic sheeting stretched across  
water falling off cave ledge to direct to 5gal bucket 3.5gal/14secs  
= 15.2 gpm. Water collected off ledge at cave mouth into bottles

(H) (L)  
Cave mouth  $\approx$  5x3. Flow is on bedrock. Some coarse sand at mouth. For  
gr deposition on ledges in cave collected for wet sample

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	35	cpm	16517	4-1-08
TEMPERATURE:	12.09	°C	15824	4-23-08
pH:	5.75	nH un		
CONDUCTIVITY:	0.346	ns/cm		
REDOX:	187	mV		
DO:	14.10	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	55.6	NTU		
OTHER _____:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J. J.  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JPL-03/JPD-03 DATE COLLECTED (MM/DD/YY): 4-22-08  
 TIME: 1200 / 1235  
W D

SAMPLING LOCATION CODE: BCCA-09A  
 DESCRIPTION: Cave

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 65°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Partially collapsed passage w/ flow. Cave mouth ~ 15' from creek. Flow out of cave is dispersed by rock debris. Sample collected where flow cascades off bedrock shelf to stream.

Flow measured w/ calibrated bucket @ 1.5 gpm

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	43	cpm	16517	4-1-08
TEMPERATURE:	13.39	°C	15964	4-22-08
pH:	7.14	pH units		
CONDUCTIVITY:	0.263	ms/cm		
REDOX:	203	mV		
DO:	13.49	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	70.24	NTU		
OTHER _____:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☐ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt [Signature] QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)

PROJECT NAME: JPG

SAMPLE ID NUMBER: JP-W-04 / JP-O-04

DATE COLLECTED (MM/DD/YY): 4.25.08

TIME: 1000 / 1020  
W / D

SAMPLING LOCATION CODE: BC-SD-03

DESCRIPTION: Stream sed location

**SAMPLING POINT CODE:**

## DESCRIPTION

**NORTHING:**

**EASTING:**

**ELEVATION:**

SAMPLE DEPTH CODE: : TO

**BLS**

**SAMPLE MEDIA CODE:**

**DESCRIPTION:**

WEATHER: Sunny, 65°F

**ACTIVITIES IN AREA:**

FIELD OBSERVATIONS: Stream enters behind stump on S bank. Frgr deposition w/ some sandy deposits on S bank behind stump. Channel has bedrock and sand.

Collected seed dup of location

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	37	cpm		
TEMPERATURE:	20.12	°C	15964	4.25.08
pH:	6.05	Alkalinity		
CONDUCTIVITY:	133	µm/cm		
REDOX:	23			
DO:	8.57			
ORGANIC VAPORS:	1.1			
TURBIDITY:	0.1	NTU		
OTHER :				

SAMPLE TYPE: ~~1~~ GRAB

☐ QC TRIP BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

☐ SPATIAL COMPOSITE


QC RINSATE

☐ TIME COMPOSITE

☐ QC FIELD BLANK

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By:   
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)



# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W-05/JP-D-05 DATE COLLECTED (MM/DD/YY): 4-23-08

TIME: W/D  
1315/1330

SAMPLING LOCATION CODE: BC-TB-03

DESCRIPTION: trib to Big Creek

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: \_\_\_\_\_

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Shallow flow on bedrock and sand. Some finer gr in

slower pools. Water / sed collected upstream on trib ~ 50' upstream of BC

tree at W bank of trib at location had finer gr sand (composite sample

collected).

(Used partially bent float (paper) for estimate of flow. Too shallow for

flow meter.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	46	cpm	16517	4-1-08
TEMPERATURE:	15.04	°C	15964	4-23-08
pH:	5.88	std. u.		
CONDUCTIVITY:	0.331	ms/cm		
REDOX:	200	mV		
DO:	13.90	mg/L		
ORGANIC VAPORS:	NP	NP		
TURBIDITY:	49.8	NTU		
OTHER _____				

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J.

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)





# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W06/JP0-06

DATE COLLECTED (MM/DD/YY): 4-24-08

TIME: 1140 / 125  
W / S

SAMPLING LOCATION CODE: BC-CA-07

DESCRIPTION: Cave on S side of BC near concrete bridge

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 70°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Low flow over on bedrock ~ 3' x 4' mouth. Sample sets at mouth and below below mouth. Further back cave is collapsed bedrock. Sample only sets just inside mouth

Flow rate = 1.0 gpm. Measured flows off rock ledge w/ calibrated clipper and total individual flows to get cave flow

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	41	cpm		
TEMPERATURE:	12.41	°C	1564	4-24-08
pH:	5.8	std units		
CONDUCTIVITY:	0.290	ns/cm		
REDOX:	28	mV		
DO:	10.41	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	45.3	NTU		
OTHER _____:				

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO. SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt [Signature]

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JPW-07 / JP-0-07

DATE COLLECTED (MM/DD/YY): 4-25-08

TIME: 1335 / 1400  
W/D

SAMPLING LOCATION CODE: BC-SO-08

DESCRIPTION: SW / Sed location

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 75°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Flow near bridge is slow to pool. Sandy rocky bottom bedrock. ~ 40' upstream on N bank is 4" in sand silt gr size deposition. Silt seen during original stream survey was on bedrock ledge, now exposed. Sed is dry

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	33	CPM		
TEMPERATURE:	23.20	°C	15964	4-25-08
pH:	6.45	std. unit		
CONDUCTIVITY:	0.285	µS/cm		
REDOX:	261	mV		
DO:	10.18	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	44.4	NTU		
OTHER:				

SAMPLE TYPE:

☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC-FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: \_\_\_\_\_

Matt [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_

(Signature)



**SAMPLE LOG SHEET**

**PROJECT NAME:** JPC **PROJECT NO:**

**SAMPLE ID NUMBER:** JLV-08/JV-08 **DATE COLLECTED (MM/DD/YY):** 4-22-08  
**TIME:** 1430 / 1500

**SAMPLING LOCATION CODE:** BC-SE-04  
**DESCRIPTION:**

**SAMPLING POINT CODE:**  
**DESCRIPTION:**

**NORTHING:** **EASTING:** **ELEVATION:**

**SAMPLE DEPTH CODE:** TO **BLS**

**SAMPLE MEDIA CODE:** **DESCRIPTION:**

**WEATHER:** **ACTIVITIES IN AREA:**

**FIELD OBSERVATIONS:** Low flow groundwater seep on N. bank of BC. Had to dig a small hole to sink dipper to collect water to transfer to sample bottles. Sandy soils at bank fr. of deposition of seep discharge.

**Flow:** 500 ml / 11 secs. = 0.37 gpm 0.73 gpm

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	46	cpm	1677	4-1-08
TEMPERATURE:	13.47	°C	18964	4-22-08
pH:	7.01	ph units		
CONDUCTIVITY:	0.94	ms/cm		
REDOX:	191	mv		
DO:	13.00	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	190	NTU		
OTHER:				

**SAMPLE TYPE:** ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY)

**SAMPLE COLLECTED:** ☐ YES ☐ NO **SAP SAMPLING PROCEDURE WAS FOLLOWED:** ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

**Recorded By:** (Signature) **QC Checked By:** (Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W09/JP-009 DATE COLLECTED (MM/DD/YY): 4.24.08  
TIME: 1330/1410  
W D

SAMPLING LOCATION CODE: JRS. BC-11  
DESCRIPTION: Cave

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy, 75°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Cave w/ flow, mouth ~ 2' H x 6' wide. Some fr  
gr deposition just in cave mouth on E. side. Mostly sand deposits and  
fallen rock at foot of passage. Set sample w/ fr.

Flow ~ 22 gpm. Measured in calibrated 5 gal bucket

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	37	cpm		
TEMPERATURE:	13.01	°C	15964	4.24.08
pH:	6.10	50 units		
CONDUCTIVITY:	0.396	ms/cm		
REDOX:	279	md		
DO:	13.06	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	584	NTO		
OTHER:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J. QC Checked By: \_\_\_\_\_  
(Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: RW-10/JPG-D-10

DATE COLLECTED (MM/DD/YY): 4-25-08

TIME: 1155/1130  
W D

SAMPLING LOCATION CODE: JPG-DC-12

DESCRIPTION: Cave

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 70°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Cave passage is 1' H x 6' W with flow. Many  
gravel, rock frags at mouth. Some fines of sand. Soil coarse sandy

Flow = 2.5 gpm Measured discharge at well w/ 5 gal bucket

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>46</u>	<u>CPM</u>		
TEMPERATURE:	<u>13.04</u>	<u>°C</u>	<u>15864</u>	<u>4-25-08</u>
pH:	<u>6.31</u>	<u>pH units</u>		
CONDUCTIVITY:	<u>0.289</u>	<u>MS/cm</u>		
REDOX:	<u>288</u>	<u>mV</u>		
DO:	<u>11.79</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>59.7</u>	<u>NTU</u>		
OTHER:				

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Mandy [Signature]

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W-11 / JP-D-11

DATE COLLECTED (MM/DD/YY): 4.23.08

TIME: 1600 / 1615  
W O

SAMPLING LOCATION CODE: RC-SD-07

DESCRIPTION: Sand bar downstream of Wilson Dam on RC

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: \_\_\_\_\_

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Island downstream of Wilson Dam with sandy deposition in middle areas. Sed sample sandy. Sed collected on N side of island. Water collected on N side of island.

Flow collected at a mid point of island. Area up of island influenced by dam flow, down rock / bedrock obstructions

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	17	cpm	651	4.1.08
TEMPERATURE:	23.01	°C	15464	4.15.08
pH:	6.02	ph units		
CONDUCTIVITY:	0.300	µS/cm		
REDOX:	0.21	mV		
DO:	7.22	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	58.7	NTU		
OTHER:				

SAMPLE TYPE:

☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: \_\_\_\_\_

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)





**PROJECT NO:**

DATE COLLECTED (MM/DD/YY): 04.22.08  
TIME: 1005 / 1050  
W D

DESCRIPTION: Outside of DV area on SE bank. Flow eases behind point / tree

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: : TO BLS

SAMPLE MEDIA CODE: 9 DESCRIPTION:

WEATHER: Sunny, 60°F ACTIVITIES IN AREA:

FIELD OBSERVATIONS:

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	28	cpm	16517	4-1-08
TEMPERATURE:	16.49	°C	15964	4-22-08
pH:	6.43	gH <sub>2</sub> O		
CONDUCTIVITY:	0.471	µS/cm		
REDOX:	143	mV		
DO:	9.99	mg/L		
ORGANIC VAPORS:	NM			
TURBIDITY:	12.1	NTU		
OTHER :				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☐ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)



# SAMPLE LOG SHEET

PROJECT NAME: JP

PROJECT NO:

SAMPLE ID NUMBER: JPW-13/JP-D-13

DATE COLLECTED (MM/DD/YY): 4-24-08

TIME: 0815/0835  
W/D

SAMPLING LOCATION CODE: BC-SQ-09

DESCRIPTION: Slow flow at Bridge on E road

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 60°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Low flow, sandy rocky bottom w/ some aquatic veg.

Finer grain deposition at tank. Water and soil collected ~ 30' downstream of bridge.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	34	cpm		
TEMPERATURE:	17.60	°C	15964	4-24-08
pH:	5.99	pH units		
CONDUCTIVITY:	0.335	ns/cm		
REDOX:	262	mV		
DO:	8.07	mg/L		
ORGANIC VAPORS:	NM			
TURBIDITY:	4.1	NTU		
OTHER:				

SAMPLE TYPE:

☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

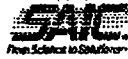
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: \_\_\_\_\_

(Signature)

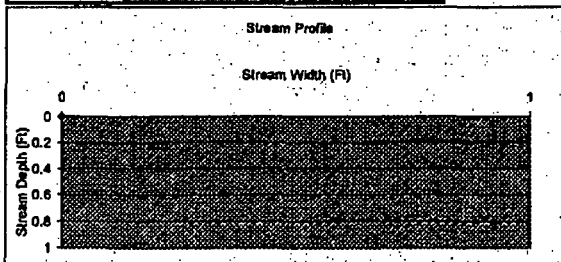
QC Checked By: \_\_\_\_\_

(Signature)



Stream Gauging Data Collection Sheet		Page 1 of 1
Date: 4-28-08	Time: 0850	
Project Name & Location: JPC		
Collected By: MDL/STB/ES	Station Description (circle all that apply)	
Station ID: JPC/D-13	Stream Bed Description: <input checked="" type="radio"/> Gravel <input type="radio"/> Sand <input type="radio"/> Silty <input type="radio"/> Bedrock	
Current Weather Conditions: Sunny 60°F	Flow Description: <input type="radio"/> Obstructed <input type="radio"/> Turbulent <input checked="" type="radio"/> Smooth	
Stream Width (ft): 41 ft	Water Clarity: <input type="radio"/> Very silty <input type="radio"/> Cloudy <input checked="" type="radio"/> Clear	
Instrument Type & ID: Marsh MC	Ice: <input checked="" type="radio"/> None <input type="radio"/> Partially frozen <input type="radio"/> Frozen	
Notes:	Heavy Rain in past 7 days: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	
Carbonate Area: <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown		

Distance from Bank (ft)	Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Flow (ft <sup>3</sup> /s)	Comment
1	.45	0			
3	1.00	0			
5	1.05	0			
7	1.15	0			
9	1.40	.64			
11	1.45	.61			
13	1.70	.65			
15	1.70	.66			
17	1.75	.64			
19	1.75	.68			
21	1.65	.63			
23	1.70	.66			
25	1.75	.66			
27	1.85	.63			
29	1.80	.64			
31	1.90	.63			
33	1.75	0			
35	1.70	.62			
37	1.75	0			
39	1.80	0			
Total Flow:					



Notes:

A stream profile is a cross-section of a stream showing the depth of the water and the shape of the stream bed. It is used to determine the flow rate of a stream and to identify areas of erosion or deposition.

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# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-14/JP-0-14

DATE COLLECTED (MM/DD/YY): 4-23-08

TIME: 1435/1455  
W 8

SAMPLING LOCATION CODE: BC-TB-04

DESCRIPTION: N-S flowing trib to BC

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy 80°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Trib flowing from N of big creek. Bottom rocky and sandy. Sed sample sandy. Collected at mouth of trib at BC

Flow measurement collected w/ flow meter. Recorded on field form

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	46	CPM	6517	4-1-08
TEMPERATURE:	78.0	°F	78.0	7-25-07
pH:	6.04	pH		
CONDUCTIVITY:	253	µS/cm		
REDOX:	209	mV		
DO:	0.50	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	83.0	NTU		
OTHER:				

SAMPLE TYPE:

☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: \_\_\_\_\_

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)



**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JPL-15/JPD-15 DATE COLLECTED (MM/DD/YY): 4-25-08  
 TIME: 1230/1235  
W/D

SAMPLING LOCATION CODE: TDC SD-01  
 DESCRIPTION: Stream sed sample

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy 75°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Low flow downstream of culvert at Morgan and E road  
Pool discharge punched between 2 points (gravel / soil bars). Channel pools  
downstream of points w/ tr gr deposition on SE bank.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>27</u>	<u>cpm</u>		
TEMPERATURE:	<u>28.51</u>	<u>°C</u>	<u>15964</u>	<u>4-25-08</u>
pH:	<u>6.38</u>	<u>nd.u</u>		
CONDUCTIVITY:	<u>0.146</u>	<u>ns/cm</u>		
REDOX:	<u>258</u>	<u>mV</u>		
DO:	<u>9.38</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>55.1</u>	<u>NTU</u>		
OTHER _____:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. [Signature] QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)

<b>Stream Gauging Data Collection Sheet</b>		<b>Page 1 of 1</b>	
<b>Date:</b> 4-25-08		<b>Time:</b> 1305	
<b>Project Name &amp; Location:</b> JPC			
<b>Collected By:</b> MDL/STS/ES		<b>Station Description (circle all that apply)</b>	
<b>Station ID:</b> JP.WD-15		Stream Bed Description: <input type="radio"/> Gravelly <input checked="" type="radio"/> Sand <input type="radio"/> Silty <input type="radio"/> Bedrock	
<b>Current Weather Conditions:</b> Sunny 75°F		Flow Description: <input type="radio"/> Obstructed <input checked="" type="radio"/> Turbulent <input type="radio"/> Smooth	
<b>Stream Width (ft):</b> 1.5'		Water Clarity: <input type="radio"/> Very silty <input type="radio"/> Cloudy <input checked="" type="radio"/> Clear	
<b>Instrument Type &amp; ID:</b> Marsh MC		Ice: <input checked="" type="radio"/> None <input type="radio"/> Partially frozen <input type="radio"/> Frozen	
<b>Notes:</b>		Heavy Rain in past 7 days: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	
		Carbonate Area: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	

Distance from Bank (ft)	Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Flow (ft <sup>3</sup> /s)	Comment
0	0.1	0			
2"	0.1	0.01			
4"	0.2	0.36			
6"	0.2	0.72			
8"	0.2	1.38			
10"	0.2	1.80			
12"	0.15	0.51			
14"	0.15	0.20			
16"	0.14	0			
18	0	0			
20	0	0			
22	0	0			
24	0	0			



# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JRW-5/J-D-16

DATE COLLECTED (MM/DD/YY): 4-24-08

TIME: 1000/1030  
W/D

SAMPLING LOCATION CODE: TBC-SD-08

DESCRIPTION: Stream / catchment

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 65°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Along headwaters of northern trib. Very low flow and a lot of organic material. Unable to get accurate flow due to sticks, rocks, log debris. Flow ~ 3/4" - 1" deep

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>26</u>	<u>cpm</u>		
TEMPERATURE:	<u>18.21</u>	<u>°C</u>	<u>18964</u>	<u>4-24-08</u>
pH:	<u>5.25</u>	<u>dd u</u>		
CONDUCTIVITY:	<u>0.185</u>	<u>mc/cm</u>		
REDOX:	<u>232</u>	<u>mV</u>		
DO:	<u>8.45</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>31.4</u>	<u>NTU</u>		
OTHER _____:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO. SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W-171 JP-D-17 DATE COLLECTED (MM/DD/YY): 4.27.08  
TIME: 1630 / 1700  
WTD

SAMPLING LOCATION CODE: MF-SO-01  
DESCRIPTION: Salmon / surface water sample

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy 70°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Downstream of debris obstruction. Stream banks to  
Not broken w/ fr of deposits at head. Stream bottom becoming  
vegetated.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	43	43cpm		
TEMPERATURE:	21.99	°C	15964	4.27.08
pH:	6.24	g/L		
CONDUCTIVITY:	0.67	ms/cm		
REDOX:	283	mV		
DO:	11.26	mg/L		
ORGANIC VAPORS:	UM	ppm		
TURBIDITY:	6.5	NTU		
OTHER:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. [Signature] QC Checked By: \_\_\_\_\_  
(Signature) (Signature)



# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JPW-18/RD-18 DATE COLLECTED (MM/DD/YY): 4-27-08  
TIME: 1530/1545  
W/D

SAMPLING LOCATION CODE: MF-SD-06  
DESCRIPTION: Pooled water at beaver dam

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy, 70°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Pooled behind beaver dam. Dam breached probably during high flow event. Bottom is bedrock and gravel. Some sand and silt deposition near bank. Collected sand on NW side of stream.  
Collected MS/MGD

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	42	cpm		
TEMPERATURE:	21.48	°C	15964	4-27-08
pH:	6.07	units		
CONDUCTIVITY:	0.280	µm/cm		
REDOX:	285	mV		
DO:	11.55	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	12.3	NTU		
OTHER:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt J. [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)



**SAMPLE LOG SHEET**

PROJECT NAME: JP6 PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-6.19/JP-D.19 DATE COLLECTED (MM/DD/YY): 4.25.08  
 TIME: 1440/1455  
W/O

SAMPLING LOCATION CODE: MF SD-09  
 DESCRIPTION: Silt / Sed sample

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy JP6 ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Upstream of bridge, water slow to pool. Fr. gr. deposition on N bank. Bottom of channel bedrock and sand/silt. Velocity measurement upstream of sed sample > 20'

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>43</u>	<u>cpm</u>		
TEMPERATURE:	<u>23.20</u>	<u>°C</u>	<u>1584</u>	<u>4.25.08</u>
pH:	<u>6.64</u>	<u>3.4 units</u>		
CONDUCTIVITY:	<u>0.331</u>	<u>ns/cm</u>		
REDOX:	<u>223</u>	<u>mV</u>		
DO:	<u>10.40</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>46.9</u>	<u>NTU</u>		
OTHER _____:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt [Signature] QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)



# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W-20/JP-D-20 DATE COLLECTED (MM/DD/YY): 4-27-08  
TIME: 1340/1350  
W/D

SAMPLING LOCATION CODE: MF-CA-01  
DESCRIPTION: Cave w/ flow

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy 60°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Rocky bottom w/ sand. Sand is v. fine gr.  
Measured flow rate at mouth where water cascades out of hollow shell  
800ml/sec

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	31	BPM		
TEMPERATURE:	18.35	°C	15964	4-27-08
pH:	5.82	unit		
CONDUCTIVITY:	0.284	MS/cm		
REDOX:	289	mV		
DO:	12.45	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	49.3	NTU		
OTHER:				

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Mandy S. QC Checked By: \_\_\_\_\_  
(Signature) (Signature)





MW -

Well Identification: \_\_\_\_\_  
Project Location: Madison, Indiana  
Date: 7/28/08  
Date: 7/31/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen =  
10.13 ft

1 Well Volume: Total Depth (35.03 ft) - Depth to Water (11.39 ft) = Height of water column (23.64 ft)  
Height of water column (23.64 ft) x K value (0.63 gal/ft) = 1 Well Volume (3.85 gal)  
Purge Volume: 1 Well Volume (3.85 gallons) x 3 = 3 Well Volumes (11.56 gallons)  
Purge Rate ( ) gpm x ( ) min = 1 Well Volume  
Purge Rate ( ) gpm x ( ) min = 3 Well Volume

~~Prin Volume~~  
Prin Volume: N/A because  
well work dry

well want try

Time / Date Started: 1424 | 7/28/08  
 Time Purge End: 1458 | 7/21/08  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: ~ 34 (ft)  
 Pump Type and ID: Furte  
 Purge Rate: 0.93 - 0.95 (gpm)  
 Purged Volume: ~ 3 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Gravimetric (by volume)  
 Was well cavitated? Yes X No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

Time / Date Started: 1500 | 7/31/08  
 Sampled by: SP & RL  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNos, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: 31.79 ft BVC  
 Duplicate Sampling: No  
 Laboratory: GL  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
 1 lb clear water, no odor, well went dry on 7/28/08. Restart pump w/  
 sampling on 7/21/08.



Well Identification: MW-2  
Project Location: Madison, Indiana  
Date: 7-22-98  
Date: 7-22-98  
Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume:  
Total Depth (25.94 ft) - Depth to Water (12.25 ft) = Height of water column (13.69 ft)  
Height of water column (13.69 ft) x K value (.163 gal/ft) = 1 Well Volume (2.23 gal)  
Purge Volume:  
1 Well Volume (2.23 gallons) x 3 = 3 Well Volumes (6.69 gallons)  
Purge Rate (2.23 gpm) x (3 min) = 1 Well Volume  
Purge Rate (2.23 gpm) x (3 min) = 3 Well Volumes

→ ~~Control~~  
→ ~~Flow~~ ~~Control~~

Well  
then dry  
after  
sampling  
min when  
volume for  
10 bottles

\* 1162- BTL = 14.92 - BPRC - rest of sampling and fill all 13 bottles

Time / Date Started: 1513 | 7/22/04  
 Sampled by: DM & SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: 18.80  
 Duplicate Sampling: No  
 Laboratory: GPC  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
 Difficult to control flow rate lower than .04 g/min (very erratic)  
 513 - Could not control drawdown, but stable parameters and minimum purge volume  
 (3.5 gallons)

## GROUNDWATER SAMPLE LOG



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SP & RL  
Sampled by: SP & RL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-5  
Project Location: Madison, Indiana  
Date: 7/29/08  
Date: 7/29/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.853 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.81 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen  
25.85 ft BPTC

1 Well Volume: 35.85 ft - Depth to Water (19.21 ft) = Height of water column (16.64 ft)  
Height of water column (16.64 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.7 gal)  
Purge Volume:  
1 Well Volume (2.7 gallons) x 3 = 3 Well Volumes (8.1 gallons)  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volume

Time	Depth (ft)	Flow (gpm)	Pressure (psi)	Temperature (°F)	ORP (mV)	pH	DO (mg/L)	Depth (ft)	Flow (gpm)
1010	16.3	6.49	7.41	23.1	3.81	-13	-	19.97	0.04
1015	14.6	7.08	4.02	19.7	0.73	-28	0.26	21.95	0.04
1020	15.5	7.09	3.32	24.0	0.44	-25	0.46	22.09	0.02
1025	16.0	7.14	3.07	24.2	0.42	-24	0.50	22.32	0.02
1030	16.2	7.16	3.13	28.2	0.81	-32	0.60	22.56	0.02
1035	16.2	7.16	3.20	31.4	0.75	-31	0.70	22.71	0.02
1040	16.4	7.16	3.21	34.8	0.72	-29	0.80	22.90	0.02
1045	16.3	7.16	3.24	40.7	0.65	-28	0.90	23.08	0.02
1050	16.4	7.15	3.69	45.0	0.57	-28	1.00	23.29	0.02
1100	17.0	7.14	3.96	7.1	1.37	-25	1.20	23.36	0.02
1105	17.7	7.15	4.07	8.6	0.47	-27	1.30	23.44	0.02
1110	17.8	7.14	4.40	8.8	0.69	-24	1.40	23.54	0.02
1115	16.3	7.14	4.87	10.9	0.45	-30	1.50	23.91	0.02
1120	16.2	7.14	4.77	13.4	0.35	-27	1.60	24.16	0.02
1125	15.6	7.13	4.75	15.0	0.30	-22	1.70	24.40	0.02
1130	16.0	7.13	4.69	16.5	0.26	-19	1.80	24.61	0.02
1135	16.0	7.13	4.85	18.4	0.27	-20	1.90	24.77	0.02
1140	15.9	7.13	5.07	19.8	0.25	-30	2.0	24.97	0.02
1145	15.9	7.13	5.23	24.6	0.22	-26	2.1	25.20	0.02
1150	15.7	7.13	5.44	21.6	0.20	-18	2.2	25.40	0.02
1155	16.2	7.13	5.43	22.9	0.19	-20	2.3	25.49	0.02
1200	16.3	7.13	5.59	22.5	0.20	-20	2.4	25.67	0.02
1205	16.1	7.13	6.01	23.0	0.16	-21	2.5	25.99	0.02
1210	16.2	7.13	6.04	22.8	0.12	-19	2.6	26.24	0.02
1215	16.1	7.13	6.03	21.6	0.11	-18	2.7	26.46	0.02

← Mixed Horizon

**PURGE INFORMATION:**

Time / Date Started: 1010 / 7/29/08  
Time Purge End: 1220 / 7/29/08  
Purge Method: Pump x Bailer  
Depth to Intake: ~34.8 (ft)  
Pump Type and ID: RLTE  
Purge Rate: 0.02-0.04 (gpm)  
Purged Volume: 2.8 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Graduate Cylinder  
Was well cavitating? Yes x No  
Water containerized/Amount NA  
Grinfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1220 / 7/29/08  
Sampled by: SP & RL  
Sample Method: Bailer Other Pump  
Grab x Composite  
# of Bottles Collected: 13  
Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
Recovering WL: 29.7 ft BPTC  
Duplicate Sampling: NO  
Laboratory: GPL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

looks clear, No change, constant draw down





Well Identification: MLW-6  
Project Location: Madison, Indiana  
Date: 7/15/08  
Date: 7-30-08  
Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen =  
32.78 ft

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

04 Am  
7/15/00

SAMPLES IN GLASS JARS

Time / Date Started: 1434 | 7:30 AM

Sampled by: MDL & ERS

Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_

Grab x Composite \_\_\_\_\_

# of Bottles Collected: 12

Bottle Preservatives: None, H<sub>2</sub>O<sub>2</sub>, more

Recovering WL: 25.9%

Duplicate Sampling: NO

Laboratory: GPL

COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

## GROUNDWATER SAMPLE LOG

Project Name:	Jefferson Proving Ground
Project Number:	01-1633-04-9381-310
Purged by:	_____ & _____
Sampled by:	_____ & _____
Checked by:	_____ & _____

Well Identification: 17W-6  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.489 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

**1 Well Volume:**

Total Depth ( ) ft) - Depth to Water ( ) ft) = Height of water column ( ) ft)  
Height of water column ( ) ft) x K value ( ) gal/ft) = 1 Well Volume ( ) gal)

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (      gpm) x (      min) = 3 Well Volume

[illegible]

1. ~~Not~~ wait any

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Honba U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab   x   \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)





**SAIC Science Applications**  
From Science to Solutions™ International Corporation

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DJM & SP  
Sampled by: DJM & SP  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-8  
Project Location: Madison, Indiana  
Date: 7/21/08  
Date: 7/21/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

8" I.D., K=1.489 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Minimum purge volume  
(screen not fully submerged)  
 $.767 \times 11.2 = 8.59$  (BV)  
 $.763 \times 11.2 = 8.54$  (SV)  
 $2.28 \times .3 = .684$   
 $+ 1.83$   
 $= 2.51$  gal

**1 Well Volume:**

Total Depth (30.51 ft) - Depth to Water (23.67 ft) = Height of water column (6.84 ft)  
Height of water column (6.84 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.11 gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Tip of screen =  
20.51 ft BVC

NA  
(well went dry)

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0735	14.6	6.56	0.609	21.6	1.51	-144	~		25.69	.06
0740	14.8	6.73	0.593	24.1	0.0	-140	.30		26.30	.06
0745	16.2	6.84	0.589	26.7	.05	-149	.43		26.41	.03
0750	16.0	6.04	0.595	21.1	0.63	-149	.60		26.60	.03
0755	16.1	7.13	0.591	17.6	0.35	-145	.75		26.81	.03
0800	16.2	7.20	0.584	13.3	1.51	-133	.90		27.05	.03
0805	16.6	7.23	0.579	12.4	2.47	-125	1.05		27.09	.03
0810	16.9	7.14	0.577	12.2	2.63	-121	1.20		27.11	.03
0815	17.2	7.27	0.576	9.9	2.87	-116	1.35		27.13	.03
0820	16.4	7.29	0.574	7.4	3.26	-108	1.50		27.68	.03
0825	17.5	7.14	0.563	6.1	4.07	-107	1.60		27.77	.02
0830	16.8	7.17	0.573	6.6	4.20	-94	1.70		27.92	.02
0835										
0840										
1156	17.4	7.61	0.584	20.2	9.63	-2	NA		26.36	NA
1204	well dry									
1259	restoration sampling									
1330	well dry									
1432	restoration sampling									
1437	well dry									
1611	final restoration sampling									

**PURGE INFORMATION:**

Time / Date Started: 0734 | SP 7/21/08  
Time Purge End: 0830  
Purge Method: Pump X Bailer \_\_\_\_\_  
Depth to Intake: 27.01 (ft)  
Pump Type and ID: FH8  
Purge Rate: 0.06 (gpm)  
Purged Volume: 1.70 (gal)  
Water Quality Meter: Horiba U-22 16358  
How was yield measured? graduated cylinder  
Was well cavitating? Yes X No \_\_\_\_\_  
Water containerized/Amount: NA  
Grupos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1156 | SP 7/21/08  
Sampled by: DJM & SP  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab X Composite \_\_\_\_\_  
# of Bottles Collected: 12  
Bottle Preservatives: HNO3, H2SO4  
Recovering WL: 27.92 (dry)  
Duplicate Sampling: NA  
Laboratory: GPL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

0835 - pumped well dry (DLV = 27.92 BVC)  
1139 - DLV = 23.73 BVC = well almost fully recharged

\* due to well running dry and time constraints, only 1 1-lb bottle collected  
L. uranium (C-14) &



Well Identification: 176-9  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 7-27-08  
Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

[illegible]

Time / Date Started: 1650 | 7-27-08  
 Sampled by: ML & ESS  
 Sample Method: Bailer X Other \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 5  
 Bottle Preservatives: H<sub>2</sub>O<sub>2</sub> none  
 Recovering WL: for sampling water line  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

Filled (vacuum filler and up to head) annular filter and up to head and metals (up to head to min vol. per lab. Well down head Well not purged Sand loaded

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: D. Lee & CF  
Sampled by: D. Lee & CF  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-10  
Project Location: Madison, Indiana  
Date: 7/16/08  
Date: 7/17/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.489 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen =  
21.53 A OPVC

**1 Well Volume:**

Total Depth (41.53 ft) - Depth to Water (7.53 ft) = Height of water column (34 ft)  
Height of water column (34 ft) x K value (.163 gal/ft) = 1 Well Volume (5.54 gal)

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0746	13.2	6.63	2.92	95.0	0.01	+7.2	0.66		0.99	.13
0751	13.9	7.04	0.913	65.0	0.0	+3.9	0.46		10.00	.06
0756	14.0	7.14	2.431	92.6	0.0	+1.9	1.2		20.63	.05
0801	14.1	7.13	0.921	88.1	0.0	+1.5	1.45		11.30	.05
0806	14.2	7.19	0.916	96.2	0.0	+1.1	1.3		11.98	.05
0811	14.2	7.22	0.925	47.0	0.38	+1.0	1.95		12.52	.05
0816	14.4	7.21	0.920	47.1	0.0	+1.3	2.2		12.81	.05
0821	14.5	7.22	0.918	51.5	0.0	+1.1	2.45		13.13	.05
0826	14.6	7.23	0.913	53.3	0.0	+7	2.7		13.40	.05
0831	15.0	7.24	0.914	61.0	0.0	+6	2.45		13.69	.05
0836	15.1	7.24	0.914	70.2	0.0	+8	2.05		13.87	.05
0841	14.1	7.13	0.915	61.3	0.0	-1	3.25		15.14	.04
0846	14.0	7.10	0.918	40.0	0.0	+2.3	3.4		15.15	.03
0851	14.1	7.12	0.915	43.4	0.0	+2.5	3.55		16.33	.03
0856	14.1	7.11	0.914	43.2	0.02	+2.3	3.25		16.91	.04
0901	14.3	7.11	0.909	56.4	0.04	+2.0	3.45		17.43	.04
0906	14.4	7.22	0.906	58.0	0.1	+1.0	3.15		17.7	.04
0911	14.5	7.23	0.912	24.0	0.78	+4.0	4.35		18.09	.04
0916	14.8	7.22	0.916	23.9	0.22	+3.7	4.55		18.30	.04
0921	14.9	7.22	0.910	23.5	0.20	+3.3	4.35		18.57	.04
0926	15.5	7.24	0.903	27.8	0.20	+3.2	4.95		18.83	.04
0931	15.8	7.25	0.906	36.1	0.22	+3.1	5.15		19.04	.04
0936	15.9	7.25	0.910	32.7	0.22	+3.2	5.35		19.25	.04
0941	16.7	7.24	0.900	30.0	0.22	+3.1	5.55		19.5	.04
0946	16.4	7.24	0.900	41.8	0.23	+3.0	5.35		19.65	.04

→ Empty Hail Cell

→ Empty Hail Cell

**PURGE INFORMATION:**

Time / Date Started: 0745 | 7/16/08  
Time Purge End: 1516  
Purge Method: Pump x Bailor \_\_\_\_\_  
Depth to Intake: ~38.53 (ft)  
Pump Type and ID: F-112  
Purge Rate: .02-.13 (gpm)  
Purged Volume: ~18.7 (gal)  
Water Quality Meter: Hanna U-22s  
How was yield measured? graduated cylinder  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount: \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 0811 | 7/17/08  
Sampled by: D. Lee & CF  
Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, NaOH  
Recovering WL: 38.13 ft BNC  
Duplicate Sampling: No  
Laboratory: GP  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

After 7+ hours of purging, required volume (18.21 gal) is reached but  
at 16:25 feet or lower remains in well. purging is postponed  
until 7/17/08

**GROUNDWATER SAMPLE LOG**

*(Continued) (Page 2)*

Project Name: Jefferson Proving Ground  
Project Number: 01-1833-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-10  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (\_\_\_\_ ft) - Depth to Water (\_\_\_\_ ft) = Height of water column (\_\_\_\_ ft)  
Height of water column (\_\_\_\_ ft) x K value (\_\_\_\_ gal/ft) = 1 Well Volume (\_\_\_\_ gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_ gallons)

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0951	16.6	7.24	0.898	44.9	0.22	+30	5.95		19.03	.04
0956	16.7	7.25	0.895	44.1	0.23	+30	6.15		19.16	.04
1001	15.5	7.26	0.901	46.3	1.40	+34	6.35		20.51	.04
1006	15.7	7.19	0.891	6.6	0.52	+36	6.55		20.73	.04
1011	16.0	7.22	0.887	12.8	0.57	+35	6.75		21.02	.04
1016	16.2	7.24	0.881	15.7	0.25	+34	6.95		21.28	.04
1021	16.4	7.24	0.879	18.8	0.23	+33	7.15		21.49	.04
1026	16.5	7.25	0.875	22.7	0.20	+32	7.35		21.60	.04
1031	16.5	7.25	0.873	27.4	0.2	+32	7.55		21.91	.04
1036	15.9	7.22	0.858	31.5	0.14	+33	7.75		22.09	.04
1041	15.4	7.24	0.859	34.4	0.13	+34	7.95		22.29	.04
1046	15.8	7.24	0.845	35.9	0.12	+33	8.15		22.49	.04
1051	16.2	7.24	0.834	43.9	0.13	+32	8.35		22.71	.04
1056	16.6	7.25	0.826	49.2	0.14	+31	8.55		22.87	.04
1101	16.6	7.25	0.834	1.5	1.77	+39	8.75		23.06	.04
1106	16.6	7.22	0.833	2.2	0.57	+35	8.95		23.22	.04
1111	17.6	7.29	0.813	4.0	0.45	+32	9.15		23.35	.04
1116	15.7	7.24	0.800	8.1	0.37	+36	9.35		23.50	.04
1121	15.8	7.20	0.795	10.4	0.28	+33	9.55		24.07	.05
1126	16.7	7.21	0.791	18.9	0.31	+32	9.7		24.40	.05
1131	16.0	7.22	0.797	24.1	0.24	+32	9.95		24.74	.05
1136	16.9	7.17	0.805	116.7	0.59	+35	10.1		24.93	.03
1141	16.0	7.21	0.819	17.4	0.55	+31	10.25		25.14	.03
1146	17.0	7.23	0.814	17.8	0.43	+25	10.4		25.30	.03
1151	16.6	7.25	0.823	27.0	0.43	+26	10.55		25.55	.03

→ Harbor Cell  
purged

→ Harbor Cell  
purged

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump ☒ Bailer \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horba U-22#  
How was yield measured? \_\_\_\_\_  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab ☒ Composite \_\_\_\_\_  
# of Bottles Collected: \_\_\_\_\_  
Bottle Preservatives: \_\_\_\_\_  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG**

(Continued) (Page 3)

Project Name:	Jefferson Proving Ground	Well Identification:	MW-10
Project Number:	01-1633-04-9381-310	Project Location:	Madison, Indiana
Purged by:	&	Date:	
Sampled by:	&	Date:	
Checked by:	&	Date:	

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.489 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft

Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

**Purge Volume:**

1 Well Volume ( ) gallons x 3 = 3 Well Volumes ( ) gallons

Purge Rate ( ) gpm x ( ) min = 1 Well Volume

Purge Rate ( ) gpm x ( ) min = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mV	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1156	16.7	7.25	0.835	28.2	0.47	+29	15.5		25.78	0.03
1201	17.1	7.15	0.828	30.3	0.46	+30	10.35		25.87	0.03
1206	17.0	7.26	0.839	31.2	0.53	+32	11		26.03	0.03
1211	17.3	7.32	0.849	11.8	1.46	+39	11.15		26.25	0.03
1216	17.0	7.23	0.867	11.9	1.07	+36	11.3		26.35	0.03
1221	17.0	7.23	0.866	15.2	1.07	+37	11.46		26.41	0.03
1226	17.0	7.26	0.867	15.5	1.10	+42	11.6		26.52	0.03
1231	18.0	7.27	0.871	18.9	1.35	+47	11.35		26.63	0.03
1236	15.2	7.30	0.881	22.2	1.68	+49	11.95		27.18	0.04
1241	15.1	7.21	0.880	25.6	1.93	+51	12.15		28.04	0.04
1246	17.0	7.17	0.875	25.7	2.28	+56	12.3		28.27	0.03
1251	17.5	7.27	0.879	23.4	2.32	+55	12.45		28.44	0.03
1256	17.3	7.22	0.888	25.3	2.48	+56	12.60		28.51	0.03
1301	18.2	7.31	0.896	21.1	2.48	+60	12.75		28.59	0.03
1306	17.8	7.20	0.900	28.5	2.67	+60	12.9		28.60	0.03
1311	17.3	7.23	0.896	32.0	2.94	+62	13.05		28.69	0.03
1316	18.1	7.26	0.891	32.1	2.46	+61	13.2		28.68	0.03
1321	17.8	7.31	0.902	30.6	2.44	+61	13.35		28.79	0.03
1326	17.7	7.31	0.908	32.3	2.55	+63	13.5		28.90	0.03
1331	17.6	7.30	0.903	30.3	2.59	+66	13.65		29.00	0.03
1336	17.7	7.29	0.899	35.3	2.68	+67	13.8		29.11	0.03
1341	17.8	7.30	0.906	47	2.76	+71	13.95		29.20	0.03
1346	17.2	7.13	0.910	24	5.24	+77	14.1		29.30	0.03
1351	17.9	7.28	0.916	3.6	4.00	+80	14.3		29.39	0.03
1356	16.0	7.36	0.916	7.3	4.24	+81	14.5		29.44	0.03

→ purge  
Horiba Cell

→ purge  
Horiba Cell

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump ☒ Bailer \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba LI-22# \_\_\_\_\_

How was yield measured? \_\_\_\_\_

Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_

Sampled by: \_\_\_\_\_ & \_\_\_\_\_

Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_

Grab ☒ Composite \_\_\_\_\_

# of Bottles Collected: \_\_\_\_\_

Bottle Preservatives: \_\_\_\_\_

Recovering WL: \_\_\_\_\_

Duplicate Sampling: \_\_\_\_\_

Laboratory: \_\_\_\_\_

COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG (continued) - (page 4)**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by:                      &                       
Sampled by:                      &                       
Checked by:                      &                     

Well Identification: MW-10  
Project Location: Madison, Indiana  
Date:                       
Date:                       
Date:                     

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft      5" I.D., K=1.469 gal/ft  
2" I.D., K=0.163 gal/ft      8" I.D., K=2.81 gal/ft  
4" I.D., K=0.653 gal/ft      10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (                      ft) - Depth to Water (                      ft) = Height of water column (                      ft)  
Height of water column (                      ft) x K value (                      gal/ft) = 1 Well Volume (                      gal)

**Purge Volume:**

1 Well Volume (                      gallons) x 3 = 3 Well Volumes (                      gallons)

Purge Rate (                      gpm) x (                      min) = 1 Well Volume

Purge Rate (                      gpm) x (                      min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1401	16.7	7.28	0.906	7.9	4.16	+84	14.7		30.39	0.04
1406	17.2	7.32	0.903	7.5	4.36	+85	14.9		30.68	0.04
1411	16.6	7.32	0.918	9.0	4.72	+87	15.1		30.95	0.04
1416	16.6	7.32	0.910	9.5	4.71	+89	15.3		31.18	0.04
1421	16.6	7.31	0.910	10.8	4.76	+92	15.5		31.24	0.04
1426	16.8	7.33	0.912	14.0	4.70	+90	15.7		31.49	0.04
1431	17.0	7.33	0.910	15.0	4.51	+83	16.9		31.33	0.04
1436	16.9	7.34	0.908	15.6	4.52	+95	17.1		31.62	0.04
1441	16.1	7.33	0.908	20.9	4.70	+96	17.3		32.11	0.04
1446	16.4	7.28	0.906	22.3	4.65	+90	17.5		32.58	0.04
1451	17.1	7.32	0.907	26.4	4.77	+87	17.7		33.17	0.04
1456	17.6	7.33	0.906	27.8	4.71	+87	17.9		33.21	0.04
1501	17.6	7.33	0.910	32.5	4.71	+86	18.1		33.33	0.04
1506	15.6	7.35	0.919	8.1	5.72	+81	18.3		33.78	0.04
1511	16.1	7.36	0.912	9.4	4.52	+74	18.5		34.17	0.04
1516	16.2	7.29	0.912	16.1	4.32	+68	18.7		34.73	0.04
0811	13.9	6.34	0.91	21.2	7.89	+153	—		12.25	—

← Purge  
station  
cell

Stopped purge &  
to achieving  
target volume of  
18.21 gallons.  
Guidance provided  
by Todd Friday

**PURGE INFORMATION:**

Time / Date Started:                      |                       
Time Purge End:                       
Purge Method: Pump   x   Bailor                       
Depth to Intake:                      (ft)  
Pump Type and ID:                       
Purge Rate:                      (gpm)  
Purged Volume:                      (gal)  
Water Quality Meter: Honbe U-22#  
How was yield measured?                       
Was well cavitated? Yes                      No                       
Water containerized/Amount                      NA                       
Grunfos controller set @                      NA                      (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started:                      |                       
Sampled by:                      &                       
Sample Method: Bailor                      Other                      Pump                       
Grab   x   Composite                       
# of Bottles Collected:                       
Bottle Preservatives:                       
Recovering WL:                       
Duplicate Sampling:                       
Laboratory:                       
COC Form:                     

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-8381-310  
Purged by: SE & RL  
Sampled by: SE & RL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-11  
Project Location: Madison, Indiana  
Date: 7/29/08  
Date: 8/1/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.853 gal/ft  
6" I.D., K=1.468 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen =  
12.30 ft

Main volume = N/A because  
well went dry

1 Well Volume: 4.23 ft - Depth to Water (13.11 ft) = Height of water column (29.19 ft)  
Total Depth (4.23 ft) x K value (0.163 gal/ft) = 1 Well Volume (4.76 gal)  
Purge Volume: 4.26 gallons x 3 = 3 Well Volumes (14.28 gallons)  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volume

7/29/08

1428	16.0	7.11	20.4	64.2	4.29	-97	-	12.98	0.03
1425	17.4	7.11	22.5	61.7	1.38	-97	0.15	13.65	0.03
1430	15.0	7.32	17.2	72.5	0.30	-117	0.30	14.08	0.03
1435	14.9	7.43	13.5	108.0	0.38	-133	0.45	16.04	0.03
1440	15.2	7.57	10.4	137	0.25	-144	0.60	16.96	0.03
1445	16.8	7.63	9.5	168.0	0.33	-143	0.75	13.39	0.03
1450	18.7	7.65	7.6	219	0.27	-141	0.90	17.62	0.03
1455	19.2	7.74	6.45	282	0.02	-157	1.05	18.98	0.03
1460	15.0	7.77	6.96	20.2	1.54	-164	1.20	20.40	0.03
1505	14.7	7.68	6.33	64.2	0.0	-180	1.35	21.12	0.03
1510	14.7	7.89	3.16	98.7	0.16	-177	1.50	22.10	0.03
1515	14.3	8.04	1.32	136	0.13	-157	1.65	24.05	0.03
1520	14.8	7.97	1.58	169	1.10	-137	1.80	25.08	0.03
1525	13.6	7.83	1.16	206	2.25	-109	2.40	27.15	0.10
1530	13.6	7.69	0.90	212	3.83	-62	2.90	29.31	0.10
1535	13.9	7.72	0.91	224	4.67	-39	3.40	31.22	0.10
1540	13.9	7.47	0.828	206	7.77	-36	3.90	32.78	0.10
1545	14.0	7.49	0.827	213	4.24	-32	4.40	33.96	0.10
1550	14.4	7.52	0.853	24.2	4.95	-35	4.90	35.14	0.10
1555	14.2	7.54	1.11	24.7	4.13	-60	5.40	36.23	0.10
1600	13.4	7.48	1.27	24.3	3.85	-53	5.90	38.43	0.10
1605	13.5	7.47	2.18	47.1	2.20	-44	6.40	40.58	0.10
1608									

← purged Horiba cell

← purged Horiba cell

well went dry

8/1/08

159 No parameters → Sampled well by bailing  
**PURGE INFORMATION:**  
Time / Date Started: 1420 | 7/29/08  
Time Purge End: 1608 | 7/29/08  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~41.3 (ft)  
Pump Type and ID: 5.5 ft  
Purge Rate: 0.08 - 0.1 (gpm)  
Purged Volume: ~6.4 (gal)  
Water Quality Meter: Horiba U-228  
How was yield measured? Gravimetric cylinder  
Was well cavitating? Yes x No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA  
Grubfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**  
Time / Date Started: 1605 | 8/1/08  
Sampled by: AL & SP  
Sample Method: Bailer x Other \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 2 (Unfiltered only - 1 filtered)  
Bottle Preservatives: HNO3 | None  
Recovering WL: well dry  
Duplicate Sampling: No  
Laboratory: GPL  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/todor, etc.)

100% O2 at start



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SP & RL  
Sampled by: SP & RL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-1  
Project Location: Madison, Indiana  
Date: 7/27/08  
Date: 7/27/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:  
1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen =  
7.89 ft BAVC

1 Well Volume: 15.89 ft - Depth to Water 3.65 ft = Height of water column 12.24 ft  
Height of water column 12.24 ft x K value (0.163) gal/ft = 1 Well Volume (2.00) gal  
Purge Volume: 2 gallons x 3 = 3 Well Volumes (6) gallons  
1 Well Volume (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Depth (ft)	Temp (°C)	Pressure (psi)	Flow (gpm)	Depth (ft)	Temp (°C)	Pressure (psi)	Flow (gpm)	Depth (ft)	Temp (°C)	Pressure (psi)	Flow (gpm)
135	17.7	6.52	0.96		1.84	-20			5.00	0.09		
1356	17.5	6.56	0.877		0.71	-33	0.45		5.71	0.08		
1401	18.2	6.90	0.861		0.84	-36	0.85		5.74	0.08		
1406	17.3	6.92	0.895	540	0.0	-52	1.25		6.58	0.08		
1411	17.8	6.96	0.877	410	0.02	-57	1.65		6.08	0.06		
1416	17.4	6.94	0.938	328	0.0	-51	1.95		6.13	0.06		
1421	17.3	6.98	0.911	309	0.0	-55	2.25		6.14	0.06		
1426	17.3	6.98	0.912	306	0.0	-58	2.55		6.22	0.06		
1431	17.1	6.95	0.926	424	0.0	-52	2.85		6.21	0.06		
1436	17.3	6.95	0.918	170	0.0	-63	3.15		6.20	0.06		
1441	17.1	6.98	0.921	164	0.0	-70	3.45		6.20	0.06		
1446	17.2	7.00	0.918	161	0.0	-75	3.75		6.19	0.06		
1451	17.2	7.01	0.917	158	0.0	-79	4.05		6.19	0.06		
1456	17.3	7.02	0.919	158	0.0	-82	4.35		6.19	0.06		
1501	17.2	7.02	0.911	108	0.05	-79	4.65		6.17	0.06		
1506	17.2	6.99	0.925	108	0.0	-81	4.95		6.16	0.06		
1511	17.2	7.00	0.922	108	0.0	-83	5.25		6.17	0.06		
1516	17.2	7.00	0.925	108	0.0	-85	5.55		6.15	0.06		
1521	17.1	7.02	0.900	88.7	0.0	-85	5.85		6.18	0.06		
1526	17.2	7.03	0.914	89.0	0.0	-86	6.15		6.20	0.06		
1531	17.3	7.01	0.935	88.9	0.0	-86	6.45		6.19	0.06		
1536	17.3	7.00	0.908	82.7	0.0	-87	6.75		6.15	0.06		
1541	17.2	6.99	0.930	82.2	0.0	-87	7.05		6.12	0.06		
1546	17.0	7.02	0.912	81.9	0.0	-91	7.35		6.44	0.10		
1551	17.0	7.02	0.922	84.8	0.0	-91	7.85		6.38	0.10		

← Purged Horizon cell

← Purged Horizon cell

← Purged Horizon cell

← Purged Horizon cell

**PURGE INFORMATION:**  
Time / Date Started: 1751 / 7/27/08  
Time Purge End: 1751 / 7/27/08  
Purge Method: Pump X Baller \_\_\_\_\_  
Depth to Intake: 17.2 (ft)  
Pump Type and ID: ROSE  
Purge Rate: 0.06-0.09 (gpm)  
Purged Volume: 7.85 (gal)  
Water Quality Meter: Horiba U-22  
How was yield measured? (Gravimetric) Cylinder  
Was well cavitating? Yes X No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**  
Time / Date Started: 1751 / 7/27/08  
Sampled by: SP & RL  
Sample Method: Baller \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab X Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: H2SO4, HNO3, None  
Recovering WL: 81.04 ft BAVC  
Duplicate Sampling: No  
Laboratory: RL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
Very milky water, Flowrate stabilized at 0.06 gpm with BTW, water smells like sulfur

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-8381-310  
Purged by: SP & RL  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-1  
Project Location: Madison, Indiana  
Date: 7/27/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

(page 2) (continued)

~~Top of Screen~~  
~~EST. A-B-C~~

1 Well Volume:  
Total Depth (15.89 ft) - Depth to Water (3.65 ft) = Height of water column (12.24 ft)  
Height of water column (12.24 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.00 gal)  
Purge Volume: 2 gallons x 3 = 3 Well Volumes (6 gallons)  
1 Well Volume (2 gallons) x 3 = 3 Well Volumes (6 gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Depth	Pressure	Flow	Temp	ORP	Purge	SW	Depth	Flow
1556	17.3	6.94	0.903	74.2	0.17	-82	8.35	0.20	0.10
1601	17.1	6.96	0.924	74.7	0.0	-85	8.85	6.17	0.10
1606	17.4	6.99	0.925	74.2	0.0	-89	9.35	6.02	0.10
1611	17.5	6.98	0.908	73.9	0.0	-88	9.85	6.03	0.10
1616	16.8	7.06	0.861	75.5	0.0	-97	10.35	7.98	0.20
1621	16.9	7.01	0.887	84.0	0.0	-101	11.35	8.25	0.20
1626	16.9	6.99	0.892	88.0	0.0	-101	12.35	8.25	0.20
1631	17.0	6.97	0.910	84.4	0.0	-98	13.35	8.25	0.20
1636	16.9	6.99	0.899	89.7	0.0	-100	14.35	8.25	0.20
1641	16.9	6.99	0.879	81.4	0.0	-101	15.35	8.25	0.20
1646	16.9	6.98	0.904	78.5	0.0	-101	16.35	8.25	0.20
1651	16.9	6.97	0.893	77.7	0.0	-101	17.35	8.25	0.20
1656	17.0	6.97	0.895	76.1	0.0	-98	18.35	8.25	0.20
1701	17.0	6.98	0.873	76.7	0.0	-99	19.35	8.25	0.20
1706	17.4	6.99	0.867	76.0	0.0	-98	20.35	8.25	0.20
1711	17.2	6.99	0.881	75.4	0.0	-97	21.35	8.25	0.20
1716	17.5	6.99	0.874	75.1	0.0	-96	22.35	8.25	0.20
1721	17.5	6.98	0.872	75.0	0.0	-94	23.35	8.25	0.20
1726	17.7	6.98	0.868	75.3	0.0	-92	24.35	8.25	0.20
1731	17.5	6.98	0.881	74.6	0.0	-90	25.35	8.25	0.20
1736	17.6	6.98	0.869	74.8	0.0	-89	26.35	8.25	0.20
1741	17.5	6.98	0.869	75.0	0.0	-88	27.35	8.25	0.20
1746	17.5	6.98	0.868	74.6	0.0	-86	28.35	8.25	0.20
1751	17.3	6.97	0.874	74.4	0.0	-85	29.35	6.25	0.20

Purged  
Horiba cell  
Purged Horiba  
cell  
Purged Horiba  
cell

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? \_\_\_\_\_  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: \_\_\_\_\_  
Bottle Preservatives: \_\_\_\_\_  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SF & RL  
Sampled by: SF & RL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-2  
Project Location: Madison, Indiana  
Date: 7/28/08  
Date: 7/28/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.162 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

TOP of Screen =  
17.75 ft BPVL

1 Well Volume:  
Total Depth (27.75 ft) - Depth to Water (8.44 ft) = Height of water column (19.31 ft)  
Height of water column (19.31 ft) x K value (0.162 gal/ft) = 1 Well Volume (3.15 gal)  
Purge Volume: 3.15 gallons x 3 = 3 Well Volumes (9.45 gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Depth	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1005	16.8	7.36	0.458	526	0.53	-45	—	—	9.13	0.06
1110	15.5	7.27	0.462	410	0.0	-108	0.30	—	9.51	0.06
1115	14.9	7.28	0.457	252	0.0	-92	0.00	—	9.87	0.06
1120	14.8	7.32	0.455	180	0.16	-88	0.90	—	10.12	0.06
1125	14.6	7.37	0.454	93.6	0.40	-84	1.20	—	10.33	0.06
1130	14.3	7.41	0.454	75.3	0.45	-83	1.50	—	10.45	0.06
1135	14.2	7.45	0.452	67.1	0.46	-82	1.80	—	10.61	0.06
1140	14.1	7.50	0.451	67.3	0.46	-83	2.10	—	10.70	0.06
1145	14.0	7.56	0.451	71.7	0.44	-85	2.40	—	10.73	0.06
1150	14.1	7.70	0.449	20.3	0.64	-96	2.70	—	10.78	0.06
1155	13.9	7.71	0.449	16.1	0.47	-96	3.0	—	10.82	0.06
1200	13.9	7.71	0.449	11.5	0.46	-92	3.3	—	10.83	0.06
1205	14.0	7.72	0.447	10.9	0.49	-88	3.6	—	10.84	0.06
1210	14.1	7.72	0.450	12.2	0.42	-86	3.9	—	10.85	0.06
1215	14.4	7.73	0.449	12.9	0.47	-86	4.2	—	10.83	0.06
1220	14.5	7.73	0.449	13.3	0.47	-83	4.5	—	10.48	0.06
1225	14.5	7.71	0.450	14.5	0.47	-83	4.8	—	10.42	0.06

**PURGE INFORMATION:**  
Time / Date Started: 1105 | 7/28/08  
Time Purge End: 1225 | 7/28/08  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~25 (ft)  
Pump Type and ID: FVH2  
Purge Rate: 0.06 (gpm)  
Purged Volume: 4.8 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Graduated cylinder  
Was well cavitating? Yes X No \_\_\_\_\_  
Water containerized/Amount: \_\_\_\_\_ NA  
Gruntfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**  
Time / Date Started: 1225 | 7/28/08  
Sampled by: SF & RL  
Sample Method: Bailer \_\_\_\_\_ Other Pump  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13 + 13 duplicate = 26  
Bottle Preservatives: H2SO4, HNO3, None  
Recovering WL: 9.52 ft BPVL  
Duplicate Sampling: yes  
Laboratory: GPL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Brown water initially, a sulfur smell to water

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1833-04-9381-310  
Purged by: SE & RL  
Sampled by: SE & RL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-3  
Project Location: Madison, Indiana  
Date: 7/28/08  
Date: 7/28/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen =

9-88 G BVC

1 Well Volume: 1.23 gallons  
Total Depth (14.88 ft) - Depth to Water (7.34 ft) = Height of water column (7.54 ft)  
Height of water column (7.54 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.23 gal)  
Purge Volume:  
1 Well Volume (1.23 gallons) x 3 = 3 Well Volumes (3.69 gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Depth	Flow	Pressure	Temperature	DO	ORP	Flow	Volume	Depth	Flow
735	16.3	6.10	0.824	11.7	0.87	-108	-	0.97	0.10	
740	17.1	6.21	0.704	11.6	0.64	-16	0.50	0.98	0.06	
745	16.6	6.26	0.757	59.5	0.0	-21	0.80	10.48	0.06	
750	16.5	6.37	0.775	53.5	0.0	-54	1.10	10.73	0.06	
755	16.4	6.06	0.872	25.2	0.0	-99	1.40	10.75	0.06	
800	16.3	6.76	0.848	22.5	0.0	-108	1.70	10.75	0.06	
805	16.2	6.85	0.914	18.9	0.0	-115	2.0	10.79	0.06	
810	16.1	6.88	0.904	22.1	0.0	-117	2.3	10.83	0.06	
815	16.2	6.91	0.899	25.9	0.0	-121	2.6	10.84	0.06	
820	16.2	6.94	0.901	26.0	0.0	-121	2.9	10.87	0.06	
825	16.2	6.96	0.903	28.5	0.0	-121	3.2	10.91	0.06	
830	16.3	6.99	0.904	31.5	0.0	-124	3.5	10.93	0.06	
835	16.3	7.03	0.923	34.2	0.0	-128	3.8	10.95	0.06	
840	16.3	7.02	0.917	37.4	0.0	-125	4.1	10.95	0.06	
845	16.4	7.03	0.916	38.8	0.0	-127	4.4	10.97	0.06	
850	16.4	7.05	0.923	39.4	0.0	-131	4.7	10.97	0.06	
855	16.4	7.06	0.928	42.0	0.0	-131	5.0	10.98	0.06	
860	16.5	7.05	0.936	44.2	0.0	-129	5.3	10.99	0.06	
865	16.5	7.05	0.950	13.5	1.49	-119	5.6	10.99	0.06	
870	16.6	7.04	0.945	10.8	0.0	-125	5.9	10.96	0.06	
875	16.7	7.08	0.951	9.2	0.0	-130	6.2	10.92	0.06	
880	16.9	7.10	0.953	7.6	0.0	-131	6.5	10.91	0.06	
885	16.9	7.10	0.956	6.1	0.0	-131	6.8	10.90	0.06	
890	16.8	7.10	0.957	5.8	0.0	-131	7.1	10.90	0.06	

← Purged Monitor Cell

**PURGE INFORMATION:**  
Time / Date Started: 735 / 7/28/08  
Time Purge End: 930 / 7/28/08  
Purge Method: Pump x Bailor \_\_\_\_\_  
Depth to Intake: ~13.88 (ft)  
Pump Type and ID: Fuller  
Purge Rate: 0.06 - 0.10 (gpm)  
Purged Volume: ~7.1 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? grabbed under  
Was well cavitating? Yes X No \_\_\_\_\_  
Water containerized/Amount: \_\_\_\_\_ NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**  
Time / Date Started: 930 / 7/28/08  
Sampled by: SE & RL  
Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab: x \_\_\_\_\_  
# of Bottles Collected: 13 Composite \_\_\_\_\_  
Bottle Preservatives: H2SO4, HNO3, None  
Recovering WL: 18.10 A BVC  
Duplicate Sampling: No  
Laboratory: GFL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
Water looks clear from start of purge; heavy rain from 8735 to 8800



Well Identification: MW-234  
Project Location: Madison, Indiana  
Date: 7/17/08  
Date: 7/17/08  
Date:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
~~2" I.D., K=0.163 gal/ft~~  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Top of Screen =  
8.44 ft BPVC

**Purge Volume:**  
 1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

[illegible]

Time / Date Started: 0952 | 304 7/17/08

Time Purge End: 1058

Purge Method: Pump x Baller

Depth to Intake: ~ 14.44 (ft)

Pump Type and ID: Full

Purge Rate: 0.2 - 0.4 (gpm)

Purged Volume: 2.95 (gal)

Water Quality Meter: Horiba U-22# 116358

How was yield measured? Estimated Cylinder

Was well cavitated? Yes No

Water containerized/Amount NA

Grunfos controller set @ NA (Hertz)

Time / Date Started: 1088 | 7/17/06  
 Sampled by: PJM & SK  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
 Recovering WL: 10.1  
 Duplicate Sampling: NO  
 Laboratory: GPL  
 COC Form: \_\_\_\_\_

Brown, which was in beginning.

# SAIC Science Applications International Corporation

## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SP & RL  
 Sampled by: SP & RL  
 Checked by: &

Well Identification: MW-RS-5  
 Project Location: Madison, Indiana  
 Date: 7/29/08  
 Date: 8/1/08  
 Date:

### WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

Top of Screen = 7.66 ft

Min Volume = N/A because well not dry

1 Well Volume: 5.66 ft - Depth to Water (10.22 ft) = Height of water column (5.44 ft)  
 Height of water column (5.44 ft) x K value (0.163 gal/ft) = 1 Well Volume (0.89 gal)  
 Purge Volume: 0.89 gallons x 3 = 3 Well Volumes (2.67 gallons)  
 1 Well Volume (0.89 gallons) x ( ) gpm x ( ) min = 1 Well Volume  
 Purge Rate ( ) gpm x ( ) min = 3 Well Volume

Time	Depth	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
720	17.3	0.21	0.309	2.6	0.54	-93	0.39	11.39	0.06
725	17.9	0.18	0.307	2.62	0.54	-95	0.65	11.78	0.06
730	18.1	0.16	0.290	1.59	0.37	-113	0.95	11.89	0.06
735	18.0	0.24	0.290	1.14	0.19	-127	1.25	12.15	0.06
740	18.1	0.24	0.285	1.04	0.05	-132	1.85	12.22	0.06
745	18.2	0.33	0.282	0.76	0.09	-139	1.85	12.36	0.04
750	18.4	0.37	0.280	0.52	0.0	-144	2.45	12.49	0.04
755	18.5	0.43	0.279	0.58	0.0	-139	2.95	12.67	0.04
760	18.3	0.59	0.274	0.32	0.0	-156	2.95	12.79	0.04
805	18.7	0.61	0.269	0.77	0.0	-161	2.85	13.11	0.04
810	18.8	0.69	0.270	0.31	0.0	-163	3.05	13.30	0.04
815	18.7	0.77	0.273	0.24	0.0	-166	3.25	13.39	0.04
820	18.4	0.19	0.279	0.6	0.0	-169	3.45	13.51	0.04
825	19.3	0.82	0.278	0.6	0.0	-171	3.65	13.62	0.04
830	19.3	0.92	0.286	0.18	0.0	-172	3.85	13.71	0.04
835	19.6	0.95	0.286	0.19	0.0	-172	4.05	13.79	0.04
840	19.7	0.98	0.278	0.29	0.0	-172	4.25	13.96	0.04
845	19.8	0.99	0.301	0.25	0.0	-170	4.45	14.10	0.04
850	19.2	0.74	0.322	0.2	0.0	-172	4.65	14.22	0.04
855	19.2	0.71	0.325	0.85	0.0	-175	4.85	14.33	0.04
860	19.5	0.74	0.328	0.78	0.0	-178	5.05	14.45	0.04
905	19.7	0.76	0.330	0.8	0.0	-179	5.25	14.53	0.04
910	19.8	0.75	0.339	0.89	0.0				
915	20.4	0.77	0.337	0.85	0.0				
919									

PURGE INFORMATION:  
 Time / Date Started: 720 | 7/29/08  
 Time Purge End: 910 | 8/1/08  
 Purge Method: Pump x Bailer  
 Depth to Intake: ~14.35 (ft)  
 Pump Type and ID: 5/112  
 Purge Rate: 0.04 - 0.06 (gpm)  
 Purged Volume: ~5.3 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Graduated cylinder  
 Was well cavitating? Yes X No  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

SAMPLING INFORMATION:  
 Time / Date Started: 910 | 8/1/08  
 Sampled by: RL & SF  
 Sample Method: Bailer Other Pump  
 Grab x Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO3, H2SO4, None  
 Recovering WL: 12.89 ft BPTC  
 Duplicate Sampling: No  
 Laboratory: GFL  
 COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
 7/29/08 - Very turbid at onset, some odor from well water  
 8/1/08 - Slightly turbid water at report, clearing up during purge



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MNL & DLL  
Sampled by: MNL & DLL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-6  
Project Location: Madison, Indiana  
Date: 7-15-08  
Date: 7-15-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:  
1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.81 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (16.84 ft) - Depth to Water (8.70 ft) = Height of water column (8.14 ft)  
Height of water column (8.14 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.3 gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Temp	pH	Cond	Turbidity	D.O.	ORP	Purged	Well	Depth to	Purge
mm:ss	°F		µmS/cm	NTU	mg/L	mV	Count	Volume	Water	Rate
1:00	15.5	7.1	0.00	0.0	0.0	240		1	9.9	0.17
1:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.13
1:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.16
1:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.12
1:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.11
1:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.07
2:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
2:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
2:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
2:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
2:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
2:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
3:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
3:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
3:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
3:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
3:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
3:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
4:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
4:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
4:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
4:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
4:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
4:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
5:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
5:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
5:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
5:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
5:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
5:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
6:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
6:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
6:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
6:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
6:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
6:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
7:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
7:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
7:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
7:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
7:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
7:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
8:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
8:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
8:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
8:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
8:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
8:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
9:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
9:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
9:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
9:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
9:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
9:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
10:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
10:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
10:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
10:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
10:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
10:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
11:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
11:10	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
11:20	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
11:30	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
11:40	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
11:50	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08
12:00	15.5	7.1	0.00	0.0	0.0	240			9.9	0.08

**PURGE INFORMATION:**

Time / Date Started: 1407 | 7-15-08  
Time Purge End: 1437  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~ 14.8 (ft)  
Pump Type and ID: mini mason  
Purge Rate: ~ 0.08 (gpm)  
Purged Volume: ~ 14 (gal)  
Water Quality Meter: Horba U-22# 15964  
How was yield measured? cal. volume / gpm  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount: \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

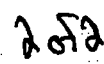
**SAMPLING INFORMATION:**

Time / Date Started: 1437 | 7-15-08  
Sampled by: MNL & DLL  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, none  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

MNL split sample





MW-RS-6

Well Identification: MW-RS-6  
Project Location: Madison, Indiana  
Date: 7-18-08  
Date: 7-18-08  
Date:

Circle diameter and K used below:

1" I.D.,	K=0.041 gal/ft
2" I.D.,	K=0.163 gal/ft
4" I.D.,	K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Total Depth ( ) ft) - Depth to Water ( ) ft) = Height of water column ( ) ft)  
Height of water column ( ) ft) x K value ( ) gal/ft) = 1 Well Volume ( ) gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$

Purge Rate (            gpm) x (            min) = 3 Well Volume

Flushed cell -

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailor \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Honda U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes: \_\_\_\_\_ No: \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab   X   \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

# SAI Science Applications International Corporation

## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1833-04-9381-310  
 Purged by: SP & RL  
 Sampled by: SP & RL  
 Checked by: \_\_\_\_\_

Well Identification: MW-AS-7  
 Project Location: Madison, Indiana  
 Date: 7/30/08  
 Date: 8/1/08  
 Date: \_\_\_\_\_

### WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.06 gal/ft

Top of Screen = 10.1 ft BVC

1 Well Volume: 15.1 ft - Depth to Water 7.92 ft = Height of water column 7.18 ft  
 Height of water column 7.18 ft x K value 0.163 gal/ft = 1 Well Volume 1.17 gal  
 Purge Volume: 1.17 gallons x 3 = 3 Well Volumes 3.51 gallons  
 Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume  
 Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volume

Time	Depth	Flow	Pressure	Temperature	Flow	Pressure	Temperature	Flow	Pressure	Temperature	Flow	Pressure	Temperature
7/30/08	17.4	0.82	2.00	19.5	0.75	-127	—	—	—	—	9.00	0.04	—
7/30/08	18.1	6.92	1.95	89.6	0	-146	0.20	—	—	—	9.70	0.04	—
7/30/08	18.4	7.09	1.90	66.7	0.20	-149	0.35	—	—	—	9.84	0.03	—
7/30/08	18.6	7.10	2.02	64.3	0.0	-153	0.50	—	—	—	10.35	0.03	—
7/30/08	18.5	7.12	2.05	70.5	0.0	-155	0.65	—	—	—	10.65	0.03	—
7/30/08	18.4	7.16	2.02	66.4	0.0	-149	0.80	—	—	—	11.47	0.02	—
7/30/08	18.1	7.18	1.99	58.3	0.0	-142	0.90	—	—	—	11.60	0.02	—
7/30/08	17.8	7.19	1.98	60.6	0.0	-152	1.05	—	—	—	12.05	0.02	—
7/30/08	18.1	7.18	1.94	82.5	0.0	-162	1.20	—	—	—	12.45	0.02	—
7/30/08	18.2	7.19	1.94	76.8	0.0	-168	1.35	—	—	—	12.58	0.02	—
8/1/08	18.1	7.22	1.95	89.3	0.0	-173	1.50	—	—	—	12.78	0.02	—
8/1/08	18.1	7.24	1.95	100	1.02	-157	1.65	—	—	—	13.00	0.02	—
8/1/08	18.5	7.22	1.94	114	0.0	-166	1.80	—	—	—	13.09	0.02	—
8/1/08	18.7	7.23	1.94	95	0.0	-169	1.95	—	—	—	13.21	0.02	—
8/1/08	18.9	7.24	1.94	91.2	0.0	-171	2.10	—	—	—	13.28	0.02	—
8/1/08	18.9	7.25	1.95	122	0.0	-171	2.25	—	—	—	13.42	0.02	—
8/1/08	18.8	7.25	1.94	464	0.0	-172	2.40	—	—	—	13.50	0.02	—
8/1/08	17.5	6.67	1.88	—	1.09	-107	—	—	—	—	8.70	0.03	—

### PURGE INFORMATION:

Time / Date Started: 7/30 | 7/30/08  
 Time Purge End: 7:29 | 8/1/08  
 Purge Method: Pump X Baller  
 Depth to Intake: ~ 14 (ft)  
 Pump Type and ID: Fuller  
 Purge Rate: 0.02-0.04 (gpm)  
 Purged Volume: ~ 2.4 (gal)  
 Water Quality Meter: Horba U-228  
 How was yield measured? Gravimetric  
 Was well cavitating? Yes X No  
 Water containerized/Amount NA  
 Grundfos controller set @ NA (Hertz)

### SAMPLING INFORMATION:

Time / Date Started: 7:30 | 8/1/08  
 Sampled by: RL & SP  
 Sample Method: Baller X Other Pump  
 Grab X Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: H2O2, HNO3, None  
 Recovering WL: 11.4 ft BVC  
 Duplicate Sampling: No  
 Laboratory: GPL  
 COC Form: \_\_\_\_\_

### ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

7/30/08 - Very turbid water at start (dark brown), turbidity won't stabilize  
 8/1/08 - Very brown turbid water at start, cleared up in a minute of purging

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: RL & SE  
Sampled by: RL & SE  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-8  
Project Location: Madison, Indiana  
Date: 7/30/08  
Date: 7/30/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen =  
7.81 ft BPTC

1 Well Volume: 17.81 ft - Depth to Water (10.87 ft) = Height of water column (6.94 ft)  
Height of water column (6.94 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.13 gal)  
Purge Volume: 1.13 gallons x 3 = 3 Well Volumes (3.39 gallons)  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volumes

MW Volume =  
BV = (2.61)(11.8) = 30.8  
SV = (2.165)(11.8) = 1.92  
X = BV - SV = 30.8 - 1.92 = 28.88  
Y = 0.3(28.88) = 8.66  
Y + SV = 8.66 + 1.92 = 10.58

Time	Depth (ft)	Flow (gpm)	Depth (ft)	Flow (gpm)	Depth (ft)	Flow (gpm)	Depth (ft)	Flow (gpm)	Depth (ft)	Flow (gpm)
10:04	15.8	6.16	0.162		1.01	-11			11.25	0.04
10:14	14.8	5.01	0.143		0.31	+73	0.45		11.92	0.09
10:19	14.9	5.45	0.132	349	0.67	+88	0.90		12.54	0.09
10:24	15.3	5.01	0.134	250	0.19	+80	1.35		12.65	0.03
10:29	15.9	5.09	0.138	176	0.16	+70	1.50		12.74	0.03
10:34	15.2	5.13	0.142	126	0.0	+54	1.65		13.04	0.03
10:39	15.5	5.17	0.140	130	0.0	+45	1.80		13.18	0.03
10:44	15.6	5.21	0.142	109	0.0	+38	1.95		13.31	0.03
10:49	16.1	5.29	0.142	114	0.0	+25	2.10		13.38	0.03
10:54	16.1	5.21	0.140	120	1.12	+2	2.25		13.58	0.02
10:59	15.2	5.41	0.139	65.9	0.77	+16	2.35		13.69	0.02
11:04	15.6	5.63	0.139	97.5	0.0	+1	2.45		13.73	0.02
11:09	16.2	5.84	0.143	74.5	0.0	-12	2.55		13.77	0.02
11:14	16.5	5.76	0.145	94.3	0.0	-6	2.65		13.76	0.02
11:19	16.8	5.40	0.145	93.5	0.0	+7	2.75		13.74	0.02
11:24	16.1	5.86	0.156	83.1	2.16	-15	2.85		13.77	0.02
11:29	16.6	5.33	0.154	84.5	0.0	+10	2.95		13.77	0.02
11:34	16.5	5.31	0.154	78.1	0.0	+9	3.05		13.79	0.02
11:39	16.8	5.35	0.154	72.5	0.0	+6	3.15		13.79	0.02
11:44	17.2	5.41	0.154	72.4	0.0	+3	3.25		13.76	0.02
11:49	17.1	5.53	0.156	71.2	0.0	-6	3.35		13.74	0.02
11:54	16.3	5.03	0.158	59.5	0.0	-10	3.45		13.82	0.02
11:59	16.5	5.61	0.157	64.7	0.0	-10	3.55		13.76	0.02
12:04	17.1	5.66	0.157	63.7	0.0	-12	3.65		13.72	0.02
12:09	16.8	5.75	0.160	57.1	0.0	-11	3.75		13.75	0.02

**PURGE INFORMATION:**

Time / Date Started: 10:09 | 7/30/08  
Time Purge End: 12:49 | 7/30/08  
Purge Method: Pump x 17 (ft)  
Depth to Intake: 17 (ft)  
Pump Type and ID: Fultz  
Purge Rate: 0.02 - 0.09 (gpm)  
Purged Volume: 4.55 (gal)  
Water Quality Meter: Horiba U-22B  
How was yield measured? Gravimetric method  
Was well cavitating? Yes X No  
Water containerized/Amount NA  
Gruntfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 12:49 | 7/30/08  
Sampled by: RL & SE  
Sample Method: Bailer Other Pump  
Grab x Composite  
# of Bottles Collected: 13  
Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, None  
Recovering WL: 13.79 ft BPTC  
Duplicate Sampling: NO  
Laboratory: GPL  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very turbid water at the start, milky brown



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DJM & SE  
Sampled by: DJM & SE  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JRG-DU-011  
Project Location: Madison, Indiana  
Date: 7/20/08  
Date: 7/20/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen =  
34.57 ft BPVC

**1 Well Volume:**

Total Depth (44.57 ft) - Depth to Water (41.81 ft) = Height of water column (2.76 ft)  
Height of water column (2.76 ft) x K value (0.163 gal/ft) = 1 Well Volume (0.45 gal)

**Purge Volume:**

1 Well Volume (0.45 gallons) x 3 = 3 Well Volumes (1.35 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp (C)	Temp (F)	Cond (µS/cm)	Turbidity (NTU)	pH	ORP (mV)	Pumped Quantity (gallons)	Well Volume (gallons)	Depth to Water (ft)	Purge Rate (gpm)
1644	18.0	64.4	2.91	124	0.87	13			1.97	0.5
1647	20.1	68.2	2.57	675	0.0	87	2.5		2.35	0.5
1654	19.1	66.4	3.20	300	0.0	119	5.5		2.03	0.6
1659	17.8	64.0	3.30	3.13	0.29	133	8.5		3.34	0.6
1704	16.6	61.9	7.23	3.12	0.0	143	1.5		4.23	0.6
1709	16.9	62.4	7.23	3.13	0.0	140	1.45		4.71	0.6
1714	16.8	62.2	7.26	3.14	376	0.0	143	1.75	5.08	0.6
1719	16.2	61.2	7.35	3.11	324	0.0	138	2.05	5.63	0.6
1724	14.5	58.1	7.79	3.33	274	0.13	130	2.40	6.54	0.8
1729	5.4	41.7	7.26	3.09	105	0.0	126	2.00	7.36	1.2
1734	5.9	42.6	7.26	3.10	143	0.6	131	3.35	7.46	1.07
1739	16.1	61.0	7.26	3.16	768	0.69	124	3.70	7.52	1.07
1744	14.9	58.8	7.28	3.18	43.3	0.0	122	4.10	8.20	1.08
1749	15.0	59.0	7.27	3.12	44.9	0.0	120	4.50	8.39	1.08
1754	15.2	59.4	7.28	3.11	44.1	0.0	121	4.90	8.95	1.08
1759	15.4	59.7	7.29	3.09	30.6	0.0	122	5.30	9.00	1.08

→ Dump Horiba Cell  
→ Dump Horiba Cell  
→ Dump Horiba Cell  
→ Dump Horiba Cell

**PURGE INFORMATION:**

Time / Date Started: 1643 | 7/20/08  
Time Purge End: 1759  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: 41.57 (ft)  
Pump Type and ID: Fuller  
Purge Rate: 0.5-1.2 (gpm)  
Purged Volume: 5.20 (gal)  
Water Quality Meter: Horiba U-22# 16558  
How was yield measured? drawdown  
Was well cavitating? Yes No x  
Water containerized/Amount: NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1759 | 7/20/08  
Sampled by: DJM & SE  
Sample Method: Bailer \_\_\_\_\_ Other Pump  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO3, H2SO4, none  
Recovering WL: 11.37  
Duplicate Sampling: NP  
Laboratory: GRL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e., weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

1759 - parameters stable, could not control drawdown, but  
purged minimum volume (1.78 gallons).





Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: [Signature] & [Signature]  
Sampled by: [Signature] & ESS  
Checked by: [Signature] & [Signature]

Well Identification: JKG-00-020  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 1985-7-27-08  
Date: \_\_\_\_\_

Circle diameter and K used below:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

1 Well Volume: Total Depth (121.86 ft) - Depth to Water (118.92 ft) = Height of water column (2.94 ft)  
Height of water column (2.94 ft) x K value (0.63 gal/ft) = 1 Well Volume (0.48 gal)

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$
[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump   x   Bailor \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22#

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 7:30 | 7:27.08  
 Sampled by: FW & ERS  
 Sample Method: Bailor x Other Permeable  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 10  
 Bottle Preservatives: FW, H<sub>2</sub>SO<sub>4</sub>, H<sub>2</sub>O<sub>2</sub>  
 Recovering WL: 119' Sampling depth  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Soil filled by slurry and minimum vol. requirements per lot. (We'll not purge. Samples w/ holes.

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### GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: MJE & DL  
 Sampled by: MJE & DL  
 Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-01-030  
 Project Location: Madison, Indiana  
 Date: 7-15-08  
 Date: 7-15-08  
 Date: \_\_\_\_\_

#### WELL VOLUME CALCULATION:

Circle diameter and K used below:  
 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.489 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

#### 1 Well Volume:

Total Depth 27.44 ft - Depth to Water 10.31 ft = Height of water column 17.13 ft  
 Height of water column 17.13 ft x K value 0.653 gal/ft = 1 Well Volume 11.2 gal

#### Purge Volume:

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

Time	Temp	pH	Cond	Hard	Alkal	ORP	Pumped	Well	Depth	Flow
08:24	14.5	7.5	0.00	0.00	0.00	0.00	0.00	1	11.68	0.06
08:25	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:26	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:27	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:28	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:29	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:30	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:31	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:32	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:33	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:34	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:35	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:36	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:37	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:38	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:39	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:40	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:41	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:42	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:43	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:44	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:45	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:46	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:47	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:48	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:49	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:50	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:51	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:52	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:53	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:54	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:55	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:56	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:57	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:58	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
08:59	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06
09:00	14.5	7.5	0.00	0.00	0.00	0.00	0.00		11.68	0.06

Flushed cell  
 not flushing  
 flushed cell

#### PURGE INFORMATION:

Time / Date Started: 08:24 | 7-15-08  
 Time Purge End: 08:54  
 Purge Method: Pump x Bailer \_\_\_\_\_  
 Depth to Intake: ~23.5 (ft)  
 Pump Type and ID: min pm 5000  
 Purge Rate: ~0.06 (gpm)  
 Purged Volume: ~14 (gal)  
 Water Quality Meter: Hanna U-22# 18764  
 How was yield measured? calculated cup / gpm  
 Was well cavitating? Yes \_\_\_\_\_ No x  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

#### SAMPLING INFORMATION:

Time / Date Started: 10:29 | 7-15-08  
 Sampled by: MJE & DL  
 Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO3 H2O2, none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

#### ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Heavy issues maintaining constant pumping rate. Rate is increasing and decreasing  
W/ fluctuating control but demand is stable at ~ 0.06 gpm  
AKC solid





# GROUNDWATER SAMPLE LOG

Well Identification: WPG-00-030  
Project Location: Madison, Indiana  
Date: 7-15-08  
Date: 7-15-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (                  ft) - Depth to Water (                  ft) = Height of water column (                  ft)

Height of water column (                      ft) x K value (                      gal/ft) = 1 Well Volume (                      gal)

**Purge Volume:** "

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$
[illegible]

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump   x   Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_  
 \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1833-04-9381-310  
Purged by: SC & RL  
Sampled by: SC & RL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: SP6-DJ-φ3I  
Project Location: Madison, Indiana  
Date: 7/31/08  
Date: 7/31/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen =  
54.06 ft

**1 Well Volume:**

Total Depth (64.46 ft) - Depth to Water (8.64 ft) = Height of water column (55.42 ft)  
Height of water column (55.42 ft) x K value (0.163 gal/ft) = 1 Well Volume (9.03 gal)

**Purge Volume:**

1 Well Volume (9.03 gallons) x 3 = 3 Well Volumes (27.09 gallons)

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volumes

Time	Depth (ft)	Water Level (ft)	Flow Rate (gpm)	Volume (gal)	Pressure (psi)	Temperature (°F)	Notes
725	15.4	6.53	1.51	957	1.45	-7	
730	16.0	6.43	1.49		0.0	-125	0.35
735	16.7	7.10	1.49		0.0	-135	0.60
740	17.1	7.19	1.49		0.0	-132	0.85
745	16.4	7.24	1.49		0.0	-118	1.10
750	15.9	7.19	1.50		0.0	-111	1.35
755	15.9	7.21	1.49	512	0.0	-111	1.60
800	16.1	7.30	1.51	112	1.23	-105	1.85
805	17.1	7.27	1.47	71.0	0.0	-107	2.10
810	17.5	7.38	0.04	113	7.73	-102	2.35
815	16.3	7.26	1.49	247	0.25	-96	2.60
820	15.3	7.24	1.49	79	0.0	-99	2.85
825	15.4	7.34	1.48	46.1	0.0	-100	3.10
830	15.6	7.24	1.48	34.3	0.0	-100	3.35
835	15.9	7.25	1.47	26.1	0.0	-101	3.60
840	16.0	7.26	1.48	23.5	0.0	-102	3.85
845	16.8	7.27	1.46	23.7	0.0	-104	4.10
850	16.6	7.29	1.48	23.7	0.0	-105	4.35
855	16.8	7.29	1.48	27.3	0.0	-105	4.60
900	16.2	7.29	1.49	22.8	0.0	-104	4.85
905	16.7	7.27	1.49	25.2	0.0	-103	5.10
910	16.9	7.27	1.49	27.4	0.0	-102	5.35

**PURGE INFORMATION:**

Time / Date Started: 725 | 7/31/08  
Time Purge End: 910 | 7/31/08  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: 63 (ft)  
Pump Type and ID: Fuller  
Purge Rate: 0.05-0.07 (gpm)  
Purged Volume: 5.35 (gal)  
Water Quality Meter: Hanna U-22  
How was yield measured? Graduated cylinder  
Was well cavitating? Yes x No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 910 | 7/31/08  
Sampled by: RL & SE  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: H2SO4, HNO3, NaOH  
Recovering WL: 43.41 ft BPTC  
Duplicate Sampling: No  
Laboratory: GL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Turbid water at start, white colored - cloudy, unable to control throughout, Heavy rain throughout, (control here needs to be adjusted frequently), Heavy rain throughout





Well Identification: JP2-D-041  
Project Location: Madison, Indiana  
Date: 7/15/08  
Date: 7/15/08  
Date: 7/15/08

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen = 58.16 ft  
BVC

Purge Rate (                      gpm) x (                      min) = 3 Well Volume

Time / Date Started: 1300 | 7/15/08  
 Sampled by: ELM & SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 3A  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, Aque  
 Recovering WL: (4.2)  
 Duplicate Sampling: MS/MSD  
 Laboratory: CapL  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SF & RL  
 Sampled by: SF & RL  
 Checked by: SF & RL

Well Identification: JRG-DV-05 I  
 Project Location: Madison, Indiana  
 Date: 7/31/08  
 Date: 7/31/08  
 Date:

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

Top of screen = 28 ft BVC

1 Well Volume: 38 ft - Depth to Water (7.34 ft) = Height of water column (30.66 ft)  
 Height of water column (30.66 ft) x K value (0.163 gal/ft) = 1 Well Volume (5 gal)  
 Purge Volume:  
 1 Well Volume (5 gallons) x 3 = 3 Well Volumes (15 gallons)  
 Purge Rate (gpm) x (min) = 1 Well Volume  
 Purge Rate (gpm) x (min) = 3 Well Volumes

Time	Date	Depth (ft)	Flow (gpm)	Pressure (psi)	ORP (mV)	Purge Volume (gal)	Well Volume (gal)	Depth (ft)	Purge Rate (gpm)
1036	15.5	7.65	0.970	32.2	3.78	-85		7.30	0.03
1041	17.4	7.11	0.900	14.3	0.12	-109	0.15	7.06	0.03
1046	18.7	7.10	0.910	18.0	0.14	-116	0.34	8.50	0.03
1051	20.1	7.19	0.910	14.2	0.10	-127	0.45	8.82	0.03
1056	20.1	7.34	0.930	15.1	0.09	-134	0.60	9.55	0.03
1101	20.3	7.37	0.920	10.2	0.08	-137	0.75	9.98	0.03
1106	20.2	7.34	0.92	6.2	0.08	-135	0.90	10.55	0.03
1111	20.1	7.34	0.92	4.1	0.08	-134	1.05	10.92	0.03
1116	20.4	7.34	0.92	2.8	0.05	-136	1.20	11.33	0.03
1121	18.4	7.35	0.94	1.8	0.08	-135	1.35	12.07	0.03
1126	17.2	7.28	0.93	5.4	0.08	-132	1.50	13.04	0.03
1131	17.8	7.23	0.91	2.2	0.08	-130	1.65	13.73	0.03
1136	18.2	7.26	0.91	1.6	0.08	-132	1.80	14.37	0.03
1141	17.1	7.31	0.93	2.3	0.08	-134	1.95	15.28	0.03
1146	16.9	7.31	0.92	1.9	0.08	-131	2.10	16.35	0.03
1151	17.7	7.32	0.91	1.7	0.08	-136	2.25	16.94	0.03
1156	18.3	7.36	0.91	0.8	0.08	-138	2.40	17.51	0.03
1201	19.0	7.37	0.91	0.7	0.08	-140	2.55	18.08	0.03
1206	19.6	7.39	0.91	0.3	0.08	-142	2.70	18.19	0.03
1211	20.2	7.39	0.92	0.0	0.08	-141	2.85	18.50	0.03
1216	18.9	7.38	0.94	0.1	0.08	-140	3.00	18.85	0.03
1221	18.3	7.32	0.92	0.0	0.08	-138	3.15	19.30	0.03
1226	17.5	7.29	0.92	0.3	0.08	-138	3.30	19.85	0.03
1231	17.4	7.28	0.92	0.5	0.08	-138	3.45	20.49	0.03
1236	17.6	7.28	0.91	0.6	0.08	-139	3.60	20.97	0.03

## PURGE INFORMATION:

Time / Date Started: 1036 7/31/08  
 Time Purge End: 1321 7/31/08  
 Purge Method: Pump x Bailer  
 Depth to Intake: ~37 (ft)  
 Pump Type and ID: Full 2  
 Purge Rate: 0.03 (gpm)  
 Purged Volume: (gal)  
 Water Quality Meter: Horba U-228  
 How was yield measured? Graduated cylinder  
 Was well cavitating? Yes X No  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 1321 7/31/08  
 Sampled by: RL & SF  
 Sample Method: Bailer Other Pump  
 Grab x Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO3, H2SO4, None  
 Recovering WL: 28.25 ft BVC  
 Duplicate Sampling: No  
 Laboratory: GPL  
 COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
 Water looks clear at start



Well Identification: SP6-W-051  
 Project Location: Madison, Indiana  
 Date: 7/31/08  
 Date: 7/31/08  
 Date: \_\_\_\_\_

(Page 2) (Continued)

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$
**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailor \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22# \_\_\_\_\_

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Baller \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)







**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MDL & FSS  
Sampled by: MDL & FSS  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: RG-DU-060  
Project Location: Madison, Indiana  
Date: 7-30-08  
Date: 7-30-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:  
1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.489 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (100.97 ft) - Depth to Water (75.11 ft) = Height of water column (25.86 ft)  
Height of water column (25.86 ft) x K value (0.163 gal/ft) = 1 Well Volume (4.22 gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Flushed cell  
turned pump on  
no more gas in  
we then turned &

Flushed cell

Flushed cell

Flushed cell

Flushed cell

Time	Temp	Pressure	Conductivity	Turbidity	pH	ORP	Purge Volume	Well Volume	Depth to Water	Purge Rate
10:29	16.64	7.02	35.0	6.2	1.5	123	1		76.75	0.07
10:30	16.64	6.91	35.2	5.5	1.5	123			76.75	
10:31	16.64	6.91	35.2	5.5	1.5	123			76.75	0.07
10:32	16.64	6.91	35.2	5.5	1.5	123			76.75	
10:33	16.64	6.91	35.2	5.5	1.5	123			76.75	0.05
10:34	16.64	6.91	35.2	5.5	1.5	123			76.75	0.05
10:35	16.64	6.91	35.2	5.5	1.5	123			76.75	0.04
10:36	16.64	6.91	35.2	5.5	1.5	123			76.75	0.07
10:37	16.64	6.91	35.2	5.5	1.5	123			76.75	
10:38	16.64	6.91	35.2	5.5	1.5	123	3.6		76.75	
10:39	16.64	6.91	35.2	5.5	1.5	123			76.75	0.05
10:40	16.64	6.91	35.2	5.5	1.5	123			76.75	
10:41	16.64	6.91	35.2	5.5	1.5	123			76.75	0.04
10:42	16.64	6.91	35.2	5.5	1.5	123	5.7		76.75	
10:43	16.64	6.91	35.2	5.5	1.5	123			76.75	0.07
10:44	16.64	6.91	35.2	5.5	1.5	123			76.75	
10:45	16.64	6.91	35.2	5.5	1.5	123			76.75	0.07
10:46	16.64	6.91	35.2	5.5	1.5	123			76.75	
10:47	16.64	6.91	35.2	5.5	1.5	123			76.75	0.07
10:48	16.64	6.91	35.2	5.5	1.5	123			76.75	
10:49	16.64	6.91	35.2	5.5	1.5	123			76.75	0.07
10:50	16.64	6.91	35.2	5.5	1.5	123			76.75	

**PURGE INFORMATION:**

Time / Date Started: 10:29 | 7-30-08  
Time Purge End: 10:59  
Purge Method: Pump x Baller \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: Fur  
Purge Rate: 1.00 (gpm)  
Purged Volume: 1.0 (gal)  
Water Quality Meter: Horiba U-22  
How was yield measured? calibrated cup / stopwatch  
Was well cavitated? Yes \_\_\_\_\_ No x  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 10:59 | 7-30-08  
Sampled by: MDL & FSS  
Sample Method: Baller \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO3, Hg, Pb, Cu  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Pumping rate fluctuating w/ varying battery (no battery running) 10:40 out of  
low yield well, Pump 5.11 + 10.01 15.6 gallons then stabilize parameters  
See logbook # 3, page 109 for info on turbidity > 50 NTU  
Sulfur odor.



# GROUNDWATER SAMPLE LOG

Well Identification: UG-00-000  
Project Location: Madison, Indiana  
Date: 7-30-08  
Date: 7-30-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

Football →

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab   x   Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: MOL & EBS  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: UAG-00-081  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 7-27-08  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D.,  $K=0.041$  gal/ft  
2" I.D.,  $K=0.163$  gal/ft  
4" I.D.,  $K=0.653$  gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (32.80 ft) - Depth to Water (35.58 ft) = Height of water column (3.78 ft)  
Height of water column (3.78 ft) x K value (0.163 gal/ft) = 1 Well Volume (0.61 gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$
[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grundfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1545 | 7.27.08  
 Sampled by: PAUL & ESS  
 Sample Method: Bailer X Other \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HAIO, H<sub>2</sub>O<sub>2</sub>, MOP  
 Recovering WL: 16' slopping water level  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Collected all required bottles, all full. Well not purged. Baled sample



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by:                      &                       
Sampled by:                      &                       
Checked by:                      &                     

Well Identification: JHG-00-080  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 7.8.70  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (137.50 ft) - Depth to Water (137.39 ft) = Height of water column (0.11 ft)  
Height of water column (0.11 ft) x K value (0.163 gal/ft) = 1 Well Volume (0.018 gal)

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Baller \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22# \_\_\_\_\_

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1450 | 7:37 AM  
 Sampled by: ML & ERS  
 Sample Method: Baller K Other \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 4  
 Bottle Preservatives: HAZ none  
 Recovering WL: 13' Sampling depth \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Filled bottles by priority list and max vol per lab. Collected Dist. Hrd. Thompson and Prices. Well documented. Well not purged. Samples bailed.

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: DM & SF  
Sampled by: DM & SF  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: 206-00-090  
Project Location: Madison, Indiana  
Date: 7/18/08  
Date: 7/20/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen =  
26.70 ft BPLC

**1 Well Volume:**

Total Depth (36.7 ft) - Depth to Water (12.35 ft) = Height of water column (24.35 ft)  
Height of water column (24.35 ft) x K value (0.163 gal/ft) = 1 Well Volume (3.97 gal)

**Purge Volume:**

1 Well Volume (3.97 gallons) x 3 = 3 Well Volumes (11.91 gallons)

Purge Rate (gpm) x (min) = 1 Well Volume

Purge Rate (gpm) x (min) = 3 Well Volumes

Time	Temp	Depth	Cond	Turbidity	D.O.	ORP	Purged	Well	Depth to	Purge
			ms/cm	NTU	mg/l	mV	Quantity	Volume	Water	Rate
1334	14.8	7.23	0.91		1.56	-193			12.00	.06
1339	14.6	7.32	0.99		0.0	-192	.30		13.88	.06
1344	14.3	7.46	0.98		0.0	-203	.60		14.78	.06
1349	14.9	7.48	0.98		0.0	-206	.90		15.31	.06
1354	15.8	7.53	0.982		0.0	-212	1.2		15.74	.06
1359	16.8	7.48	0.980		0.12	-196	1.5		16.14	.06
1404	20.7	7.51	0.980		0.0	-198	1.8		16.51	.06
1409	20.9	7.46	0.997		0.0	-198	2.1		16.88	.06
1414	22.4	7.51	0.984	420	0.0	-205	2.4		16.89	.06
1419	23.0	7.58	0.91	411	0.0	-203	2.7		17.51	.06
1424	19.2	7.34	0.911	406	0.05	-194	3.0		18.22	.06
1429	19.1	7.32	0.982	178	0.0	-191	3.3		18.52	.06
1434	20.0	7.36	0.985	127	0.0	-198	3.6		18.89	.06
1439	20.2	7.48	0.990	112	0.0	-196	3.9		19.13	.06
1444	21.0	7.53	0.985	63.6	0.0	-206	4.2		19.20	.06
1449	20.7	7.49	0.991	102	1.35	-184	4.5		19.72	.06
1454	17.2	7.44	0.91	104	0.0	-183	4.8		20.01	.06
1459	16.8	7.3	0.987	59.7	0.0	-177	5.1		20.51	.06
1504	17.6	7.31	0.985	50.5	0.0	-182	5.4		20.90	.06
1509	18.3	7.43	0.984	42.5	0.0	-188	5.7		21.13	.06
1514	18.9	7.54	0.985	42.7	0.0	-193	6.0		21.25	.06
1519	18.9	7.57	0.990	41.8	0.0	-197	6.3		21.35	.06
1524	18.4	7.54	0.944	36.9	0.0	-194	6.6		21.51	.06
1529	19.2	7.51	0.982	39.8	0.0	-194	6.9		21.60	.06
1534	20.0	7.55	0.984	35.5	0.0	-197	7.2		21.67	.06

**PURGE INFORMATION:**

Time / Date Started: 1333 | 7/17/08  
Time Purge End: 1502 | 7/19/08  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: 33.7 (ft)  
Pump Type and ID: Faifc  
Purge Rate: 64.06 (gpm)  
Purged Volume: 12.8 (gal)  
Water Quality Meter: Horiba U-22B 16358  
How was yield measured? graduated cylinder  
Was well cavitated? Yes X No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Grufos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1502 | 7/20/08  
Sampled by: DM & SF  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: 4003 | 142504  
Recovering WL: 25.82  
Duplicate Sampling: No  
Laboratory: GPL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Known murky water at start of purge  
1549 - purging stopped due to FedEx time constraints

**Science Applications International Corporation**  
From Science to Solutions

**GROUNDWATER SAMPLE LOG (Continued)**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: \_\_\_\_\_  
Sampled by: \_\_\_\_\_  
Checked by: \_\_\_\_\_

Well Identification: SP6-24-090  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (\_\_\_\_ ft) - Depth to Water (\_\_\_\_ ft) = Height of water column (\_\_\_\_ ft)  
Height of water column (\_\_\_\_ ft) x K value (\_\_\_\_ gal/ft) = 1 Well Volume (\_\_\_\_ gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_ gallons)

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volumes

Time	Depth	Temp	Cond	Turbidity	pH	ORP	Purged	Well	Depth	Purged
(min)	(ft)	(°F)	(mS/cm)	(NTU)		(mV)	(gallons)	Volume	(ft)	(gallons)
1539	19.9	7.55	0.991	32.0	0.00	-195	7.0		21.71	0.4
1544	19.9	7.53	0.986	31.0	0.00	-196	7.2		21.79	0.4
1549	20.1	7.53	0.986	29.3	0.00	-196	7.4		21.84	0.4
1554										
1632	17.2	6.86	0.96		3.45	-184			13.04	0.6
1637	16.0	7.15	0.91		0.00	-189	7.30		14.4	0.6
1642	15.8	7.40	0.91		0.00	-206	8.00		14.32	0.6
1647	15.6	7.48	0.91		0.00	-210	8.30		15.33	0.6
1652	20.3	7.55	0.92	94.7	1.80	-197	8.60		16.19	0.6
1757	20.3	7.52	0.91	76.5	0.10	-202	8.90		16.45	0.6
1802	20.3	7.51	0.92	56.1	0.6	-203	9.20		16.85	0.6
1807	21.4	7.51	0.91	37.7	0.8	-207	9.50		17.04	0.6
1812	19.7	7.55	0.94	31.2	0.8	-206	9.80		17.47	0.6
1817	19.3	7.44	0.92	19.6	0.8	-198	10.10		17.77	0.6
1822	20.6	7.44	0.91	12.2	0.51	-199	10.40		18.13	0.6
1827	20.3	7.48	0.92	10.5	0.18	-198	10.70		18.28	0.6
1832	21.3	7.50	0.91	94.3	0.0	-213	11.00		18.40	0.6
1837	18.3	7.57	0.92	24.3	0.0	-198	11.30		18.93	0.6
1842	19.3	7.46	0.91	68.4	0.0	-199	11.60		19.15	0.6
1847	16.7	7.5	0.91	56.3	0.6	-200	11.90		19.41	0.6
1852	10.2	7.53	0.92	48.3	0.0	-203	12.3		19.63	0.6
1857	20.3	7.63	0.91	42.1	0.0	-203	12.5		19.78	0.6
1902	20.3	7.54	0.92	41.3	0.0	-201	12.8		19.88	0.6

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump x Bailor \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? \_\_\_\_\_  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: \_\_\_\_\_  
Bottle Preservatives: \_\_\_\_\_  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: W6-W-091  
Project Location: Madison, Indiana  
Date: 7-31-08  
Date: 8-1-08  
Date: \_\_\_\_\_

Circle diameter and K used below:

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**Purge Volume:**

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

Flushed cell →

Time / Date Started: 0745 | 8:10P  
 Sampled by: CNL & ENS  
 Sample Method: Bailer Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, none  
 Recovering WL: 35.88  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

Not enough vol remaining in well to fill sample bottles. Allowed well to recharge overnight and sample then. Fugged min. vol requirement of 5.0 gal for well.





Project Name:	Jefferson Proving Ground	Well Identification:	UFG W-090
Project Number:	01-1633-04-9381-310	Project Location:	Madison, Indiana
Purged by:	MAL & ELS	Date:	7-31-08
Sampled by:	MAL & ELS	Date:	7-31-08
Checked by:		Date:	

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.489 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (      gpm) x (      min) = 1 Well Volume

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

Sun out —  
temp ↑

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump       x       Bailor \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22# \_\_\_\_\_

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grufos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

F-133

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MLL & SP  
Sampled by: MLL & ESS  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: 1P6-DU-100  
Project Location: Madison, Indiana  
Date: 7/17/08  
Date: 8-1-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:  
1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen  
61.12 ft  
BVC

**1 Well Volume:**

Total Depth (74.12 ft) - Depth to Water (38.21 ft) = Height of water column (32.91 ft)  
Height of water column (32.91 ft) x K value (1.63 gal/ft) = 1 Well Volume (5.36 gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Depth	Temp	pH	EC	DO	ORP	Purge	Well	Depth	Purge
(min)	(ft)	(°C)		(µmhos/cm)	(mg/L)	(mV)	Quantity	Volume	to Water	Rate
1347	11.4	7.42	1.33		1.31	-140			29.21	.03
1349	18.7	7.46	1.33		0.0	-212	0.15		40.20	.03
1352	8.7	7.42	1.33		0.0	-212	0.30		40.41	.03
1357	18.1	7.45	1.26		0.0	-228	0.45		41.84	.03
1402	19.4	7.46	1.24		0.0	-232	0.60		42.62	.03
1402										
1412										
1428	19.6	7.28	1.28		0.30	-154			44.24	.06
1432	18.8	7.32	1.16	468	0.0	-173	0.90		46.54	.06
1439	19.1	7.38	1.20	482	0.0	-181	1.70		48.56	.06
1442	14.6	7.21	1.12	383	0.86	-15.6	1.50		52.27	.06
1449	7.4	7.21	1.14	372	0.31	-160	1.80		50.61	.06
1452	19.0	7.32	1.20	440	0.07	-161	2.30		51.48	.06
1459	18.9	7.34	1.14	406	0.0	-157	2.40		53.47	.06
1502	19.7	7.34	1.14	382	0.05	-156	2.70		54.77	.06
1507	20.9	7.38	1.13	361	0.05	-158	3.0		55.88	.06
1512	21.4	7.42	1.14	349	0.10	-159	3.3		56.61	.06
1517	21.8	7.38	1.15	382	1.04	-144	5.6		57.53	.06
1522	23.1	7.32	1.16	320	0.18	-51	2.9		58.44	.06
1529	20.5	7.41	1.21	345	0.22	-152	4.2		59.23	.06
1532	20.1	7.35	1.17	377	0.14	-147	4.5		60.21	.06
1537	19.7	7.34	1.14	399	0.181	-146	4.85		61.42	.07
1542	16.1	7.36	1.27	562	1.14	-144	5.20		62.78	.07
1547	16.6	7.26	1.26		0.05	-144	5.55		65.80	.07

Battery dies.  
Switch to  
back-up

Battery  
died

← Empty Hor  
cell

← Empty Hor  
cell

well  
dry

**PURGE INFORMATION:**

Time / Date Started: 1547 7/17/08  
Time Purge End: 1547  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: 26.12 (ft) 69.1 Sampling  
Pump Type and ID: Fultz  
Purge Rate: 0.3-0.7 (gpm)  
Purged Volume: 5.55 (gal)  
Water Quality Meter: Horiba U-22# 16358  
How was yield measured? 9 radium cylinder  
Was well cavitating? Yes x No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 0839 7-31-08  
Sampled by: MLL & ESS  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO3, H2SO4, none  
Recovering WL: 38.58  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very turbid water (black) - At 100 ft. Battery died. Switched to back-up battery. Well ran dry at 1547.

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: UG-01-100  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D.,	K=0.041 gal/ft
2" I.D.,	K=0.163 gal/ft
4" I.D.,	K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth ( ) ft) - Depth to Water ( ) ft) = Height of water column ( ) ft)  
 Height of water column ( ) ft) x K value ( ) gal/ft) = 1 Well Volume ( ) gal)  
**Purge Volume:**  
 1 Well Volume ( ) gallons) x 3 = 3 Well Volumes ( ) gallons)  
 Purge Rate ( ) gpm) x ( ) min) = 1 Well Volume  
 Purge Rate ( ) gpm) x ( ) min) = 3 Well Volume

[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump       x       Bailor \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22# \_\_\_\_\_

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab   x   Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**Sulfur** 2005

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MNL & EBS  
Sampled by: MNL & EBS  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JRG DU-100  
Project Location: Madison, Indiana  
Date: 8-1-08  
Date: 8-1-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume: \_\_\_\_\_  
Total Depth (90.93 ft) - Depth to Water (36.71 ft) = Height of water column (54.22 ft)  
Height of water column (54.22 ft) x K value (0.163 gal/ft) = 1 Well Volume (8.8 gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Depth	Water Level	Flow Rate	Volume	Notes	Time	Depth	Water Level	Flow Rate	Volume	Notes
00:00	90.93	7.15	0.00	0.00		00:00	90.93	7.15	0.00	0.00	
00:01	90.93	7.15	0.00	0.00		00:01	90.93	7.15	0.00	0.00	
00:02	90.93	7.15	0.00	0.00		00:02	90.93	7.15	0.00	0.00	
00:03	90.93	7.15	0.00	0.00		00:03	90.93	7.15	0.00	0.00	
00:04	90.93	7.15	0.00	0.00		00:04	90.93	7.15	0.00	0.00	
00:05	90.93	7.15	0.00	0.00		00:05	90.93	7.15	0.00	0.00	
00:06	90.93	7.15	0.00	0.00		00:06	90.93	7.15	0.00	0.00	
00:07	90.93	7.15	0.00	0.00		00:07	90.93	7.15	0.00	0.00	
00:08	90.93	7.15	0.00	0.00		00:08	90.93	7.15	0.00	0.00	
00:09	90.93	7.15	0.00	0.00		00:09	90.93	7.15	0.00	0.00	
00:10	90.93	7.15	0.00	0.00		00:10	90.93	7.15	0.00	0.00	
00:11	90.93	7.15	0.00	0.00		00:11	90.93	7.15	0.00	0.00	
00:12	90.93	7.15	0.00	0.00		00:12	90.93	7.15	0.00	0.00	
00:13	90.93	7.15	0.00	0.00		00:13	90.93	7.15	0.00	0.00	
00:14	90.93	7.15	0.00	0.00		00:14	90.93	7.15	0.00	0.00	
00:15	90.93	7.15	0.00	0.00		00:15	90.93	7.15	0.00	0.00	
00:16	90.93	7.15	0.00	0.00		00:16	90.93	7.15	0.00	0.00	
00:17	90.93	7.15	0.00	0.00		00:17	90.93	7.15	0.00	0.00	
00:18	90.93	7.15	0.00	0.00		00:18	90.93	7.15	0.00	0.00	
00:19	90.93	7.15	0.00	0.00		00:19	90.93	7.15	0.00	0.00	
00:20	90.93	7.15	0.00	0.00		00:20	90.93	7.15	0.00	0.00	
00:21	90.93	7.15	0.00	0.00		00:21	90.93	7.15	0.00	0.00	
00:22	90.93	7.15	0.00	0.00		00:22	90.93	7.15	0.00	0.00	
00:23	90.93	7.15	0.00	0.00		00:23	90.93	7.15	0.00	0.00	
00:24	90.93	7.15	0.00	0.00		00:24	90.93	7.15	0.00	0.00	
00:25	90.93	7.15	0.00	0.00		00:25	90.93	7.15	0.00	0.00	
00:26	90.93	7.15	0.00	0.00		00:26	90.93	7.15	0.00	0.00	
00:27	90.93	7.15	0.00	0.00		00:27	90.93	7.15	0.00	0.00	
00:28	90.93	7.15	0.00	0.00		00:28	90.93	7.15	0.00	0.00	
00:29	90.93	7.15	0.00	0.00		00:29	90.93	7.15	0.00	0.00	
00:30	90.93	7.15	0.00	0.00		00:30	90.93	7.15	0.00	0.00	
00:31	90.93	7.15	0.00	0.00		00:31	90.93	7.15	0.00	0.00	
00:32	90.93	7.15	0.00	0.00		00:32	90.93	7.15	0.00	0.00	
00:33	90.93	7.15	0.00	0.00		00:33	90.93	7.15	0.00	0.00	
00:34	90.93	7.15	0.00	0.00		00:34	90.93	7.15	0.00	0.00	
00:35	90.93	7.15	0.00	0.00		00:35	90.93	7.15	0.00	0.00	
00:36	90.93	7.15	0.00	0.00		00:36	90.93	7.15	0.00	0.00	
00:37	90.93	7.15	0.00	0.00		00:37	90.93	7.15	0.00	0.00	
00:38	90.93	7.15	0.00	0.00		00:38	90.93	7.15	0.00	0.00	
00:39	90.93	7.15	0.00	0.00		00:39	90.93	7.15	0.00	0.00	
00:40	90.93	7.15	0.00	0.00		00:40	90.93	7.15	0.00	0.00	
00:41	90.93	7.15	0.00	0.00		00:41	90.93	7.15	0.00	0.00	
00:42	90.93	7.15	0.00	0.00		00:42	90.93	7.15	0.00	0.00	
00:43	90.93	7.15	0.00	0.00		00:43	90.93	7.15	0.00	0.00	
00:44	90.93	7.15	0.00	0.00		00:44	90.93	7.15	0.00	0.00	
00:45	90.93	7.15	0.00	0.00		00:45	90.93	7.15	0.00	0.00	
00:46	90.93	7.15	0.00	0.00		00:46	90.93	7.15	0.00	0.00	
00:47	90.93	7.15	0.00	0.00		00:47	90.93	7.15	0.00	0.00	
00:48	90.93	7.15	0.00	0.00		00:48	90.93	7.15	0.00	0.00	
00:49	90.93	7.15	0.00	0.00		00:49	90.93	7.15	0.00	0.00	
00:50	90.93	7.15	0.00	0.00		00:50	90.93	7.15	0.00	0.00	
00:51	90.93	7.15	0.00	0.00		00:51	90.93	7.15	0.00	0.00	
00:52	90.93	7.15	0.00	0.00		00:52	90.93	7.15	0.00	0.00	
00:53	90.93	7.15	0.00	0.00		00:53	90.93	7.15	0.00	0.00	
00:54	90.93	7.15	0.00	0.00		00:54	90.93	7.15	0.00	0.00	
00:55	90.93	7.15	0.00	0.00		00:55	90.93	7.15	0.00	0.00	
00:56	90.93	7.15	0.00	0.00		00:56	90.93	7.15	0.00	0.00	
00:57	90.93	7.15	0.00	0.00		00:57	90.93	7.15	0.00	0.00	
00:58	90.93	7.15	0.00	0.00		00:58	90.93	7.15	0.00	0.00	
00:59	90.93	7.15	0.00	0.00		00:59	90.93	7.15	0.00	0.00	
01:00	90.93	7.15	0.00	0.00		01:00	90.93	7.15	0.00	0.00	

**PURGE INFORMATION:**

Time / Date Started: 09:34 | 8-1-08  
Time Purge End: 11:34  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~88.9 (ft)  
Pump Type and ID: Fuhr  
Purge Rate: 0.05-0.04 (gpm)  
Purged Volume: ~2.8 (gal)  
Water Quality Meter: Hanna U-228  
How was yield measured? California C-100  
Was well cavitating? Yes \_\_\_\_\_ No x  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 11:34 | 8-1-08  
Sampled by: MNL & EBS  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO3, H2SO4, CuSO4  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
Subsided

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W-24  
JP-D-01

DATE COLLECTED (MM/DD/YY): 7-28-02  
TIME: 1140  
1120

SAMPLING LOCATION CODE: BC-CA-03

DESCRIPTION: Cave on N bank of Big Creek, E of Morgan and D. Road

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 70°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Cave has no flow. Collected sed at cave mouth on W  
side. Sandy silt w/ clay. Dry.  
Collected water on Big Creek downstream of where channel from cave  
enters creek. Water at creek is pooled, no flow

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>37</u>	<u>cpm</u>		
TEMPERATURE:	<u>21.55</u>	<u>°C</u>		
pH:	<u>7.02</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.346</u>	<u>ms/cm</u>		
REDOX:	<u>292</u>	<u>mV</u>		
DO:	<u>6.71</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>—</u>			
TURBIDITY:	<u>0.0</u>	<u>NTU</u>		
OTHER <u>DOES</u> :	<u>7</u>	<u>µg</u>		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-24 <sup>25 (NOL)</sup>  
JP-D-02

DATE COLLECTED (MM/DD/YY): 7-28-08

TIME: 1230  
1200

SAMPLING LOCATION CODE: BC-CA-06

DESCRIPTION: Cave S side of Dry Creek, E. of Morgan and D. Road

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 70°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Cave is dry. Collected Sds off of cave ledge just inside mouth. Collected water just downstream of where water falls from cave would enter creek. Water pooled at location. Channel exposed above and below location.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>43</u>	<u>cpm</u>		
TEMPERATURE:	<u>22.23</u>	<u>°C</u>		
pH:	<u>6.95</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.352</u>	<u>ns/cm</u>		
REDOX:	<u>245</u>	<u>mV</u>		
DO:	<u>7.71</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>-</u>	<u>-</u>		
TURBIDITY:	<u>0.0</u>	<u>NTU</u>		
OTHER <u>data</u> :	<u>7</u>	<u>ml</u>		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J.

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-27 DATE COLLECTED (MM/DD/YY): 7-29-08  
JP-D-03 TIME: 0825  
0815

SAMPLING LOCATION CODE: DC-CA-09A  
 DESCRIPTION: ON impact area cone

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Cave no flow. DC-CA-09 dry as well. Sediment collected where flow passed last quarter to come out below roots and rocks. Sals up in soil and sand dry. Collected JP-W-27 at pool downstream of where cave flow would enter creek. No flow.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>61</u>	<u>CPM</u>		
TEMPERATURE:	<u>21.90</u>	<u>°C</u>		
pH:	<u>6.47</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.366</u>	<u>µS/cm</u>		
REDOX:	<u>304</u>	<u>mV</u>		
DO:	<u>4.58</u>	<u>mg/L</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>2170</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>7</u>	<u>µR</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. [Signature] QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W/D-04

DATE COLLECTED (MM/DD/YY): 7/17/08

TIME: 0905/0940

SAMPLING LOCATION CODE: BC-SO-03

DESCRIPTION: Tree stump on S bank forms eddy

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 70°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Creek pooled at stump. Minimal flow from upstream. Rocky channel dry above location. Water sample collected at stump as last quarter. Collected sediment ~ 10' downstream of stump on S bank. Seeds fr. as w/ same sand. Channel is bedrock in area of stump. Collected MB/MSD for sediment.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>39</u>	<u>cpm</u>		
TEMPERATURE:	<u>21.66</u>	<u>°C</u>		
pH:	<u>6.58</u>	<u>SI</u>		
CONDUCTIVITY:	<u>0.402</u>	<u>ns/cm</u>		
REDOX:	<u>202</u>	<u>mV</u>		
DO:	<u>6.18</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>—</u>	<u>—</u>		
TURBIDITY:	<u>0.5</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>5</u>	<u>ml</u>		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Mary J. [Signature]

(Signature)

QC Checked By: \_\_\_\_\_

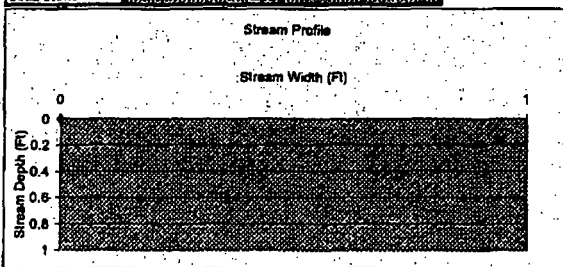
(Signature)





Stream Gauging Data Collection Sheet		Page 1 of 1
Date: 7-17-08		Time: 0930
Project Name & Location: JRG		
Collected By: MNL/STS/OL		
Station ID: JP-W-04		
Current Weather Conditions: Sunny 75°F		
Stream Width (ft): 17		
Instrument Type & ID: Marsh McParney		
Notes: Flow fluctuating between pools, not measurable		
Station Description (circle all that apply)		
Stream Bed Description:	<input checked="" type="checkbox"/> Gravelly <input type="checkbox"/> Sandy <input type="checkbox"/> Silty <input type="checkbox"/> Bedrock	
Flow Description:	<input checked="" type="checkbox"/> Obstructed <input type="checkbox"/> Turbulent <input type="checkbox"/> Smooth	
Water Clarity:	<input type="checkbox"/> Very silty <input type="checkbox"/> Cloudy <input checked="" type="checkbox"/> Clear	
Ice:	<input checked="" type="checkbox"/> None <input type="checkbox"/> Partially frozen <input type="checkbox"/> Frozen	
Heavy Rain in past 7 days:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
Carbonate Area:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	

Distance from Bank (ft)	Depth (ft)	Velocity (ft/s)	Area (ft <sup>2</sup> )	Flow (ft <sup>3</sup> /s)	Comment
1	0.3	0.0			
2	0.6	0.0			
3	0.7	0.0			
4	0.7	0.0			
5	0.7	0.0			
6	0.8	0.0			
7	0.8	0.0			
8	0.9	0.0			
9	0.9	0.0			
10	0.9	0.0			
11	0.9	0.0			
12	0.9	0.0			
13	0.9	0.0			
14	0.9	0.0			
15	0.9	0.0			
16	0.9	0.0			
17	0.9	0.0			
18	0.9	0.0			
19	0.9	0.0			
20	0.9	0.0			
21	0.9	0.0			
22	0.9	0.0			
23	0.9	0.0			
24	0.9	0.0			
25	0.9	0.0			
26	0.9	0.0			
27	0.9	0.0			
28	0.9	0.0			
29	0.9	0.0			
30	0.9	0.0			
31	0.9	0.0			
32	0.9	0.0			
33	0.9	0.0			
34	0.9	0.0			
35	0.9	0.0			
36	0.9	0.0			
37	0.9	0.0			
38	0.9	0.0			
39	0.9	0.0			
40	0.9	0.0			
41	0.9	0.0			
42	0.9	0.0			
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46	0.9	0.0			
47	0.9	0.0			
48	0.9	0.0			
49	0.9	0.0			
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68	0.9	0.0			
69	0.9	0.0			
70	0.9	0.0			
71	0.9	0.0			
72	0.9	0.0			
73	0.9	0.0			
74	0.9	0.0			
75	0.9	0.0			
76	0.9	0.0			
77	0.9	0.0			
78	0.9	0.0			
79	0.9	0.0			
80	0.9	0.0			
81	0.9	0.0			
82	0.9	0.0			
83	0.9	0.0			
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85	0.9	0.0			
86	0.9	0.0			
87	0.9	0.0			
88	0.9	0.0			
89	0.9	0.0			
90	0.9	0.0			
91	0.9	0.0			
92	0.9	0.0			
93	0.9	0.0			
94	0.9	0.0			
95	0.9	0.0			
96	0.9	0.0			
97	0.9	0.0			
98	0.9	0.0			
99	0.9	0.0			
100	0.9	0.0			



Notes:

All stream measurements were taken at the same time and place, and were taken at the same time and place.

All stream measurements were taken at the same time and place, and were taken at the same time and place.

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**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W/D-05 DATE COLLECTED (MM/DD/YY): 7-16-08  
TIME: 1350/1400

SAMPLING LOCATION CODE: BC-TB-02  
DESCRIPTION: Tributary to big creek, south side

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny, 80°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Trib is not flowing. Have pooled water at location where sample was collected in April. Water samples collected from pool. Sed collected at time as last quarter. Sed are in red sand w/ a few coarser grains

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>41</u>	<u>cpm</u>	<u>197710</u>	<u>4-1-08</u>
TEMPERATURE:	<u>21.39</u>	<u>°C</u>		
pH:	<u>6.71</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.485</u>	<u>ns/cm</u>		
REDOX:	<u>168</u>	<u>mV</u>		
DO:	<u>7.47</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>—</u>			
TURBIDITY:	<u>19.4</u>	<u>NTU</u>		
OTHER <u>Dose</u> :	<u>8</u>			

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J. QC Checked By: \_\_\_\_\_  
(Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W-26  
JP-D-06

DATE COLLECTED (MM/DD/YY): 7-28-08

TIME: 1340  
1330

SAMPLING LOCATION CODE: SC-CA-07

DESCRIPTION: Cave on Big Creek, W of concrete bridge

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy 75°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Cave is dry. Sds collected just inside cave mouth. Fr. med  
Sand w/ fr gravel.

Water collected from Big Creek where cave flow would enter creek. Water pooled  
Channel above and below pool exposed. No flow

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	38	cpm		
TEMPERATURE:	22.75	°C		
pH:	6.67	S.U.		
CONDUCTIVITY:	0.305	ns/cm		
REDOX:	265	mV		
DO:	8.33	mg/L		
ORGANIC VAPORS:	—	—		
TURBIDITY:	0.0	NTU		
OTHER <u>dose</u> :	6	μg/L		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Mack/JP

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JRG

PROJECT NO:

SAMPLE ID NUMBER: J.W.D-07

DATE COLLECTED (MM/DD/YY): 7-20-08

TIME: 1630/1640

SAMPLING LOCATION CODE: BC-SD-08

DESCRIPTION: Bridge at BC on W Perimeter Road

SAMPLING POINT CODE:

DESCRIPTION:

NORTHING:

EASTING:

ELEVATION:

SAMPLE DEPTH CODE:

TO

BLS

SAMPLE MEDIA CODE:

DESCRIPTION:

WEATHER: Partly cloudy 90°F

ACTIVITIES IN AREA:

FIELD OBSERVATIONS: Water pooled above and below bridge. No flow.

Water collected on E side of bridge at pool.

Collected soil sample N side of BC, ~ 40' upstream of bridge. Same

location as last quarter. Soil 11 in. red sand.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	35	CPI		
TEMPERATURE:	29.14	C		
pH:	7.07	SI units		
CONDUCTIVITY:	1409	mS/cm		
REDOX:	249	mV		
DO:	10.81	mg/L		
ORGANIC VAPORS:				
TURBIDITY:	28.1	NTU		
OTHER: none	7	ml		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY)

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By:

(Signature)

QC Checked By:

(Signature)

**PROJECT NO:**

DATE COLLECTED (MM/DD/YY): 7-18-08  
TIME: 0800 / 0810

DESCRIPTION: Scarp on N bank of UC

### DESCRIPTION

**ELEVATION:**

TO

**BLS**

**DESCRIPTION:**

**ACTIVITIES IN AREA:**

FIELD OBSERVATIONS: Seep is dry. Collected water in BK ~ 10 ft of Seep Creek is pooled at location. Collected Sed sample at mouth of seep as last quarter. Seeds are in gravel some in sand.

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: UPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: UPG-W/O-09

DATE COLLECTED (MM/DD/YY): 7-21-08  
TIME: 10:15/10:25

SAMPLING LOCATION CODE: UPG-BC-11

DESCRIPTION: Weir core N side Big Creek

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy, 80°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Flow measured at weir at 3 gpm w/ calibrated bucket. Water samples collected at weir notch. At same location as last quarter. Collected soils at cave mouth as last quarter. Passage way is mainly collapsed rock. Some in gr. sand or deposition on W side of cave mouth. Debris obstructing flow at weir. Flow rate collected after removing debris. Flow observed to 4 white filling bottles. Rate not accurate. Flow is probably 10.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>56</u>	<u>CPM</u>		
TEMPERATURE:	<u>18.01</u>	<u>°C</u>		
pH:	<u>6.43</u>	<u>U</u>		
CONDUCTIVITY:	<u>0.484</u>	<u>MS/cm</u>		
REDOX:	<u>137</u>	<u>mV</u>		
DO:	<u>10.29</u>	<u>mg/l</u>		
ORGANIC VAPORS:	<u>—</u>	<u>—</u>		
TURBIDITY:	<u>28.7</u>	<u>NTU</u>		
OTHER <u>DOE</u> :	<u>6</u>	<u>µM</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JPW/D-10

DATE COLLECTED (MM/DD/YY): 7.16.08  
TIME: 1505/1540

SAMPLING LOCATION CODE: JPG-00-12

DESCRIPTION: Weir cave, N bank BC

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 85°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: No flow from cave. Standing water behind weir. Standing water used for sample. Sds collected (when report drainage from cave is indicated by shallow channel in soils. Sds are in med sand

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>39</u>	<u>cpm</u>		
TEMPERATURE:	<u>21.00</u>	<u>°C</u>		
pH:	<u>6.44</u>	<u>uV</u>		
CONDUCTIVITY:	<u>0.430</u>	<u>ns/cm</u>		
REDOX:	<u>258</u>	<u>mV</u>		
DO:	<u>10.75</u>	<u>mg/L</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>344</u>	<u>NTU</u>		
OTHER <u>case</u> :	<u>8</u>	<u>uM</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: MADP  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-WD-11

DATE COLLECTED (MM/DD/YY): 7-17-08  
TIME: 1040/1100

SAMPLING LOCATION CODE: BC-SO-07

DESCRIPTION: Island below Wilson Dam

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 80°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Clearly defined channel w/ sand deposition on N side of island W of Wilson Dam. Low flow. Exposed sand E of island. Collected sandy sed. for med. grain. downstream of point on island. Collected MS/MSD at water. Water pooled.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>32</u>	<u>cpm</u>		
TEMPERATURE:	<u>26.29</u>	<u>°C</u>		
pH:	<u>6.59</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.390</u>	<u>ms/cm</u>		
REDOX:	<u>200</u>	<u>mV</u>		
DO:	<u>6.71</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>-</u>			
TURBIDITY:	<u>4.3</u>	<u>NTU</u>		
OTHER <u>data</u> :	<u>5</u>	<u>unit</u>		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: [Signature]

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)



# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JPG/0-12

DATE COLLECTED (MM/DD/YY): 7-29-08  
TIME: 0840/0850

SAMPLING LOCATION CODE: BC SD-06

DESCRIPTION: Upstream of DU impact area, Horseshoe bend

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy 78°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Stream pooled at location, channel exposed above and below

No flow

Collected Sed sample on SE bank down stream of tree forming eddy where  
greek is flowing. Water and Sed are at same location as last quarter.

Seds are silty clay w/ some v. fin sand, wet. Collected DUP for sed at  
location

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	33	cpm		
TEMPERATURE:	7.00	°C		
pH:	6.25	°C		
CONDUCTIVITY:	0.388	ms/cm		
REDOX:	301	mV		
DO:	5.78	mg/L		
ORGANIC VAPORS:				
TURBIDITY:	5.3	NTU		
OTHER <u>dose</u> :	8	µM		

SAMPLE TYPE:

☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: \_\_\_\_\_

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP.W10.13

DATE COLLECTED (MM/DD/YY): 7.20.08  
TIME: 155/153

SAMPLING LOCATION CODE: BC-SD-01

DESCRIPTION: Upstream of Old Impoundment, E. Wagon Rd

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Partly cloudy, 90°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Pooled water in area of bridge. No flow. (Sedimentally)  
buoyant object to test for flow. Water collected at same location as last  
sample.  
Collected and sample on E bank below bridge as last quarter. Sands  
are to go, there sand.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>48</u>	<u>cpm</u>		
TEMPERATURE:	<u>33.66</u>	<u>°C</u>		
pH:	<u>7.80</u>	<u>U</u>		
CONDUCTIVITY:	<u>0.418</u>	<u>mcu/cm</u>		
REDOX:	<u>235</u>	<u>mV</u>		
DO:	<u>9.8</u>	<u>%</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>28.0</u>	<u>NTU</u>		
OTHER <u>base</u> :	<u>7</u>	<u>uM</u>		

SAMPLE TYPE:

☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: \_\_\_\_\_

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JP6

PROJECT NO:

SAMPLE ID NUMBER: JP-W-21  
JP-D-14

DATE COLLECTED (MM/DD/YY): 7-17-08  
TIME: 1435/1440

SAMPLING LOCATION CODE: BC-TB-04

DESCRIPTION: Trib to BC, drawing from N

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 85°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Trib is dry. Collected water on S bank of BC directly across from mouth of trib. Water is pooled between 2 dry areas of channel. No flow. Water ID JP-W-21  
Seds collected at location as last quarter. Dry. Fr. red, gr. sand

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>43</u>	<u>cpm</u>		
TEMPERATURE:	<u>25.00</u>	<u>°C</u>		
pH:	<u>6.98</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.391</u>	<u>ns/cm</u>		
REDOX:	<u>289</u>	<u>mV</u>		
DO:	<u>8.91</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>—</u>	<u>—</u>		
TURBIDITY:	<u>11.4</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>7</u>	<u>μR</u>		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. [Signature]

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JPG-W10-15 DATE COLLECTED (MM/DD/YY): 7-18-08  
TIME: 1415/1425

SAMPLING LOCATION CODE: TBC-SD-01  
DESCRIPTION: Morgan: E. road, below culvert by staff gauge

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Hazy sun, 85°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Water below culvert is pooled. No flow present below culvert. Water sample collected at pool. Water has 2-1/2" on surface. Collected sed at bank below pool on S bank as last quarter. Sed are in gr. dry. Collected DUP for water.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:				
TEMPERATURE:	<u>33.84</u>	<u>°C</u>		
pH:	<u>7.37</u>	<u>SD</u>		
CONDUCTIVITY:	<u>0.357</u>	<u>MS/cm</u>		
REDOX:	<u>280</u>	<u>mV</u>		
DO:	<u>0.41</u>	<u>mg/L</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>8.1</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>5</u>	<u>mR</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt/Log QC Checked By: \_\_\_\_\_  
(Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JAG

PROJECT NO:

SAMPLE ID NUMBER: JP-D-16

DATE COLLECTED (MM/DD/YY): 7-29-08

TIME: 1345

SAMPLING LOCATION CODE: TSC-SD-08

DESCRIPTION: Upstream of DV area, background

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Hazy sun 85°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: \_\_\_\_\_

Sample location dry. Creek dry downstream to DV northern limits. Collected sed at same location as last photo. Seds are silty w/ U. in sand

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	41	cpm		
TEMPERATURE:				
pH:				
CONDUCTIVITY:				
REDOX:				
DO:				
ORGANIC VAPORS:				
TURBIDITY:				
OTHER <u>dose</u> :	7	uR		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Thad D. [Signature]

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: JP-W/O-17

DATE COLLECTED (MM/DD/YY): 7.20.08  
TIME: 1350/1400

SAMPLING LOCATION CODE: MF-50-01

DESCRIPTION: Reddish water upstream of bridge

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Heavy sun 85°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: No flow. Collected water sample out of pool. Is same location as previous quarter. Sed sample collected on N bank of creek at same location as last quarter. Sed in gr w/ some very fine sand. wet

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>45</u>	<u>cpm</u>		
TEMPERATURE:	<u>35.98</u>	<u>°C</u>		
pH:	<u>7.03</u>	<u>SU</u>		
CONDUCTIVITY:	<u>0.386</u>	<u>µmho</u>		
REDOX:	<u>182</u>	<u>mV</u>		
DO:	<u>9.33</u>	<u>mg/L</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>9.5</u>	<u>NTU</u>		
OTHER <u>DOE</u> :	<u>7</u>	<u>µmho</u>		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: [Signature]

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

**PROJECT NO:**

DATE COLLECTED (MM/DD/YY): 7-29-08  
TIME: 1115  
1130

DESCRIPTION: Downstream of OU impact area

### DESCRIPTION

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: : TO BLS

SAMPLE MEDIA CODE:	DESCRIPTION:
--------------------	--------------

WEATHER: Hazy sun 80°F

**ACTIVITIES IN AREA:**

FIELD OBSERVATIONS: Location dry. Collected water sample ~ 30'S (downstream)  
of MF-50-061. Water pooled, no flow.  
Collected sed sample on W bank of former pool formed by beaver dam.  
Some location as last quarter block cuts W from main channel w/  
sed deposition. V. in sand and silt, saturated. Area becoming highly  
vegetated.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	33	cpm		
TEMPERATURE:	24.80	°C		
pH:	6.7	5U.		
CONDUCTIVITY:	0.385	ms/cm		
REDOX:	288	mV		
DO:	4.6	mg/L		
ORGANIC VAPORS:	—	—		
TURBIDITY:	21.8	NTU		
OTHER <i>bar</i> :	7	mmHg		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: UP-W/D-19 DATE COLLECTED (MM/DD/YY): 7-8-08  
 TIME: 1015/1025

SAMPLING LOCATION CODE: MF-SD-009  
 DESCRIPTION: Creek at W boundary of JPG(MF)

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Hazy Sun 85°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Water W of bridge pooled, area where sample was collected. E is blocked w/ debris, channel is dry. Collected soil sample at same location as last quarter. Soil are fr. gr. Collected ppt at backhopper wastes and soil. No measurable flow. Water pooled at bridge. Channel dry below pool and upstream.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>53</u>	<u>cpm</u>		
TEMPERATURE:	<u>27.26</u>	<u>°C</u>		
pH:	<u>7.06</u>	<u>S.D.</u>		
CONDUCTIVITY:	<u>0.441</u>	<u>MS/cm</u>		
REDOX:	<u>299</u>	<u>mV</u>		
DO:	<u>6.63</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>-</u>	<u>-</u>		
TURBIDITY:	<u>5.4</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>6</u>	<u>μM</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: [Signature] QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)



**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-23 DATE COLLECTED (MM/DD/YY): 7-22-08  
JP-D-20 TIME: 0850  
0835

SAMPLING LOCATION CODE: MF-CA-01  
 DESCRIPTION: Cave downgradient of DU area on MF

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 70°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: No flow or pooled water at cave. Collected SED  
Sample at cave mouth as last quarter. Fr. med sand  
Collected water sample at pooled water from creek. Can see cave discharge  
flow channel coming down hillside to creek. No flow at creek, pooled  
water.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>33</u>	<u>cpm</u>		
TEMPERATURE:	<u>21.36</u>	<u>°C</u>		
pH:	<u>6.24</u>	<u>SU</u>		
CONDUCTIVITY:	<u>0.521</u>	<u>ms/cm</u>		
REDOX:	<u>178</u>	<u>mV</u>		
DO:	<u>8.62</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>-</u>	<u>-</u>		
TURBIDITY:	<u>0.0</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>7</u>	<u>uM</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Recorded By: Thayly Jay QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JG & EC  
Sampled by: JG & EC  
Checked by: JG & EC

Well Identification: MW-1  
Project Location: Madison, Indiana  
Date: 10/12/08  
Date: 10/23/08  
Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (34.66 ft) - Depth to Water (11.71 ft) = Height of water column (22.95 ft)  
Height of water column (22.95 ft) x K value (0.163 gal/ft) = 1 Well Volume (3.74 gal)

**Purge Volume:**

1 Well Volume (3.74 gallons) x 3 = 3 Well Volumes (11.22 gallons)

Purge Rate (gpm) x (min) = 1 Well Volume

Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp C	pH	Conduct mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1412	16.5	7.12	8999	3	6.31	136	0		12.49	0
1413	17.4	7.13	8999	1	6.85	119	0.25		13.43	0.05
1414	17.3	7.16	8997	2	6.88	117	0.35		13.94	0.02
1415	20.0	7.15	8998	1	6.66	104	0.45		14.32	0.02
1432	20.9	7.20	*		7.06	96	0.55		14.64	0.02
1433	23.1	7.16	*	0	4.84	92	0.65		14.75	0.02
1442	19.0	7.31	*	1	9.87	92	0.85		15.77	0.07
1444	19.3	7.27	*	1	7.07	86	0.85		16.33	0.07
1452	19.7	7.25	*	-2	10.52	84	0.95		17.21	0.12
1457	19.6	7.19	*	-2	4.36	90	1.05		17.80	0.12
1502	19.8	7.25	*	-2	9.20	50	1.15		18.79	0.12
1507	19.9	7.17	*	-2	6.87	51	1.25		19.36	0.12
1512	19.1	7.25	*	-1	4.35	92	1.35		19.84	0.12
1517	19.7	7.22	*	-2	9.61	93	1.45		20.57	0.12
1527	20.1	7.27	*	-2	7.94	96	1.55		21.23	0.12
1537	20.8	7.23	*	-2	6.60	95	1.65		21.40	0.12
1537	19.3	7.29	*	-1	9.94	89	1.85		22.25	0.12
1538	stop pump	to check for air lock							23.60	0.12
1547	begin pump again	W/L @ 22.8							23.60	0.12
1544	17.8	6.35	*	-1	7.80	149	2.00		23.60	0.12
1549	15.3	6.58	*	-1	4.93	142	2.25		23.94	0.12
1554	14.2	7.02	*	-1	4.26	135	2.35		24.52	0.12
1559	14.3	7.18	*	-1	6.90	107	2.45		25.65	0.12
1604	14.7	7.15	*	-2	4.12	104	2.55		26.10	0.12
1609	18.0	7.18	*	-1	6.75	79	2.65		27.23	0.12

**PURGE INFORMATION:**

Time / Date Started: 1412 | 10/12/08  
Time Purge End: 1432  
Purge Method: Pump x Bailer  
Depth to Intake: 31.6 (ft)  
Pump Type and ID: FULTZ  
Purge Rate: 0.02 - 0.05 (gpm)  
Purged Volume: 7.05 (gal)  
Water Quality Meter: Horba U-22H 82121  
How was yield measured? GRADUATED CYLINDER  
Was well cavitated? Yes X No  
Water contained/Amount NA  
Grupos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1201 | 10/23/08  
Sampled by: JG & EC  
Sample Method: Bailer Other Pump  
Grab x Composite  
# of Bottles Collected: 13 + 2 ERM  
Bottle Preservatives: H2SO4, HNO3  
Recovering WL: 28.87' BPVC  
Duplicate Sampling: NO  
Laboratory: APL  
COC Form:

F.SAMP 125A

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

slightly soft bottom

stable boron reading in range

standard water in high as in tank

the flowline bit... and the... the...



pg 2 of 2

## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JB & EC  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-1 Conhn  
Project Location: /Madison, Indiana  
Date: 10/12/09  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.81 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

page 2 of 2

**1 Well Volume:**

Total Depth ( ) ft) - Depth to Water ( ) ft) = Height of water column ( ) ft)  
Height of water column ( ) ft) x K value ( ) gal/ft) = 1 Well Volume ( ) gal)

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

Time	Temp C	pH	Cond mS/cm	Turbidity NTU	D.O mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
11:14	17.2	7.10 <sup>m</sup>	0.999 <sup>m</sup>	-1	10.88 <sup>m</sup>	+80	6.75		29.09	0.02
11:19	17.9	7.18 <sup>m</sup>	*	-1	10.92 <sup>m</sup>	+92	6.85		30.14	0.02
11:24	18.0	7.20 <sup>m</sup>	*	-1	10.93 <sup>m</sup>	+92	6.95		31.19	0.02
11:29	18.3	7.21 <sup>m</sup>	*	-1	10.95 <sup>m</sup>	+99	7.05		32.23	0.02
11:32	WELL	WENT	DOWN							
<del>EC 11/12/08</del>										
12:00	18.4	6.83	0.900	7	8.70	+23			13.21	

pump row  $\rightarrow$   
set at  $\approx 33.5'$

30.71'  
hit dump

PUMP SET  
~32 471  
AT 10/23/00

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: 1430

Purge Method: Pump x Bailor \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Homba U-22#

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount NA

Gruflos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 12/6/1 | 12/23/1  
 Sampled by: EC & JG  
 Sample Method: Bailor \_\_\_\_\_ Other Puma  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 CQC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

\* see first page for description of (K), standing water around outside of PVC pipe appears lower

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JG & EC  
Sampled by: SF & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-2  
Project Location: Madison, Indiana  
Date: 10/8/08  
Date: 10/10/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of well screen =  
15.94 ft

**1 Well Volume:**

Total Depth (22.90 ft) - Depth to Water (14.32 ft) = Height of water column (8.58 ft)  
Height of water column (8.58 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.40 gal)

**Purge Volume:**

1 Well Volume (1.40 gallons) x 3 = 3 Well Volumes (4.2 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1140	14.0	6.26	0.779	18.1	0.94	+104	0		15.49	0
1145	16.0	6.28	0.717	10.8	0.58	-97	0.2		15.91	0.04
1150	16.1	6.31	0.704	12.5	0.67	-94	0.4		16.31	0.04
1155	16.3	6.32	0.711	11.8	0.37	-95	0.6		16.51	0.04
1200	16.4	6.34	0.702	12.8	0.34	-98	0.8		16.82	0.04
1205	16.7	6.37	0.759	10.1	0.32	-96	1.0		17.03	0.04
1210	16.0	6.40	0.758	10.4	0.19	-89	1.2		17.10	0.04
1215	16.9	6.43	0.757	11.5	0.23	-89	1.4		17.20	0.04
1220	16.8	6.46	0.759	12.7	0.11	-91	1.6		17.49	0.04
1225	16.5	6.46	0.758	12.7	0.18	-90	1.8		17.59	0.04
1230	17.0	6.49	0.756	13.8	0.22	-90	2.0		17.65	0.04
1235	16.6	6.50	0.757	14.2	0.19	-90	2.2		18.84	0.04
1240	16.5	6.50	0.754	13.9	0.19	-86	2.4		19.18	0.04
1245	16.4	6.49	0.752	15.9	0.13	-84	2.6		19.53	0.04
1250	16.5	6.49	0.752	15.7	0.13	-84	2.8		19.59	0.04
1255	16.6	6.49	0.751	16.7	0.10	-82	3.0		19.58	0.04
1300	16.5	6.50	0.752	16.9	0.04	-81	3.2		20.01	0.04
1305	16.6	6.50	0.750	17.5	0.04	-79	3.4		20.38	0.04
10/10/08	collected	sample								

**PURGE INFORMATION:**

Time / Date Started: 1140 / 10/8/08  
Time Purge End: 1305  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~21.5 (ft)  
Pump Type and ID: FULTZ  
Purge Rate: 0.04 (gpm)  
Purged Volume: 3.4 (gal)  
Water Quality Meter: Hanta U-22 15302  
How was yield measured? graduated cylinder  
Was well cavitating? Yes X No \_\_\_\_\_  
Water containerized/Amount NA  
Grufos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1448 / 10/10/08  
Sampled by: SF & \_\_\_\_\_  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 15 (including ERM)  
Bottle Preservatives: H2O2, HNO3, None  
Recovering WL: 22.85  
Duplicate Sampling: No  
Laboratory: GPL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

mid 60s, rain & insects MW-2 slow to recharge  
Well went dry on 10/10/08 & sampled on 10/10/08



MW-3

Well Identification: MW - 30  
Project Location: Madison, Indiana  
Date: 10.7.08  
Date: 10/7/08  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

Total Depth (41.73) ft - Depth to Water (14.65) ft = Height of water column (27.68) ft  
Height of water column (27.68) ft x K value (6.163) gal/ft = 1 Well Volume (4.51) gal

**Purge Volume:**  
1 Well Volume ( 4.51 gallons ) x 3 = 3 Well Volumes ( 13.53 gallons )  
**Purge Rate** (          gpm ) x (          min ) = 1 Well Volume  
**Purge Rate** (          gpm ) x (          min ) = 3 Well Volume

Time	Temp °C	pH	Cond. mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0915	11.8	5.52	0.742	31.1	1.44	+65	0		14.95	0.04
0920	15.0	5.73	0.750	18.3	0.00	+73	0.7		11.03	0.04
0925	15.3	5.80	0.742	47.9	0.00	+78	0.4		11.07	0.04
0930	15.2	5.90	0.745	31.1	0.05	+59	0.6		17.10	0.04
0935	15.4	6.06	0.747	33.5	0.05	+40	0.8		13.39	0.04
0940	15.4	6.06	0.747	34.8	0.13	+35	1.0		17.31	0.04
0945	15.5	6.15	0.747	33.4	0.00	+20	1.7		13.45	0.04
0950	15.12	6.10	0.749	31.4	0.00	+23	1.4		17.45	0.04
0955	15.3	6.19	0.750	31.12	0.00	+112	1.10		15.30	0.04
JUG 10/21/08										

Time / Date Started: 0915 10/07/00  
 Time Purge End: 0955 10/07/00  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: 38 ft (ft)  
 Pump Type and ID: Fuller  
 Purge Rate: 0.03-0.04 (gpm)  
 Purged Volume: 2.6 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? archival collection  
 Was well cavitated? yes No x  
 Water containerized/Amount \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_  
 \_\_\_\_\_ NA (Hertz)

Time / Date Started: 0957 | 10/7/08  
 Sampled by: EC & JK  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 15 39 + 4 ERM MS/MSD/ERM  
 Bottle Preservatives: HA103 M-504  
 Recovering WL: 50.08 B.P.C  
 Duplicate Sampling: MS/MSD ERM MDP  
 Laboratory: GPL  
 COC Form: \_\_\_\_\_

Glencly, possible road bridge



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9387-310  
Purged by: EC & JG  
Sampled by: EC & JG  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-4  
Project Location: Madison, Indiana  
Date: 10/11/08  
Date: 10/16/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (24.18 ft) - Depth to Water (13.09 ft) = Height of water column (11.09 ft)  
Height of water column (11.09 ft) x K value (8.143 gal/ft) = 1 Well Volume (90.51 gal)

1 Well Volume ( 1.81 gallons ) x 3 = 3 Well Volumes ( 5.43 gallons )

Purge Rate ( \_\_\_\_\_ gpm ) x ( \_\_\_\_\_ min ) = 1 Well Volume

Purge Rate ( \_\_\_\_\_ gpm ) x ( \_\_\_\_\_ min ) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/L	ORP mv	Purged Quantity	Well Volume	Depth in Water	Purge Rate
1550	24.9	6.71	0.723	23.7	1.82	+202	0		15.85	0.08
1555	18.7	6.10	0.822	20.3	0.00	+162	0.1		15.85	0.08
1600	18.9	6.00	0.819	20.9	0.00	+152	0.0		15.91	0.06
1605	18.10	6.00	0.828	22.0	0.00	+136	0.0		15.96	0.04
1610	18.1	6.01	0.828	35.0	0.00	+122	1.2		16.25	0.02
1615	18.8	6.00	0.821	26.1	0.00	+112	2.2		15.88	0.02
1620	18.10	6.15	0.829	21.9	0.00	+101	2.3		15.84	0.02
1625	19.5	6.20	0.827	22.9	0.00	+91	2.5		15.93	0.01
1630	19.8	6.23	0.820	24.0	0.00	+88	2.5		15.74	0.02
1635	19.16	6.27	0.825	20.2	0.00	+80	2.0		15.72	0.02

Time / Date Started: 15:00 10/6/08  
 Time Purge End: 16:35 10/6/08  
 Purge Method: Pump x Bailer \_\_\_\_\_  
 Depth to Intake: 2.2 (ft)  
 Pump Type and ID: Fultz Pump  
 Purge Rate: 0.01 - 0.02 (gpm)  
 Purged Volume: 2.6 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? 6 graduated Cylinders  
 Was well cavitated? Yes \_\_\_\_\_ No X  
 Water containerized/Amount \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_  
 \_\_\_\_\_ NA (Hertz)

Time / Date Started: 11:30 | 10/16/08  
 Sampled by: EG & JG  
 Sample Method: Bailer Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13 + 2 EPN  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 16.41 & BVC  
 Duplicate Sampling: NO  
 Laboratory: GPL  
 COC Form: \_\_\_\_\_

Sunny with slight cloud coverage, ~80°F insects

**GROUNDWATER SAMPLE LOG**

Project Name:	Jefferson Proving Ground	Well Identification:	MW-5
Project Number:	01-1633-04-938T-310	Project Location:	Madison, Indiana
Purged by:	JG & EC	Date:	10/13/08
Sampled by:		Date:	
Checked by:		Date:	

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft      6" I.D., K=1.469 gal/ft  
 2" I.D., K=0.163 gal/ft      8" I.D., K=2.61 gal/ft  
 4" I.D., K=0.653 gal/ft      10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (32.70 ft) - Depth to Water (17.50 ft) = Height of water column (15.22 ft)  
 Height of water column (15.22 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.49 gal)

**Purge Volume:**

1 Well Volume (2.49 gallons) x 3 = 3 Well Volumes (7.44 gallons)  
 Purge Rate (gpm) x (min) = 1 Well Volume  
 Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp °C	pH	Cond µm/cm	Turbidity NTU	D.O. mg/L	ORP mV	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0825	14.1	5.40	5.50	-3	2.19	+124	0		18.5'	0
0830	14.4	6.25	5.40	-3	0.310	+39	0.35		20.15'	0.07
0835	14.5	6.47	5.40	-5	0.23	+24	0.7		20.99'	
0840	14.6	6.60	5.47	-5	0.22	+18	1.05		21.33'	
0845	14.8	6.68	5.57	-4	0.14	+7	1.40		21.75'	
0850	15.0	6.74	5.72	-4	0.10	-1	1.75		22.03'	
0855	15.1	6.76	5.92	-2	0.09	-19	2.1		22.14'	
0900	15.3	6.78	6.07	0	0.07	-30	2.45		22.32'	
0905	15.4	6.79	6.24	2	0.02	-35	2.8		22.54'	
0910	15.5	6.81	6.39	4	0.02	-35	3.15		22.63'	
0915	15.6	6.83	6.40	5	0.02	-33	3.5		22.70'	0.02
0920	15.9	6.83	6.40	6	0.00	-35	3.35		22.90'	
0925	15.8	6.85	6.49	7	0.01	-34	3.45		23.22'	
0930	15.9	6.86	6.45	10	0.02	-29	3.55		23.60'	
0935	15.8	6.86	6.47	10	0.04	-26	3.65		23.91'	
0940	15.9	6.88	6.84	12	0.02	-22	3.75		24.09'	
0945	15.9	6.85	7.10	13	0.02	-23	3.95		24.63'	
0950	15.6	6.91	6.54	-8	0.34	-13	2.95		25.59'	0.05
0955	15.6	6.89	6.95	-7	0.00	-12	4.35		26.1	0.05
1000	15.6	6.90	7.26	-6	0.00	-13	4.10		26.47'	0.05
1005	15.7	6.90	7.94	-5	0.00	-14	5.05		27.29'	0.09
1010	15.4	6.91	7.34	-3	0.00	-14	5.5		27.79'	0.09
1015	15.0	6.84	13.1	4	0.03	-18	5.95		28.74'	
1020	14.8	6.85	13.7	7	0.00	-21	10.4		28.59'	
1025	15.2	6.85	14.0	14	0.00	-21	10.65		28.85'	

PURGED WATER  
FLOW COLL

DROPPED PUMP  
DOWN 2' NORTH  
23.2' - 23.1'

**PURGE INFORMATION:**

Time / Date Started: 0825 | 10/13/08  
 Time Purge End: 1033  
 Purge Method: Pump ☒ Bailer  
 Depth to Intake: ~30.70 ~29.70 (ft)  
 Pump Type and ID: Full T  
 Purge Rate: 6.05 (gpm)  
 Purged Volume: 7.3 (gal)  
 Water Quality Meter: Horiba U-22# 82121  
 How was yield measured? ADAPTED MINDER  
 Was well cavitated? Yes ☒ No  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1319 | 10/21/08 IWL 18.  
 Sampled by: JG & EC  
 Sample Method: Bailer ☒ Other ☒ Pump  
 Grab ☒ Composite  
 # of Bottles Collected: 13 + 2 ECM  
 Bottle Preservatives: HNO3 + H2SO4  
 Recovering WL: 24.70  
 Duplicate Sampling: NONE  
 Laboratory: GPL  
 COC Form:

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

\*DD WAS SWITCHING B/W 3 VALUES, OUT OF RANGE OF HORIZON  
 WEATHERS, SMOKE, COIL MENDING  
 STANDING WATER IN WELL CASING AROUND PVC



Pg. 2 of 2

Well Identification: MW-5 (continued)  
Project Location: Madison, Indiana  
Date: 10/13/00  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

**Purge Volume:**  
1 Well Volume (                  gallons) x 3 = 3 Well Volumes (                  gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. %mg/L	ORP mV	Pumped Quantity	Well Volume	Depth to Water	Purge Rate
1030	15.9	6.85	14.2	19	0.00	-22	7.3		27.0	0.09
1033	WELL WENT DRY					HMS 10125105				
1318	14.8	6.18	14.7	1	2.81	+221			19.05	
<div style="position: relative; height: 100px;"> <span style="position: absolute; top: 0; left: 0; transform: rotate(-45deg); font-size: 2em;">X</span> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.5em;">10/13/28</span> </div>										

Time / Date Started: 0925 | 10/13/09  
 Time Purge End: 1033  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount: \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other Pump  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 CQC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JH & EC  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-4  
Project Location: Madison, Indiana  
Date: 10/10/08  
Date: 10/10/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

47.02

**1 Well Volume:**

Total Depth 43.02 (ft) - Depth to Water 24.33 (ft) = Height of water column 18.69 (ft)  
Height of water column 18.69 (ft) x K value 0.163 gal/ft = 1 Well Volume 3.05 (gal)

32.73 top of screen

**Purge Volume:**

1 Well Volume 3.05 (gallons) x 3 = 3 Well Volumes 9.14 (gallons)

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volume

PUMP SET AT 40.

Time	Temp °C	pH	Conduct mS/cm	Turbidity NTU	T.D.S. mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1050	16.6	6.16	0.731	5.0	0.79	+145	0		25.92	0
1055	16.0	6.20	0.743	9.0	0.15	+133	0.05		27.39	0.06
1100	16.4	6.38	0.744	43.0	0.12	+128	4.0		28.11	0.02
1105	16.7	6.43	0.747	29.0	0.20	+122	4.5		28.52	0.02
1110	17.1	6.47	0.749	218.0	0.20	+118	4.5		29.05	0.02
1115	17.2	6.51	0.754	198.0	0.28	+114	4.5		29.29	0.02
1120	17.6	6.51	0.755	134.0	0.29	+120	0.35		30.58	0.03
1125	17.3	6.51	0.753	121.0	0.42	+115	0.90		31.01	0.03
1130	17.6	6.53	0.753	120.0	0.49	+112	1.05		31.55	0.03
1135	16.9	6.54	0.740	142.0	0.405	+109	1.25		32.74	0.04
1140	16.7	6.55	0.747	95.9	1.36	+110	1.45		33.44	0.04
1145	16.9	6.54	0.745	70.1	1.18	+111	1.65		33.89	0.04
1150	17.1	6.55	0.744	78.6	1.24	+108	1.85		34.15	0.04
1155	18.0	6.56	0.744	61.5	1.45	+108	2.05		34.58	0.04
1200	18.0	6.57	0.744	57.0	1.58	+109	2.25		35.06	0.04
1205	18.3	6.60	0.740	92.0	1.72	+106	2.45		35.44	0.04
1210	18.5	6.58	0.739	85.4	2.13	+107	2.65		36.44	0.04
1215	17.2	6.56	0.729	160.4	2.57	+107	2.85		37.34	0.04
1220	17.7	6.59	0.729	510.7	2.58	+105	3.05		37.87	0.04
1225	18.0	6.60	0.729	576.9	2.53	+105	3.25		38.29	0.04
1230	18.4	6.61	0.729	402.0	2.40	+106	3.45		38.54	0.04
1235	18.3	6.62	0.734	75.1	2.64	+106	3.65		39.10	0.04
1240	18.4	6.62	0.732	90.9	2.61	+109	3.85		39.65	0.04
1245	18.7	6.61	0.730	81.6	2.57	+109	4.05		39.96	0.04
1250	19.1	6.61	0.729	84.0	2.62	+110	4.25		40.30	0.04

average of  
0.3 0.38  
0.4 0.42  
0.3 0.50  
0.1 0.61  
0.4

EMPTIED PLOW  
CAL

**PURGE INFORMATION:**

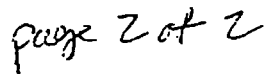
Time / Date Started: 1050 | 10/9/08  
Time Purge End: 1300  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: 41.2 (ft)  
Pump Type and ID: FVLTZ  
Purge Rate: 0.02 - 0.04 (gpm)  
Purged Volume: 4.45 (gal)  
Water Quality Meter: Hanna U-22# 15302  
How was yield measured? GRAVIMETRIC CYLINDER  
Was well cavitating? Yes X No \_\_\_\_\_  
Water containerized/Amount NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1041 | 10/10/08 WVL 36.4  
Sampled by: JH & EC  
Sample Method: Bailer x Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 4  
Bottle Preservatives: HNO3  
Recovering WL: WELL DRY  
Duplicate Sampling: WELL DRY  
Laboratory: QPL  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual colorator, etc.)

1205 Flashing number out of range for Hanna  
1st two sample bottles were collected with pump, then switch to bailing well minimum vol were collected for Anions and metals



MW-6 (Continued)

Well Identification: MIN-6 (Continued)  
Project Location: Madison, Indiana  
Date: 10/9/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

**Purge Volume:**  
 1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

Time	Temp C	pH	Cond. mS/cm	Turbidity NTU	D.O. mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1255	17.6	6.61	0.787	238	2.66	-109	4.45		41.39	0.04
1300	WELL	WENT DRY								
				17508	JAN					
1038	18.3	6.68	0.90	220	1.23	+216			37.90	0.03
				JAN 17 17508						

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other Pump  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: \_\_\_\_\_  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Project Name:	Jefferson Proving Ground	Well Identification:	MW-7
Project Number:	01-1633-04-9381-310	Project Location:	Madison, Indiana
Purged by:	JG & EC	Date:	10/7/09
Sampled by:	JG & EC	Date:	10/7/09
Checked by:	&	Date:	

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.489 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (48.65 ft) - Depth to Water (12.69 ft) = Height of water column (35.96 ft)  
Height of water column (35.96 ft) x K value (0.163 gal/ft) = 1 Well Volume (5.86 gal)

1 Well Volume (5.829 gallons) x 3 = 3 Well Volumes (17.58 gallons)

Purge Rate (      gpm) x (      min) = 3 Well Volume

Time	Temp °C	pH	Conduct mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Wet Volume	Depth of Water	Purge Rate
1400	20.1	6.38	0.791	107.6	0.99	-91	00.6		15.62	0.21
1405	18.9	6.26	0.799	119.0	0.02	-76	0.6		15.44	0.16
1410	18.0	6.15	0.817	104.9	0.00	-103	1.4		15.16	0.17
1415	15.9	6.11	0.828	75.4	0.00	-111	2.2		15.40	0.08
1420	15.1	6.19	0.818	73.3	0.00	-116	6.2		15.29	0.08
1425	15.5	6.27	0.905	82.1	0.00	-122	6.6		15.29	0.08
1430	15.4	6.33	0.913	81.5	0.00	-125	7.0		15.34	0.08
1435	15.7	6.35	0.919	87.1	0.00	-128	7.2		15.48	0.08
1440	15.1	6.36	0.919	93.0	0.00	-129	7.5		15.68	0.08
1445	15.0	6.38	0.924	103.0	0.00	-130	8.2		15.53	0.08
1450	15.2	6.42	0.929	15.4	0.00	-127	8.6		15.54	0.08
1455	15.1	6.43	0.933	18.2	0.00	-131	9.0		15.54	0.08

JMS 10/8/95

STANLEY C. GORDON, JR. 1997 (1997.12)

Cloudy, ~80°F, Haze 15.302 DSL screen needs fixed (fags), Well is in good shape

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9387-310  
Purged by: EC & JG  
Sampled by: EC & JG  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-9  
Project Location: Madison, Indiana  
Date: 10/9/08  
Date: 10/9/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

initial -  
0524 23.68

29.871

20.51 top of well

**1 Well Volume:**

Total Depth (29.87 ft) - Depth to Water (23.68 ft) = Height of water column (6.19 ft)  
Height of water column (6.19 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.009 gal)

**Purge Volume:**

1 Well Volume (1.009 gallons) x 3 = 3 Well Volumes (3.027 gallons) ~ 3.03 gal

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp C	pH	Conduct mS/cm	Turbidity NTU	DO mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0840	13.1	6.64	0.8510	1.3	0.97	+81	0		25.43	0
0845	12.7	6.18	0.8210	5.0	0.53	+50	0.075		25.51	0.015
0850	12.7	6.40	0.7900	5.6	0.29	+43	0.15		25.74	0.015
0855	12.7	6.52	0.7603	6.1	0.48	+39	0.225		26.03	0.015
0900	12.8	6.59	0.7500	6.0	0.63	+37	0.3		26.16	0.015
0903	12.8	6.69	0.741	12.2	0.60	+39	0.375		25.72	0.015
0910	12.7	6.70	0.733	10.3	0.57	+45	0.45		25.90	0.015
0915	12.8	6.73	0.730	5.7	0.90	+40	0.525		25.90	0.015
0920	13.0	6.71	0.723	6.4	0.97	+40	0.5975		26.13	0.015
Sampling started at 0921 per SF										
Well went dry										
1402	bore sample taken at 1402									
1430	well went dry									

**PURGE INFORMATION:**

Time / Date Started: 0840 | 10/9/08  
Time Purge End: 0920  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~29.10 (ft)  
Pump Type and ID: FULTZ  
Purge Rate: 0.015 (gpm)  
Purged Volume: 0.1000 (gal)  
Water Quality Meter: Hanna U-227 To 03121  
How was yield measured? GRADUATED CYLINDER  
Was well cavitating? Yes x No NA  
Water containerized/Amount NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 0921 | 10/9/08  
Sampled by: JG & EC  
Sample Method: Bailer \_\_\_\_\_ Other Pump  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 7  
Bottle Preservatives: H2O3  
Recovering WL: well went dry  
Duplicate Sampling: NO  
Laboratory: GPL  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

~ MID 100°F SUNNY NEGATIVE TRENDS IN READING WERE TAKEN BECAUSE THE HOBAS WAS CAL WITH A NEG # AND MAY BE OFF SEE LOG PAGE FOR MW-9  
NEGATIVE TRENDS DO NOT CORRELATE WITH TRENDS IN READING BECAUSE THE HOBAS WAS CAL WITH A NEG # AND MAY BE OFF SEE LOG PAGE FOR MW-9



## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: ~~10-4-0~~ & TJSE  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: 1716-9  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 10-14-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

**1 Well Volume:**

Total Depth ( ) ft) - Depth to Water ( 35.78 ) ft) = Height of water column ( ) ft)  
Height of water column ( ) ft) x K value ( ) gal/ft) = 1 Well Volume ( ) gal)

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

[illegible]

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Honda U-22#

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes X No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 0800 | 06-14-08  
 Sampled by: MDL & \_\_\_\_\_  
 Sample Method: Bailer X Other \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 8  
 Bottle Preservatives: AMZ, m7  
 Recovering WL: 58  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Well not purged due to small WC. Collected Filtered and unfiltered  
FRM 13 unfiltered metals filtered and unfiltered, anions with filtered and filtered  
and all clarity. Bottles filled by priority and did not require permits



Project Name:	Jefferson Proving Ground	Well Identification:	MCW-10
Project Number:	01-1633-04-9381-310	Project Location:	Madison, Indiana
Purged by:	MJL &	Date:	10-23-08
Sampled by:	&	Date:	
Checked by:	&	Date:	

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

Total Depth (\_\_\_\_\_ ft) - Depth to Water (\_\_\_\_\_ ft) = Height of water column (\_\_\_\_\_ ft)  
Height of water column (\_\_\_\_\_ ft) x K value (\_\_\_\_\_ gal/ft) = 1 Well Volume (\_\_\_\_\_ gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons).

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate ( gpm) } \times ( \quad \text{ min) } = 3 \text{ Well Volume}$$

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
00:00	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:05	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:10	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:15	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:20	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:25	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:30	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:35	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:40	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:45	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:50	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
00:55	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:00	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:05	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:10	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:15	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:20	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:25	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:30	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:35	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:40	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:45	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:50	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
01:55	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:00	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:05	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:10	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:15	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:20	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:25	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:30	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:35	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:40	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:45	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:50	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
02:55	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
03:00	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
03:05	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
03:10	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
03:15	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
03:20	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
03:25	22.0	6.8	0.765	0.0	0.78	10			38.71	0.05
03:30	22.0									

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Honda U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started:	_____	_____	_____
Sampled by:	_____	_____	_____
Sample Method: Bailor	_____	Other	Pump
Grab	x	Composite	_____
# of Bottles Collected:	_____	_____	_____
Bottle Preservatives:	_____	_____	_____
Recovering WL:	_____	_____	_____
Duplicate Sampling:	_____	_____	_____
Laboratory:	_____	_____	_____
COC Form:	_____	_____	_____

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: ML & EC  
Sampled by: ML & ST  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-11  
Project Location: Madison, Indiana  
Date: 10/19/05  
Date: 10.27.05  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (42.46 ft) - Depth to Water (30.92 ft) = Height of water column (11.54 ft)  
Height of water column (11.54 ft) x K value (1163 gal/ft) = 1 Well Volume (13.41 gal)

1 Well Volume ( 1.88 gallons) x 3 = 3 Well Volumes ( 5.64 gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

Purge Rate (            gpm) x (            min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0901	15.5	6.88	21.6	5.77	0.12	11	0		33.47	0
0906	15.2	6.51	13.9	31.4	0.00	-34	0.2		34.49	0.04
0911	15.3	6.54	8.69	14.3	0.00	-34	0.4		35.71	0.04
0916	15.5	6.62	8.00	15.0	0.00	-27	0.6		35.88	0.04
0921	15.8	6.70	7.59	18.4	0.30	-22	0.8		36.46	0.04
0926	15.5	6.74	7.24	14.6	0.58	-15	0.0		36.91	0.04
0931	15.8	6.77	5.77	24.4	1.10	-14	1.25		38.86	0.05
0936	15.6	6.76	5.58	24.7	1.29	-13	1.50		39.24	0.05
0941	15.8	6.72	6.11	22.8	1.29	-3	1.75		—	0.05
0947	well dry									

JORG 10/15/04

Time / Date Started: 0901 | 09/08  
 Time Purge End: ~41.5  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: ~41.5 (ft)  
 Pump Type and ID: Fulte  
 Purge Rate: 0.04 - 0.05 (gpm)  
 Purged Volume: 1.75 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? graduated cylinder  
 Was well cavitating? Yes ☒ X No ☐  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1200 1 10-17-08  
 Sampled by: MSL & STS  
 Sample Method: Bailer X Other ~~Perme~~  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 2  
 Bottle Preservatives: HNO<sub>3</sub> conc  
 Recovering WL: WLS  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

mid 60s, rainy. Coldest on road. A lot of wearing. EPM was used. anas with 1/2" of metal with 1/2" of and alkali body better well during



**SAI Science Applications**  
From Science to Solutions™ International Corporation

**GROUNDWATER SAMPLE LOG**

Project Name:	Jefferson Proving Ground	Well Identification:	MW-RS-1
Project Number:	01-1633-04-9387-310	Project Location:	Madison, Indiana
Purged by:	EC & JG	Date:	10/10/08
Sampled by:	EC & JG	Date:	10/10/08
Checked by:		Date:	

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

top of screen 7.89

1 Well Volume:  $5.81 \times 1000 = 5810$  gallons  
Total Depth (4.10 ft) - Depth to Water (4.93 ft) = Height of water column (10.80 ft)  
Height of water column (10.80 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.77 gal)  
Purge Volume: 1.77 x 3 = 5.31 gallons  
1 Well Volume (1.77 gallons) x 3 = 3 Well Volumes (5.31 gallons)  
Purge Rate (gpm) x (min) = 1 Well Volume  
Purge Rate (gpm) x (min) = 3 Well Volumes

Time	Temp °C	pH	Condi mS/cm	Turbidity NTU	D.O. mg/l	ORP mV	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0850	14.5	5.80	0.962	990	2.35	+37	0		6.50	0
0855	14.5	6.55	0.965	990	0.00	-28	0.25		6.41	0.05
0900	14.7	6.87	0.959	990	0.00	-53	0.5		6.51	0.05
0905	14.9	7.02	0.932	1270	0.00	-58	0.75		6.60	0.05
0910	14.9	7.04	0.960	530	0.00	-60	1.0		6.62	0.05
0915	17.0	7.05	0.992	370	0.00	-60	1.25		6.65	0.05
0920	14.9	7.07	0.999	310	0.00	-63	1.50		6.30	0.05
0925	17.0	7.06	0.999	280	0.00	-63	1.75		6.23	0.05
0930	17.0	7.09	1.01	280	0.00	-67	2.00		6.21	0.05
0935	17.2	7.17	0.999	260	0.00	-71	2.25		6.21	0.05
0940	17.4	7.10	0.999	260	0.00	-73	2.50		6.20	0.05
0945	17.3	7.19	0.999	250	0.00	-75	2.75		6.20	0.05
0950	17.4	7.20	0.999	230	0.00	-78	3.00		6.20	0.05
0955	17.4	7.22	0.999	170	0.00	-77	3.25		6.23	0.05
1000	17.3	7.11	0.940	70	0.00	-77	3.50		6.20	0.05
1005	17.5	7.27	0.929	45	0.00	-80	3.75		6.20	0.05
1010	17.6	7.23	0.909	37	0.00	-80	4.00		6.18	0.05
1015	17.6	7.23	0.909	32	0.00	-81	4.25		6.18	0.05
1020	17.7	7.19	0.999	29	0.00	-81	4.50		6.18	0.05
1025	17.7	7.19	0.999	27	0.00	-82	4.75		6.18	0.05

0.05

emptied  
dumped bottom

**PURGE INFORMATION:**

Time / Date Started: 0851 | 10/10/08  
Time Purge End: 1025  
Purge Method: Pump x Bailer  
Depth to Intake: ~13.3' (ft)  
Pump Type and ID: FULL T2  
Purge Rate: 0.05 (gpm)  
Purged Volume: 4.50 (gal)  
Water Quality Meter: Horiba U-22s 92121  
How was yield measured? GRAVIMETRIC CYLINDER  
Was well cavitating? Yes No X  
Water containerized/Amount NA  
Grundfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1030 | 10/10/08  
Sampled by: JG & EC  
Sample Method: Bailer Other Pump  
Grab x Composite  
# of Bottles Collected: 210 (bottle set + dup)  
Bottle Preservatives: HNO3 H2SO4  
Recovering WL: 6.24" BVC  
Duplicate Sampling: 1 DUP  
Laboratory: GPL  
COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

\* THIS READING WAS BLINKING SO = TURBID WATER (RANGE -10-990), Wt: mid 60s-70s F, SINKY, WATER BOTTOM OF WELL SOFT AND SILTY, WATER BROWN COLOR, 99.65 gallon level stable



Well Identification: MW-RS-2  
Project Location: Madison, Indiana  
Date: 10/19/08  
Date: 10/19/08  
Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of 17.75

**Purge Volume:** 1.20  
 1 Well Volume (2.70 gallons) x 3 = 3 Well Volumes (8.34 gallons)  
 Purge Rate (          gpm ) x (          min ) = 1 Well Volume  
 Purge Rate (          gpm ) x (          min ) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	DO mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1350	18.8	7.45	0.683	230	5.25	+33	0		11.92	0
1355	18.6	7.58	0.613	150	0.35	-110	0.3		*—	0.016
1400	18.4	7.62	0.609	78	0.08	-50	0.10		12.27	0.016
1405	18.4	7.57	0.602	47	0.29	-57	0.9		12.35	0.016
1410	18.4	7.70	0.597	35	0.15	-55	1.2		12.35	0.016
1415	18.4	7.72	0.592	40	0.50	-53	1.5		12.88	0.016
1420	18.3	7.73	0.590	48	0.52	-53	1.8		12.39	0.016
1425	18.4	7.74	0.597	1	1.31	-37	2.1		12.43	0.016
1430	18.4	7.75	0.594	4	0.48	-32	2.4		12.45	0.016
1435	18.3	7.70	0.592	3	0.59	-30	2.7		12.41	0.016
1440	18.4	7.75	0.593	3	0.57	-26	3.0		12.45	0.016

JUL 10 10:50 AM

✓ SAMPLE GIVEN

HARRIS  
PURGED FROM  
CELL

Time / Date Started: 1943 | 10/10/08  
 Sampled by: CB & EC  
 Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 26 (incite 501 + disp)  
 Bottle Preservatives: HNO<sub>3</sub> H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 12.12  
 Duplicate Sampling: Yes  
 Laboratory: APL  
 COC Form: \_\_\_\_\_

Finished  
stopped at 16/1/19

~80°F. Sunny



# GROUNDWATER SAMPLE LOG

Well Identification: MW-ES-3  
Project Location: Madison, Indiana  
Date: 10/12/00  
Date: 10.25.08  
Date:

Circle diameter and K used below:

6" I.D., K=1.469 gal/ft.

8" I.D., K=2.61 gal/ft

10" ID, K=4.08 gal/ft

Total Depth 14.46 (ft) - Depth to Water 12.67 (ft) = Height of water column 1.79 (ft)  
Height of water column 1.79 (ft) x K value 0.163 (gal/ft) = 1 Well Volume 0.29 (gal)

1 Well Volume (0.29 gallons) x 3 = 3 Well Volumes. (0.87 gallons).

Purge Rate (      gpm) x (      min) = 1 Well Volume

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

WELL WENT DRY

**SAMPLING INFORMATION:**

Time / Date Started: 11:05 | 11-01-09  
 Sampled by: MAK & STS  
 Sample Method: Bailor X Other SWAB  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 2  
 Bottle Preservatives: HAB  
 Recovering WL: 13.09  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

\* TURBIDITY OUT OF RANGE OF HORIBA AND DO WAS OUT OF RANGE OF HORIBA  
Readings. Collected with HANNA US-600 and a 600 ml of filtered watering  
for test well tomorrow.



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: EC & JG  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-4  
Project Location: Madison, Indiana  
Date: 10/13/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (110.92 ft) - Depth to Water (12.79 ft) = Height of water column (98.13 ft)  
Height of water column (98.13 ft) x K value (0.163 gal/ft) = 1 Well Volume (16.00 gal)

**Purge Volume:**

1 Well Volume (0.657 gallons) x 3 = 3 Well Volumes (1.971 gallons)

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume

$$\text{Purge Rate ( } \underline{\hspace{1cm}} \text{ gpm) } \times \text{ ( } \underline{\hspace{1cm}} \text{ min) } = 3 \text{ Well Volume}$$

Time	Temp. °C	pH	Cond. mS/cm	Turbidity NTU	D.O. mg/l	ORP mV	Purged Quantity	Well Volume	Depth of Water	Purge Rate
1500	20.2	6.99	0.345	990	2.66	+56	0		12.95	0
1505	19.7	6.98	0.348	150	0.50	+37	0.2		13.11	0.09
1510	19.4	6.94	0.385	310	0.71	+48	0.4		13.40	
1515	19.1	6.93	0.340	92	0.88	+40	0.6		13.71	
1520	19.5	6.93	0.345	82	0.52	+16	0.8		13.93	
1525	19.10	6.94	0.344	44	0.30	-23	1.0		14.08	
1530	18.9	6.97	0.344	41	0.00	-26	1.2		14.49	
1535	18.7	6.99	0.337	65	0.00	-45	1.4		14.91	
1540	18.5	7.00	0.336	220	0.18	-37	1.6		15.21	
1545	18.9	7.01	0.326	390	0.00	-33	1.8		15.41	
1550	19.0	7.02	0.318	1270	0.00	-25	2.0		15.65	
1555	18.8	7.04	0.308	800	0.00	-19	2.2		15.73	
1557	WELL	WENT	DRY							

J.C. 10/15/08

EMPTYED HOZBAF A  
CELL

PURGED 1:02:34  
Flow cell

SITTING ON  
PUMP

**PURGE INFORMATION:**

Time / Date Started: 1500 | 10/13/09

Time Purge End: 1557

Purge Method: Pump           x           Bailer                     

Depth to Intake: ~ 16.32 (ft)

Pump Type and ID: FULTZ

Purge Rate: 0.04 (gpm)

Purged Volume: 2.2 (gal)

Water Quality Meter: Hanna U-22# 82121

How was yield measured? Graduated Cylr

Was well cavitated? Yes X No ✓

Water containerized/Amount NA

Grunfos controller set @ NA (Hertz)

### SAMPLING INFORMATION

Time / Date Started: 0825 | 10/10/08

Sampled by: Jfm & AC

Sample Method: Bailer ☒ Other ☐

Grab x Composite           

# of Battles Collected: 13

Bottle Preservatives: HNO<sub>3</sub> + H<sub>2</sub>SO<sub>4</sub>

Recovering WL: 13.76

Duplicate Sampling: none

Laboratory: GPL

COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Soft Bottom MILK

X TURBIDITY READINGS OUTSIDE HAZARDOUS RANGE

RY DO REGTING CLISIDE OF HORIBA ENGINE

BEFORE THE WELL WENT DRY TURB. INC. DUE TO THE SOFT BOTTOM AND DUNE



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JA & EC  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-25-5  
Project Location: Madison, Indiana  
Date: 10/14/08  
Date:  
Date:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen 7.66' BPRC

Total Depth (15.73 ft) - Depth to Water (12.70 ft) = Height of water column (3.03 ft)  
Height of water column (3.03 ft) x K value (0.103 gal/ft) = 1 Well Volume (0.31 gal)

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O mg/l	ORP mv	Purged Quantity	Wells Volume	Depth to Water	Purge Rate
JMA 10/23/08										

Time / Date Started: 0801 | 01/14/08  
Time Purge End: 0824  
Purge Method: Pump ☒ Bailer ☒  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured?  
Was well cavitated? Yes ☒ No ☐  
Water containerized / Amount NA  
Grunfos controller set @ NA (Hertz)

Time / Date Started: 1520 | 11/10/98  
 Sampled by: JA & EC  
 Sample Method: Bailor X Other Surge  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 9  
 Bottle Preservatives: HNO<sub>3</sub> + H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 14.73  
 Duplicate Sampling: NONE  
 Laboratory: 306  
 COC Form: \_\_\_\_\_

WELL BAILED DRY SEE LOG BOOK JPS Quarterly GW Well Sampling  
#5 p. 96 For # of Full or half Bails.



Well Identification: MW- RS-6  
Project Location: Madison, Indiana  
Date: 10/14/08  
Date: 10/14/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

Top of Screen 7.84' B PVC

1 Well Volume:  
Total Depth (17.04 ft) - Depth to Water (12.63 ft) = Height of water column (4.41 ft) 4.43  
Height of water column (4.43 ft) x K value (0.163 gal/ft) = 1 Well Volume (0.72 gal)

1 Well Volume (4.13 gallons) x 3 = 3 Well Volumes (12.40 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp. °C	pH	Cond. mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth of Water	Purge Rate
1018	17.5	5.79	*0.999	*990	*3.09	+143	0		12.89	0
1022	17.0	6.42	*	**	**4*	+131	0.2		12.99	0.04
1027	—	6.516	*	**	*3*	+119	0.4		12.99	0.04
1032	18.2	6.660	*	*4	*+*	+109	0.1		12.99	0.04
1037	17.1	6.310	*	+*	+**	+104	0.75		12.99	0.03
1042	18.3	*6.75	*	950	<del>95*</del>	+95	0.90		12.95	0.03
1047	18.4	*6.75	*	720	*	+92	1.05		12.95	0.03
1052	18.3	*6.75	*	620	*	+81	1.20		12.85	0.03
1057	19.2	*6.71	*	420	*	+78	1.35		12.80	0.03
1102	19.4	*6.78	*	120	*5.35	+79	1.45		12.91	0.03
1107	18.5	*6.710	*	94	*	+64	1.55	1.65	12.91	0.03
1113	18.7	*6.76	*	180	*	+61	1.60	1.8	12.81	0.03
1117	18.6	*6.75	*	42	*	+53	1.95		12.79	0.03
1122	18.9	*6.710	*	35	*0.95	+48	2.10		12.82	0.03
1127	18.3	*6.710	*	21	*0.73	+44	2.25		12.92	0.03
1132	18.2	*6.81	*	18	*0.60	+44	2.40		12.92	0.03
1137	18.5	*6.74	*	8	*	+35	2.55		12.95	0.03
1142	19.0	*6.70	*	7	*	+65	2.70		12.97	0.03
1151	18.0	*6.78	*	4	*	+54	2.97		12.810	0.03
1156	18.0	*6.77	*	2	*0.82	+54	3.12		12.86	0.03
1201	17.9	*6.77	*	1	*0.10	+44	3.27		12.810	0.03
1206	18.3	*6.74	*	1	*2.67	+47	3.42		12.810	0.03
1211	18.2	*6.78	*	2	*0.03	+40	3.57		12.810	0.03
1216	18.1	*6.83	*	3	*0.00	+42	3.72		12.85	0.03
1221	18.1	*6.78	*	4	*2.11	+39	3.87		12.87	0.03

EMPTY 1700.3.  
FLOW CELL

PURGED FLOW

### PURGED FLOW CELL

PURGE W/ PUMP STARTED AT 1018

**PURGE INFORMATION:**

Time / Date Started: 0837 10/17/08

Time Purge End: 1220

Purge Method: Pump ☒ or ☐ Bailor ☒ USED BOTH

Depth to Intake: 112.04' BVC (ft)

Pump Type and ID: FULLZ

Purge Rate: 0.63 - 0.04 (gpm)

Purged Volume: 7.3 (gal)

Water Quality Meter: Homba U-22# 82121

How was yield measured? GRAVIMETRIC ANALYSIS

Was well cavitated? Yes \_\_\_\_\_ No ☒ X

Water containerized/Amount NA

Grufos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**  
 Time / Date Started: 1424 | 10/14/08  
 Sampled by: JG & EC  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab ☒ Composite \_\_\_\_\_  
 # of Bottles Collected: 216  
 Bottle Preservatives: ~~20%~~ HNO<sub>3</sub>, 5%SCA  
 Recovering WL: 12.73' BAVC  
 Duplicate Sampling: YES  
 Laboratory: APL  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

\*TURBIDITY OUT OF RANGE OF 100:BA ~~WATER~~ WATER VERY TURBID DUE TO BAILING

\*\* COND. " " 0.9910.999 IN BEGINNING then SWITCHED TO PUMP

REL DO. " " FLASHES B/W 3 VALUES

\*PH ALSO OUT OF RANGE OF 110:BA SWITCHES ON 2 diff. VALVES

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: EC & AG  
Sampled by: &  
Checked by: &

Well Identification: MW-RS-6 (continued)  
Project Location: Madison, Indiana  
Date: 10/14/08  
Date:  
Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft      6" I.D., K=1.469 gal/ft  
2" I.D., K=0.163 gal/ft      8" I.D., K=2.61 gal/ft  
4" I.D., K=0.653 gal/ft      10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

**Purge Volume:**

1 Well Volume ( ) gallons x 3 = 3 Well Volumes ( ) gallons  
Purge Rate ( ) gpm x ( ) min = 1 Well Volume  
Purge Rate ( ) gpm x ( ) min = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1220	18.0	6.70	*	10	0.00	140	4.02		12.80	0.03
1231	18.1	6.78	*	5	*	138	4.11		12.90	0.03
1240	17.7	6.85	*	-2	2.30	1107	4.31		12.88	0.03
1245	17.6	6.90	*	-3	0.00	1109	4.40		12.88	0.03
1250	17.5	6.70	*	-3	0.00	76	4.61		12.86	0.03
1255	17.4	6.64	*	-3	0.00	63	4.76		12.87	0.03
1300	17.3	6.76	*	-3	0.00	56	4.91		12.87	0.03
1305	17.3	6.78	*	-3	0.00	51	5.06		12.88	0.03
1310	17.3	6.64	*	-3	0.00	77	5.21		12.90	0.03
1315	17.2	6.80	*	-2	0.00	76	5.36		12.90	0.03
1320	17.1	6.74	*	10	0.00	42	5.51		12.90	0.03
1325	17.1	6.81	*	3	0.00	40	5.66		12.90	0.03
1330	17.3	6.71	*	-3	0.00	42	5.81		12.90	0.03
1335	17.3	6.83	*	-1	0.00	37	5.96		12.89	0.03
1340	17.3	6.82	*	13	0.00	40	6.11		12.89	0.03
1345	17.2	6.71	*	8	0.00	36	6.26		12.89	0.03
1350	17.3	6.77	*	3	0.00	37	6.41		12.89	0.03
1355	17.3	6.71	*	-3	0.00	34	6.56		12.86	0.03
1400	17.5	6.80	*	-4	0.00	32	6.71		12.80	0.03
1405	17.6	6.80	*	-5	0.00	34	6.86		12.87	0.03
1410	17.8	6.81	*	11	0.00	31	7.01		12.84	0.03
1415	17.7	6.79	*	-5	0.00	31	7.16		12.85	0.03
1420	17.6	6.80	*	-6	0.00	35	7.31		12.88	0.03
1.166 1013.5/28										

PURGE HORIBI  
FLOW CELL  
RECALIBRA

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump ☒ Bailer \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22\*  
How was yield measured? \_\_\_\_\_  
Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Grinfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab ☒ Composite \_\_\_\_\_  
# of Bottles Collected: \_\_\_\_\_  
Bottle Preservatives: \_\_\_\_\_  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: MW- RS- 7  
Project Location: Madison, Indiana  
Date: 10/12/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

1 Well Volume: Total Depth (14.75 ft) - Depth to Water (11.57 ft) = Height of water column (3.18 ft)  
Height of water column (3.18 ft) x K value (6.163 gal/ft) = 1 Well Volume (19.82 gal)

Purge Volume:  
 1 Well Volume (0.52 gallons) x 3 = 3 Well Volumes (1.56 gallons)  
 Purge Rate ( gpm ) x ( min ) = 1 Well Volume  
 Purge Rate ( gpm ) x ( min ) = 3 Well Volume

Time	Temp °C	pH	Cond. mS/cm	Turbidity NTU	D.O mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1740	20.0	7.47	1.83	990	0.10	-190	0.00		11.85	0
1745	20.7	7.29	1.83	940	0.71	-127	0.007		12.02	0.04
1750	20.7	7.28	1.84	370	0.53	-104	0.04		12.32	0.04
1755	20.7	7.27	1.86	200	0.29	-111	0.016		12.56	0.04
1800	20.7	7.27	1.86	150	0.14	-118	0.018		12.93	↓
1805	19.10	7.27	1.87	160	0.05	-123	0.10		13.24	↓
1810	19.4	7.26	1.85	990	0.90	-133	0.12		13.70	↓
1811	WELL	WEANT	DRY							—

Time / Date Started: 1740 10/12/00  
 Time Purge End: 1911  
 Purge Method: Pump X Bailer \_\_\_\_\_  
 Depth to Intake: ~ 14.21' (ft)  
 Pump Type and ID: PULTE  
 Purge Rate: ~~0.32~~ 0.32 (gpm) ~~0~~  
 Purged Volume: 0.13 (gal)  
 Water Quality Meter: Monta U-22# 82121  
 How was yield measured? GRADUATED C  
 Was well cavitated? Yes X No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_  
 \_\_\_\_\_ NA \_\_\_\_\_  
 \_\_\_\_\_ NA (Hertz) \_\_\_\_\_

Time / Date Started: 1259 | 1d/2d/108  
 Sampled by: LG & EC  
 Sample Method: Bailer X Other \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 11 only 250 ml in 1 liter 150 u  
 Bottle Preservatives: H<sub>2</sub>SO<sub>4</sub> + NH<sub>4</sub>OH no other  
 Recovering WL: dry  
 Duplicate Sampling: NONE  
 Laboratory: GPL  
 COC Form: \_\_\_\_\_

3 TURBIDITY OUT OF RANGE \*\* NO OUT OF HORROR, BEGINNING PRECIP WATER WAS  
cloudy.  
Weather: 80°F, Sunny





Well Identification: MW RS-8  
Project Location: Madison, Indiana  
Date: 10/19/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
<del>2" I.D., K=0.163 gal/ft</del>	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

1 Well Volume:  
Total Depth (17.31) ft - Depth to Water (14.54) ft = Height of water column (3.17) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

1 Well Volume (\_\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_\_ gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
WGS 10/21/05										

Time / Date Started: 1611 | 10/14/08  
 Time Purge End: 1630  
 Purge Method: Pump X Bailor X  
 Depth to Intake: — (ft)  
 Pump Type and ID: —  
 Purge Rate: — (gpm)  
 Purged Volume: — (gal)  
 Water Quality Meter: Hanna 1122  
 How was yield measured? —  
 Was well cavitated? Yes X No —  
 Water containerized/Amount — NA  
 Grunts controller set @ — NA (Hertz)

Time / Date Started: 8:40 | 10/21/08  
 Sampled by: JG & EC  
 Sample Method: Bailer X Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: 7.20 NaNO3 H2SO4  
 Recovering WL: 12.20  
 Duplicate Sampling: NONE  
 Laboratory: DTPL  
 COC Form: \_\_\_\_\_

See p. 88-89 in J6 Quantity Supply Log book #5  
for barren quantities



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JG & EC  
Sampled by: JG & EC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-DW-11  
Project Location: Madison, Indiana  
Date: 10/23/08  
Date: 10/23/08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Total Depth (44.08 ft) - Depth to Water (3.77 ft) = Height of water column (40.35 ft)  
Height of water column (40.35 ft) x K value (0.143 gal/ft) = 1 Well Volume (4.59 gal)

1 Well Volume (6.58 gallons) x 3 = 3 Well Volumes (19.74 gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$

Purge Rate (          gpm) x (          min) = 3 Well Volume

Time	Temp. °C	pH	Cond. mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1442	17.0	7.12	2.81	4	10.78	-38	0		3.34'	0
1447	15.2	7.10	2.94	93	0.07	-113	0.15		4.19'	0.03
1452	15.8	7.00	2.92	930	0.04	-133	0.40		4.03'	0.05
1457	16.1	7.00	2.93	410	0.00	-140	0.15		4.51'	0.03
1502	16.0	7.09	2.77	700	2.25	-146	0.00		4.87'	0.05
1507	15.7	7.00	2.80	360	0.00	-144	1.15		5.65'	0.05
1512	15.7	7.05	3.02	330	0.00	-144	1.40		5.74'	0.05
1517	15.5	7.06	3.05	230	0.07	-154	1.65		6.01'	0.03
1522	15.2	7.05	3.06	110	0.00	-132	1.90		6.53'	0.05
1527	15.1	7.08	3.04	81	0.00	-133	2.15		6.70'	0.05
1532	16.0	7.05	3.05	62	0.00	-136	2.40	2.40	6.81'	0.05
1537	16.5	7.05	3.04	36	0.49	-119	2.65	2.65	6.95'	0.05
1547	16.6	7.05	3.05	32	0.45	-120	2.75		6.55'	0.05
1547	16.6	7.04	3.05	32	0.07	-120	2.85		7.07'	0.05
1552	16.3	7.04	3.05	31	0.00	-120	2.93		7.03'	0.05
1557	16.3	7.04	3.04	31	0.00	-119	3.05		7.20'	0.05

Time / Date Started: 1442 1 10/23/18  
Time Purge End: ~~1449~~ 1557  
Purge Method: Pump X Bailor  
Depth to Intake: 41.9 (ft)  
Pump Type and ID: FULTZ  
Purge Rate: 0.07 - 0.05 (gpm)  
Purged Volume: 3.05 (gal)  
Water Quality Meter: Horiba U-2# 82121  
How was yield measured? Graduated  
Was well cavitated? Yes No X  
Water containerized? Amount NA  
Grunfos controller set @ NA (Hertz)

Time / Date Started: 1559 | 10/23/05  
 Sampled by: JG & IEC  
 Sample Method: Bailer Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub> + H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 10.71  
 Duplicate Sampling: None  
 Laboratory: GPH  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Contains troll up on silt on bottom of well



## GROUNDWATER SAMPLE LOG

Well Identification: JP6-DU-011  
 Project Location: Madison, Indiana  
 Date: \_\_\_\_\_  
 Date: 10/24/08  
 Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

**1 Well Volume:**

Total Depth (115.69) ft) - Depth to Water (4.06) ft = Height of water column (111.63) ft)  
Height of water column (        ) ft x K value (        ) gal/ft = 1' Well Volume (        ) gal

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate ( } \frac{\text{gpm}}{\text{min}} \text{ ) } \times ( \text{ } \text{min} \text{ ) } = 3 \text{ Well Volume}$$

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	mg Wet Volume	Depth to Water	Purge Rate

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: \_\_\_\_\_  
 \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1105 | 10/24/00  
 Sampled by: HLJ & L  
 Sample Method: Bailer Other Hydro Sleeves  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 12  
 Bottle Preservatives: HMB-3 HSC-4  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: None  
 Laboratory: Q11  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: ML & \_\_\_\_\_  
Sampled by: ML & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-DU-021  
Project Location: Madison, Indiana  
Date: 10-23-02  
Date: 10-23-02  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (31.81 ft) - Depth to Water (19.58 ft) = Height of water column (\_\_\_\_ ft)  
Height of water column (\_\_\_\_ ft) x K value (\_\_\_\_ gal/ft) = 1 Well Volume (\_\_\_\_ gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_ gallons)

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
14:00	10.5	6.82	1.66	0.7	1.8	-155			19.58	0.01
14:01	10.5	6.78	1.68	0.7	1.8	-155			19.58	0.01
14:02	10.5	6.77	1.61	0.7	1.8	-155			19.58	0.01
14:03	10.5	6.78	1.61	0.7	1.8	-155			19.58	0.01
14:04	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:05	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:06	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:07	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:08	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:09	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:10	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:11	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:12	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:13	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:14	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:15	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:16	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:17	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:18	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:19	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:20	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:21	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:22	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:23	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:24	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:25	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:26	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:27	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:28	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:29	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:30	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:31	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:32	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:33	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:34	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:35	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:36	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:37	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:38	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:39	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:40	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:41	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:42	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:43	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:44	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:45	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:46	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:47	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:48	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:49	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:50	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:51	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:52	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:53	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:54	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:55	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:56	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:57	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:58	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
14:59	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01
15:00	10.5	6.82	1.68	0.7	1.8	-155			19.58	0.01

**PURGE INFORMATION:**

Time / Date Started: 14:24 / 10-23-02  
Time Purge End: 15:14  
Purge Method: Pump ☒ Bailer \_\_\_\_\_  
Depth to Intake: 21.8 (ft)  
Pump Type and ID: Fuji # K387  
Purge Rate: ~0.05 (gpm)  
Purged Volume: ~1.4 (gal)  
Water Quality Meter: Hanna U-22# 6338  
How was yield measured? Calculated  
Was well caviated? Yes \_\_\_\_\_ No ☒  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 15:14 / 10-23-02  
Sampled by: ML & \_\_\_\_\_  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab ☒ Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, H<sub>2</sub>O<sub>2</sub>  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: ~~MC~~ JG & ~~MC~~ BC  
Sampled by: MC JG & BC  
Checked by: JG &

Well Identification: JP G-DW-ED  
Project Location: Madison, Indiana  
Date: 10/24/2008  
Date: 10/24/08  
Date:

Circle diameter and K used below:

1" I.D.	K=0.041 gal/ft
2" I.D.	K=0.163 gal/ft
4" I.D.	K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (121.86) ft - Depth to Water (120.39) ft = Height of water column (1.47) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

Time	Temp. °C	pH	Cond. mS/cm	Turbidity NTU	DO mg/L	ORP mV	Purged Quantity	Well Volume	Depth to Water	Purge Rate
JH 6 10/25/10										

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ *X* \_\_\_\_\_ *Bailer* \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ *(ft)* \_\_\_\_\_  
 Pump Type and ID: \_\_\_\_\_ *1 1/2" 10' 10"* \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ *100* \_\_\_\_\_ *(gpm)* \_\_\_\_\_  
 Purged Volume: \_\_\_\_\_ *100* \_\_\_\_\_ *(gal)* \_\_\_\_\_  
 Water Quality Meter: \_\_\_\_\_ *Honda U-22#* \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? \_\_\_\_\_ *Yes* \_\_\_\_\_ *No* \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ *NA* \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ *NA* \_\_\_\_\_ *(Hertz)*

Time / Date Started: 0852 | 10/24/00  
 Sampled by: HLJ & EC  
 Sample Method: Baiter X Other semin  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 5  
 Bottle Preservatives: HA103  
 Recovering WL: dry  
 Duplicate Sampling: NO/NE  
 Laboratory: GPL  
 CQC Form: \_\_\_\_\_

filled 150-ml bottles and filled ones with water  
and unfilled ~100 ml and 100 ml of unfilled water

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: EC & JG  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-DU-030  
Project Location: Madison, Indiana  
Date: 10/13/08  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of Screen 17.44' BPVC

**1 Well Volume:**

Total Depth (27.89 ft) - Depth to Water (14.43 ft) = Height of water column (13.46 ft)  
Height of water column (13.46 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.19 gal)

**Purge Volume:**

1 Well Volume (2.19 gallons) x 3 = 3 Well Volumes (6.57 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1107	17.1	7.18	0.91	1990	5.65	-80	0		15.00	0
1112	16.9	7.02	0.95	240	5.12	-100	0.15		15.30	0.03
1117	17.1	7.01	0.95	120	0.00	-99	0.3		15.44	
1123	17.3	7.00	0.94	180	0.00	-100	0.45		15.54	
1128	17.3	6.99	0.94	340	0.00	-93	0.60		15.69	
1133	17.5	6.98	0.92	390	0.03	-89	0.75		15.10	
1138	17.5	6.97	0.92	300	0.07	-81	0.90		15.49	
1143	17.5	6.97	0.92	270	0.04	-82	1.05		15.74	
1148	17.4	6.96	0.92	210	0.01	-82	1.20		15.78	
1153	17.4	6.95	0.92	190	0.00	-83	1.35		15.92	
1158	17.3	6.95	0.92	170	0.00	-83	1.50		16.89	
1203	17.4	6.95	0.92	190	0.00	-83	1.65		15.95	
1208	17.4	6.94	0.92	170	0.00	-82	1.80		16.00	
1213	17.4	6.94	0.92	40	0.11	-74	1.95		16.01	
1218	17.5	6.93	0.90	37	0.00	-74	2.10		16.01	
1223	17.5	6.92	0.90	24	0.00	-72	2.25		16.04	
20 10/13/08										
Empty/written cell										

**PURGE INFORMATION:**

Time / Date Started: 1107 | 10/13/08  
Time Purge End: 1223  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~24.89 (ft)  
Pump Type and ID: FULTZ  
Purge Rate: 0.63 (gpm)  
Purged Volume: 6.57 (gal) 2.25  
Water Quality Meter: Hanna U-22 02121  
How was yield measured? Graduated cylinder  
Was well cavitating? Yes \_\_\_\_\_ No X  
Water containerized/Amount \_\_\_\_\_ NA  
Gruntfos controller set @ \_\_\_\_\_ HIA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1225 | 10/13/08  
Sampled by: JG  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 210  
Bottle Preservatives: NH4OH & H2SO4  
Recovering WL: YES  
Duplicate Sampling: YES  
Laboratory: GPL  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/todor, etc.)

\* TURBIDITY READINGS WAS OUT OF RANGE OF METER  
SPT, SIFT Bottom, water was murky in the beginning

pg 1 of 2

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JG & EC  
Sampled by: MDL & STS  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-04-0312  
Project Location: Madison, Indiana  
Date: 10/22/08  
Date: 10-27-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume: Total Depth (14.65 ft) - Depth to Water (17.21 ft) = Height of water column (52.44 ft)  
Height of water column (52.44 ft) x K value (0.163 gal/ft) = 1 Well Volume (8.55 gal)

Purge Volume: 1 Well Volume (8.55 gallons) x 3 = 3 Well Volumes (25.65 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp C	pH	Cond mS/cm	Turbidity NTU	D.O mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0845	11.7	5.83	1.36	10	2.89	-109	0		11.01	0
0850	12.7	6.46	1.42	380	0.04	-113	0.25		12.93	0.05
0855	11.8	6.08	1.43	150	0.00	-115	0.50		12.86	0.05
0900	11.0	6.76	1.44	80	0.00	-113	0.75		13.11	0.05
0905	12.13	6.75	1.43	190	0.00	-111	1.00		14.54	0.05
0910	12.0	6.85	1.42	110	0.00	-110	1.25		15.09	0.05
0915	11.2	6.86	1.43	54	0.00	-108	1.50		16.34	0.05
0920	11.0	6.83	1.41	73	0.00	-108	1.75		15.73	0.05
0925	10.9	6.82	1.42	83	0.00	-105	1.80		16.16	0.05
0930	12.2	6.88	1.34	69	—	-107	1.85		16.67	0.05
0935	12.5	6.87	1.42	40	0.24	-105	2.20		17.50	0.04
0940	12.2	6.94	1.42	34	0.00	-108	2.40		18.47	0.04
0945	11.7	6.96	1.41	27	0.00	-109	2.6		18.97	0.04
0950	11.0	6.92	1.42	29	0.00	-106	2.80		19.32	0.04
0955	10.0	6.97	1.45	26	0.00	-106	3.0		19.47	0.04
1000	11.2	6.94	1.42	21	0.00	-105	3.2		19.22	0.04
1005	13.0	6.88	1.38	29	0.00	-111	3.4		21.09	0.04
1010	11.4	6.97	1.45	27	0.00	-113	3.6		21.46	0.04
1015	13.2	6.97	1.42	27	0.00	-114	3.8		22.36	0.04
1020	13.4	6.99	1.41	27	0.00	-115	4.0		23.16	0.04
1025	13.10	6.99	1.39	26	0.00	-110	4.4		25.77	0.05
1030	13.3	7.0	1.40	28	0.00	-117	4.8		28.0	0.08
1035	12.1	7.02	1.40	25	0.00	-116	5.2		29.23	0.08
1040	13.4	7.02	1.40	26	0.00	-119	5.6		30.92	0.08
1045	13.4	7.02	1.40	26	0.00	-119	6.0		32.31	0.08

STABLE  
NOWHAT FOR  
3 well volumes  
b/c ML keeps  
moving

PURGE HORIBA  
LOW CELL

**PURGE INFORMATION:**

Time / Date Started: 0845 | 10/22/08  
Time Purge End: 1220  
Purge Method: Pump X Bailer \_\_\_\_\_  
Depth to Intake: 16.65 (ft)  
Pump Type and ID: FUT2  
Purge Rate: 0.01-0.08 (gpm)  
Purged Volume: 13.10 (gal)  
Water Quality Meter: Hanna U-22# 5212  
How was yield measured? GRAVIMETRIC  
Was well cavitating? Yes X No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA  
Grinfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1500 | 10/27/08  
Sampled by: MDL & STS  
Sample Method: Bailer X Other \_\_\_\_\_  
Grab X Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO3, H2SO4, NaOH  
Recovering WL: 32.98  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Well bottom - D.O. switches b/w 3 diff values, indicating it is out of  
range of the HORIBA. NOTE: there is a smell to the water in  
the 1st cell, WELL PUMPED/PURGED DAY

pg 2 of 2

### GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JB & EC  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-DU-031  
Project Location: Madison, Indiana  
Date: 10/22/05  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft      6" I.D., K=1.469 gal/ft  
2" I.D., K=0.163 gal/ft      8" I.D., K=2.61 gal/ft  
4" I.D., K=0.653 gal/ft      10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (\_\_\_\_\_) ft - Depth to Water (\_\_\_\_\_) ft = Height of water column (\_\_\_\_\_) ft  
Height of water column (\_\_\_\_\_) ft x K value (\_\_\_\_\_) gal/ft = 1 Well Volume (\_\_\_\_\_) gal

**Purge Volume:**

1 Well Volume (\_\_\_\_\_) gallons x 3 = 3 Well Volumes (\_\_\_\_\_) gallons

Purge Rate (\_\_\_\_\_) gpm x (\_\_\_\_\_) min = 1 Well Volume

Purge Rate (\_\_\_\_\_) gpm x (\_\_\_\_\_) min = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/L	ORP mV	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1050	13.0	7.03	1.40	25	0.00	-118	6.4		33.56	0.08
1055	13.0	7.02	1.39	28	0.00	-118	6.8		35.71	0.08
1100	13.5	7.03	1.39	28	0.00	-117	7.0		36.65	0.08
1105	13.3	7.03	1.40	28	0.00	-116	7.4		37.49	0.08
1110	13.8	7.02	1.39	28	0.00	-117	8.0		38.82	0.08
1115	14.1	7.03	1.37	29	0.00	-114	8.4		41.80	0.08
1120	14.0	7.04	1.40	31	0.00	-117	8.8		44.64	0.08
1125	13.9	7.03	1.39	31	0.00	-116	9.2		45.47	0.08
1130	13.7	7.03	1.39	33	0.00	-109	9.6		46.47	0.08
1135	13.5	7.03	1.39	34	0.00	-107	10.0		47.29	0.08
1140	14.0	7.03	1.37	63	0.00	-109	10.4		48.11	0.08
1145	14.1	7.03	1.35	33	0.00	-107	10.8		49.63	0.08
1150	14.1	7.02	1.30	39	0.00	-105	11.2		51.30	0.08
1155	14.5	7.04	1.39	42	0.01	-100	11.6		54.55	0.08
1200	14.6	7.03	1.38	41	0.05	-98	12.0		55.25	0.08
1205	14.5	7.03	1.37	170	0.04	-90	12.4		56.75	0.08
1210	14.3	7.03	1.38	320	0.24	-95	12.8		57.18	0.08
1215	14.8	6.99	1.35	610	0.00	-121	13.2		—	0.08
1220	14.6	6.99	1.40	500	0.07	-137	13.6		—	0.08
1225 Well dry - water below pump										
10/22/05										

Purged flow  
cell

hit pump

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump ☒ Bailer \_\_\_\_\_  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Hanna U-22#  
How was yield measured? \_\_\_\_\_  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
Grufos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab ☒ Composite \_\_\_\_\_  
# of Bottles Collected: \_\_\_\_\_  
Bottle Preservatives: \_\_\_\_\_  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JG & EL  
Sampled by: JG & EL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-DU-0410  
Project Location: Madison, Indiana  
Date: 10/22/08  
Date: 10/22/08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth 60.17 ft - Depth to Water 14.86 ft = Height of water column (35.31) ft  
Height of water column (35.31) ft x K value (0.163) gal/ft = 1 Well Volume (5.76) gal

**Purge Volume:**

1 Well Volume (5.76) gallons x 3 = 3 Well Volumes (17.29) gallons

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1335	12.8	7.00	1.03	52	3.25	-146	0		15.23	0
1340	14.2	7.02	1.09	790	0.00	-159	0.25		15.45	0.05
1345	14.3	7.05	1.09	720	0.00	-163	0.50		15.51	0.05
1350	14.4	7.07	1.10	870	0.00	-164	0.75		15.63	0.05
1355	14.4	7.08	1.10	330	0.00	-164	1.00		15.79	0.05
1400	14.4	7.10	1.10	210	0.21	-149	1.25		15.80	0.05
1405	14.5	7.08	1.10	190	0.00	-155	1.50		15.93	0.05
1410	14.5	7.07	1.10	160	0.00	-156	1.75		16.03	0.05
1415	14.6	7.09	1.10	180	0.00	-157	2.00		16.13	0.05
1420	14.5	7.09	1.10	170	0.00	-156	2.25		16.19	0.05
1425	14.5	7.09	1.11	160	0.00	-156	2.50		16.24	0.05
1430	14.5	7.08	1.12	140	0.00	-155	2.75		16.31	0.05
1435	14.5	7.08	1.12	140	0.00	-154	3.00		16.36	0.05
1440	14.5	7.07	1.14	53	0.00	-145	3.25		16.47	0.05
1445	14.6	7.07	1.13	52	0.00	-147	3.50		16.41	0.05
1450	14.6	7.06	1.14	49	0.00	-147	3.75		16.53	0.05
1500	14.6	7.05	1.14	50	0.00	-147	4.00		16.65	0.05
1505	14.7	7.08	1.14	46	—	-122	4.50		16.81	0.05
1510	14.6	7.05	1.14	48	0.00	-132	4.75		16.10	0.05
1515	14.7	7.05	1.14	46	0.00	-131	5.00		16.10	0.05
1520	14.7	7.05	1.14	44	0.00	-134	5.25		16.72	0.05
1525	14.6	7.05	1.14	47	0.00	-138	5.50		16.75	0.05

purged cell

purged cell

purged cell

**PURGE INFORMATION:**

Time / Date Started: 1335 | 10/22/08  
Time Purge End: 1525  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: ~47.17 (ft)  
Pump Type and ID: FULTZ  
Purge Rate: 0.15 (gpm)  
Purged Volume: 5.50 (gal)  
Water Quality Meter: Hanna U-22# 82121  
How was yield measured? Graduated Cylinder  
Was well cavitating? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount: \_\_\_\_\_ NA  
Grundfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1525 | 10/22/08  
Sampled by: JG & EL  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: H2SO4  
Recovering WL: 17.44  
Duplicate Sampling: None  
Laboratory: APL  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color, etc.)

\* DO switching w/ values out of range at 10:00 AM for well flushing, out of range of 2.0-3.0; noticed a slight smell in the water and bottom of well was soft

**GROUNDWATER SAMPLE LOG**

Project Name: <u>Jefferson Proving Ground</u>	Well Identification: <u>15G-04-04Z</u>
Project Number: <u>01-1633-04-9381-310</u>	Project Location: <u>Madison, Indiana</u>
Purged by: <u>JG</u> & <u>EC</u>	Date: <u>10/23/08</u>
Sampled by: <u>JG</u> & <u>EC</u>	Date: <u>10/23/08</u>
Checked by: <u>JG</u> & <u>EC</u>	Date: <u>10/23/08</u>

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft      6" I.D., K=1.469 gal/ft  
 2" I.D., K=0.163 gal/ft      8" I.D., K=2.61 gal/ft  
 4" I.D., K=0.653 gal/ft      10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (68.64 ft) - Depth to Water (15.51 ft) = Height of water column (53.13 ft)  
 Height of water column (53.13 ft) x K value (0.103 gal/ft) = 1 Well Volume (5.466 gal)

**Purge Volume:**

1 Well Volume (5.466 gallons) x 3 = 3 Well Volumes (16.398 gallons)

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volumes

Err 3 Flashing  
on Honda  
Purged cell  
needed: adding on  
Honda running on  
w/6 reading?

Time	Temp °C	pH	Conduct mS/cm	Turbidity NTU	DO mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
08:37	11.5	6.03	0.98	10	0.05	-147	0		15.89	0.04
08:42	12.2	6.43	1.01	250	0.19	-110	20		15.85	0.04
08:47	11.8	6.69	1.07	230	0.08	-131	40		15.77	0.04
08:52	11.4	6.88	1.03	150	0.00	-137	60		15.65	0.04
08:57	11.3	6.87	1.03	120	0.00	-140	80		15.81	0.04
09:02	11.2	6.91	1.03	110	0.00	-144	1.00		15.81	0.04
09:07	11.7	6.93	1.01	87	0.00	-147	1.20		15.85	0.04
09:12	11.8	6.95	1.02	74	0.00	-151	1.40		15.88	0.04
09:17	11.9	6.98	1.02	70	0.00	-155	1.60		15.90	0.04
09:22	11.4	6.99	1.02	55	0.00	-157	1.80		15.91	0.04
09:27	11.4	6.99	1.02	36	0.00	-164	2.00		15.91	0.04
09:32	12.2	6.97	1.01	37	0.04	-169	2.20		15.93	0.04
09:37	12.8	7.00	1.01	31	0.00	-174	2.40		16.11	0.04
09:42	13.1	7.03	1.01	27	0.00	-182	2.60		16.12	0.04
10/23/08										

**PURGE INFORMATION:**

Time / Date Started: 08:37 | 10/23/08  
 Time Purge End: 09:42  
 Purge Method: Pump X Bailer \_\_\_\_\_  
 Depth to Intake: ~16.5-16.4 (ft)  
 Pump Type and ID: FG 72  
 Purge Rate: 0.04 (gpm)  
 Purged Volume: 2.00 (gal)  
 Water Quality Meter: Honda U-22  
 How was yield measured? Archimedes Cylinder  
 Was well cavitated? Yes \_\_\_\_\_ No X  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grundfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 09:46 | 10/23/08  
 Sampled by: JG & EC  
 Sample Method: Bailer \_\_\_\_\_ Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO3  
 Recovering WL: 1607  
 Duplicate Sampling: None  
 Laboratory: GL  
 CQC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Weather 10/22/08 cold, frost, ~39°F, sunny; soft bottom

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: JG & EC  
Sampled by: JG & EC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-04-052  
Project Location: Madison, Indiana  
Date: 10/5/88  
Date: 10/5/88  
Date: 10/5/88

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

top of screen at 28.01

**1 Well Volume:**

Total Depth (38.50 ft) - Depth to Water (8.53 ft) = Height of water column (30.03 ft)  
Height of water column (30.03 ft) x K value (0.163 gal/ft) = 1 Well Volume (4.89 gal)

**Purge Volume:**

1 Well Volume (4.89 gallons) x 3 = 3 Well Volumes (14.67 gallons)

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1427	19.5	6.75	0.848	5.17	2.35	-161	0		8.36	0
1432	19.8	6.55	0.895	23.7	0.00	-177	0.5		9.99	0.06
1437	18.3	6.50	0.902	25.6	0.01	-177	0.6		10.61	0.01
1442	18.9	6.53	0.902	35.7	0.00	-178	0.65		11.06	0.01
1447	17.0	6.60	0.917	39.0	0.00	-181	0.90		12.09	0.05
1452	16.6	6.62	0.923	67.4	0.00	-182	0.85		13.56	0.05
1457	16.3	6.63	0.920	10.10	0.05	-181	1.25		15.39	0.02
1502	17.9	6.61	0.901	25.0	0.00	-185	1.35		15.71	0.02
1507	18.3	6.62	0.904	35.9	0.00	-190	1.45		15.88	0.02
1512	18.9	6.63	0.911	50.1	0.00	-192	1.95		15.99	0.07
1517	19.1	6.65	0.911	47.7	0.00	-194	1.05		16.00	0.05
1522	19.2	6.66	0.925	51.3	0.00	-192	1.75		16.16	0.07
1527	19.6	6.66	0.978	49.3	0.00	-191	1.95		16.21	0.07
1532	19.9	6.66	0.943	93.8	0.00	-197	2.1		17.05	0.05
1537	17.3	6.63	0.939	8.7	0.42	-177	2.35		17.95	0.05
1542	17.8	6.62	0.929	10.7	0.15	-182	2.6		18.10	0.05
1547	18.4	6.63	0.921	13.0	0.00	-185	2.75		18.22	0.05
1552	18.6	6.63	0.925	17.2	0.00	-185	3.10		18.21	0.05
1557	18.8	6.63	0.924	21.3	0.00	-183	3.35		18.17	0.05

**PURGE INFORMATION:**

Time / Date Started: 1427 | 10/5/88  
Time Purge End: 1557  
Purge Method: Pump X Bailer \_\_\_\_\_  
Depth to Intake: ~34 (ft)  
Pump Type and ID: FUTE2  
Purge Rate: 0.01-0.05 (gpm)  
Purged Volume: 3.35 (gal)  
Water Quality Meter: Hanna U-227  
How was yield measured? gravimetric method  
Was well cavitating? Yes \_\_\_\_\_ No X  
Water containerized/Amount: \_\_\_\_\_ NA  
Gruntfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1601 | 10/5/88  
Sampled by: JG & EC  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab X Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO<sub>3</sub> & H<sub>2</sub>SO<sub>4</sub>  
Recovering WL: 27.17 RPVC  
Duplicate Sampling: none  
Laboratory: GPL  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual observations, etc.)

low clouds cloudy



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: DM/ML & EC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: SPG-04-PSD  
 Project Location: Madison, Indiana  
 Date: \_\_\_\_\_  
 Date: 10/24/98  
 Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.853 gal/ft	10" ID, K=4.08 gal/ft

1 Well Volume:  
Total Depth (134.04 ft) - Depth to Water (124.69 ft) = Height of water column (9.35 ft)  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

**Purge Volume:**  
 1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
**Purge Rate** ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
**Purge Rate** ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
JW 9 10/15/08										

Time / Date Started: \_\_\_\_\_ 1 \_\_\_\_\_  
Time Purge End: \_\_\_\_\_  
Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Trailer  
Depth to Intake: \_\_\_\_\_ (ft)  
Pump Type and ID: \_\_\_\_\_  
Purge Rate: \_\_\_\_\_ (gpm)  
Purged Volume: \_\_\_\_\_ (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured?  
Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

Time / Date Started: 1330 | 10/24/08  
 Sampled by: John H. & W.C.  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13 min vol  
 Bottle Preservatives: H2SO4 HNO3  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: None  
 Laboratory: GPR  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MAL & \_\_\_\_\_  
Sampled by: MAL & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-DU-060  
Project Location: Madison, Indiana  
Date: 10-15-08  
Date: 10-13-08  
Date: \_\_\_\_\_

Circle diameter and K used below:

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

1 Well Volume:  
Total Depth (23.46 ft) - Depth to Water (13.00 ft) = Height of water column (10.46 ft)  
Height of water column (10.46 ft) x K value (1.0 gal/ft) = 1 Well Volume (10.46 gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$

Purge Rate (            gpm) x (            min) = 3 Well Volume

Time	Temp °C	pH	Cond. mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
11:00	17.5	7.2	200	1.5	2.2	550			1.8	0.12
11:05	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:10	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:15	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:20	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:25	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:30	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:35	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:40	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:45	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:50	17.5	7.2	200	1.5	2.2	550			1.8	0.10
11:55	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:00	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:05	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:10	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:15	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:20	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:25	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:30	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:35	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:40	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:45	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:50	17.5	7.2	200	1.5	2.2	550			1.8	0.10
12:55	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:00	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:05	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:10	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:15	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:20	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:25	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:30	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:35	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:40	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:45	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:50	17.5	7.2	200	1.5	2.2	550			1.8	0.10
13:55	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:00	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:05	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:10	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:15	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:20	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:25	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:30	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:35	17.5	7.2	200	1.5	2.2	550			1.8	0.10
14:40	17.5	7.2</								

Flushed flow  
cell -

Time / Date Started: 1403 | 10-13-02  
 Time Purge End: 1443  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: ^ 21.5 (ft)  
 Pump Type and ID: Fulton Pump  
 Purge Rate: 0.10 (gpm)  
 Purged Volume: ^ 4 (gal)  
 Water Quality Meter: Hanna U-22# 16358  
 How was yield measured? Cal. and cup / 5 min  
 Was well cavitated? Yes \_\_\_\_\_ No x  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

SAFETY DATA SHEET  
Time / Date Started: 1443 | 10-13-08  
Sampled by: ML & \_\_\_\_\_  
Sample Method: Bailor \_\_\_\_\_ Other Pump  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO<sub>3</sub> H<sub>2</sub>O<sub>2</sub> none  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MDE & \_\_\_\_\_  
Sampled by: MDE & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-00-061  
 Project Location: Madison, Indiana  
 Date: 10.15.08  
 Date: 10.15.08  
 Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D.,	K=0.041 gal/ft
2" I.D.,	K=0.163 gal/ft
4" I.D.,	K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Total Depth (50.54) ft - Depth to Water (16.01) ft = Height of water column (34.53) ft  
Height of water column (34.53) ft x K value (0.0001) gal/ft = 1 Well Volume (3.453) gal

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

[illegible]

Time / Date Started: 12/2 / 10-13-08  
Time Purge End: 1:53  
Purge Method: Pump x Bailor  
Depth to Intake: 455 (ft)  
Pump Type and ID: Full pump  
Purge Rate: 4.0 (gpm)  
Purged Volume: 4 (gal)  
Water Quality Meter: Horiba U-22# 16358  
How was yield measured? Calibrated w/ 3000  
Was well cavitated? Yes No x  
Water containerized/Amount NA  
Grinfos controller set @ NA (Hertz)

Time / Date Started: 12:52 | 10-13-08  
 Sampled by: MJC & \_\_\_\_\_  
 Sample Method: Bailor \_\_\_\_\_ Other 2 mg  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, H<sub>2</sub>O<sub>2</sub>  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MIL & \_\_\_\_\_  
Sampled by: MIL & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPG-01-060  
Project Location: Madison, Indiana  
Date: 10-13-08  
Date: 10-13-08  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth (100.97 ft) - Depth to Water (72.80 ft) = Height of water column (\_\_\_\_ ft)  
Height of water column (\_\_\_\_ ft) x K value (\_\_\_\_ gal/ft) = 1 Well Volume (\_\_\_\_ gal)

5.57 gal Screen - 04' col

**Purge Volume:**

1 Well Volume (\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_ gallons)

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond µmhos/cm	Turbidity NTU	DO mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0928	13.7	6.12	36.3	5	1.04	-138			88.04	0.10
0931	13.8	6.24	38.2	5	0.80	-141			87.61	0.05
0936	14.0	6.34	39.1	10	0.82	-132			87.18	0.06
0941	14.1	6.36	38.8	10	0.34	-145			84.88	0.08
0946	14.1	6.36	38.6	10	0.22	-151			81.00	0.08
0951	14.1	6.41	38.7	10	0.16	-153			79.58	0.08
0956	14.2	6.43	38.5	10	0.17	-158			74.53	0.07
1001	14.3	6.43	51.8	10	0.13	-160			43.88	0.07
1006	14.3	6.43	38.8	10	0.12	-163			45.08	0.07
1011	14.3	6.43	38.2	10	0.10	-167			48.71	0.06
1016	14.3	6.43	38.7	10	0.09	-162			50.63	0.06
1021	14.3	6.43	38.7	10	0.09	-170			52.05	0.06
1026	14.3	6.43	38.7	10	0.13	-157	3.6		53.38	0.07
1031	14.3	6.43	39.3	10	0.08	-173			57.45	0.06
1036	14.3	6.44	38.8	10	0.08	-181			59.00	0.06
1041	14.4	6.44	38.7	10	0.08	-185			60.42	0.06
1046	14.6	6.45	38.4	10	0.05	-189			63.11	0.07
1051	14.9	6.45	38.2	10	0.05	-193			64.09	
1056	14.7	6.45	38.3	10	0.05	-197	5.7			
1101	14.8	6.46	38.2	14.3	0.04	-197				

Flushed flow cell

Flushed flow cell

**PURGE INFORMATION:**

Time / Date Started: 0926 | 10-13-08  
Time Purge End: 1101  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: 95.9 (ft)  
Pump Type and ID: Full H2 Pump  
Purge Rate: 0.06 (gpm)  
Purged Volume: 5.7 (gal)  
Water Quality Meter: Hanna U-22#  
How was yield measured? Calibrated cup (stopwatch)  
Was well cavitating? Yes \_\_\_\_\_ No x  
Water containerized/Amount \_\_\_\_\_ NA  
Grubbs controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1101 | 10-13-08  
Sampled by: MIL & \_\_\_\_\_  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: HNO3, H2O2, rose  
Recovering WL: \_\_\_\_\_  
Duplicate Sampling: \_\_\_\_\_  
Laboratory: \_\_\_\_\_  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Sulfur odor



JP 6-DU-070

Well Identification: W-01-KU-04  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 10/24/02  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

**Purge-Volume:**  
 1 Well Volume ( ) gallons) x 3 = 3 Well Volumes ( ) gallons)  
 Purge Rate ( ) gpm) x ( ) min) = 1 Well Volume  
 Purge Rate ( ) gpm) x ( ) min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O mg/l	ORP mV	Purged Quantity	Well Volume	Depth to Water	Purge Rate

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22z

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Gruntex controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1432 1 10/24/08  
 Sampled by: MLG 2 EC  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13 11m 601  
 Bottle Preservatives: H<sub>2</sub>SO<sub>4</sub> HNO<sub>3</sub>  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: None  
 Laboratory: APL  
 COC Form: \_\_\_\_\_

rearing and 4th-





Well Identification: 266-DU-072  
 Project Location: Madison, Indiana  
 Date: \_\_\_\_\_  
 Date: 10/24/02  
 Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

1 Well Volume:  
Total Depth (63.99) ft - Depth to Water (57.25) ft = Height of water column (6.74) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

**Purge Volume:**  
 1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
 Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
<i>Handwritten: JWC 10/2/03</i>										

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Honda U-22#  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 1365 | 10/24/07  
 Sampled by: ML-JG & EC  
 Sample Method: Bailer X Other \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: H<sub>2</sub>SO<sub>4</sub> - 14 NO<sub>3</sub>  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: None  
 Laboratory: QPL  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: \_\_\_\_\_ & \_\_\_\_\_  
Sampled by: MLW/b & EC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JPB-04-8 L  
Project Location: Madison, Indiana  
Date:  
Date: 10/24/08  
Date:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.183 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume: 34.80  
Total Depth (34.80 ft) - Depth to Water (34.60 ft) = Height of water column (4.20 ft)  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

Purge Volume -  
 1 Well Volume (                      gallons) x 3 = 3-Well Volumes (                      gallons)  
 Purge Rate (                      gpm) x (                      min) = 1 Well Volume  
 Purge Rate (                      gpm) x (                      min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Pump Rate
10/15/19										

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water container? Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 0754 | 10/24/08  
 Sampled by: EC & JB  
 Sample Method: Bailer X Other \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, 52504  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: AIO  
 COC Form: APL

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: 2012-BU-001  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 10/24/08  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

Total Depth (139.30 ft) - Depth to Water (138.21) = Height of water column (1.09 ft)  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

1 Well Volume ( \_\_\_\_\_ gallons)  $\times$  3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
<p>YAG</p> <p>11/2/05</p>										

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump x Bailor \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: 1.5 gpm (gpm)

Purged Volume: 11.25 gal (gal)

Water Quality Meter: Monba U-22#

How was yield measured? \_\_\_\_\_

Was well caviated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA

Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

Time / Date Started: 7310 | 10/24  
 Sampled by: EC & JB  
 Sample Method: Bailer Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 1 path  
 Bottle Preservatives: ALG  
 Recovering WL: 200  
 Duplicate Sampling: ALG  
 Laboratory: GOL  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance, etc.)  
BAILED SAMPLE  
FILED IN 100-11





Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: [Signature] & \_\_\_\_\_  
Sampled by: [Signature] & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: UJG-01-091  
Project Location: Madison, Indiana  
Date: 10-14-08  
Date: 10-28-08  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

### 5.1 Screen + BH vol

Total Depth (51.93 ft) - Depth to Water (18.59 ft) = Height of water column (33.34 ft)

Height of water column ( . . . . . ft) x K-value ( . . . . . gal/ft) = 1 Well Volume ( . . . . . gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

Purge Rate (          gpm) x (          min) = 3 Well Volume

[illegible]

Time / Date Started: 1249 10-14-08

Time Purge End: 135

Purge Method: Pump	x	Bailer
--------------------	---	--------

Depth to Intake: 249.9 (ft)

Pump Type and ID: Fu/2 pump

Purge Rate: 0.06 (gpm)

Purged Volume: 1.4 (gal)

Water Quality Meter: Honba U-22# 16353

How was yield measured? Calibrated cup / scale

Was well cavitated? Yes X No     

Water containerized/Amount	NA
----------------------------	----

Grunfos controller set @ NA (Hertz)

Time / Date Started: 0940 1 10.37.08

Sampled by: [Signature] & [Signature]

Sample Method: Bailer Other Pump

Grab      x      Composite

# of Bottles Collected: 15

Bottle Preservatives: NiO<sub>2</sub>, H<sub>2</sub>SO<sub>4</sub>, none

Recovering WL: 21.47

Duplicate Sampling: \_\_\_\_\_

Laboratory: \_\_\_\_\_

COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

As of 1354, not enough water remaining in well to fill bottles. Had well dry internally.





**GROUNDWATER SAMPLE LOG**

Project Name:	Jefferson Proving Ground	Well Identification:	JPG-DU-100
Project Number:	01-1633-04-9381-310	Project Location:	Madison, Indiana
Purged by:	MJL &	Date:	10-25-08
Sampled by:	MJL &	Date:	10-25-08
Checked by:	MJL &	Date:	

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

1 Well Volume:  
Total Depth (90.93 ft) - Depth to Water (38.20 ft) = Height of water column (52.73 ft)  
Height of water column (52.73 ft) x K value (0.653 gal/ft) = 1 Well Volume (34.43 gal)

5.25 screen + 04 col

Purge Volume:  
1 Well Volume (34.43 gallons) x 3 = 3 Well Volumes (103.29 gallons)  
Purge Rate (gpm) x (min) = 1 Well Volume  
Purge Rate (gpm) x (min) = 3 Well Volumes

Time	Temp °C	pH	Cond. mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
10:00	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:01	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:02	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:03	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:04	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:05	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:06	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:07	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:08	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:09	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:10	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:11	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:12	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:13	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:14	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:15	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:16	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:17	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:18	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:19	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:20	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:21	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:22	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:23	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:24	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:25	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:26	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:27	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:28	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:29	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:30	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:31	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:32	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:33	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:34	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:35	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:36	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:37	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:38	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:39	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:40	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:41	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:42	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:43	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:44	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:45	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:46	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:47	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:48	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:49	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:50	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:51	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:52	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:53	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:54	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:55	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:56	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:57	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:58	14.5	7.2	100	0.1	0.0	250			40.0	0.00
10:59	14.5	7.2	100	0.1	0.0	250			40.0	0.00
11:00	14.5	7.2	100	0.1	0.0	250			40.0	0.00

**PURGE INFORMATION:**

Time / Date Started: 1345 | 10-25-08  
Time Purge End: 1530  
Purge Method: Pump x Bailer  
Depth to Intake: 38.9 (ft)  
Pump Type and ID: F.H. 2.0  
Purge Rate: 0.05 (gpm)  
Purged Volume: 5.3 (gal)  
Water Quality Meter: Honda U-22# 1650  
How was yield measured? Calculated cup / stopwatch  
Was well cavitating? Yes No x  
Water containerized/Amount NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1530 | 10-25-08  
Sampled by: MJL &  
Sample Method: Bailer Other Pump  
Grab x Composite  
# of Bottles Collected: 13  
Bottle Preservatives: HNO3, H2SO4, none  
Recovering WL:  
Duplicate Sampling:  
Laboratory:  
COC Form:

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
Sulfur odor



# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO:

SAMPLE ID NUMBER: JP-D-01/JP-W-24

DATE COLLECTED (MM/DD/YY): 10-8-08

TIME: 1100 / 1105

SAMPLING LOCATION CODE: BC-CA-03

DESCRIPTION: Cave sample on N bank Big Creek

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 70°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: No flow at cave. Collected water from Big Creek where  
cave flow would enter creek. Big Creek has no flow.  
Silly sediment collected on W side of cave mouth. Dry

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>10.80</u>	<u>cpm</u>		
TEMPERATURE:	<u>15.8</u>	<u>°C</u>		
pH:	<u>5.98</u>	<u>SU</u>		
CONDUCTIVITY:	<u>0.398</u>	<u>ms/cm</u>		
REDOX:	<u>363</u>	<u>mV</u>		
DO:	<u>7.73</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>0.9</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>8</u>	<u>µM</u>		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: \_\_\_\_\_

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-0.02

DATE COLLECTED (MM/DD/YY): 10-21-08

TIME: 1130

1150

SAMPLING LOCATION CODE: BC-CA-06

DESCRIPTION: W imperv area cave, S side of R

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 45°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: No flow at cave. Pooled water where cave flow enters stream. Sampled last quarter w/dry. Pooled water ~ 100' downstream of cave mouth. Will collect sample then confirm w/ TDE if it will be submitted. \* Water sample will not be submitted per TDE. Collected dry silty sed on ledge just inside cave mouth.

Background: 50 cpm

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>72</u>	cpm		
TEMPERATURE:	<u>11.3</u>	°C		
pH:	<u>6.26</u>	S.U.		
CONDUCTIVITY:	<u>0.408</u>	ns/cm		
REDOX:	<u>207</u>	mV		
DO:	<u>3.23</u>	mg/L		
ORGANIC VAPORS:	<u>NM</u>	NM		
TURBIDITY:	<u>2.3</u>	NTU		
OTHER <u>base</u> :	<u>6</u>	uM		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. [Signature]  
 (Signature)

QC Checked By: \_\_\_\_\_  
 (Signature)

SAMPLE LOG SHEET																																																			
PROJECT NAME: <u>JRG</u>	PROJECT NO: _____																																																		
SAMPLE ID NUMBER: <u>8-W-27/JR-0-03</u> DATE COLLECTED (MM/DD/YY): <u>10-9-08</u> TIME: <u>1015/1035</u>																																																			
SAMPLING LOCATION CODE: <u>BC-CA-09A</u> DESCRIPTION: <u>Cave draining D11 area</u>																																																			
SAMPLING POINT CODE: _____ DESCRIPTION: _____																																																			
NORTHING: _____ EASTING: _____ ELEVATION: _____																																																			
SAMPLE DEPTH CODE: _____ TO _____ BLS SAMPLE MEDIA CODE: _____ DESCRIPTION: _____																																																			
WEATHER: <u>Sunny JSPF</u> ACTIVITIES IN AREA: _____ FIELD OBSERVATIONS: <u>Cave has no flow. Collected water where cave flow would enter Big Creek</u> <u>Sand, silt collected off shelf where cave flow go under tree roots. Moist sed</u>																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">FIELD MEASUREMENTS</th> <th style="width: 15%;">READING</th> <th style="width: 15%;">UNITS</th> <th style="width: 20%;">SERIAL NO.</th> <th style="width: 35%;">LAST CALIB.</th> </tr> </thead> <tbody> <tr> <td>RADIOACTIVITY:</td> <td><u>30-80</u></td> <td><u>cpm</u></td> <td></td> <td></td> </tr> <tr> <td>TEMPERATURE:</td> <td><u>12.4</u></td> <td><u>°C</u></td> <td></td> <td></td> </tr> <tr> <td>pH:</td> <td><u>6.02</u></td> <td><u>50</u></td> <td></td> <td></td> </tr> <tr> <td>CONDUCTIVITY:</td> <td><u>0.384</u></td> <td><u>ns/cm</u></td> <td></td> <td></td> </tr> <tr> <td>REDOX:</td> <td><u>238</u></td> <td><u>mV</u></td> <td></td> <td></td> </tr> <tr> <td>DO:</td> <td><u>4.26</u></td> <td><u>mg/L</u></td> <td></td> <td></td> </tr> <tr> <td>ORGANIC VAPORS:</td> <td><u>157</u></td> <td><u>µM</u></td> <td></td> <td></td> </tr> <tr> <td>TURBIDITY:</td> <td><u>1.1</u></td> <td><u>NTU</u></td> <td></td> <td></td> </tr> <tr> <td>OTHER <u>dose</u>:</td> <td><u>7.2</u></td> <td><u>µM</u></td> <td></td> <td></td> </tr> </tbody> </table>		FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.	RADIOACTIVITY:	<u>30-80</u>	<u>cpm</u>			TEMPERATURE:	<u>12.4</u>	<u>°C</u>			pH:	<u>6.02</u>	<u>50</u>			CONDUCTIVITY:	<u>0.384</u>	<u>ns/cm</u>			REDOX:	<u>238</u>	<u>mV</u>			DO:	<u>4.26</u>	<u>mg/L</u>			ORGANIC VAPORS:	<u>157</u>	<u>µM</u>			TURBIDITY:	<u>1.1</u>	<u>NTU</u>			OTHER <u>dose</u> :	<u>7.2</u>	<u>µM</u>		
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DO:	<u>4.26</u>	<u>mg/L</u>																																																	
ORGANIC VAPORS:	<u>157</u>	<u>µM</u>																																																	
TURBIDITY:	<u>1.1</u>	<u>NTU</u>																																																	
OTHER <u>dose</u> :	<u>7.2</u>	<u>µM</u>																																																	
SAMPLE TYPE: <input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SPATIAL COMPOSITE <input type="checkbox"/> TIME COMPOSITE <input type="checkbox"/> QC TRIP BLANK <input type="checkbox"/> QC RINSATE <input type="checkbox"/> QC FIELD BLANK <input type="checkbox"/> OTHER (SPECIFY) _____																																																			
SAMPLE COLLECTED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO    SAP SAMPLING PROCEDURE WAS FOLLOWED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY: _____ _____ _____																																																			
Recorded By: <u>Mick Jorg</u> QC Checked By: _____ (Signature)      (Signature)																																																			

**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-04 DATE COLLECTED (MM/DD/YY): 10-21-08  
JP-D-04 TIME: 1000 OUP & water  
1005 MS/MSD

SAMPLING LOCATION CODE: BC-SD-03  
 DESCRIPTION: Sed/SD location S side BC mid way DD impact area

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 48°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Water pooled at location. No flow. A lot of test  
debris. Water sample collected from pooled water OUP of water  
Collected to go seeds w/ trace in sand. wet. Downstream of tree stump on  
S bank. MS/MSD of seeds

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:				
TEMPERATURE:	<u>9.3</u>	<u>°C</u>		
pH:	<u>5.95</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.393</u>	<u>ms/cm</u>		
REDOX:	<u>200</u>	<u>mV</u>		
DO:	<u>4.01</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>4.4</u>	<u>NTU</u>		
OTHER <u>DOSE</u> :	<u>6</u>	<u>uR</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt [Signature] QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO:

SAMPLE ID NUMBER: JP-D-05  
JP-W-05

DATE COLLECTED (MM/DD/YY): 10-21-08  
TIME: 1350  
1340

SAMPLING LOCATION CODE: BC-TB-02

DESCRIPTION: Trib draining from Oil impact area to S side of Big Creek

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 50°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: No flow at trib. Pooled water ~ 10' upstream of trib at same location as last quarter. Collected sample at pool. A lot of leaf debris.

Collected 1/2 g rocks, some V in sand on W bank of trib at tree stump upstream side West.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:				
TEMPERATURE:	<u>10.7</u>	<u>°C</u>		
pH:	<u>6.70</u>	<u>pH</u>		
CONDUCTIVITY:	<u>0.538</u>	<u>mS/cm</u>		
REDOX:	<u>218</u>	<u>mV</u>		
DO:	<u>6.51</u>	<u>mg/l</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>4.1</u>	<u>NTU</u>		
OTHER <u>Dose</u> :	<u>7</u>	<u>uM</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: \_\_\_\_\_ QC Checked By: \_\_\_\_\_  
(Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-D-06  
JP-W-26

DATE COLLECTED (MM/DD/YY): 10-20-08  
TIME: 1435  
1430

SAMPLING LOCATION CODE: BC-CA-07

DESCRIPTION: DV impact area cave, S side BC

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ : \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny, 50°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: No flow at cave. Water collected where cave flow would enter big creek. Creek has no flow.

Sandy soils w/ gravel. Little fines collected just inside cave mouth on E. Wet.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:				
TEMPERATURE:	<u>11.2</u>	<u>°C</u>		
pH:	<u>6.91</u>	<u>S.U</u>		
CONDUCTIVITY:	<u>0.405</u>	<u>MS/cm</u>		
REDOX:	<u>178</u>	<u>mV</u>		
DO:	<u>2.40</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>0.0</u>	<u>NTU</u>		
OTHER <u>base</u> :	<u>6</u>	<u>uR</u>		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY.

Recorded By: Maddy Jay

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-07  
JP-D-07

DATE COLLECTED (MM/DD/YY): 10-12-08  
TIME: 1410/1435

SAMPLING LOCATION CODE: BC-SO-08  
DESCRIPTION: Downstream of JPG boundary

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ : \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 80°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: No flow at location. Collected water on W side of bridge at Amazon W-Perimeter and Big Creek  
Collected U.S. Soil-SHA ~ 30' upstream of bridge at W Perimeter and Big Creek on N bank

Bkld: 44-9-C is 29cpm

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>30</u>	<u>cpm</u>		
TEMPERATURE:	<u>23.8</u>	<u>°C</u>		
pH:	<u>6.57</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.379</u>	<u>ms/cm</u>		
REDOX:	<u>270</u>	<u>mV</u>		
DO:	<u>8.18</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>0.0</u>	<u>NTU</u>		
OTHER <u>DO</u> :	<u>8</u>	<u>mg/L</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. Kelly  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: UPC

PROJECT NO:

SAMPLE ID NUMBER: UPC-22 / JP-D-08 DATE COLLECTED (MM/DD/YY): 10-9-08  
TIME: 1420 / 1435

SAMPLING LOCATION CODE: BC-SE-04  
DESCRIPTION: Groundwater seep, N bank BC

DUP of seep  
SAC 110

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ : \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 70°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Seep dry. Water sample collected in pooled water at  
BC ~ 10' S of seep. Creek is pooled, no flow  
Collected seeps at mouth of seep. Seeps are in gr, moist-saturated

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>20-80</u>	<u>CPR</u>		
TEMPERATURE:	<u>16.9</u>	<u>°C</u>		
pH:	<u>6.46</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.354</u>	<u>ms/cm</u>		
REDOX:	<u>267</u>	<u>mV</u>		
DO:	<u>6.10</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>74</u>	<u>NIT</u>		
OTHER <u>dose</u> :	<u>6.8</u>	<u>unit</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)



# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JPG-09 / JP-09 DATE COLLECTED (MM/DD/YY): 10-8-08  
TIME: 1210 / 1245

SAMPLING LOCATION CODE: JPG-BC-11  
DESCRIPTION: Weir core, N side of Big Creek

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Rain 70°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Pooled water behind weir. No flow over weir. A lot of leaf debris at bottom of weir.  
Fine gr. saturated sediment on N side of core mouth.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>20-80</u>	<u>cpm</u>		
TEMPERATURE:	<u>16.0</u>	<u>°C</u>		
pH:	<u>6.31</u>	<u>SU</u>		
CONDUCTIVITY:	<u>0.411</u>	<u>ms/cm</u>		
REDOX:	<u>265</u>	<u>mV</u>		
DO:	<u>6.01</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>11.4</u>	<u>NTU</u>		
OTHER <u>dece</u> :	<u>6-8</u>	<u>µR</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt J. J.  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: JRG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JRG-10

DATE COLLECTED (MM/DD/YY): 10-21-08

TIME: 1250  
Out of site

SAMPLING LOCATION CODE: JRG-DU-12

DESCRIPTION: DU impound area cave N bank of Big Creek

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 45°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: No flow at cave, no water behind well. No water sample will be collected per TDE.

Collected wet sandy sed. where cave flow exits cave mouth. Collected 100 g sed.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>57</u>	<u>cpm</u>		
TEMPERATURE:				
pH:				
CONDUCTIVITY:				
REDOX:				
DO:				
ORGANIC VAPORS:				
TURBIDITY:				
OTHER <u>dose</u> :	<u>6</u>	<u>uL</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☒ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

No water

Recorded By: \_\_\_\_\_

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JPW-11/JP-0-11

DATE COLLECTED (MM/DD/YY): 10-8-08  
TIME: 1410/1440

SAMPLING LOCATION CODE: BC-SD-07

DESCRIPTION: Downstream of OW area, below Wilson Dam

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 70°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Water pooled from Wilson dam to below sampling point.

Bedrock covered w/ algae.

Sed are med. to sand w/ some gravel.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>20-80</u>	<u>cpm</u>		
TEMPERATURE:	<u>17.9</u>	<u>°C</u>		
pH:	<u>6.99</u>	<u>SD</u>		
CONDUCTIVITY:	<u>0.261</u>	<u>ns/cm</u>		
REDOX:	<u>252</u>	<u>mV</u>		
DO:	<u>8.19</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>4.1</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>5-7</u>	<u>uB</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: .

PROJECT NO:

SAMPLE ID NUMBER: 18W-121-08-0-12

DATE COLLECTED (MM/DD/YY): 10-9-08

TIME: 1135/1135

SAMPLING LOCATION CODE: BC-50-06

DESCRIPTION: Stream bed sample on horseshoe bend

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 60°F ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Water pooled at location. No flow.

Silt w/ some very fine sand collected downstream of tree on bank forming current break. Seds saturated

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>210.80</u>	<u>cpm</u>		
TEMPERATURE:	<u>13.6</u>	<u>°C</u>		
pH:	<u>6.35</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.386</u>	<u>ms/cm</u>		
REDOX:	<u>165</u>	<u>mV</u>		
DO:	<u>4.03</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>3.5</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>7.9</u>	<u>uM</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. Kelly  
 (Signature)

QC Checked By: \_\_\_\_\_  
 (Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPB

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-13/JP-D-13 DATE COLLECTED (MM/DD/YY): 10-10-08  
TIME: 0910/0930

SAMPLING LOCATION CODE: BC-SD-09  
DESCRIPTION: Upstream sample of DU impact area

DUP of water  
SAC 110/107

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 50°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Water pooled at location, no flow Collected DUP of water  
Seds are in gr, saturated.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>20.80</u>	<u>cpm</u>		
TEMPERATURE:	<u>12.1</u>	<u>°C</u>		
pH:	<u>5.95</u>	<u>SI</u>		
CONDUCTIVITY:	<u>0.291</u>	<u>ms/cm</u>		
REDOX:	<u>180</u>	<u>mv</u>		
DO:	<u>7.83</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>17.9</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>7.9</u>	<u>µg</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Mable J. [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

SAMPLE LOG SHEET	
PROJECT NAME: <u>UPG</u>	PROJECT NO: _____

SAMPLE ID NUMBER: JP-D-14      DATE COLLECTED (MM/DD/YY): 10-20-08  
JP-W-21      TIME: 1325  
1315

SAMPLING LOCATION CODE: RC-TD-04  
 DESCRIPTION: Trib draining from N to Big Creek

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 45°F      ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: No flow at trib. Collected water ~ 30' downstream  
of where trib flow would enter creek. Water pooled. A lot of test debris  
Went to sand collected on W bank of trib, dry

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:				
TEMPERATURE:	<u>10.4</u>	<u>°C</u>		
pH:	<u>6.65</u>	<u>SD</u>		
CONDUCTIVITY:	<u>0.425</u>	<u>MS/cm</u>		
REDOX:	<u>149</u>	<u>mV</u>		
DO:	<u>6.41</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>0.0</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>7</u>	<u>uR</u>		

SAMPLE TYPE: ☒ GRAB      ☐ SPATIAL COMPOSITE      ☐ TIME COMPOSITE  
☐ QC TRIP BLANK      ☐ QC RINSATE      ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO      SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt J. [Signature]      QC Checked By: \_\_\_\_\_  
 (Signature)      (Signature)

# SAMPLE LOG SHEET

PROJECT NAME: .

PROJECT NO:

SAMPLE ID NUMBER: JP-W-15  
JP-D-15

DATE COLLECTED (MM/DD/YY): 10-12-08  
TIME: 1545  
1545

SAMPLING LOCATION CODE: TBC-SD-01

DESCRIPTION: Downstream of DU area at Northern Trib

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ : \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 80°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: No flow. Pooled water downstream of culvert at  
staff gauge. Sample pooled water  
Collected dry silt on E bank downstream of staff gauge, Morgan and  
E. Road

44-A-C Bk, L-3 152 cpm

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>57</u>	<u>cpm</u>		
TEMPERATURE:	<u>21.6</u>	<u>°C</u>		
pH:	<u>6.82</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.366</u>	<u>ms/cm</u>		
REDOX:	<u>278</u>	<u>mV</u>		
DO:	<u>6.81</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>0.00</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>7</u>	<u>uM</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-D-16

DATE COLLECTED (MM/DD/YY): 10-21-02

TIME: 0840

SAMPLING LOCATION CODE: TBC-SD-08

DESCRIPTION: Upstream of DV impact on Northern Trib

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ : \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 40°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Trib is dry from camp loc to N boundary of DV area.

No water sample.

Sed is dry silt w/ some root material.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	37	ICM		
TEMPERATURE:				
pH:				
CONDUCTIVITY:				
REDOX:				
DO:				
ORGANIC VAPORS:				
TURBIDITY:				
OTHER <u>dose</u> :	6	uF		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY: \_\_\_\_\_

Recorded By: \_\_\_\_\_

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)



PROJECT NAME: JRG

SAMPLE ID NUMBER: SP-0-17 DATE COLLECTED (MM/DD/YY): 10-10-08  
TIME: 1536

SAMPLING LOCATION CODE: MF-SD-01

DESCRIPTION: Upstream sample of ON area.

SAMPLING POINT CODE:

### DESCRIPTION

NORTHING:                      EASTING:                      ELEVATION:

SAMPLE DEPTH CODE: : TO BLS

SAMPLE MEDIA CODE:		DESCRIPTION:	
--------------------	--	--------------	--

WEATHER: Sunny 75°F ACTIVITIES IN AREA:

FIELD OBSERVATIONS: No water sample Creek dry ~ 100 yards upstream  
of location. Creek bed hard, a lot of chest high vegetation.  
Silty dry sediment collected ~~cells~~ at usual location

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	20-80	cpm		
TEMPERATURE:				
pH:				
CONDUCTIVITY:				
REDOX:				
DO:				
ORGANIC VAPORS:				
TURBIDITY:				
OTHER <i>dose</i> :	8-10	μp		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

No water sample. Collected sediment

Recorded By: M. A. J. S.  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W-28 / JP-D-18 DATE COLLECTED (MM/DD/YY): 10/10/08  
TIME: 1315/1335

SAMPLING LOCATION CODE: MF-SD-061  
DESCRIPTION: Downstream of Mill

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 60°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Location dry. Must go 40' downstream to area w/  
pooled water to collect water sample  
Soil collected at normal location. Sandy silt, moist. Area is vegetated

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>20.80</u>	<u>cpm</u>		
TEMPERATURE:	<u>16.9</u>	<u>°C</u>		
pH:	<u>6.41</u>	<u>S.U.</u>		
CONDUCTIVITY:	<u>0.269</u>	<u>ms/cm</u>		
REDOX:	<u>317</u>	<u>mV</u>		
DO:	<u>7.13</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>2.5</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>6.8</u>	<u>uH</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt J. J. QC Checked By: \_\_\_\_\_  
(Signature) (Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: MFSD-09 DATE COLLECTED (MM/DD/YY): 10-12-08  
JPW-19 / JP-D-19 TIME: 12:15 / 12:25  
MS/MSD of water

SAMPLING LOCATION CODE: MFSD-09  
 DESCRIPTION: Middle fork leaving JPG

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 70°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: No flow at location. Water collected on W side of  
bridge on W Perimeter and middle fork. Collected MS/MSD of water.  
Collected silty solids on W bank of creek, ~ 40' upstream of bridge  
on W Perimeter and Middle fork.

Back ground = 87 cpm

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>30</u>	<u>cpm</u>		
TEMPERATURE:	<u>17.2</u>	<u>°C</u>		
pH:	<u>6.08</u>	<u>SU</u>		
CONDUCTIVITY:	<u>0.453</u>	<u>ms/cm</u>		
REDOX:	<u>321</u>	<u>mV</u>		
DO:	<u>6.00</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>NM</u>	<u>NM</u>		
TURBIDITY:	<u>0.0</u>	<u>NTU</u>		
OTHER <u>DOX</u> :	<u>7</u>	<u>µM</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt J. Jorg QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPC

PROJECT NO:

SAMPLE ID NUMBER: JPD-20  
JW-23

DATE COLLECTED (MM/DD/YY): 10-20-08  
TIME: 1030  
1058

SAMPLING LOCATION CODE: MF-CA-01

DESCRIPTION: Cave location on Middle Fork

SAMPLING POINT CODE:

DESCRIPTION

NORTHING:

EASTING:

ELEVATION:

SAMPLE DEPTH CODE:

TO

BLS

SAMPLE MEDIA CODE:

DESCRIPTION:

WEATHER: Sunny 40°F

ACTIVITIES IN AREA:

FIELD OBSERVATIONS: No flow at cave. Sediment dry. Collected sediments north of cave on West. Sds med. in sand. Collected water sample where cave flow would enter Middle Fork. Water pooled, a lot of leaf debris ~ 75' downstream of cave mouth.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	57	cpm		
TEMPERATURE:	8.1	°C		
pH:	6.11	S.U.		
CONDUCTIVITY:	0.504	MS/cm		
REDOX:	89	mb		
DO:	8.79	mg/L		
ORGANIC VAPORS:	NM	NM		
TURBIDITY:	0.0	NTU		
OTHER <u>dose</u> :	6	unk		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY)

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By:

*Molly Jorg*  
(Signature)

QC Checked By:

(Signature)

**GROUNDWATER SAMPLE LOG**

Page 1 of 2

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SF & TC  
Sampled by: SF & TC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-1  
Project Location: Madison, Indiana  
Date: 2/3/99  
Date: 2/8/99  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume:  
Total Depth (35.03 ft) - Depth to Water (9.95 ft) = Height of water column (25.08 ft)  
Height of water column (25.08 ft) x K value (0.163 gal/ft) = 1 Well Volume (4.088 gal)

Top of screen =  
w. 13 feet

Purge Volume:  
1 Well Volume (4.088 gallons) x 3 = 3 Well Volumes (12.26 gallons)  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1256	9.88	7.45	0.668	9.1	7.20	+241	—		10.41	0.035
1301	9.17	7.33	0.795	7.3	5.22	+225	0.175		11.71	0.035
1306	9.39	7.36	0.798	6.7	5.48	+199	0.35		12.61	0.035
1311	7.09	7.41	0.797	6.8	6.30	+183	0.525		12.95	0.035
1316	6.18	7.40	0.799	8.6	6.70	165	0.70		13.42	0.035
1321	7.21	7.37	0.740	8.6	6.61	145	0.875		14.15	0.035
1326	7.25	7.40	0.739	8.5	6.85	134	1.05		14.74	0.035
1331	6.87	7.41	0.760	8.9	6.94	133	1.225		15.03	0.035
1336	6.94	7.40	0.733	8.7	6.74	128	1.40		15.64	0.035
1341	6.01	7.40	0.746	8.5	6.86	123	1.575		15.97	0.035
1346	9.73	7.38	0.657	10.7	7.96	113	1.75		17.41	0.035
1351	10.70	7.41	0.746	8.6	7.78	121	1.925		19.63	0.035
1356	9.74	7.42	0.722	6.1	7.61	127	2.10		20.44	0.035
1401	8.08	7.43	0.725	7.6	7.69	126	2.275		21.29	0.035
1406	7.35	7.42	0.702	8.0	7.31	121	2.45		21.75	0.035
1411	6.62	7.43	0.729	8.6	7.55	121	2.625		21.98	0.035
1416	6.66	7.42	0.730	9.8	7.15	122	2.80		22.31	0.035
1421	6.27	7.41	0.702	10.1	6.83	118	2.975		22.98	0.035
1426	6.02	7.41	0.705	10.0	6.81	116	3.15		23.31	0.035
1431	11.72	7.37	0.659	10.8	8.01	104	3.325		24.41	0.035
1436	12.26	7.42	0.696	5.7	7.93	113	3.50		25.22	0.035
1441	10.06	7.44	0.722	5.8	8.13	120	3.675		25.94	0.035
1446	8.45	7.45	0.723	7.5	7.91	121	3.85		29.21	0.035
1451	6.68	7.45	0.729	8.9	7.79	120	4.025		29.55	0.035
1456	8.04	7.42	0.687	9.5	7.25	112	4.20		30.19	0.035

**PURGE INFORMATION:**

Time / Date Started: 1256 | 2/3/99  
Time Purge End: 1513 | 2/3/99  
Purge Method: Pump x Bailer  
Depth to Intake: ~ 34 (ft) BTL  
Pump Type and ID: Fulla pump  
Purge Rate: 0.035 (gpm)  
Purged Volume: 4.725 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Graduated Cylinder  
Was well cavitating? Yes ☒ No ☐  
Water containerized/Amount: NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1225 | 2/8/99  
Sampled by: SF & TC  
Sample Method: Bailer  
Grab x Composite  
# of Bottles Collected: 13  
Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
Recovering WL: 23 feet BTL  
Duplicate Sampling: No  
Laboratory: GFL Mng Lab  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Well went dry on 2/3/99 after 2.5 hours of purging

Project Name:	Jefferson Proving Ground	Well Identification:	MW-1
Project Number:	01-1633-04-9381-310	Project Location:	Madison, Indiana
Purged by:	SF & TC	Date:	2/3/99
Sampled by:	SP & RL	Date:	2/8/99
Checked by:	&	Date:	

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

1 Well Volume: Total Depth (35.43 ft) - Depth to Water (9.95 ft) = Height of water column (25.48 ft)  
Height of water column (25.48 ft) x K value (0.163 gal/ft) = 1 Well Volume (4.16 gal)

**Purge Volume:**  
1 Well Volume ( 4.088 gallons) x 3 = 3 Well Volumes ( 12.26 gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate ( } \quad \text{ gpm) } \times ( \quad \text{ min) } = 3 \text{ Well Volume}$$

zhno

Time / Date Started: 1256 1 2/3/09  
 Time Purge End: 1513 2/3/09  
 Purge Method: Pump x Bailor  
 Depth to Intake: ~ 34 (ft) 13702  
 Pump Type and ID: Fultz pump  
 Purge Rate: 0.435 (gpm)  
 Purged Volume: 4.725 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Graduated Cylinder  
 Was well cavitated? Yes X No       
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

Time / Date Started: 1225 | 2/8/03  
 Sampled by: SF & TC  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 23 feet BPVC  
 Duplicate Sampling: No  
 Laboratory: GL Analytical  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Well went dry on 2/3/45 after 245 hours of pumping.

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-8381-310  
Purged by: SF & TL  
Sampled by: SF & TL  
Checked by: &

Well Identification: MW-2  
Project Location: Madison, Indiana  
Date: 2/8/09  
Date: 2/19/09  
Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of well screen =  
15.94 ft BPLC

**1 Well Volume:**

Total Depth (22.9 ft) - Depth to Water (10.27 ft) = Height of water column (12.63 ft)  
Height of water column (12.63 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.06 gal)

**Purge Volume:**

1 Well Volume (2.06 gallons) x 3 = 3 Well Volumes (6.18 gallons)

Purge Rate (gpm) x (min) = 1 Well Volume

Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1330	13.30	6.56	0.832	60.5	8.30	274	—		10.85	0.03
1335	13.30	6.99	0.810	67.6	5.12	265	0.15		12.14	0.03
1340	12.84	7.08	0.807	50.0	4.58	263	0.30		12.56	0.03
1345	12.64	7.14	0.806	36.5	4.46	254	0.45		12.89	0.03
1350	12.87	7.16	0.793	34.9	4.47	245	0.60		13.25	0.03
1355	12.86	7.18	0.793	42.2	4.45	232	0.75		13.41	0.03
1400	13.12	7.19	0.783	32.1	4.63	225	0.90		14.31	0.03
1405	13.34	7.26	0.776	30.8	4.62	208	1.05		14.81	0.03
1410	13.35	7.21	0.776	30.2	4.64	205	1.20		14.91	0.03
1415	13.42	7.21	0.776	32.0	4.66	204	1.35		14.96	0.03
1420	13.57	7.22	0.774	28.5	4.59	202	1.50		15.06	0.03
1425	13.96	7.22	0.764	20.0	4.42	193	1.65		15.56	0.03
1430	14.00	7.22	0.761	19.1	4.11	178	1.80		15.91	0.03
1435	13.83	7.22	0.763	18.1	4.01	173	1.95		16.09	0.03
1440	13.79	7.23	0.765	17.2	3.87	169	2.10		16.16	0.03
1445	13.81	7.22	0.766	16.0	3.59	166	2.25		16.19	0.03
1450	13.81	7.21	0.769	10.1	3.32	161	2.40		16.17	0.03
1455	13.84	7.22	0.772	8.6	3.07	156	2.55		16.16	0.03
1500	13.99	7.22	0.770	8.5	2.64	151	2.70		16.53	0.03
1505	13.99	7.22	0.772	8.5	2.29	147	2.85		16.72	0.03
1510	13.98	7.22	0.783	6.3	2.05	137	3.00		16.82	0.03
1515	13.86	7.21	0.787	6.8	1.88	129	3.20		17.02	0.03
1520	13.98	7.22	0.784	6.4	1.64	113	3.40		18.49	0.04
1525	13.87	7.23	0.789	7.5	1.59	112	3.60		19.23	0.04
1530	13.93	7.24	0.782	7.0	1.59	109	3.80		19.82	0.04

**PURGE INFORMATION:**

Time / Date Started: 1330 | 2/8/09  
Time Purge End: 1535 | 2/8/09  
Purge Method: Pump  
Depth to Intake: ~21.9 (ft)  
Pump Type and ID: FJH2  
Purge Rate: 0.03 - 0.04 (gpm)  
Purged Volume: 4 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Graduated Cylinder  
Was well cavitated? Yes X No  
Water containerized/Amount NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1502 | 2/9/09  
Sampled by: TL & SP  
Sample Method: Bailer  
Grab X Composite  
# of Bottles Collected: 13  
Bottle Preservatives: None, HNO3, H2SO4  
Recovering WL: 16.1 feet BPLC  
Duplicate Sampling: No  
Laboratory: GRL Maryland  
COC Form:

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

well went dry on 2/8/09 after purging 2 hours



Well Identification: MW-2  
Project Location: Madison, Indiana  
Date: 2/8/09  
Date: 2/9/09  
Date:

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

SAINT LINDA NW CHINA RIVER

Time / Date Started: 1542 | 2/9/84

Sampled by: TL & SE

Sample Method: Bailor Other Pump

Grab x Composite

# of Bottles Collected: 13

Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>

Recovering WL: 16.1 feet depth

Duplicate Sampling: no

Laboratory: 60L Maryland

COC Form:

Well went dry on 2/8/49 after purging 2 hours



### GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SF & TC  
Sampled by: SF & TC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-3  
Project Location: Madison, Indiana  
Date: 2/6/09  
Date: 2/6/09  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen =  
35.48 feet BVC  
Min Vol = 2.65 gal

1 Well Volume:  
Total Depth (45.48 ft) - Depth to Water (11.96 ft) = Height of water column (33.52 ft)  
Height of water column (33.52 ft) x K value (0.163 gal/ft) = 1 Well Volume (5.46 gal)  
Purge Volume:  
1 Well Volume (5.46 gallons) x 3 = 3 Well Volumes (16.38 gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1300	13.53	7.38	0.649	15.9	2.02	110	—		12.28	0.03
1305	12.69	7.39	0.604	16.0	2.78	82	0.15		13.42	0.03
1310	12.31	7.41	0.577	12.3	3.50	92	0.30		13.89	0.03
1315	11.85	7.40	0.575	10.7	3.78	102	0.45		14.08	0.03
1320	11.62	7.41	0.552	96.1	3.83	106	0.60		14.57	0.03
1325	12.33	7.41	0.539	73.9	3.92	93	0.75		15.15	0.03
1330	12.30	7.41	0.536	68.1	3.96	97	0.90		15.53	0.03
1335	12.25	7.41	0.538	60.8	3.97	97	1.05		15.89	0.03
1340	12.31	7.41	0.538	58.5	3.83	96	1.20		16.12	0.03
1345	12.25	7.41	0.542	55.8	3.77	95	1.35		16.40	0.03
1350	12.41	7.41	0.540	56.0	3.78	94	1.50		16.64	0.03
1355	12.65	7.39	0.546	54.7	3.62	88	1.65		16.99	0.03
1400	12.71	7.39	0.559	50.1	3.40	87	1.80		17.14	0.03
1405	12.61	7.39	0.565	50.2	3.39	79	1.95		17.47	0.03
1410	12.82	7.37	0.572	44.6	3.21	76	2.10		17.86	0.03
1415	13.09	7.37	0.575	46.2	3.24	73	2.25		18.31	0.03
1420	14.06	7.38	0.561	47.7	3.55	76	2.40		20.62	0.03
1425	13.37	7.38	0.571	48.0	3.44	87	2.55		20.65	0.03
1430	13.12	7.30	0.585	43.0	2.95	84	2.70		20.65	0.03
1435	12.98	7.34	0.600	32.5	2.45	71	2.85		20.60	0.03
1440	12.89	7.33	0.622	28.8	2.23	66	3.00		20.37	0.03
1445	13.07	7.32	0.630	24.2	1.90	63	3.15		20.33	0.03
1450	13.00	7.31	0.640	20.1	1.90	60	3.30		20.33	0.03
1455	13.05	7.31	0.640	17.0	1.88	60	3.45		20.33	0.03

**PURGE INFORMATION:**  
Time / Date Started: 1300 | 2/6/09  
Time Purge End: 1455 | 2/6/09  
Purge Method: Pump x Bailer \_\_\_\_\_  
Depth to Intake: — 42 (ft)  
Pump Type and ID: Five  
Purge Rate: 0.03 (gpm)  
Purged Volume: 3.45 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Graduated Cylinder  
Was well cavitating? Yes 0 No X  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**  
Time / Date Started: 1455 | 2/6/09  
Sampled by: TC & SF  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_  
Grab x Composite \_\_\_\_\_  
# of Bottles Collected: 26  
Bottle Preservatives: None, HNO3, H2SO4  
Recovering WL: 21.1 feet BVC  
Duplicate Sampling: Yes  
Laboratory: GRB Maryland  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



Well Identification: MW 7  
Project Location: Madison, Indiana  
Date: 2/6/69  
Date: 2/6/69  
Date:

Top of Screen = 11.77 At BANC

**SAMPLING INFORMATION:**  
 Time / Date Started: 845 | 1 2/6/69  
 Sampled by: TC & SF  
 Sample Method: Bailor Other Pump  
 Grab X Composite 39  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: NONE, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 7.0 ft BN/L  
 Duplicate Sampling: Yes MS & MSD  
 Laboratory: GPL Mayland  
 COC Form: \_\_\_\_\_

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## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SP & TC  
Sampled by: SP & TC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: 11WN-5  
Project Location: Madison, Indiana  
Date: 2/5/99  
Date: 2/5/99  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

1 Well Volume:  $\text{Total Depth (35.85 ft)} - \text{Depth to Water (18.41 ft)} = \text{Height of water column (17.44 ft)}$   
 $\text{Height of water column (17.44 ft)} \times \text{K value (0.163 gal/ft)} = 1 \text{ Well Volume (2.84 gal)}$

Purge Volume: 1 Well Volume ( 2.84 gallons ) x 3 = 3 Well Volumes ( 8.52 gallons )

Purge Rate (          gpm ) x (          min ) = 1 Well Volume

Purge Rate (          gpm ) x (          min ) = 3 Well Volume

[illegible]**PURGE INFORMATION:**

Time / Date Started: 0831 | 2/5/09  
 Time Purge End: 1041 | 2/5/09  
 Purge Method: Pump \_\_\_\_\_ Bailor \_\_\_\_\_  
 Depth to Intake: x \_\_\_\_\_ (ft)  
 Pump Type and ID: Fultz \_\_\_\_\_  
 Purge Rate: 9.83 (gpm)  
 Purged Volume: 2.70 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Graduated Cylinder  
 Was well cavitating? Yes ☒ No ☒  
 Water contained/Amount \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_  
 \_\_\_\_\_ NA \_\_\_\_\_  
 \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1002 | 2/5/00  
 Sampled by: TC & SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, H<sub>2</sub>O<sub>2</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 29.54 feet BRL  
 Duplicate Sampling: No  
 Laboratory: GPL Maryland  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SE & TC  
Sampled by: SE & TC  
Checked by: &

Well Identification: MW-6  
Project Location: Madison, Indiana  
Date: 2/4/09  
Date: 2/9/09  
Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen =  
32.78 ft

1 Well Volume:  
Total Depth (42.78 ft) - Depth to Water (5.84 ft) = Height of water column (36.94 ft)  
Height of water column (36.94 ft) x K value (0.163 gal/ft) = 1 Well Volume (6.02 gal)

Purge Volume:  
1 Well Volume (6.02 gallons) x 3 = 3 Well Volumes (18.06 gallons)

Purge Rate (gpm) x (min) = 1 Well Volume

Purge Rate (gpm) x (min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
832	10.54	6.45	0.435	103	10.36	285	—		5.44	0.06
837	0.55	6.93	0.629	165	10.37	264	0.3		6.81	0.06
842	6.63	7.10	0.619	429	10.94	253	0.6		7.85	0.06
0847	6.20	7.13	0.617	380	10.41	244	0.9		8.79	0.06
0852	3.28	7.15	0.694	365	10.93	240	1.2		9.61	0.06
0857	9.60	7.16	0.666	302	8.56	225	1.5		11.35	0.06
0902	6.79	7.29	0.602	213	9.33	222	1.8		12.17	0.06
0907	7.52	7.34	0.547	169	8.66	213	2.1		13.52	0.06
0912	6.18	7.41	0.544	165	8.88	209	2.4		14.18	0.06
0917	9.15	7.43	0.462	149	7.75	197	2.7		15.64	0.06
0922	6.75	7.50	0.472	130	8.22	193	3.0		16.44	0.06
0927	11.51	7.53	0.410	117	6.99	173	3.3		19.30	0.06
0932	8.94	7.60	0.441	101	7.50	170	3.6		20.50	0.06
0937	10.25	7.59	0.403	101	6.72	156	3.9		21.73	0.06
0942	9.51	7.62	0.416	100	6.87	145	4.2		22.99	0.06
0947	7.09	7.65	0.441	90.0	7.38	145	4.5		23.63	0.06
0952	8.82	7.63	0.406	93.5	6.56	126	4.8		25.08	0.06
0957	8.04	7.65	0.419	87.5	6.60	125	5.1		26.11	0.06
1002	10.08	7.65	0.408	85.8	6.20	114	5.4		27.00	0.06
1007	7.82	7.68	0.426	86.5	6.84	117	5.7		27.72	0.06
1012	9.87	7.68	0.425	95.3	5.98	117	6.0		28.42	0.06
1017	11.75	7.67	0.393	79.9	6.82	98	6.3		30.42	0.06
1022	10.54	7.69	0.413	71.8	6.05	105	6.6		31.29	0.06
1027	9.02	7.70	0.425	75.6	6.22	110	6.9		32.06	0.06
1032	11.85	7.67	0.393	75.3	6.51	96	7.2		33.83	0.06

**PURGE INFORMATION:**

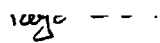
Time / Date Started: 0832 | 2/4/09  
Time Purge End: 1103 | 2/4/09  
Purge Method: Pump X Bailer  
Depth to Intake: ~41 (ft) BTOL  
Pump Type and ID: Full pump  
Purge Rate: 0.06 (gpm)  
Purged Volume: 9.0 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Graduated Cylinder  
Was well cavitating? Yes X No  
Water containerized/Amount NA  
Grinfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1405 | 2/9/09  
Sampled by: SE & TC  
Sample Method: Bailer Other Pump  
Grab X Composite  
# of Bottles Collected: 13  
Bottle Preservatives: None, HNO3, H2SO4  
Recovering WL: 17.5 feet RPL  
Duplicate Sampling: No  
Laboratory: GRL May, IN  
COC Form:

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Well went dry on 2/4/09 after purging for 2.5 hours



## GROUNDWATER SAMPLE LOG

Well Identification: MW-6  
Project Location: Madison, Indiana  
Date: 2/4/89  
Date: 2/9/89  
Date: \_\_\_\_\_

Circle diameter and K used below:

2" I.D.,  $K=0.163$  gal/ft  
4" I.D.,  $K=0.653$  gal/ft

**Purge Volume:**

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

## Time / Date Started: 6/1/01

Time Pump Started: 7:45

Time Pump End: 11:43 24109

Purge Method: Pump X Bailer

Depth to Intake: 241 (ft) STDC

Pump Type and ID: Fultz pump

Purge Rate: Φ.ΦΦ (gpm)

Purged Volume: 9.Φ (gal)

Water Quality Meter: Horiba U-22#

How was yield measured? Graduated cylinder

Was well cavitating? Yes X No     

Water containerized/Amount NA

Grunfos controller set @ NA (Hertz)

## Time / Date Started: 14

Filter Date Started: 1/25  
 Sampled by: SE & TC  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 17.5 feet BPVZ  
 Duplicate Sampling: No  
 Laboratory: GLP Maryland  
 COC Form: \_\_\_\_\_

Well went dry on 2/4/49 after purging 2.5 hours



MW-7

2/8/09

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Total Depth (48.65 ft) - Depth to Water (10.86 ft) = Height of water column (37.79 ft)  
Height of water column (37.79 ft) x K value (0.163 gal/ft) = 1 Well Volume (6.16 gal)

1 Well Volume ( 6.16 gallons) x 3 = 3 Well Volumes ( 18.48 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

**PURGE INFORMATION:**

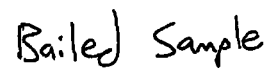
Time / Date Started:	1743	1	2/8/09
Time Purge End:	1813		2/8/09
Purge Method: Pump	x	Bailer	
Depth to Intake:	~ 45	(ft)	1300
Pump Type and ID:	Pultz pump		
Purge Rate:	0.05	(gpm)	
Purged Volume:	1.5	(gal)	
Water Quality Meter:	Horiba U-22#		
How was yield measured?	Corad. Cylinder		
Was well cavitated?	Yes <del>NA</del>	No <input checked="" type="checkbox"/>	
Water containerized/Amount		NA	
Gruntfos controller set @	NA	(Hertz)	

**SAMPLING INFORMATION:**

Time / Date Started: 1813 1 2/8/09  
 Sampled by: TL & SE  
 Sample Method: Bailer Other Pump  
 Grab x Composite  
 # of Bottles Collected: 39  
 Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering Vol: 14.9, full BDL  
 Duplicate Sampling: MS + MB  
 Laboratory: Yes, ms + mb  
 COC Form: GLC my lab

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)





MW-a

Well Identification: \_\_\_\_\_  
Project Location: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D. K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

1 Well Volume: 5.58  
Total Depth (38.5 ft) - Depth to Water (32.92 ft) = Height of water column (5.58 ft)  
Height of water column (5.58 ft) x K value (0.163 gal/ft) = 1 Well Volume (9.095 gal)

Purge Volume: 9.495 gallons  
1 Well Volume ( 9.495 gallons ) x 3 = 3 Well Volumes ( 27.285 gallons )

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump   x   Baller  
 Depth to Intake: \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized?/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

Time / Date Started: 8:5 | 2/10/09  
 Sampled by: SF & TC  
 Sample Method: Bailer X Other ~~Pump~~  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: Nare, HNO<sub>3</sub> H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 37.20 feet BPL  
 Duplicate Sampling: No  
 Laboratory: GPB Maryland  
 CQC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

ADDITIONAL INFORMATION: (i.e. weather conditions)  
Boiled sample without purging



**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: TC & SE  
Sampled by: TC & SE  
Checked by: TC & SE

Well Identification: MW-10  
Project Location: Madison, Indiana  
Date: 2/17/09  
Date: 2/17/09  
Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft 6" I.D., K=1.469 gal/ft  
2" I.D., K=0.163 gal/ft 8" I.D., K=2.61 gal/ft  
4" I.D., K=0.653 gal/ft 10" I.D., K=4.08 gal/ft

1 Well Volume:  
Total Depth (41.53 ft) - Depth to Water (2.22 ft) = Height of water column (39.31 ft)  
Height of water column (39.31 ft) x K value (0.163 gal/ft) = 1 Well Volume (6.40 gal)  
Purge Volume:  
1 Well Volume (6.4 gallons) x 3 = 3 Well Volumes (19.2 gallons)  
Purge Rate (gpm) x (min) = 1 Well Volume  
Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
750	11.38	6.72	0.825	30.1	3.57	121	—		2.25	0.03
755	9.51	7.13	0.827	12.8	2.05	81	0.15		2.74	0.03
800	8.31	7.25	0.825	80.8	2.08	82	0.30		3.22	0.03
845	7.45	7.30	0.803	93.5	2.33	72	0.45		3.48	0.03
810	7.70	7.32	0.808	56.6	2.66	78	0.60		4.24	0.03
0815	8.51	7.33	0.797	46.5	2.76	77	0.75		4.67	0.03
0820	8.59	7.36	0.805	40.6	2.71	85	0.90		5.09	0.03
0825	8.07	7.37	0.813	41.4	2.74	93	1.05		5.32	0.03
0830	7.77	7.38	0.812	43.3	2.71	93	1.20		5.58	0.03
0835	7.90	7.35	0.843	53.0	2.82	75	1.70		6.83	0.1
0840	12.12	7.37	0.791	34.0	2.79	77	2.20		8.78	0.1
0845	12.22	7.38	0.793	28.8	2.76	89	2.70		9.59	0.1
0850	11.73	7.39	0.802	29.1	2.82	96	3.20		10.40	0.1
0855	11.53	7.39	0.801	23.9	2.82	102	3.70		11.14	0.1
0900	12.26	7.40	0.791	21.5	2.70	104	4.20		12.20	0.1
0905	13.14	7.39	0.796	18.1	2.70	104	4.70		14.82	0.1
0910	13.03	7.40	0.796	13.5	2.70	110	5.20		16.38	0.1
0915	12.87	7.39	0.796	11.4	2.60	114	5.70		17.59	0.1
0920	12.88	7.39	0.795	17.0	2.43	114	6.20		18.48	0.1
0925	13.03	7.39	0.793	15.3	2.31	113	6.70		19.68	0.1
0930	12.95	7.39	0.793	18.1	2.27	114	7.20		20.47	0.1
0935	12.12	7.40	0.801	20.8	2.19	114	7.80		20.84	0.02
0940	11.29	7.40	0.803	23.4	2.02	111	7.40		20.17	0.02
0945	10.26	7.41	0.805	26.9	1.98	107	7.50		20.08	0.02

**PURGE INFORMATION:**

Time / Date Started: 750 | 2/17/09  
Time Purge End: 945 | 2/17/09  
Purge Method: Pump x Bailer  
Depth to Intake: ~40.5 (ft)  
Pump Type and ID: Fullz  
Purge Rate: 0.03 / 0.1 (gpm)  
Purged Volume: 7.5 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Gravitational  
Was well cavitating? Yes ☒ No ☒  
Water containerized/Amount NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 945 | 2/17/09  
Sampled by: TC & SE  
Sample Method: Bailer  
Grab x Composite  
# of Bottles Collected: 13  
Bottle Preservatives: None, HNO3, H2SO4  
Recovering WL: 24.07 feet BVC  
Duplicate Sampling: NO  
Laboratory: GR M44  
COC Form:

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

935 - Noticed that well is recharging, slowed down flowrate to get drawdown controlled

**SAIC** Science Applications  
From Science to Solutions™ International Corporation

## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground Well Identification: MW-11  
 Project Number: 01-1633-04-9381-310 Project Location: Madison, Indiana  
 Purged by: SE & RL Date: 2/16/09  
 Sampled by: MNL & DL Date: 2-18-09  
 Checked by: \_\_\_\_\_ & \_\_\_\_\_ Date: \_\_\_\_\_

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft 6" I.D., K=1.468 gal/ft  
2" I.D., K=0.163 gal/ft 8" I.D., K=2.61 gal/ft  
 4" I.D., K=0.653 gal/ft 10" I.D., K=4.08 gal/ft

1 Well Volume:  
 Total Depth (42.46 ft) - Depth to Water (7.38 ft) = Height of water column (35.08 ft)  
 Height of water column (35.08 ft) x K value (0.163 gal/ft) = 1 Well Volume (5.72 gal)  
 Purge Volume:  
 1 Well Volume (5.72 gallons) x 3 = 3 Well Volumes (17.16 gallons)  
 Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
 Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1418	11.54	7.91	4.73	0.0*	12.05	225	—		7.57	0.04
1423	11.99	6.99	32.2	0.0*	0.42	-59	0.2		8.22	0.04
1428	11.70	7.12	28.7	0.0*	0.05	-57	0.4		8.75	0.04
1433	11.48	7.12	28.0	0.0*	0.03	-51	0.6		8.95	0.04
1438	10.82	7.11	74.9	0.0*	0.10	-52	0.8		9.45	0.04
1443	10.88	7.17	22.2	0.0*	0.06	-48	1.0		9.92	0.04
1448	10.83	7.15	19.1	0.0*	0.03	-45	1.2		10.36	0.04
1453	10.61	7.14	17.6	0.0*	0.00	-44	1.4		10.86	0.04
1458	10.75	7.25	15.9	0.0*	0.00	-42	1.6		11.33	0.04
1503	11.45	7.17	12.6	0.0*	0.00	-37	1.8		11.87	0.04
1508	12.04	7.28	9.0	0.0*	0.00	-36	2.0		13.19	0.05
1513	11.73	7.36	6.96	0.0*	0.00	-38	2.25		13.96	0.05
1518	12.10	7.36	6.64	0.0*	0.00	-34	2.5		15.05	0.05
1523	11.82	7.55	4.70	0.0*	0.00	-35	2.75		15.55	0.05
1528	12.36	7.86	3.68	0.0*	0.62	-34	3.0		16.85	0.05
1533	12.30	7.80	2.37	0.0*	2.08	-17	3.25		17.52	0.05
1538	12.07	7.59	1.77	0.0*	3.35	4	3.5		18.32	0.05
1543	12.22	7.57	1.28	0.0*	7.32	29	3.75		19.18	0.05
1548	12.32	7.60	1.23	0.0*	7.17	42	4.0		19.96	0.05
1553	13.18	7.72	0.694	0.0*	8.87	60	4.4		22.28	0.08
1558	13.10	7.69	0.694	0.0*	8.98	77	4.8		23.82	0.08
1603	13.06	7.68	0.704	0.0*	9.08	84	5.2		25.88	0.08
1608	12.84	7.67	0.719	0.0*	8.81	90	5.6		27.00	0.08
1613	13.30	7.61	1.09	0.0*	8.63	87	6.0		29.28	0.08
1618	13.04	7.67	0.864	0.0*	8.40	52	6.4		30.75	0.08

## PURGE INFORMATION:

Time / Date Started: 1418 | 2/16/09  
 Time Purge End: 1630 | 2/16/09  
 Purge Method: Pump X Bailer \_\_\_\_\_  
 Depth to Intake: ~42 (ft)  
 Pump Type and ID: Fuller Pump  
 Purge Rate: 0.04-0.08 (gpm)  
 Purged Volume: 7.6 (gal)  
 Water Quality Meter: Hanna U-22  
 How was yield measured? Gravimetric byline  
 Was well cavitating? Yes X No \_\_\_\_\_  
 Water containerized/Amount: \_\_\_\_\_ NA  
 Grunfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 0915 | 2-18-09  
 Sampled by: MNL & DL  
 Sample Method: Bailer X Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO3, H2O2, none  
 Recovering WL: 25.17  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

## ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

> 2" = Hanna Flashing s.o. for turbidity readings - problems with Hanna occurred at previous  
Well at JPB-052 on 2/16/09. Samples failed





MW-RS-1

Well Identification: FW-KS-1  
Project Location: Madison, Indiana  
Date: 2/15/09  
Date: 2/15/09  
Date: \_\_\_\_\_

Circle diameter and K used below:

6" I.D., K=1.469 gal/ft

8" I.D., K=2.61 gal/ft

10" ID, K=4.08 gal/ft

$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

← purged Horizon  
cell

← purged Horizon  
cell

← purged Horizon  
cell

Time / Date Started: 1600 | 2/15/29  
 Sampled by: TC & SE  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 6.75 feet BVC  
 Duplicate Sampling: NO  
 Laboratory: GA Maryland  
 COC Form: \_\_\_\_\_

F-240



MW-RS-2

Well Identification: \_\_\_\_\_  
Project Location: Madison, Indiana  
Date: 2/16/09  
Date: 2/16/09  
Date: \_\_\_\_\_

Circle diameter and K used below:

6" I.D., K=1.469 gal/ft

8" I.D., K=2.61 gal/ft

10" ID, K=4.08 gal/ft

Total Depth (28.10 ft) - Depth to Water (4.76 ft) = Height of water column (23.34 ft)  
Height of water column (23.34 ft) x K value (0.163 gal/ft) = 1 Well Volume (3.80 gal)

1 Well Volume ( 3.8 gallons) x 3 = 3 Well Volumes ( 11.4 gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

PURGE INFORMATION:		SAMPLING INFORMATION:	
Time / Date Started:	754   2/16/09	Time / Date Started:	840   2/16/09
Time Purge End:	840   2/16/09	Sampled by:	TL & SF
Purge Method: Pump	X Bailer	Sample Method: Bailer	Other Pump
Depth to Intake:	27 (ft)	Grab	X Composite
Pump Type and ID:	Fuller	# of Bottles Collected:	13
Purge Rate:	0.25 (gpm)	Bottle Preservatives:	None, HNO3, H2SO4
Purged Volume:	250 (gal)	Recovering WL:	No felt RPL
Water Quality Meter:	Horiba U-22#	Duplicate Sampling:	No
How was yield measured?	Graduated Cylinder	Laboratory:	APL Analytical
Was well cavitated?	Yes <del>X</del> No X	COC Form:	
Water containerized/Amount	NA		
Grunfos controller set @	NA (Hertz)		

**SAMPLING INFORMATION:**

Time / Date Started: 840 | 2/16/99  
 Sampled by: TL & SF  
 Sample Method: Bailer Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 6.00 feet BGL  
 Duplicate Sampling: No  
 Laboratory: GLL Maryland  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: GF & TL  
Sampled by: GF & TL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-15-2

Project Location: Madison, Indiana

Date: 7/3/09

Date: 2/3/09

Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

Top of Screen:  
9.88 At BPC

1 Well Volume:  
Total Depth (14.88 ft) - Depth to Water (7.42 ft) = Height of water column (7.46 ft)  
Height of water column (7.46 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.216 gal)  
Purge Volume:  
1 Well Volume (1.216 gallons) x 3 = 3 Well Volumes (3.648 gallons)  
Purge Rate ( gpm) x ( min) = 1 Well Volume  
Purge Rate ( gpm) x ( min) = 3 Well Volume

[illegible]

9.89 TSC  
2/3/80

**PURGE INFORMATION:**

Time / Date Started: 10:25, 2/3/09  
Time Purge End: 11:40, 2/3/09  
Purge Method: Pump x Baller  
Depth to Intake: ~13.9 (ft)  
Pump Type and ID: Elite Pump  
Purge Rate: 0.02 - 0.11 (gpm)  
Purged Volume: ~~0.02~~ 3.5 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Graduated cylinder  
Was well cavitated? Yes ~~Yes~~ No ~~No~~  
Water containerized/Amount NA  
Gruntfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1140 | 2/3/09  
 Sampled by: TC & SE  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>  
 Recovering WL: 11.38 feet B.P.V.C  
 Duplicate Sampling: No  
 Laboratory: GPL Maryland  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very cold temperature (18°F) and heavy, blowing snow



Well Identification: MW-15-4

Project Location: Madison, Indiana

Date: 2/4/09

Date: 2/4/09

Date:

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

Top of stream:  
8.44 ft BVC

Purge Rate (                  gpm) x (                  min) = 1 Well Volume  
Purge Rate (                  gpm) x (                  min) = 3 Well Volume

[illegible]

Time / Date Started: 1/4/2 1 2/1/09  
Time Purge End: 1:27 2:14/09  
Purge Method: Pump x Bailor  
Depth to Intake: ~ 16.4 (ft)  
Pump Type and ID: Fulte.  
Purge Rate: 0.48 - 0.09 (gpm)  
Purged Volume: 2.8 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Gravimetric water  
Was well cavitated? Yes ☒ No ☒  
Water containerized/Amount NA  
Grunfos controller set @ NA (Hertz)

Time / Date Started: 1218 | 7/18/09  
 Sampled by: TC & SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 2/6 ( includes duplicate )  
 Bottle Preservatives: MnO<sub>2</sub>, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 4.82 feet PVC  
 Duplicate Sampling: Yes  
 Laboratory: GL Maryland  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SF & TC  
 Sampled by: SF & TC  
 Checked by: &

Well Identification: MW-RS-5  
 Project Location: Madison, Indiana  
 Date: 2/9/09  
 Date: 2/9/09  
 Date:

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

Top of well screen =  
 7.66 ft B.P.V.C

1 Well Volume:  
 Total Depth (15.73 ft) - Depth to Water (3.41 ft) = Height of water column (12.32 ft)  
 Height of water column (12.32 ft) x K value (0.163 gal/ft) = 1 Well Volume (2 gal)  
 Purge Volume: 2 gallons x 3 = 3 Well Volumes (6 gallons)  
 Purge Rate (gpm) x (min) = 1 Well Volume  
 Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
804	9.25	5.68	0.008	999	8.94	276	—		4.18	0.06
809	8.46	6.02	0.052	882	7.58	288	0.3		4.38	0.06
814	8.32	6.09	0.048	660	7.53	297	0.6		4.60	0.06
819	8.32	6.10	0.047	418	7.46	307	0.9		4.66	0.06
824	7.80	6.04	0.048	292	7.30	316	1.2		4.62	0.06
829	7.59	6.04	0.047	232	7.16	319	1.5		4.64	0.06
834	7.56	6.03	0.047	240	7.21	321	1.8		4.58	0.06
839	7.52	6.00	0.048	238	7.27	325	2.1		4.66	0.06
844	7.54	5.99	0.047	216	7.36	326	2.4		4.49	0.06
849	7.44	5.95	0.047	208	7.20	327	2.7		4.51	0.06
854	7.35	5.92	0.047	183	7.26	327	3.0		4.55	0.06
859	7.30	5.89	0.047	161	7.22	327	3.3		4.57	0.06
864	7.14	5.87	0.048	143	7.27	327	3.6		4.58	0.06
869	6.98	5.85	0.047	124	7.37	327	3.9		4.58	0.06
874	6.88	5.81	0.047	115	7.41	329	4.2		4.59	0.06
879	6.74	5.80	0.047	115	7.58	330	4.5		4.58	0.06
884	6.65	5.79	0.046	119	7.79	330	4.8		4.54	0.06
889	6.63	5.76	0.046	118	7.65	331	5.1		4.52	0.06
894	6.63	5.73	0.046	117	7.67	331	5.4		4.52	0.06
899	6.64	5.72	0.046	117	7.74	329	5.7		4.55	0.06
904	6.58	5.72	0.045	117	7.70	329	6.0		4.68	0.06
909	6.46	5.71	0.045	112	7.85	328	6.3		4.68	0.06
914	6.26	5.67	0.044	265	8.08	328	6.6		4.63	0.06
919	6.79	5.97	0.055	368	9.35	290	6.9		4.77	0.06
924	6.60	5.82	0.055	365	8.01	300	7.2		4.63	0.06

← Purged Horiba cell

← Purge Horiba cell

← Purge Horiba cell

## PURGE INFORMATION:

Time / Date Started: 804 | 2/9/09  
 Time Purge End: 1204 | 2/9/09  
 Purge Method: Pump x Bailer  
 Depth to Intake: ~14.7 (ft)  
 Pump Type and ID: Fultz  
 Purge Rate: 0.06 (gpm)  
 Purged Volume: 14.4 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Gravimetric by 1.00  
 Was well cavitated? Yes ☒ No ☒  
 Water containerized/Amount NA  
 Grundfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 1205 | 2/9/09  
 Sampled by: TC & SF  
 Sample Method: Bailer Other Pump  
 Grab x Composite  
 # of Bottles Collected: 26  
 Bottle Preservatives: None, HNO3, H2SO4  
 Recovering WL: 3.90 feet B.P.V.C  
 Duplicate Sampling: YES  
 Laboratory: GEL Mayland  
 COC Form:

## ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Water began turbid, cleared slightly then became very turbid - going out of Horiba range. Unable to do anything about high turbidity.





# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SE & TC  
 Sampled by: SE & TC  
 Checked by: SE & TC

Well Identification: MW-RS-5  
 Project Location: Madison, Indiana  
 Date: 2/9/09  
 Date: 2/9/09  
 Date:

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

1 Well Volume: 15.73 ft - Depth to Water (3.41 ft) = Height of water column (12.32 ft)  
 Height of water column (12.32 ft) x K value (0.163 gal/ft) = 1 Well Volume (2 gal)  
 Purge Volume: 2 gallons x 3 = 3 Well Volumes (6 gallons)  
 1 Well Volume (2 gallons) x 3 = 3 Well Volumes (6 gallons)  
 Purge Rate (gpm) x (min) = 1 Well Volume  
 Purge Rate (gpm) x (min) = 3 Well Volume

7.2

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1009	6.53	5.78	0.553	345	7.88	342	7.5		4.62	0.66
1014	6.59	5.72	0.554	305	7.86	309	7.8		4.64	0.66
1019	6.71	5.70	0.555	480	7.89	312	8.1		4.69	0.66
1024	6.75	5.68	0.552	561	7.92	314	8.4		4.75	0.66
1029	6.75	5.67	0.549	617	7.94	309	8.7		4.80	0.66
1034	7.00	5.71	0.549	626	7.97	305	9.0		4.82	0.66
1039	6.98	5.70	0.549	709	7.94	310	9.3		4.71	0.66
1044	6.99	5.68	0.549	843	7.96	309	9.6		4.71	0.66
1049	7.08	5.70	0.549	916	7.94	304	9.9		4.74	0.66
1054	7.11	5.72	0.549	-5	7.92	298	10.2		4.80	0.66
1059	6.96	5.84	0.549	958	8.55	294	10.5		6.58	0.66
1104	7.63	5.91	0.549	-5	7.74	294	10.8		6.52	0.66
1109	6.81	6.00	0.550	-5	7.56	294	11.1		6.43	0.66
1114	6.87	6.02	0.549	-5	7.51	297	11.4		6.48	0.66
1119	7.06	6.05	0.551	-5	7.48	297	11.7		6.53	0.66
1124	7.25	6.10	0.552	-5	7.46	297	12.0		6.45	0.66
1129	7.34	6.11	0.553	-5	7.46	299	10.3		6.42	0.66
1134	7.39	6.12	0.554	-5	7.43	300	12.6		6.36	0.66
1139	7.47	6.12	0.555	-5	7.41	299	12.9		6.35	0.66
1144	7.67	6.13	0.553	-5	7.37	296	13.2		6.36	0.66
1149	7.76	6.15	0.557	-5	7.31	292	13.5		6.37	0.66
1154	7.95	6.18	0.560	-5	7.24	287	13.8		6.34	0.66
1159	7.99	6.20	0.562	-5	7.18	284	14.1		6.34	0.66
1204	8.10	6.22	0.564	927	7.08	284	14.4		6.34	0.66

Surge with  
 Note:  
 -5 for  
 turbidity  
 means  
 out of range  
 (i.e. 7999)  
 NTU

## PURGE INFORMATION:

Time / Date Started: 0804 | 2/9/09  
 Time Purge End: 1204 | 2/9/09  
 Purge Method: Pump X Bailer  
 Depth to Intake: ~14.7 (ft) 1370  
 Pump Type and ID: Fultz pump  
 Purge Rate: 0.66 (gpm)  
 Purged Volume: 14.4 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Gravimetric  
 Was well cavitating? Yes No X  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 1205 | 2/9/09  
 Sampled by: TC & SE  
 Sample Method: Bailer Other Pump  
 Grab X Composite  
 # of Bottles Collected: 2b  
 Bottle Preservatives: None HNO3 H2SO4  
 Recovering WL: 3.9x for BNC  
 Duplicate Sampling: Yes  
 Laboratory: GPC Mayland  
 COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
 Water began turbid, cleared slightly, then became very turbid going out of range for Horiba. Unable to do anything about the high turbidity.



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SP & TC  
 Sampled by: SF & R  
 Checked by: &

Well Identification: MW-RS-6  
 Project Location: Madison, Indiana  
 Date: 2/10/09  
 Date: 2/11/09  
 Date:

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

1 Well Volume:  
 Total Depth (17.04 ft) - Depth to Water (8.00 ft) = Height of water column (9.04 ft)  
 Height of water column (9.04 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.47 gal)  
 Purge Volume:  
 1 Well Volume (1.47 gallons) x 3 = 3 Well Volumes (4.41 gallons)  
 Purge Rate (gpm) x (min) = 1 Well Volume  
 Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
0945	8.12	5.84	0.080	999	10.36	318	—	—	8.20	0.18
0950	8.11	5.80	0.073	999	10.00	313	0.90	—	8.35	0.18
0955	8.34	5.86	0.072	999	9.95	309	1.8	—	8.58	0.18
1000	8.58	5.89	0.072	999	9.94	303	2.7	—	8.85	0.18
1005	8.70	5.93	0.073	886	9.87	302	3.6	—	8.37	0.18
1010	8.59	5.94	0.073	594	9.90	302	4.5	—	8.37	0.18
1015	8.56	5.96	0.073	469	9.85	304	5.4	—	8.36	0.18
1020	8.57	5.97	0.073	387	9.86	305	6.3	—	8.35	0.18
1025	8.68	5.98	0.073	249	9.82	308	7.2	—	8.37	0.18
1030	8.70	6.00	0.073	203	9.76	307	8.1	—	8.37	0.18
1035	8.71	6.01	0.073	189	9.70	307	9.0	—	8.38	0.18
1040	8.85	6.03	0.074	179	9.72	305	9.9	—	8.37	0.18
1045	8.84	6.04	0.074	165	9.72	305	10.8	—	8.37	0.18
1050	8.93	6.05	0.074	154	9.75	305	11.7	—	8.38	0.18
1055	8.97	6.06	0.075	141	9.78	304	12.6	—	8.38	0.18
1100	8.92	6.07	0.075	137	9.80	303	13.5	—	8.39	0.18
1105	8.91	6.09	0.076	131	9.75	303	14.4	—	8.39	0.18
1110	9.05	6.10	0.076	126	9.73	302	15.3	—	8.39	0.18
1115	9.06	6.11	0.076	123	9.70	301	16.2	—	8.40	0.18
1120	9.17	6.12	0.076	127	9.72	302	17.1	—	8.40	0.18
1125	9.24	6.14	0.076	123	9.76	301	18.0	—	8.40	0.18
1130	9.18	6.16	0.077	121	9.73	300	18.9	—	8.40	0.18
1135	9.12	6.15	0.077	117	9.75	300	19.8	—	8.38	0.18
1140	9.22	6.15	0.078	114	9.80	302	20.7	—	8.35	0.18
1145	9.13	6.13	0.077	95.4	9.84	299	21.6	—	8.34	0.18

Purged Horizon cell

Purged Horizon cell

PURGE INFORMATION:  
 Time / Date Started: 945 2/10/09  
 Time / Date Ended: 1345 2/10/09  
 Purge Method: Pump X Bailer  
 Depth to Intake: ~16 (ft)  
 Pump Type and ID: FUTE  
 Purge Rate: 0.18 (gpm)  
 Purged Volume: 43.2 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Graduated cylinder  
 Was well cavitated? Yes No X  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

SAMPLING INFORMATION:  
 Time / Date Started: 1345 2/10/09  
 Sampled by: TC & SF  
 Sample Method: Bailer Other Pump  
 Grab X Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, HNO3, H2O2  
 Recovering WL: 8.25 feet BRL  
 Duplicate Sampling: No  
 Laboratory: GPC Merglen  
 COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very turbid water (brown), ~35 mph winds during purging



## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SF & TL  
 Sampled by: SF & TL  
 Checked by: \_\_\_\_\_

Well Identification: MW-RS-6  
 Project Location: Madison, Indiana  
 Date: 2/16/09  
 Date: 2/16/09  
 Date: \_\_\_\_\_

## WELL VOLUME CALCULATION:

Circle diameter and K used below:  
 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

## 1 Well Volume:

Total Depth (17.04 ft) - Depth to Water (8.00 ft) = Height of water column (9.04 ft)  
 Height of water column (9.04 ft) x K value (0.163 gal/ft) = 1 Well Volume (1.47 gal)

## Purge Volume:

1 Well Volume (1.47 gallons) x 3 = 3 Well Volumes (4.41 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1150	9.12	6.13	0.077	93.5	9.80	296	22.5		8.34	0.18
1155	9.19	6.15	0.077	98.6	9.70	295	23.4		8.34	0.18
1200	9.15	6.14	0.077	98.4	9.78	293	24.3		8.34	0.18
1205	9.13	6.13	0.077	95.8	9.75	294	25.2		8.34	0.18
1210	9.25	6.16	0.078	97.5	9.71	294	26.1		8.35	0.18
1215	9.24	6.16	0.078	95.5	9.73	293	27.0		8.32	0.18
1220	9.25	6.15	0.078	94.3	9.80	293	27.9		8.33	0.18
1225	9.19	6.15	0.078	88.6	9.82	285	28.8		8.32	0.18
1230	9.24	6.15	0.078	89.5	9.81	279	29.7		8.33	0.18
1240	9.23	6.16	0.079	85.6	9.82	281	31.5		8.34	0.18
1245	9.23	6.18	0.078	87.7	9.80	283	32.4		8.34	0.18
1250	9.26	6.18	0.079	88.0	9.79	284	33.3		8.33	0.18
1255	9.24	6.17	0.080	88.1	9.76	283	34.2		8.33	0.18
1300	9.26	6.20	0.080	86.0	9.78	284	35.1		8.34	0.18
1305	9.26	6.19	0.080	87.3	9.77	284	36.0		8.34	0.18
1310	9.34	6.19	0.080	89.0	9.76	284	36.9		8.34	0.18
1315	9.31	6.20	0.081	88.7	9.80	285	37.8		8.33	0.18
1320	9.29	6.21	0.081	88.2	9.83	285	38.7		8.33	0.18
1325	9.20	6.20	0.081	87.3	9.81	286	39.6		8.33	0.18
1330	9.40	6.22	0.081	84.9	9.76	285	40.5		8.33	0.18
1335	9.26	6.22	0.081	87.3	9.77	286	41.4		8.34	0.18
1340	9.36	6.21	0.081	85.3	9.80	285	42.3		8.34	0.18
1345	9.37	6.22	0.082	87.2	9.76	285	43.2		8.34	0.18

## PURGE INFORMATION:

Time / Date Started: 945 | 2/16/09  
 Time Purge End: 1345 | 2/16/09  
 Purge Method: Pump x Bailer  
 Depth to Intake: 16 (ft)  
 Pump Type and ID: Full  
 Purge Rate: 15.18 (gpm)  
 Purged Volume: 43.2 (gal)  
 Water Quality Meter: Horiba U-22  
 How was yield measured? Gravimetric  
 Was well cavitating? Yes ☒ No ☒  
 Water containerized/Amount: NA  
 Grunfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 1345 | 2/16/09  
 Sampled by: TL & SF  
 Sample Method: Bailer Other Pump  
 Grab x Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: None H<sub>2</sub>O<sub>2</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 8.25 feet BNL  
 Duplicate Sampling: No  
 Laboratory: GPC Lab (Meyers)  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very turbid water (brown), ~ 35 mph winds during purging



MMJ- RS-7

Well Identification: 11W-25-1  
Project Location: Madison, Indiana  
Date: 2/4/09  
Date: 2/8/09  
Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.489 gal/ft
<b>2" I.D., K=0.163 gal/ft</b>	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" ID, K=4.08 gal/ft

Top of Screen =  
10.1 feet BPVC

Purge Volume: \_\_\_\_\_  
 1 Well Volume ( 1.438 gallons ) x 3 = 3 Well Volumes ( 3.114 gallons )  
 Purge Rate ( \_\_\_\_\_ gpm ) x ( \_\_\_\_\_ min ) = 1 Well Volume  
 Purge Rate ( \_\_\_\_\_ gpm ) x ( \_\_\_\_\_ min ) = 3 Well Volume

<b>PURGE INFORMATION:</b> Time / Date Started: <u>1346</u>   <u>2/4/09</u> Time Purge End: <u>1508</u>   <u>2/4/09</u> Purge Method: Pump <u>X</u> <u>Bailer</u> Depth to Intake: <u>-14</u> (ft) Pump Type and ID: <u>R172</u> Purge Rate: <u>0.025</u> (gpm) Purged Volume: <u>2.4</u> (gal) Water Quality Meter: <u>Horiba U-22#</u> How was yield measured? <u>Graduated Cylinder</u> Was well cavitated? Yes <u>X</u> No Water containerized/Amount <u>NA</u> Grunfos controller set @ <u>NA</u> (Hertz)	<b>SAMPLING INFORMATION:</b> Time / Date Started: <u>1613</u>   <u>2/8/09</u> Sampled by: <u>TC</u> & <u>SP</u> Sample Method: Bailer <u>Other</u> <u>Pump</u> Grab <u>X</u> <u>Composite</u> # of Bottles Collected: <u>13</u> Bottle Preservatives: <u>None, HNO3, H2SO4</u> Recovering WL: <u>12.3 feet bgs</u> Duplicate Sampling: <u>None</u> Laboratory: <u>GPL Maryland</u> COC Form:
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ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
Well went dry on 2/4/09 running for 1.5 hours.

**SAIC** Science Applications  
From Science to Solutions™ International Corporation

## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SF & TC  
Sampled by: SF & TC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: MW-RS-8  
Project Location: Madison, Indiana  
Date: 2/5/09  
Date: 2/5/09  
Date: \_\_\_\_\_

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

## 1 Well Volume:

Total Depth (17.71 ft) - Depth to Water (5.29 ft) = Height of water column (12.42 ft)  
Height of water column (12.42 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.02 gal)

Purge Volume: 2.02 gallons x 3 = 3 Well Volumes (6.06 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1115	7.62	8.15	0.201	999	9.62	+164	—		5.79	0.03
1120	6.38	6.83	0.125	999	6.32	+290	0.15		5.83	0.03
1125	6.75	6.21	0.107	999	5.61	+216	0.30		5.98	0.03
1130	6.67	5.91	0.096	835	5.52	+224	0.45		6.25	0.03
1135	6.46	5.76	0.091	621	5.49	+226	0.60		6.40	0.03
1140	6.02	5.67	0.092	555	5.44	+229	0.75		6.43	0.03
1145	5.94	5.64	0.091	515	5.49	+230	0.90		6.52	0.03
1150	6.21	5.58	0.087	223	5.53	+233	1.05		6.59	0.03
1155	6.14	5.56	0.085	225	5.56	+236	1.20		6.64	0.03
1200	6.16	5.50	0.079	260	7.34	+242	1.35		6.69	0.03
1205	6.10	5.52	0.078	217	6.37	+234	1.50		6.73	0.03
1210	5.60	5.50	0.077	183	6.19	+239	1.65		6.74	0.03
1215	6.17	5.49	0.073	199	7.02	+238	1.80		6.84	0.03
1220	5.90	5.51	0.075	177	6.22	+239	1.95		6.90	0.03
1225	5.98	5.51	0.074	173	6.00	+241	2.10		6.97	0.03
1230	5.21	5.54	0.076	158	6.29	+239	2.25		7.05	0.03
1235	5.17	5.55	0.076	155	6.16	+239	2.40		7.12	0.03
1240	4.97	5.55	0.076	165	6.10	+237	2.55		7.18	0.03
1245	6.53	5.47	0.076	205	7.17	+231	2.70		7.45	0.03
1250	7.63	5.45	0.073	231	6.40	+238	2.85		8.16	0.03
1255	7.09	5.51	0.074	259	6.28	+239	3.00		8.49	0.03
1300	6.06	5.51	0.075	326	6.13	+238	3.15		8.49	0.03
1305	6.37	5.49	0.073	382	6.41	+237	3.30		8.52	0.03
1310	6.20	5.45	0.073	368	5.52	+234	3.45		8.53	0.03
1315	6.17	5.41	0.072	338	5.37	+232	3.60		8.55	0.03

← purged Horiba Cell

← purged Horiba Cell

← purged Horiba Cell

## PURGE INFORMATION:

Time / Date Started: 1115 | 2/5/09  
Time Purge End: 1315 | 2/5/09  
Purge Method: Pump x Bailer  
Depth to Intake: 16.7 (ft)  
Pump Type and ID: FV172  
Purge Rate: 0.03 (gpm)  
Purged Volume: 7.20 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Gravimetric Cylinder  
Was well cavitated? Yes ☒ No ☒  
Water containerized/Amount: NA  
Gruntfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 1315 | 2/5/09  
Sampled by: TC & SF  
Sample Method: Bailer Other Pump  
Grab x Composite  
# of Bottles Collected: 26  
Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>O<sub>2</sub>  
Recovering WL: 12.50 ft BVC  
Duplicate Sampling: Yes  
Laboratory: GIL Lab Maryland  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very turbid water. Didn't clear in 24 hours of purging.

### GROUNDWATER SAMPLE LOG

NW-RS-8

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SF & TC  
Sampled by: SE & TC  
Checked by: &

Well Identification: \_\_\_\_\_  
Project Location: Madison, Indiana  
Date: 2/5/09  
Date: 2/5/09  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

1 Well Volume:  
Total Depth (17.71 ft) - Depth to Water (5.29 ft) = Height of water column (12.42 ft)  
Height of water column (12.42 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.02 gal)

Purge Volume:  
1 Well Volume (2.02 gallons) x 3 = 3 Well Volumes (6.06 gallons)  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume  
Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1320	6.44	5.38	0.071	311	5.45	234	3.75		8.55	0.03
1325	6.29	5.37	0.071	293	5.43	234	3.90		8.56	0.03
1330	6.74	5.35	0.070	277	5.55	236	4.05		8.59	0.03
1335	6.42	5.34	0.072	252	5.56	238	4.20		8.60	0.03
1340	6.23	5.33	0.072	237	5.75	240	4.35		8.58	0.03
1345	5.96	5.31	0.072	212	6.05	242	4.50		8.59	0.03
1350	6.03	5.29	0.071	194	6.23	245	4.65		8.59	0.03
1355	6.20	5.30	0.072	183	6.30	247	4.80		8.60	0.03
1400	6.54	5.29	0.070	173	6.35	247	4.95		8.61	0.03
1405	6.34	5.28	0.072	155	6.65	250	5.10		8.62	0.03
1410	7.12	5.29	0.069	151	6.67	251	5.25		8.64	0.03
1415	6.46	5.30	0.071	139	6.69	252	5.40		8.66	0.03
1420	6.81	5.30	0.070	131	6.96	254	5.55		8.68	0.03
1425	7.12	5.32	0.070	130	6.78	254	5.70		8.70	0.03
1430	6.77	5.31	0.070	123	7.09	254	5.85		8.72	0.03
1435	6.89	5.32	0.070	121	7.05	255	6.00		8.74	0.03
1440	6.22	5.33	0.070	122	7.02	255	6.15		8.74	0.03
1445	7.01	5.33	0.069	119	7.00	255	6.30		8.75	0.03
1450	6.81	5.34	0.070	116	7.11	256	6.45		8.76	0.03
1455	6.54	5.34	0.070	111	7.42	257	6.60		8.79	0.03
1500	6.54	5.36	0.070	109	7.25	257	6.75		8.79	0.03
1505	6.64	5.34	0.069	104	7.33	258	6.90		8.79	0.03
1510	6.63	5.34	0.070	101	7.35	259	7.05		8.79	0.03
1515	6.68	5.35	0.070	99.8	7.37	260	7.20		8.79	0.03

Sample after  
all parameters  
stable except  
turbidity in  
4 hours

**PURGE INFORMATION:**

Time / Date Started: 1415 2/5/09  
Time Purge End: 1515 2/5/09  
Purge Method: Pump x Bailer  
Depth to Intake: 16.7 (ft)  
Pump Type and ID: FV16  
Purge Rate: 0.03 (gpm)  
Purged Volume: 7.20 (gal)  
Water Quality Meter: Horiba U-22B  
How was yield measured? Graduated Cylinder  
Was well cavitating? Yes ☒ No ☒  
Water containerized/Amount NA  
Gruntfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1515 2/5/09  
Sampled by: TC & SE  
Sample Method: Bailer Other Pump  
Grab x Composite  
# of Bottles Collected: 26  
Bottle Preservatives: None, HNO3, H2SO4  
Recovering WL: ~12.50 ft BSL  
Duplicate Sampling: YES  
Laboratory: GPC Lab Mangled  
COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very turbid water; didn't clear in 4 hours of purging





Well Identification: WPC-00-010  
 Project Location: Madison, Indiana  
 Date: \_\_\_\_\_  
 Date: 2-19-09  
 Date: \_\_\_\_\_

Circle diameter and K used below:

1" I.D.	K=0.041 gal/ft
2" I.D.	K=0.163 gal/ft
4" I.D.	K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (112.69 ft) - Depth to Water (5.17 ft) = Height of water column (107.52 ft)  
Height of water column (107.52 ft) x K value (0.000009 gal/ft) = 1 Well Volume (0.97 gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump   x   Bailor \_\_\_\_\_  
 Depth to Intake:   III   (ft) \_\_\_\_\_  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_  
 \_\_\_\_\_ NA (Hertz)

Time / Date Started: 1300 | 1-14-09  
 Sampled by: ML & ML  
 Sample Method: Bailor \_\_\_\_\_ Other Pump *notasker*  
 Grab x \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: H103, H98, 1000  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
Well not purged due to slow recharge. Sampled w/ hydrameter. Filled all bottles





Well Identification: \_\_\_\_\_  
Project Location: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

[illegible]

Time / Date Started: 843 1 2/19/01  
 Sampled by: TC & ST  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X \_\_\_\_\_ Composite 13 \_\_\_\_\_  
 # of Bottles Collected: \_\_\_\_\_  
 Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 18.05 feet BRIC  
 Duplicate Sampling: No  
 Laboratory: GR - Maryland  
 CQG Form: \_\_\_\_\_

F-253



Well Identification: UFG-00-020  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 2-18-09  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.489 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (121.86 ft) - Depth to Water (121.27 ft) = Height of water column (0.59 ft)  
Height of water column (0.59 ft) x K value (1.68 gal/ft) = 1 Well Volume (1.0 gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$

Purge Rate (                      gpm) x (                      min) = 3 Well Volume

[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_ (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: \_\_\_\_\_ Honda U-22#  
 How was yield measured?  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

Time / Date Started: 0835 | 1-18-0  
 Sampled by: MJL & DL  
 Sample Method: Bailer X Other Composite  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: Wb-H<sub>2</sub>SO<sub>4</sub>-none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
Well not used due to low yield and small LSC samples bailed. Well abandoned  
after 16 hrs use 1 unit. Hg.



JPB-DV-030

Well Identification: SPB-BU-450  
Project Location: Madison, Indiana  
Date: 2/17/09  
Date: 2/17/09  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" ID, K=4.08 gal/ft

Total Depth (27.89 ft) - Depth to Water (5.69 ft) = Height of water column (22.2 ft)  
Height of water column (22.2 ft) x K value (0.163 gal/ft) = 1 Well Volume (3.62 gal)

1 Well Volume ( 3.62 gallons) x 3 = 3 Well Volumes ( 10.86 gallons)

Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

[illegible]

← pengalutatan  
cell

Time / Date Started: 1109 | 2/17/09  
 Time Purge End: 1224 | 2/17/09  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: ~26.8 (ft)  
 Pump Type and ID: Fultz Pump  
 Purge Rate: 0.58 (gpm)  
 Purged Volume: 6.0 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? graduated cylinder  
 Was well cavitated? Yes \_\_\_\_\_ No x  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

Time / Date Started: 1225 | 1 2/19/04  
 Sampled by: TL & VF  
 Sample Method: Bailer Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: B  
 Bottle Preservatives: Nb, H<sub>2</sub>O<sub>2</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 9.69 feet BPVL  
 Duplicate Sampling: NO  
 Laboratory: ORL May/ed  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

**GROUNDWATER SAMPLE LOG**

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SE & TL  
Sampled by: SE & TL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: SP6-D-031  
Project Location: Madison, Indiana  
Date: 2/17/09  
Date: 2/17/09  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft  
6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Min Volume =  
5.14 gal

1 Well Volume: 56.13 ft - Depth to Water ( 8.52 ft) = Height of water column ( 56.13 ft)  
Height of water column ( 56.13 ft) x K value ( 0.163 gal/ft) = 1 Well Volume ( 9.15 gal)

Purge Volume: 9.15 gallons x 3 = 3 Well Volumes ( 27.45 gallons)  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 1 Well Volume  
Purge Rate ( \_\_\_\_\_ gpm) x ( \_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1304	10.37	7.42	1.35	111	7.69	26	—		7.33	0.05
1309	11.51	7.37	1.37	999	0.49	-110	0.25		8.94	0.05
1314	10.84	7.49	1.35	999	0.00	-122	0.50		9.78	0.05
1319	10.09	7.41	1.34	999	0.00	-123	0.75		10.32	0.05
1324	9.06	7.47	1.35	226	10.04	-102	1.0		11.00	0.05
1329	9.42	7.40	1.39	650	0.32	-98	1.25		12.25	0.05
1334	10.03	7.43	1.38	214	3.45	-79	1.50		13.82	0.05
1339	11.47	7.35	1.38	999	0.00	-117	1.75		15.31	0.05
1344	11.08	7.37	1.40	999	0.00	-130	2.0		16.39	0.05
1349	11.35	7.39	1.37	999	0.95	-106	2.25		17.59	0.05
1354	12.44	7.38	1.36	328	0.02	-94	2.5		20.52	0.05
1359	12.29	7.39	1.36	268	0.00	-91	2.75		21.67	0.05
1404	11.88	7.39	1.37	124	0.00	-83	3.0		23.25	0.05
1409	11.85	7.39	1.36	108	0.00	-79	3.25		24.41	0.05
1414	11.72	7.39	1.36	58.5	0.00	-77	3.5		25.41	0.05
1419	11.73	7.40	1.36	40.6	0.10	-74	3.75		26.91	0.05
1424	11.85	7.43	1.36	73.4	0.33	-70	4.0		27.66	0.05
1429	11.68	7.43	1.36	51.7	0.46	-67	4.25		28.33	0.05
1434	11.34	7.44	1.37	37.6	0.86	-64	4.5		29.47	0.05
1439	11.32	7.49	1.37	28.7	1.16	-61	4.75		29.85	0.05
1444	10.91	7.50	1.37	32.6	1.32	-56	5.0		31.28	0.05
1449	11.76	7.50	1.36	24.8	1.65	-52	5.25		32.37	0.05
1454	11.42	7.52	1.36	24.5	1.83	-49	5.5		33.21	0.05
1459	11.98	7.53	1.36	23.0	1.92	-44	5.75		34.19	0.05
1504	11.78	7.55	1.36	23.7	2.12	-39	6.0		35.04	0.05

← Purged Hünke cell

← Purged Hünke cell

**PURGE INFORMATION:**

Time / Date Started: 1304 | 2/17/09  
Time Purge End: 1509 | 2/17/09  
Purge Method: Pump X Bailer \_\_\_\_\_  
Depth to Intake: ~63.5 (ft)  
Pump Type and ID: Foot  
Purge Rate: 0.05 (gpm)  
Purged Volume: 6.25 (gal)  
Water Quality Meter: Horiba U-22  
How was yield measured? Graded cylinder  
Was well cavitating? Yes \_\_\_\_\_ No X  
Water containerized/Amount \_\_\_\_\_ NA  
Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1510 | 2/17/09  
Sampled by: TL & SE  
Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
Grab X Composite \_\_\_\_\_  
# of Bottles Collected: 13  
Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>O<sub>2</sub>  
Recovering WL: 50.75 feet BGL  
Duplicate Sampling: No  
Laboratory: GPL Mays  
COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SF & TC  
Sampled by: SF & TC  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: TPG- DU-03F  
 Project Location: Madison, Indiana  
 Date: 2/17/09  
 Date: 2/17/09  
 Date: 2/17/09

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (74.65 ft) - Depth to Water (8.52 ft) = Height of water column (56.13 ft)  
Height of water column (56.13 ft) x K value (0.163 gal/ft) = 1 Well Volume (9.15 gal)

1 Well Volume ( 9.45 gallons) x 3 = 3 Well Volumes ( 27.45 gallons)

Purge Rate (                  gpm) x (                  min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

[illegible]

Time / Date Started: 1304 | 2/17/09  
Time Purge End: 1509 | 2/17/09  
Purge Method: Pump X Bailer \_\_\_\_\_  
Depth to Intake: 263.5 (ft)  
Pump Type and ID: Fulton pump  
Purge Rate: 6.85 (gpm)  
Purged Volume: 6.25 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? Grad. Cylinder  
Was well cavitated? Yes \_\_\_\_\_ No X  
Water concentration/Amount \_\_\_\_\_ NA  
Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

CRAB AND INFORMATION

Time / Date Started: 5:40 | 2/17/09

Sampled by: TL & SF

Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_

Grab x \_\_\_\_\_ Composite \_\_\_\_\_

# of Bottles Collected: 13

Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>

Recovering WL: 56.75 feet BPLC

Duplicate Sampling: No

Laboratory: GA Maryland

COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SF & TC  
 Sampled by: SF & TC  
 Checked by: &  
 Well Identification: JP6-DU-040  
 Project Location: Madison, Indiana  
 Date: 2/19/09  
 Date: 2/19/09  
 Date:

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

## 1 Well Volume:

Total Depth (50.17 ft) - Depth to Water (12.05 ft) = Height of water column (38.12 ft)  
 Height of water column (38.12 ft) x K value (0.163 gal/ft) = 1 Well Volume (6.21 gal)

## Purge Volume:

1 Well Volume (6.21 gallons) x 3 = 3 Well Volumes (18.63 gallons)

Purge Rate (gpm) x (min) = 1 Well Volume

Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
953	11.17	7.43	0.941	999	6.59	-95	—		12.47	0.06
958	10.78	7.45	0.989	999	6.26	-145	0.3		12.58	0.06
1003	10.34	7.50	1.01	999	0.99	-146	0.6		12.67	0.06
1008	9.85	7.54	1.02	999	0.12	-149	0.9		12.67	0.06
1013	9.20	7.51	1.01	905	0.00	-150	1.2		12.68	0.06
1018	8.52	7.52	1.01	534	0.12	-150	1.5		12.79	0.06
1023	8.52	7.53	1.00	428	0.13	-150	1.8		12.86	0.06
1028	8.38	7.53	1.01	384	0.64	-149	2.1		12.88	0.06
1033	7.21	7.55	1.04	267	0.67	-146	2.4		12.91	0.06
1038	8.21	7.58	1.00	309	6.88	-135	2.7		13.12	0.06
1043	9.12	7.55	1.01	238	1.36	-137	3.0		13.19	0.06
1048	9.49	7.56	1.00	228	0.63	-138	3.3		13.25	0.06
1053	8.19	7.55	1.04	201	0.25	-137	3.6		13.22	0.06
1058	7.75	7.55	1.03	176	0.13	-135	3.9		13.23	0.06
1103	7.84	7.54	1.02	160	0.12	-134	4.2		13.29	0.06
1108	8.08	7.55	1.01	159	0.32	-133	4.5		13.33	0.06
1113	9.06	7.57	0.99	187	5.59	-129	4.8		13.33	0.06
1118	13.60	7.52	1.01	155	2.28	-134	5.1		14.31	0.06
1123	10.91	7.54	1.05	65.6	0.88	-133	5.4		14.04	0.06
1128	10.57	7.54	1.04	56.4	0.66	-132	5.7		14.06	0.06
1133	10.46	7.53	1.04	52.5	0.55	-132	6.0		14.07	0.06
1138	10.07	7.54	1.04	44.5	0.68	-131	6.3		14.09	0.06
1143	9.87	7.54	1.04	44.1	0.67	-130	6.6		14.17	0.06
1148	8.98	7.54	1.06	65.9	0.72	-129	6.9		14.14	0.06
1153	11.59	7.51	1.06	137	1.30	-131	7.2		14.76	0.06

← Purge Horiba cell

← Purge Horiba cell

← Purge Horiba cell

Surge pump.

## PURGE INFORMATION:

Time / Date Started: 953 2/19/09  
 Time Purge End: 1353 2/19/09  
 Purge Method: Pump x Bailer  
 Depth to Intake: ~49 (ft)  
 Pump Type and ID: Full  
 Purge Rate: 0.06 (gpm)  
 Purged Volume: 4.4 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Graduated cylinder  
 Was well cavitating? Yes No x  
 Water containerized/Amount: NA  
 Grunfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 1353 2/19/09  
 Sampled by: SF & TC  
 Sample Method: Bailer Other Pump  
 Grab x Composite  
 # of Bottles Collected: 13 bottles  
 Bottle Preservatives: HNO3 / H2SO4  
 Recovering WL: 16.53 feet BPTC  
 Duplicate Sampling: N/A  
 Laboratory: GPL - Maryland  
 COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

### GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SF & TC  
 Sampled by: SF & TC  
 Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: SPB-DU-040  
 Project Location: Madison, Indiana  
 Date: 2/19/09  
 Date: 2/19/09  
 Date: \_\_\_\_\_

#### WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

#### 1 Well Volume:

Total Depth (50.17 ft) - Depth to Water (12.45 ft) = Height of water column (38.12 ft)  
 Height of water column (38.12 ft) x K value (0.163 gal/ft) = 1 Well Volume (6.21 gal)

#### Purge Volume:

1 Well Volume (6.21 gallons) x 3 = 3 Well Volumes (18.63 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mV	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1158	11.92	7.52	1.45	149	2.14	-131	7.5		14.94	0.06
1203	9.34	7.52	1.47	146	0.68	-134	7.8		14.71	0.06
1208	12.87	7.56	1.47	111	0.40	-135	8.1		16.09	0.06
1213	11.09	7.50	1.46	119	0.34	-134	8.4		15.73	0.06
1218	10.92	7.60	1.45	127	0.33	-134	8.7		15.65	0.06
1223	10.99	7.60	1.44	141	0.36	-134	9.0		15.65	0.06
1228	11.29	7.52	1.43	132	0.37	-134	9.3		15.64	0.06
1233	10.43	7.52	1.46	220	1.40	-131	9.6		15.48	0.06
1238	8.23	7.51	1.48	223	0.43	-130	9.9		15.35	0.06
1243	8.46	7.51	1.45	222	0.25	-129	10.2		15.36	0.06
1248	8.19	7.50	1.44	239	0.20	-128	10.5		15.34	0.06
1253	8.76	7.51	1.42	213	0.23	-128	10.8		15.34	0.06
1258	8.66	7.50	1.43	219	0.22	-128	11.1		15.36	0.06
1303	8.78	7.51	1.42	232	0.22	-128	11.4		15.35	0.06
1308	9.27	7.51	1.42	244	0.19	-128	11.7		15.38	0.06
1313	10.02	7.50	1.41	164	0.18	-129	12.0		15.36	0.06
1318	9.32	7.50	1.44	232	0.14	-129	12.3		15.38	0.06
1323	7.88	7.51	1.42	231	0.09	-129	12.6		15.38	0.06
1328	10.32	7.51	1.41	209	0.12	-129	12.9		15.42	0.06
1333	8.22	7.50	1.47	213	0.05	-129	13.2		15.37	0.06
1338	8.84	7.50	1.43	211	0.00	-128	13.5		15.44	0.06
1343	7.53	7.50	1.46	210	0.00	-129	13.8		15.39	0.06
1348	8.00	7.52	1.43	197	0.00	-128	14.1		15.39	0.06
1353	8.27	7.51	1.41	190	0.00	-128	14.4		15.39	0.06

Purge Horiba cell

#### PURGE INFORMATION:

Time / Date Started: 0953 | 2/19/09  
 Time Purge End: 1353 | 2/19/09  
 Purge Method: Pump x Bailer \_\_\_\_\_  
 Depth to Intake: ~ 49 (ft)  
 Pump Type and ID: Pulse pump  
 Purge Rate: 0.06 (gpm)  
 Purged Volume: 14.4 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? Grad. Cylinder  
 Was well cavitating? Yes \_\_\_\_\_ No x  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

#### SAMPLING INFORMATION:

Time / Date Started: 1353 | 2/19/09  
 Sampled by: SF & TC  
 Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13 bottles  
 Bottle Preservatives: HNO3 / H2SO4  
 Recovering WL: 16.53 ft SPVC  
 Duplicate Sampling: NA  
 Laboratory: GPL - Maryland  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)



## GROUNDWATER SAMPLE LOG

Project Name:	Jefferson Proving Ground	
Project Number:	01-1633-04-9381-310	
Purged by:	CF	TL
Sampled by:	CF	TL
Checked by:		

Well Identification: JPB-LW-011

Project Location: Madison, Indiana

Date: 2/19/09

Date: 2/19/09

Date:

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**1 Well Volume:**

1 Well Volume: Total Depth (68.64 ft) - Depth to Water (12.38 ft) = Height of water column (56.26 ft)  
Height of water column (56.26 ft) x K value (0.163 gal/ft) = 1 Well Volume (9.17 gal)

**Purge Volume:**

1 Well Volume ( 9.17 gallons) x 3 = 3 Well Volumes ( 27.5 gallons)

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 1 Well Volume

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

[illegible]

← purge turbo cell

**PURGE INFORMATION:**

Time / Date Started: 1437 2/19/09  
 Time Purge End: 1527 2/19/09  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: ~ 65 (ft)  
 Pump Type and ID: FAIR  
 Purge Rate: 12-18 (gpm)  
 Purged Volume: 5.0 (gal)  
 Water Quality Meter: Horiba U-22#  
 How was yield measured? graduated cylinder  
 Was well cavitated? Yes \_\_\_\_\_ No X  
 Water containerized/Amount \_\_\_\_\_ NA  
 Grunfos controller set @ \_\_\_\_\_ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1527 1 2/19/81  
 Sampled by: TC & SF  
 Sample Method: Bailor Other Pump  
 Grab X Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 13.19 Feet BNL  
 Duplicate Sampling: No  
 Laboratory: GPR mayslab  
 COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
At 502, turbidity (red) flashing @ 0.7; visual observation shows water is very clear





Well Identification: 586-05-040  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 2-17-69  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (101.95 ft) - Depth to Water (42.73 ft) = Height of water column (59.22 ft)  
Height of water column (59.22 ft) x K value (0.00015 gal/ft) = 1 Well Volume (0.008883 gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$

Purge Rate (\_\_\_\_\_ gpm) x (\_\_\_\_\_ min) = 3 Well Volume

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_  
 Depth to Intake: \_\_\_\_\_ 95' (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Horiba U-22# \_\_\_\_\_  
 How was yield measured? \_\_\_\_\_  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_  
 Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 0830 | 2-17-09  
 Sampled by: MSL & DJ  
 Sample Method: Bailor \_\_\_\_\_ Other Hydrocleeve  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>O<sub>2</sub>, none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Collected all bottles to min vol requirements. Sulfur odor.



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SF & TC  
 Sampled by: SF & TL  
 Checked by: &

Well Identification: JP6-DJ-05I  
 Project Location: Madison, Indiana  
 Date: 2/16/09  
 Date: 2/16/09  
 Date:

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.183 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

## 1 Well Volume:

Total Depth (38.5 ft) - Depth to Water (6.78 ft) = Height of water column (31.72 ft)  
 Height of water column (31.72 ft) x K value (0.183 gal/ft) = 1 Well Volume (5.81 gal)

## Purge Volume:

1 Well Volume (5.81 gallons) x 3 = 3 Well Volumes (17.43 gallons)

Purge Rate (gpm) x (min) = 1 Well Volume

Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
955	8.97	7.63	0.832	87.7	1.96	160	—		6.58	0.01
1000	8.03	7.60	0.856	36.6	1.57	107	0.05		6.88	0.03
1005	7.42	7.45	0.861	25.8	1.06	78	0.20		7.55	0.03
1010	8.74	7.55	0.851	38.3	2.03	19	0.35		8.88	0.05
1015	10.29	7.55	0.837	0.0*	1.10	-21	0.60		10.28	0.05
1020	10.16	7.55	0.840	0.0*	0.0	-65	0.85		10.99	0.05
1025	9.28	7.56	0.859	0.0*	0.0	-85	1.10		11.27	0.05
1031	11.31	6.61	0.802	0.0*	2.53	10	1.40		13.58	0.05
1035	10.26	6.99	0.818	0.0*	1.82	-32	1.65		13.88	0.05
1040	9.59	7.06	0.813	0.0*	1.59	-53	1.90		14.30	0.05
1045	7.80	7.28	0.840	0.0*	1.39	-64	2.15		14.58	0.05
1050	8.27	7.30	0.807	0.0*	1.29	-68	2.40		14.88	0.05
1055	8.54	7.30	0.809	0.0*	1.04	-73	2.65		15.22	0.05
1100	8.33	7.32	0.813	0.0*	0.99	-74	2.90		15.45	0.05
1105	9.22	7.34	0.798	0.0*	1.05	-76	3.15		15.63	0.05
1110	8.52	7.36	0.819	0.0*	1.04	-75	3.40		15.71	0.05
1115	9.28	7.36	0.801	0.0*	0.77	-80	3.65		16.15	0.05
1120	9.49	7.36	0.804	0.0*	0.72	-83	3.90		16.35	0.05
1125	9.39	7.36	0.811	0.0*	1.02	-83	4.15		16.45	0.05
1130	8.73	7.37	0.825	0.0*	1.05	-83	4.40		16.55	0.05
1135	7.99	7.37	0.830	0.0*	0.78	-86	4.65		16.60	0.05
1140	6.74	7.38	0.844	0.0*	0.66	-87	4.90		16.60	0.05
1145	8.53	7.40	0.824	0.0*	0.57	-90	5.15		16.92	0.05
1150	10.26	7.36	0.797	0.0*	0.37	-92	5.40		17.42	0.05
1155	9.71	7.37	0.810	0.0*	0.35	-94	5.65		17.62	0.05

← re calibrate No to try and fix 0.0 flashing for turbidity

## PURGE INFORMATION:

Time / Date Started: 955 | 2/16/09  
 Time Purge End: 1220 | 2/16/09  
 Purge Method: Pump x Balier  
 Depth to Intake: ~37.5 (ft)  
 Pump Type and ID: Fullz  
 Purge Rate: 0.01-0.05 (gpm)  
 Purged Volume: 6.90 (gal)  
 Water Quality Meter: Horiba U-22  
 How was yield measured? (gradually) Grunk  
 Was well cavitated? Yes No X  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 1220 | 2/16/09  
 Sampled by: TC & SF  
 Sample Method: Balier Other Pump  
 Grab x Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, nitrate, nitrite  
 Recovering WL: 26.4 feet BVC  
 Duplicate Sampling: NO  
 Laboratory: 6PL (Meyers)  
 COC Form:

## ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

At 1010 - called control show flow rate - had to purge at high rate to maintain a purge outlet. Water level dropping as a result.

\* = Horiba flashing 0.0 for turbidity readings





Well Identification: JPG. 00. 050  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 2.17.09  
Date: \_\_\_\_\_

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

[illegible]

Time / Date Started: 0955 | 1-17-00  
 Sampled by: CDL & DL  
 Sample Method: Bailor X Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

Will not purge due to low yield and small size. All bottles collected



# GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SC & TC  
 Sampled by: SC & TC  
 Checked by: SC & TC

Well Identification: JPU-DU-060  
 Project Location: Madison, Indiana  
 Date: 2/18/09  
 Date: 2/18/09  
 Date:

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft  
 6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

1 Well Volume: 23.46 ft - Depth to Water (6.34 ft) = Height of water column (17.12 ft)  
 Total Depth (23.46 ft) - Depth to Water (6.34 ft) = Height of water column (17.12 ft)  
 Height of water column (17.12 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.79 gal)  
 Purge Volume: 2.79 gallons x 3 = 3 Well Volumes (8.37 gallons)  
 1 Well Volume (2.79 gallons) x 3 = 3 Well Volumes (8.37 gallons)  
 Purge Rate (gpm) x (min) = 1 Well Volume  
 Purge Rate (gpm) x (min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
7:50	11.61	6.85	0.891	999	7.31	227			6.88	0.08
8:03	10.98	6.36	0.895	999	2.37	144	0.4		6.55	0.08
8:08	11.59	6.45	0.888	999	1.68	125	0.8		7.38	0.10
8:13	11.16	6.51	0.885	999	1.05	130	1.3		7.30	0.10
8:18	11.85	6.53	0.902	999	0.33	129	1.8		7.39	0.10
8:23	11.86	6.57	0.905	999	0.49	132	2.3		7.35	0.10
8:28	11.97	6.57	0.906	999	0.05	134	2.8		7.48	0.10
8:33	11.90	6.60	0.912	999	0.53	132	3.3		7.35	0.10
8:38	11.70	6.59	0.920	999	0.03	112	3.8		7.23	0.10
8:43	12.16	6.60	0.908	999	0.06	85	4.3		8.38	0.10
8:48	12.15	6.59	0.910	999	0.02	71	4.8		8.06	0.10
8:53	12.15	6.60	0.914	999	0.01	63	5.3		8.04	0.10
8:58	12.13	6.59	0.915	999	0.07	54	5.8		8.08	0.10
9:03	12.22	6.60	0.930	999	0.39	62	6.3		8.06	0.10
9:08	12.19	6.60	0.930	999	0.03	51	6.8		8.11	0.10
9:13	12.23	6.60	0.930	936	0.00	43	7.3		8.14	0.10
9:18	12.15	6.60	0.930	802	0.00	41	7.8		8.14	0.10
9:23	12.16	6.60	0.930	648	0.57	52	8.3		8.13	0.10
9:28	12.15	6.60	0.930	591	0.17	45	8.8		8.12	0.10
9:33	12.17	6.60	0.930	519	0.03	40	9.3		8.15	0.10
9:38	12.25	6.60	0.930	461	0.01	37	9.8		8.21	0.10
9:43	12.24	6.60	0.930	427	0.00	35	10.3		8.20	0.10
9:48	12.22	6.60	0.924	410	0.42	41	10.8		8.20	0.10
9:53	12.26	6.60	0.922	422	0.13	35	11.3		8.20	0.10
9:58	12.32	6.60	0.926	415	0.00	31	11.8		8.19	0.10

PURGE INFORMATION: 158  
 Time / Date Started: 1148 2/18/09  
 Time Purge End: 2148 2/18/09  
 Purge Method: Pump X Bailer  
 Depth to Intake: -22.5 (ft)  
 Pump Type and ID: F115  
 Purge Rate: 0.08 - 0.10 (gpm)  
 Purged Volume: 228 (gal)  
 Water Quality Meter: Horiba U-228  
 How was yield measured? Groundwater  
 Was well cavitating? Yes No X  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

SAMPLING INFORMATION:  
 Time / Date Started: 1148 2/18/09  
 Sampled by: TC & SC  
 Sample Method: Bailer Other Pump  
 Grab X Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: H2O2, None, H2SO4  
 Recovering WL: 8.20 feet BPTL  
 Duplicate Sampling: No  
 Laboratory: GPC merged  
 COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very turbid water for 3 hours purged



## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
 Project Number: 01-1633-04-9381-310  
 Purged by: SF & TC  
 Sampled by: SF & TC  
 Checked by: &

Well Identification: JPL-DV-06.  
 Project Location: Madison, Indiana  
 Date: 2/18/09  
 Date: 2/18/09  
 Date:

## WELL VOLUME CALCULATION:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
 2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

## 1 Well Volume:

Total Depth (23.46 ft) - Depth to Water (6.34 ft) = Height of water column (17.12 ft)  
 Height of water column (17.12 ft) x K value (0.163 gal/ft) = 1 Well Volume (2.79 gal)

Purge Volume: 2.79 gallons x 3 = 3 Well Volumes (8.37 gallons)

1 Well Volume (gpm) x (min) = 1 Well Volume

Purge Rate (gpm) x (min) = 3 Well Volume

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1003	12.30	6.63	0.947	461	2.50	84	12.3		8.16	0.10
1008	12.31	6.60	0.940	460	0.15	52	12.8		8.11	0.10
1013	12.37	6.60	0.939	455	0.04	39	13.3		8.16	0.10
1018	12.38	6.60	0.940	472	0.04	33	13.8		8.08	0.10
1023	12.33	6.60	0.942	429	0.04	30	14.3		8.08	0.10
1028	12.38	6.60	0.941	407	0.04	27	14.8		8.01	0.10
1033	12.34	6.60	0.942	379	0.04	26	15.3		7.96	0.10
1038	12.39	6.59	0.941	303	0.04	25	15.8		8.06	0.10
1043	12.48	6.59	0.938	267	0.04	24	16.3		8.12	0.10
1048	12.37	6.59	0.941	238	0.04	25	16.8		8.18	0.10
1053	12.43	6.60	0.938	210	0.04	24	17.3		8.08	0.10
1058	12.44	6.60	0.939	171	0.04	25	17.8		8.09	0.10
1103	12.49	6.60	0.938	140	0.04	24	18.3		8.29	0.10
1108	12.46	6.60	0.939	133	0.04	23	18.8		8.30	0.10
1113	12.54	6.61	0.950	85.9	0.02	48	19.3		8.38	0.10
1118	12.54	6.60	0.950	71.9	0.04	33	19.8		8.32	0.10
1123	12.53	6.60	0.950	65.1	0.04	28	20.3		8.35	0.10
1128	12.51	6.60	0.950	55.9	0.04	25	20.8		8.39	0.10
1133	12.54	6.60	0.950	55.5	0.04	23	21.3		8.23	0.10
1138	12.60	6.60	0.950	34.3	0.04	22	21.8		8.23	0.10
1143	12.59	6.59	0.950	33.3	0.04	22	22.3		8.23	0.10
1148	12.55	6.60	0.950	24.6	0.04	22	22.8		8.21	0.10

← purged water (10)

## PURGE INFORMATION:

Time / Date Started: 758 | 2/18/09  
 Time Purge End: 1148 | 2/18/09  
 Purge Method: Pump ☒ Bailer  
 Depth to Intake: ~ 22.5 (ft)  
 Pump Type and ID: Full  
 Purge Rate: 0.48 - 0.10 (gpm)  
 Purged Volume: 22.8 (gal)  
 Water Quality Meter: Horiba U-22F  
 How was yield measured? graduated cylinder  
 Was well cavitating? Yes No ☒  
 Water containerized/Amount NA  
 Grundfos controller set @ NA (Hertz)

## SAMPLING INFORMATION:

Time / Date Started: 1148 | 2/18/09  
 Sampled by: TC & SF  
 Sample Method: Bailer Other Pump  
 Grab ☒ Composite  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO3, NaOH, H2SO4  
 Recovering WL: 8.20 feet BSL  
 Duplicate Sampling: No  
 Laboratory: GPR Maryland  
 COC Form:

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Very turbid water for 3 hours purged



586-DJ-061

Well Identification: \_\_\_\_\_  
Project Location: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**Circle diameter and K used below:**

6" I.D.,  $K=1.469$  gal/ft

8" I.D.,  $K=2.61$  gal/ft

10" ID, K=4.08 gal/ft

1 Well Volume:  
Total Depth (50.54 ft) - Depth to Water (11.29 ft) = Height of water column (39.25 ft)  
Height of water column (39.25 ft) x K value (0.163 gal/ft) = 1 Well Volume (6.4 gal)

1 Well Volume ( 6.4 gallons) x 3 = 3 Well Volumes ( 19.2 gallons)

$$\text{Purge Rate ( } \quad \text{ gpm) } \times ( \quad \text{ min) } = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$

← Purple Horned  
Cen

Time / Date Started: 1400 1 2/18/02  
 Sampled by: EC & SF  
 Sample Method: Bailer Other Pump  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 13 0  
 Bottle Preservatives: Nac, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 12.72 feet BPG  
 Duplicate Sampling: No  
 Laboratory: OR Maryland  
 COC Form: \_\_\_\_\_

F-267



Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: SF & TL  
Sampled by: SF & TL  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JP6-DU-060  
Project Location: Madison, Indiana  
Date: 2/18/09  
Date: 2/18/09  
Date:

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Top of screen =  
91 feet

Minimum Volume =  
5.57 gallons

1 Well Volume: Total Depth (100.97 ft) - Depth to Water (24.72 ft) = Height of water column (76.25 ft)  
Height of water column (76.25 ft) x K value (0.163 gal/ft) = 1 Well Volume (12.4 gal)  
Purge Volume:  
1 Well Volume (12.4 gallons) x 3 = 3 Well Volumes (37.2 gallons)  
Purge Rate ( gpm) x ( min) = 1 Well Volume  
Purge Rate ( gpm) x ( min) = 3 Well Volume

[illegible]

← Angel Horta CV

1. The battery died;  
 2. Using AlC power  
 off cigarette lighter  
 via a power inverter  
 3. 2nd gen is  
 slowest flameless  
 set using the  
 power inverter

Time / Date Started: 1444 | 2118109  
Time Purge End: 1614 | 2118109  
Purge Method: Pump X Bailor  
Depth to Intake: ~ 98 (ft)  
Pump Type and ID: Fujie  
Purge Rate: 0.05 - 0.20 (gpm)  
Purged Volume: 7.50 (gal)  
Water Quality Meter: Horiba U-22#  
How was yield measured? gravimetric Cyl-L  
Was well cavitated? Yes      No X  
Water containerized/Amount      NA  
Grunfos controller set @      NA (Hertz)

Time / Date Started: 1615 | 1 2/18/09  
 Sampled by: TC & SF  
 Sample Method: Bailor \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X \_\_\_\_\_ Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: None, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>  
 Recovering WL: 64.9 feet BWC  
 Duplicate Sampling: No  
 Laboratory: GL Maylan  
 CQC Form: \_\_\_\_\_

\* = ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)  
At 1514, turbidity is flashing @; visual observation shows that the water is very clear  
At 1554, portable Fulton battery died; using a cigarette lighter from vehicle as power source  
At 1559, slowest controlled flowrate is 0.3 gpm using power inverter







Well Identification: UFG-DU-070  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 2-27-09  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Total Depth (173.95 ft) - Depth to Water (120.16 ft) = Height of water column (53.79 ft)  
Height of water column (53.79 ft) x K value (0.00015 gal/ft) = 1 Well Volume (8.07 gal)

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

$$\text{Purge Rate (gpm)} \times (\text{min}) = 1 \text{ Well Volume}$$
$$\text{Purge Rate (gpm)} \times (\text{min}) = 3 \text{ Well Volume}$$
[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ ~~100~~ 123 (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Horiba U-22#

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

Time / Date Started: 10:55 | 2:17:00  
 Sampled by: MDL & DL  
 Sample Method: Baller x Other Pump  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 13  
 Bottle Preservatives: HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

Well not passed due to low yield and small LC. Collected all bottles to meet vol requirements



Well Identification: WPG-00-081  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 07/09  
Date: \_\_\_\_\_

Circle diameter and K used below:

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

Purge Rate (                  gpm) x (                  min) = 3 Well Volume

**PURGE INFORMATION:**

**SAMPLING INFORMATION:**

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Will not pump due to low yield and small LC. Samples bailed. Collected all bottles



Well Identification: 46-00-080  
Project Location: Madison, Indiana  
Date: \_\_\_\_\_  
Date: 2-17-09  
Date: \_\_\_\_\_

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
8" I.D., K=2.61 gal/ft  
10" I.D., K=4.08 gal/ft

**Purge Volume:**  
 1 Well Volume (                      gallons) x 3 = 3 Well Volumes (                      gallons)  
 Purge Rate (                      gpm) x (                      min) = 1 Well Volume  
 Purge Rate (                      gpm) x (                      min) = 3 Well Volume

[illegible]

Time / Date Started: \_\_\_\_\_ | \_\_\_\_\_  
 Time Purge End: \_\_\_\_\_  
 Purge Method: Pump x Bailor \_\_\_\_\_  
 Depth to Intake: 139 (ft)  
 Pump Type and ID: \_\_\_\_\_  
 Purge Rate: \_\_\_\_\_ (gpm)  
 Purged Volume: \_\_\_\_\_ (gal)  
 Water Quality Meter: Hontela U-22#  
 How was yield measured?  
 Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Water containerized/Amount NA  
 Grunfos controller set @ NA (Hertz)

Time / Date Started: 1305 | 1-7-09  
 Sampled by: ML & ML  
 Sample Method: Baller x Other Pumper  
 Grab x Composite \_\_\_\_\_  
 # of Bottles Collected: 1  
 Bottle Preservatives: HAC3  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

Well not sure due to low yield and small lot. Samples bailed. Collect

**GROUNDWATER SAMPLE LOG**

Project Name:	Jefferson Proving Ground	Well Identification:	JRG-DU-090
Project Number:	01-1833-04-9381-310	Project Location:	Madison, Indiana
Purged by:	<u>ML</u> & <u>DL</u>	Date:	<u>2-18-09</u>
Sampled by:	<u>ML</u> & <u>DL</u>	Date:	<u>2-18-09</u>
Checked by:	<u>ML</u> & <u>DL</u>	Date:	

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

10.59 gal screen + 6H vol

**1 Well Volume:**

Total Depth (36.70 ft) - Depth to Water (12.55 ft) = Height of water column (\_\_\_\_ ft)  
 Height of water column (\_\_\_\_ ft) x K value (\_\_\_\_ gal/ft) = 1 Well Volume (\_\_\_\_ gal)

**Purge Volume:**

1 Well Volume (\_\_\_\_ gallons) x 3 = 3 Well Volumes (\_\_\_\_ gallons)  
 Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 1 Well Volume  
 Purge Rate (\_\_\_\_ gpm) x (\_\_\_\_ min) = 3 Well Volumes

*included flow cell*

Time	Temp °C	pH	Cond µm/cm	Turbidity NTU	DO mg/L	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
12:30	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:31	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:32	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:33	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:34	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:35	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:36	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:37	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:38	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:39	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:40	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:41	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:42	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:43	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:44	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:45	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:46	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:47	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:48	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:49	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:50	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:51	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:52	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:53	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:54	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:55	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:56	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:57	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:58	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
12:59	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07
13:00	12.5	7.2	0.00	0.0	0.0	145			12.55	0.07

**PURGE INFORMATION:**

Time / Date Started: 12:30 | 2-18-09  
 Time Purge End: 13:00  
 Purge Method: Pump ☒ Bailer ☐  
 Depth to Intake: 36.7 (ft)  
 Pump Type and ID: 1/2" #16381  
 Purge Rate: 0.07 (gpm)  
 Purged Volume: 0.07 (gal)  
 Water Quality Meter: Horiba U-22# 16381  
 How was yield measured? Calculated cup to pump  
 Was well cavitating? Yes ☐ No ☒  
 Water containerized/Amount: NA  
 Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 13:00 | 2-18-09  
 Sampled by: ML & DL  
 Sample Method: Bailer ☐ Other ☐ Pump ☒  
 Grab ☒ Composite ☐  
 # of Bottles Collected: 13  
 Bottle Preservatives: H2O2, H2O4, none  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: \_\_\_\_\_  
 Laboratory: \_\_\_\_\_  
 COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)





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## GROUNDWATER SAMPLE LOG

Project Name: Jefferson Proving Ground  
Project Number: 01-1633-04-9381-310  
Purged by: MSL & DLL  
Sampled by: \_\_\_\_\_ & \_\_\_\_\_  
Checked by: \_\_\_\_\_ & \_\_\_\_\_

Well Identification: JAG-00-0490  
Project Location: Madison, Indiana  
Date: 2-16-09  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

**WELL VOLUME CALCULATION:**

Circle diameter and K used below:

1" I.D., K=0.041 gal/ft	6" I.D., K=1.469 gal/ft
2" I.D., K=0.163 gal/ft	8" I.D., K=2.61 gal/ft
4" I.D., K=0.653 gal/ft	10" I.D., K=4.08 gal/ft

**1 Well Volume:**

Total Depth ( ) ft - Depth to Water ( ) ft = Height of water column ( ) ft  
Height of water column ( ) ft x K value ( ) gal/ft = 1 Well Volume ( ) gal

**Purge Volume:**

1 Well Volume ( \_\_\_\_\_ gallons) x 3 = 3 Well Volumes ( \_\_\_\_\_ gallons)

Purge Rate (          gpm) x (          min) = 1-Well Volume

**Purge Rate (          gpm) x (          min) = 3 Well Volume**

[illegible]

**PURGE INFORMATION:**

Time / Date Started: \_\_\_\_\_

Time Purge End: \_\_\_\_\_

Purge Method: Pump \_\_\_\_\_ x \_\_\_\_\_ Bailer \_\_\_\_\_

Depth to Intake: \_\_\_\_\_ (ft)

Pump Type and ID: \_\_\_\_\_

Purge Rate: \_\_\_\_\_ (gpm)

Purged Volume: \_\_\_\_\_ (gal)

Water Quality Meter: Honda U-22# \_\_\_\_\_

How was yield measured? \_\_\_\_\_

Was well cavitated? Yes \_\_\_\_\_ No \_\_\_\_\_

Water containerized/Amount \_\_\_\_\_ NA \_\_\_\_\_

Grunfos controller set @ \_\_\_\_\_ NA \_\_\_\_\_ (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: \_\_\_\_\_

Sampled by: \_\_\_\_\_ & \_\_\_\_\_

Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_

Grab X \_\_\_\_\_ Composite \_\_\_\_\_

# of Bottles Collected: \_\_\_\_\_

Bottle Preservatives: \_\_\_\_\_

Recovering WL: \_\_\_\_\_

Duplicate Sampling: \_\_\_\_\_

Laboratory: \_\_\_\_\_

COC Form: \_\_\_\_\_

**ADDITIONAL INFORMATION:** (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)







**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JPL/D-01 DATE COLLECTED (MM/DD/YY): 2-9-09  
TIME: 0855/0905

SAMPLING LOCATION CODE: HC-CA-03  
DESCRIPTION: N impact area cave, N side of HC

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 35°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Cave flowing. Have 4 points where flow cascades  
off bed rock shelf w/ a equal flow. 3 x 1.37 sec/500ml, 1.46 sec/500ml,  
1.31 sec/500ml. Calculate average of 3 trials x 4 for total flow.

Collected silty sed. bore u for sand on E side of cave mouth

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>50</u>	<u>cpm</u>		
TEMPERATURE:	<u>5.96</u>	<u>°C</u>		
pH:	<u>7.45</u>	<u>°C</u>		
CONDUCTIVITY:	<u>0.23</u>	<u>mS/cm</u>		
REDOX:	<u>251</u>	<u>mV</u>		
DO:	<u>10.48</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>—</u>			
TURBIDITY:	<u>2.6</u>	<u>NTU</u>		
OTHER <u>DO</u> :	<u>10</u>	<u>mg/L</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. H. H. QC Checked By: \_\_\_\_\_  
(Signature) (Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: UPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: UP-W/D-02 DATE COLLECTED (MM/DD/YY): 7-6-09  
TIME: 1435/1500

SAMPLING LOCATION CODE: BC-CA-06  
DESCRIPTION: Cave S side BC. DN area

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 32°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Cave flowing. Ice at discharge. Measured flow by stretching plastic sheeting across ledge where flow cascades to creek and directed to calibrated bucket. 3X, average 14 gals/1.5 gals

Sandy sed collected from shelf at cave mouth

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>53</u>	<u>cpm</u>		
TEMPERATURE:	<u>53</u>	<u>°C</u>		
pH:	<u>5.1</u>	<u>5.1 units</u>		
CONDUCTIVITY:	<u>188</u>	<u>µS/cm</u>		
REDOX:	<u>188</u>	<u>mV</u>		
DO:	<u>12.05</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>—</u>	<u>—</u>		
TURBIDITY:	<u>0.0</u>	<u>NTU</u>		
OTHER <u>data</u> :	<u>4</u>	<u>µg/L</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J. J. QC Checked By: \_\_\_\_\_  
(Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP.WD.03

DATE COLLECTED (MM/DD/YY): 1.5.09

TIME: 1500/1800

SAMPLING LOCATION CODE: BC-CA-09A

DESCRIPTION: Cave location draining DD area

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 100°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Cave has low flow. Collected water sample by directing flow off of bedrock ledge to sample glass w/ plastic sheeting. Measured flow by catching water off sheeting in 1L cup. 38.9 sec for 1L / 45 sec.

Collected 140. mL water from bedrock shelf where flow cascades to creek.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	418	cpm		
TEMPERATURE:	3.65	°C		
pH:	6.26	Stubs		
CONDUCTIVITY:	0.19	nS/cm		
REDOX:	158	mV		
DO:	11.92	mg/L		
ORGANIC VAPORS:				
TURBIDITY:	2.6	NTU		
OTHER <u>data</u> :	7	well		

SAMPLE TYPE: ☒ GRAB

☐ QC TRIP BLANK

☐ QC RINSATE

☐ OTHER (SPECIFY) \_\_\_\_\_

☐ SPATIAL COMPOSITE

☐ QC RINSATE

☐ TIME COMPOSITE

☐ QC FIELD BLANK

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☒ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Due to low temps, field parameters not collected at time of sample. Filled extra bottle and took back to truck because bottle damage may have occurred w/ low temps.

Field parameters collected at 1817

Recorded By: Matt J. Jy

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

PROJECT NAME: JRG

SAMPLE ID NUMBER: JP-W/D-04

DATE COLLECTED (MM/DD/YY): 2.6.09

TIME: 1310 / 1330

SAMPLING LOCATION CODE: BC-SD-03

DESCRIPTION: SW / Sed sample inside NW area

SAMPLING POINT CODE:

### DESCRIPTION

**NORTHING:**

**EASTING:**

**ELEVATION:**

**SAMPLE DEPTH CODE:**

TO

**BLS**

**SAMPLE MEDIA CODE:**

**DESCRIPTION:**

WEATHER: Sunny 20°F

ACTIVITIES IN AREA:

FIELD OBSERVATIONS: Location frozen. Shallow, obstructed flow above sample location. No location for velocity measurement.

Collected silty seeds w/ v-n. med sand, fine gravel downstream of tree stump

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PRCCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt [Signature]  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)



PROJECT NAME: JPG SAMPLE LOG SHEET

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W/D-06

DATE COLLECTED (MM/DD/YY): 2-6-09

TIME: 1000/1015

SAMPLING LOCATION CODE: BC-CA-07

DESCRIPTION: Cave on S side of BC in DU area

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 150F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Cave has 11 flow flow. Significant ice at mouth and from mouth to creek. Measured flow by stretching plastic sheeting across cave mouth and directing to 1L jug. 3X, average is 1L/min

Collected fine coarse sand w/ gravel just in side cave mouth.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>44</u>	<u>cpm</u>		
TEMPERATURE:	<u>2.68</u>	<u>°C</u>		
pH:	<u>5.97</u>	<u>std units</u>		
CONDUCTIVITY:	<u>0.29</u>	<u>ms/cm</u>		
REDOX:	<u>157</u>	<u>mV</u>		
DQ:	<u>12.09</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>-</u>			
TURBIDITY:	<u>20.7</u>	<u>NTU</u>		
OTHER <u>data</u> :	<u>7</u>	<u>unk</u>		

SAMPLE TYPE:

☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J.

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)



PROJECT NAME:

PROJECT NO:

SAMPLE ID NUMBER: RAW10-07DATE COLLECTED (MM/DD/YY): 7-10-09  
TIME: 1145/1145SAMPLING LOCATION CODE: RC-SD-08DESCRIPTION: At JPG boundary on Big Creek, SW/Est location

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy SPPF

ACTIVITIES IN AREA:

FIELD OBSERVATIONS: Upstream of bridge flow obstructed by debris. Downstream fast, deep. Unable to collect velocity measurement at this timeCollected sed upstream of bridge on N bank. Sed is silty, saturated

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	34	CPM		
TEMPERATURE:	6.19	°C		
pH:	8.99	std units		
CONDUCTIVITY:	0.13	MS/cm		
REDOX:	191	mV		
DO:	11.40	mg/L		
ORGANIC VAPORS:				
TURBIDITY:	6.6	NTU		
OTHER <u>data</u> :	4	unlabeled		

SAMPLE TYPE: ☒ GRAB☐ SPATIAL COMPOSITE☐ TIME COMPOSITE☐ QC TRIP BLANK☐ QC RINSATE☐ QC FIELD BLANK☐ OTHER (SPECIFY) \_\_\_\_\_SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: MAD/ty

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: APC PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP W10-08 DATE COLLECTED (MM/DD/YY): 24/09  
 TIME: 1510

SAMPLING LOCATION CODE: SE-01  
 DESCRIPTION: Seep N bank of Dry Creek

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS

SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 20°C ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Seep has low flow. Used 500 ml cup to measure  
Seep flow rate 3X, average 19 sec to fill 500 ml

Collected v for sand-silt sediment, small amount of gravel at seep mouth

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>34</u>	<u>cpm</u>		
TEMPERATURE:	<u>6.80</u>	<u>°C</u>		
pH:	<u>6.12</u>	<u>std unit</u>		
CONDUCTIVITY:	<u>0.25</u>	<u>mS/cm</u>		
REDOX:	<u>171</u>	<u>mV</u>		
DQ:	<u>10.47</u>	<u>mg/L</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>37.9</u>	<u>NTU</u>		
OTHER <u>DOX</u> :	<u>5</u>	<u>mg/L</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt J. [Signature] QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP.W/D.09 DATE COLLECTED (MM/DD/YY): 2-9-09  
TIME: 1100/1125

SAMPLING LOCATION CODE: CGS-BC-11  
DESCRIPTION: Cave DV impact area, N side of BC

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy/40°F ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Cave flowing. Bucket yields of water. 3 trials.  
2 3/4 gal / 1.87 sec, 3 gal / 1.14 sec, 3 gal / 1.33 sec. Mark on wall 4m from  
bottom. 4m? Calibration not visible

Collected mainly fr. gr. ss. some sand and gravel on W side of cave mouth  
saturated

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>37</u>	<u>cpm</u>		
TEMPERATURE:	<u>9.30</u>	<u>°C</u>		
pH:	<u>6.41</u>	<u>std. unit</u>		
CONDUCTIVITY:	<u>0.86</u>	<u>mS/cm</u>		
REDOX:	<u>150</u>	<u>mV</u>		
DO:	<u>10.19</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>-</u>	<u>µg/L</u>		
TURBIDITY:	<u>2.1</u>	<u>NTU</u>		
OTHER <u>DOSE</u> :	<u>7</u>	<u>µSv/hr</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Mallory QC Checked By: \_\_\_\_\_  
(Signature) (Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W/D-10

DATE COLLECTED (MM/DD/YY): 29.09

TIME: 1000/1015

DUP of sed

SAMPLING LOCATION CODE: CGS-BC-12

DESCRIPTION: DN impact area cave, N side of Big Creek

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 35°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Cave flowing 3" of water. Bucket yield at well. 3 trials  
1 3/4 gals / 4.93 sec, 1 3/4 gals / 4.89 sec, 2 gals / 5.16 sec.

Collected silt w/ V. in sand on E side of cave mouth, saturated.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	41	cpm		
TEMPERATURE:	8.04	°C		
pH:	6.12	g/L		
CONDUCTIVITY:	0.19	ms/cm		
REDOX:	260	mV		
DO:	10.21	mg/L		
ORGANIC VAPORS:	—	—		
TURBIDITY:	6.3	NTU		
OTHER <u>DOE</u> :	7	ml/hr		

SAMPLE TYPE: ☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: MADY/3

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

PROJECT NAME:

PROJECT NO.:

SAMPLE ID NUMBER: SPW/D-11DATE COLLECTED (MM/DD/YY): 2-10-09TIME: 12:50/1350061 waterSAMPLING LOCATION CODE: BC-SD-07DESCRIPTION: Downstream of NW area below Wilson Dam

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 50°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Creek has high stage and fast current. Unable to collect velocity measurement at this time.Unable to cross creek to get to sand bar where sand sample has been collected in past. N side of creek at bed rock shelf has newly deposited sand from recent higher water. Sand collected as bed sample.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	38	cpm		
TEMPERATURE:	6.19	°C		
PH:	6.20	units		
CONDUCTIVITY:	0.14	µS/cm		
REDOX:	287	mV		
DO:	11.94	mg/L		
ORGANIC VAPORS:	—	µg/L		
TURBIDITY:	7.1	NTU		
OTHER <u>dose</u> :	7	µM/l		

SAMPLE TYPE:

☒ GRAB☐ SPATIAL COMPOSITE☐ TIME COMPOSITE☐ QC TRIP BLANK☐ QC RINSATE☐ QC FIELD BLANK☐ OTHER (SPECIFY) \_\_\_\_\_SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Matt J. Jorg

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP.W/D-12

DATE COLLECTED (MM/DD/YY): 25/09

TIME: 1020/1035

SAMPLING LOCATION CODE: BC SD 06

DESCRIPTION: SS water / Sed sample upstream of Dam

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny Jof

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Pool at location frozen. Flowing water ~ 15' upstream of location collected water sample here

Collected with sds downstream of tree stump forming current break  
Collected 15/150 of sediment

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	49	cpm		
TEMPERATURE:	0.51	°C		
pH:	5.81	pH units		
CONDUCTIVITY:	0.35			
REDOX:	180	mV		
DO:	12.51	mg/L		
ORGANIC VAPORS:	—			
TURBIDITY:	0.2	NTU		
OTHER <u>doc</u> :	5	µM		

SAMPLE TYPE:

☒ GRAB

☐ SPATIAL COMPOSITE

☐ TIME COMPOSITE

☐ QC TRIP BLANK

☐ QC RINSATE

☐ QC FIELD BLANK

☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☒ NO

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Field parameters not collected at time of sample. Collected an extra 1L unpreserved and took back to truck to measure field parameters. Time at hole and 11:15. Low flows could have damaged flow by.  
Field parameters collected at 1314

Recorded By: \_\_\_\_\_

(Signature)

QC Checked By: \_\_\_\_\_

(Signature)

**SAMPLE LOG SHEET**

PROJECT NAME: KG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-W/D-13 DATE COLLECTED (MM/DD/YY): 2-9-09  
 TIME: 1300 / 1310

SAMPLING LOCATION CODE: BC SD-09  
 DESCRIPTION: Schubert / Sed upstream / background

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 45°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Creek not frozen. Slow flowing, pooled near bridge  
Collected silty sed on SE bank downstream of bridge

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>39</u>	<u>cpm</u>		
TEMPERATURE:	<u>4.32</u>	<u>°C</u>		
pH:	<u>6.83</u>	<u>dd units</u>		
CONDUCTIVITY:	<u>0.13</u>	<u>mS/cm</u>		
REDOX:	<u>248</u>	<u>mV</u>		
DO:	<u>12.13</u>	<u>mg/L</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>6.9</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>6</u>	<u>µS/L</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J. J. QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)





**PROJECT NO:**

DATE COLLECTED (MM/DD/YY): 28-09  
TIME: 1130/1255

SAMPLING LOCATION CODE: BC-TD-04  
DESCRIPTION: Trip to BC north side in DU area

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ : \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 45°F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Trip flowering. Collected water sample 1/2 mi upstream  
from mouth of trib. Water slightly turbid. Snowpack melting.  
Collected 1/2 in. red sand w/ silt on W bank of trib. Sals collected

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:				
TEMPERATURE:	36.9	°C		
pH:	5.82	pH units		
CONDUCTIVITY:	0.14	mS/cm		
REDOX:	270	mV		
DO:	13.49	% sat		
ORGANIC VAPORS:	-			
TURBIDITY:	12.5	NTU		
OTHER <u>dose</u> :	7	mg/L		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. H. J.  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)



**SAMPLE LOG SHEET**

PROJECT NAME: JPG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP.W/D-15 DATE COLLECTED (MM/DD/YY): 2-8-09  
 TIME: 1620/1700

SAMPLING LOCATION CODE: TBC SD-01  
 DESCRIPTION: Downstream of DU area on N. Trib

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 50°F ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Trib flowing. 2.05 on staff gauge. Snow  
pack melting. Water slightly turbid

Collected w/ V in sand on SE bank downstream from staff  
gauge

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>54</u>	<u>cpm</u>		
TEMPERATURE:	<u>3.87</u>	<u>°C</u>		
pH:	<u>5.98</u>	<u>ph units</u>		
CONDUCTIVITY:	<u>0.08</u>	<u>mS/cm</u>		
REDOX:	<u>19.1</u>	<u>mV</u>		
DO:	<u>12.40</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>---</u>	<u>---</u>		
TURBIDITY:	<u>10.9</u>	<u>NTU</u>		
OTHER <u>DOX</u> :	<u>6</u>	<u>u/L</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J. J. QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)



**PROJECT NO:**

DATE COLLECTED (MM/DD/YY): 2-8-09  
TIME: 1435/1450

SAMPLING LOCATION CODE: TBC. SD. 08  
DESCRIPTION: Upstream of W area on N. Trib

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION \_\_\_\_\_

NORTHING: EASTING: ELEVATION:

SAMPLE DEPTH CODE: \_\_\_\_\_: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 50°F ACTIVITIES IN AREA:

FIELD OBSERVATIONS: Trin has low flow. Iced over in areas of shallow  
disrupted flow. Not able to collect velocity measurement

Collected silty sediments, some organic material

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	34	cpm		
TEMPERATURE:	15.3	°C		
pH:	8.74	units		
CONDUCTIVITY:	0.08	MS/cm		
REDOX:	273	mV		
DO:	11.81	%R		
ORGANIC VAPORS:	-			
TURBIDITY:	1.2	NTU		
OTHER <u>dose</u> :	5	µR		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: M. J. J.  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)

# SAMPLE LOG SHEET

PROJECT NAME: JPG

PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JPLW/D-17

DATE COLLECTED (MM/DD/YY): 2-3-08  
TIME: 1235/1300

SAMPLING LOCATION CODE: MF-SD-01

DESCRIPTION: Surface water / used location upstream of DU area on MF

SAMPLING POINT CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_

EASTING: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_

: \_\_\_\_\_

TO \_\_\_\_\_

BLS

SAMPLE MEDIA CODE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

WEATHER: Snow 25°F

ACTIVITIES IN AREA: \_\_\_\_\_

FIELD OBSERVATIONS: Creek flowing at sample location. Lead over bridge location. Collected sediment sample on N bank of creek where stream bends N and form eddy at bank. Silty sediments w/ V to N sand

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>55</u>	<u>cpm</u>		
TEMPERATURE:	<u>10.1</u>	<u>°C</u>		
pH:	<u>5.84</u>	<u>pH units</u>		
CONDUCTIVITY:	<u>0.16</u>	<u>µS/cm</u>		
REDOX:	<u>21</u>	<u>mV</u>		
DO:	<u>10.1</u>			<u>10.93</u>
ORGANIC VAPORS:				
TURBIDITY:	<u>14.5</u>			
OTHER <u>DOF</u> :	<u>6</u>	<u>µM</u>		

SAMPLE TYPE: ☐ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☐ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: \_\_\_\_\_  
(Signature)

QC Checked By: \_\_\_\_\_  
(Signature)



**SAMPLE LOG SHEET**

PROJECT NAME: JGG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JP-WIO-18 DATE COLLECTED (MM/DD/YY): 2-4-09  
TIME: 1350/1300

SAMPLING LOCATION CODE: MF-SD-06L  
DESCRIPTION: Surface water / Sed location downstream of DU area on MF

SAMPLING POINT CODE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy 200F ACTIVITIES IN AREA: \_\_\_\_\_  
FIELD OBSERVATIONS: Creek partially flowing. Ice on banks and across channel at water sample location. Flow upstream obstructed by beaver and stream frozen above. Unable to collect velocity measurement.

Collected silty sed w/ some organic at NW corner of ponded water above MF-SD-06L

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>40</u>	<u>cpm</u>		
TEMPERATURE:	<u>0.78</u>	<u>°C</u>		
pH:	<u>6.16</u>	<u>adjusts</u>		
CONDUCTIVITY:	<u>0.18</u>	<u>microhm</u>		
REDOX:	<u>337</u>	<u>mV</u>		
DO:	<u>12.42</u>	<u>mg/L</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>9.0</u>	<u>NTU</u>		
OTHER <u>DOSE</u> :	<u>6</u>	<u>uS/h</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Moby QC Checked By: \_\_\_\_\_  
(Signature) (Signature)



**SAMPLE LOG SHEET**

PROJECT NAME: JAG PROJECT NO: \_\_\_\_\_

SAMPLE ID NUMBER: JR-W/O-19 DATE COLLECTED (MM/DD/YY): 2/10/09  
 TIME: 0900/1000  
MS/MSD of water

SAMPLING LOCATION CODE: ME-SO-09  
 DESCRIPTION: River to middle-bank existing facility, SW/Sed location

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Cloudy ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Creek has high stage. Evidence of creek over bridge recently. Water sample collected on downstream, W side of bridge

Collected sed sample where tree overhangs bank as previous quarter  
Upstream of bridge, W bank. Silty saturated sed.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:	<u>51</u>	<u>cpm</u>		
TEMPERATURE:	<u>5.20</u>	<u>°C</u>		
pH:	<u>5.80</u>	<u>mg/L</u>		
CONDUCTIVITY:	<u>0.4</u>	<u>mg/cm</u>		
REDOX:	<u>217</u>	<u>mV</u>		
DO:	<u>11.64</u>	<u>mg/L</u>		
ORGANIC VAPORS:	<u>—</u>			
TURBIDITY:	<u>3.5</u>	<u>NTU</u>		
OTHER <u>dose</u> :	<u>6</u>	<u>µg/L</u>		

SAMPLE TYPE: ☒ GRAB ☐ SPATIAL COMPOSITE ☐ TIME COMPOSITE  
☐ QC TRIP BLANK ☐ QC RINSATE ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO SAP SAMPLING PROCEDURE WAS FOLLOWED: ☒ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:

Recorded By: Muller QC Checked By: \_\_\_\_\_  
 (Signature) (Signature)



<b>SAMPLE LOG SHEET</b>
<div style="display: flex; justify-content: space-between;"> <span>PROJECT NAME: _____</span> <span>PROJECT NO: _____</span> </div>

SAMPLE ID NUMBER: JP-W/D-20      DATE COLLECTED (MM/DD/YY): 24-07  
 TIME: 1010/1020

SAMPLING LOCATION CODE: MF-CA-01  
 DESCRIPTION: Downgradient cave

SAMPLING POINT CODE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

NORTHING: \_\_\_\_\_ EASTING: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

SAMPLE DEPTH CODE: \_\_\_\_\_ TO \_\_\_\_\_ BLS  
 SAMPLE MEDIA CODE: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_

WEATHER: Sunny 100F      ACTIVITIES IN AREA: \_\_\_\_\_  
 FIELD OBSERVATIONS: Flow rate measured 3x w/ 500 ml cup where flow cascades off bedrock shelf. 500 ml / 2 sec (2 sec out of 3 test)  
Collected fr. red sand w/ some gravel at cave mouth where flow cascades off bedrock.

FIELD MEASUREMENTS	READING	UNITS	SERIAL NO.	LAST CALIB.
RADIOACTIVITY:				
TEMPERATURE:	<u>37.5</u>	<u>OC</u>		
pH:	<u>5.70</u>	<u>GH units</u>		
CONDUCTIVITY:	<u>0.23</u>	<u>MS/cm</u>		
REDOX:	<u>241</u>	<u>mV</u>		
DO:	<u>16.68</u>	<u>mg/l</u>		
ORGANIC VAPORS:				
TURBIDITY:	<u>8.3</u>	<u>NTU</u>		
OTHER <u>DOE</u> :	<u>7</u>	<u>with</u>		

SAMPLE TYPE: ☒ GRAB      ☐ SPATIAL COMPOSITE      ☐ TIME COMPOSITE  
☐ QC TRIP BLANK      ☐ QC RINSATE      ☐ QC FIELD BLANK  
☐ OTHER (SPECIFY) \_\_\_\_\_

SAMPLE COLLECTED: ☒ YES ☐ NO      SAP SAMPLING PROCEDURE WAS FOLLOWED: ☐ YES ☐ NO  
 IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Recorded By: [Signature]      QC Checked By: \_\_\_\_\_  
 (Signature)      (Signature)

**GROUNDWATER SAMPLE LOG**

Project Name: <u>Jefferson Proving Ground</u>	Well Identification: <u>JP6-DJ-060</u>
Project Number: <u>17874.00.09445.00.4720.23.344</u>	Project Location: <u>Madison, Indiana</u>
Purged by: <u>SF</u> & <u>ES &amp; JM</u>	Date: <u>3/29/12</u>
Sampled by: _____ & _____	Date: _____
Checked by: _____ & _____	Date: _____

**WELL VOLUME CALCULATION:**

Circle diameter and K used below: 1" I.D., K=0.041 gal/ft  
2" I.D., K=0.163 gal/ft  
 4" I.D., K=0.653 gal/ft

6" I.D., K=1.469 gal/ft  
 8" I.D., K=2.61 gal/ft  
 10" I.D., K=4.08 gal/ft

$$\frac{250\text{ml}}{20\text{sec}} \times \frac{60\text{sec}}{1\text{min}} \times \frac{1\text{L}}{1000\text{ml}} \times \frac{1\text{gal}}{3.78\text{L}} = 0.2\text{ gal/min}$$

$$\frac{250\text{ml}}{43\text{sec}} = 0.1\text{ gal/min}$$

$$= 0.08\text{ gal/min}$$

+ 0.02 gal/min  
rate

1 Well Volume: 23.46 ft - Depth to Water (4.32 ft) = Height of water column (19.14 ft)  
 Height of water column (19.14 ft) x K value (0.163 gal/ft) = 1 Well Volume (3.12 gal)  
 Purge Volume: 3.12 gallons x 3 = 3 Well Volumes (9.36 gallons)  
 Purge Rate (0.1 gpm) x (32 min) = 1 Well Volume  
 Purge Rate (0.1 gpm) x (94 min) = 3 Well Volumes

Time	Temp °C	pH	Cond mS/cm	Turbidity NTU	D.O. mg/l	ORP mv	Purged Quantity	Well Volume	Depth to Water	Purge Rate
1200	12.00	6.76	0.872	999	0.04	+223	—	—	5.74	0.2
1205	12.3	6.94	0.918	999	0.00	+217	1.0	—	5.66	0.1
1210	12.1	7.01	0.973	999	0.00	+205	1.5	—	5.93	0.1
1215	12.1	7.04	0.987	999	0.00	+185	2.0	—	6.04	0.1
1220	12.1	7.08	0.999	999	0.00	+173	2.5	—	6.06	0.1
1225	12.1	7.03	0.999	975	0.00	+147	3.0	not started	6.02	0.1
1230	11.9	7.08	0.999	999	0.00	+126	3.5	—	6.22	0.1
1235	11.9	7.17	0.888	999	0.00	+100	4.0	—	6.24	0.1
1240	11.9	7.10	0.818	832	0.00	+87	4.5	—	6.24	0.1
1245	11.9	7.22	0.806	724	0.00	+70	5.0	—	6.24	0.1
1250	11.9	7.25	0.813	628	0.00	+59	5.5	—	6.24	0.1
1255	12.1	7.27	0.774	534	0.00	+48	6.0	—	6.24	0.1
1300	12.1	7.29	0.782	461	0.00	+39	6.5	not started	6.24	0.1
1305	12.2	7.30	0.791	431	0.00	+21	7.0	—	6.24	0.1
1310	12.3	7.30	0.775	405	0.00	+25	7.5	—	6.24	0.1
1315	12.1	7.28	0.777	311	0.00	+21	8.0	—	6.24	0.1
1320	11.9	7.29	0.776	283	0.00	+17	8.5	—	6.24	0.1
1325	11.8	7.28	0.783	241	0.00	+14	9.0	—	6.24	0.1
1330	11.8	7.28	0.784	233	0.00	+13	9.5	not started	6.24	0.1
JES 3/29/12										

**PURGE INFORMATION:**

Time / Date Started: 1200 | 3/29/12  
 Time Purge End: 1330 | 3/29/12  
 Purge Method: Pump X Bailer \_\_\_\_\_  
 Depth to Intake: 20 (ft)  
 Pump Type and ID: Fultz Pump  
 Purge Rate: 0.1 (gpm)  
 Purged Volume: 9.5 (gal)  
 Water Quality Meter: Horba U-22#  
 How was yield measured? Calibrated Cup/Stopwatch  
 Yes \_\_\_\_\_ No X  
 Was well cavitating? \_\_\_\_\_  
 Water containerized/Amount 3x 500ml HNO3 + 500ml H2O2  
 Grunfos controller set @ NA (Hertz)

**SAMPLING INFORMATION:**

Time / Date Started: 1335, 1345 | 3/29/12  
 Sampled by: SF & BS  
 Sample Method: Bailer \_\_\_\_\_ Other \_\_\_\_\_ Pump \_\_\_\_\_  
 Grab X Composite \_\_\_\_\_  
 # of Bottles Collected: 9 bottles + 11 cartridges  
 Bottle Preservatives: H2O2 + HNO3  
 Recovering WL: \_\_\_\_\_  
 Duplicate Sampling: NO but 400 mg/m30  
 Laboratory: TestAmerica  
 COC Form: \_\_\_\_\_

ADDITIONAL INFORMATION: (i.e. weather conditions, problems encountered, maintenance required, unusual color/odor, etc.)

Water for kg groundwater test; fell in well (unable to stop)

## SAMPLE LOGBOOK

WORK SITE:

JEFFERSON PROVING GROUND

SOIL SAMPLE 01

START DATE:

10/07/08

END DATE:

10/12/08



8421 St. John Industrial Drive  
Suite 200  
St. Louis, MO 63114



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Recorded by: \_\_\_\_\_ QA by: \_\_\_\_\_  
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COC No.: \_\_\_\_\_

Task Team Members: CSL/AT/GP/EBS

---

Sample ID: SALC01 Station ID: JP-SC2-005

Collection Date: 10/07/08 Collection Time: 0946

Property Name: JPG Sample Location: in  
South side DU area  
South west corner

Northing (units): 430659.5934 Easting (units): 430307.4451  
4303090.51 10/24/08  
636646.57

Cover Depth (ft): 0.0-0.5 Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.0-0.5

Soil Type: COARSE SAND Rad Screen Instrument: 44-9B  
4R-A

Rad Screen Bkg. (cpm): 53cpm Rad Screen (cpm): 72cpm

DOSE RATE: 9uR

Comments: 0.0-0.5 SILT, DRY, CRUMBLY, LITTLE ROOTS,  
ORGANICS THROUGHOUT 10/16/12

Recorded by: Imanola Jut QA by: \_\_\_\_\_ Date: 10/07/08

COC No.: \_\_\_\_\_

Task Team Members: AT/CL/GP/ES

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Sample ID: SALC02 Station ID: JP6-SC2-005

Collection Date: 10/07/08 Collection Time: 0949

Property Name: JPG Sample Location: INSIDE  
SW CORNER OF DU  
10/24/08

Northing (units): 430659.5934 Easting (units): 430307.4451  
4303090.51 10/24/08  
636646.57

Cover Depth (ft): 0.5-1.0 Sample Type: SOIL, GRAB

Sample Collection Method: HAND AUGER Sample Depth: 0.5-1.0

Soil Type: COARSE SAND Rad Screen Instrument: 44-9B  
4R-A

Rad Screen Bkg. (cpm): 53cpm Rad Screen (cpm): 78cpm

DOSE RATE: 9uR

Comments: 0.5-1.0 SILT, DRY, LITTLE ROOTS, CRUMBLY,  
10/17/12

Recorded by: Imanola Jut QA by: \_\_\_\_\_ Date: 10/07/08

Task Team Members: AT/GP/ES/CL		COC No.:
Sample ID: SAIC03	Station ID: JP-SC2-005	
Collection Date: 10/07/00	Collection Time: 0953	
Property Name: TPG	Sample Location: <sup>INSIDE</sup> <del>OUTSIDE</del> OF D/A AREA	
Northing (units): <del>424059.5834</del> <sup>430309.51</sup>	Easting (units): <del>4343057.05</del> <sup>436046.57</sup>	
Cover Depth (ft): 1.0 - 2.0 FT PGS	Sample Type: SOIL	
Sample Collection Method: HAND AUGER	Sample Depth: 1.0 - 2.0	
Soil Type: CRUMBLY FINE	Rad Screen Instrument: 44-9-B	
Rad Screen Bkg. (cpm): 53 cpm	Rad Screen (cpm): 64 cpm	
Dose Rate: 9 uR	Comments: SILT LOAM, CRUMBLY/LOOSE, DRY. <sup>10/21/00</sup> 2.57/13	

Recorded by: Amanda Hunt QA by: Date: 10/07/00

Task Team Members: AT/GP/ES/CL		COC No.:
Sample ID: SAIC04	Station ID: JP-SC2-005	
Collection Date: 10/07/00	Collection Time: 0959	
Property Name: TPG	Sample Location: <sup>INSIDE</sup> <del>OUTSIDE</del> OF D/A AREA	
Northing (units): <del>424059.5834</del> <sup>430309.51</sup>	Easting (units): <del>4343057.05</del> <sup>436046.57</sup>	
Cover Depth (ft): 2.0 - 4.0	Sample Type: SOIL	
Sample Collection Method: HAND AUGER	Sample Depth: 2.0 - 4.0	
Soil Type: CRUMBLY FINE	Rad Screen Instrument: 44-9-B	
Rad Screen Bkg. (cpm): 53 cpm	Rad Screen (cpm): 63 cpm	
Dose Rate: 9 uR	Comments: SILT LOAM, TRACE CLAY, DRY. SIFT 2.57/12.	
NOTED TO BE DARK YELLOWISH BROWN (IRON) + 10YR/11 DARK GRAY		

Recorded by: Amanda Hunt QA by: Date: 10/07/00

COC No.:

Task Team Members: CASEY LITTLEFIELD (CSL)  
AT / GP / EBS

Sample ID: SAIC - 01 Station ID: JPG - SC 1 - 006

Collection Date: 10-7-08 Collection Time: 1105

Property Name: JPG Sample Location: South West Side of DU area out side

Northing (units): Easting (units):

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0 - 0.5

Soil Type: Cobbles Fork Rad Screen Instrument: 44-9-B  
MR-A

Rad Screen Bkg. (cpm): 61 cpm Rad Screen (cpm): 67 cpm  
BMR

Comments: - Took MS/MSD Duplicates  
0.0 - 0.5 10YR 6/2 fine roots 7.5 YR 5/6 iron  
structure fine  
Silt

Recorded by: CASEY LITTLEFIELD QA by: Date: 10-7-08

COC No.:

Task Team Members: CSL / AT / GP / EBS

Sample ID: SAIC - 02 Station ID: JPG - SC 1 - 006

Collection Date: 10-7-08 Collection Time: 1105

Property Name: JPG Sample Location: Out side DU South west corner

Northing (units): Easting (units):

Cover Depth (ft): 0.5 - 1 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.5 - 1

Soil Type: Cobbles Fork Rad Screen Instrument: 44-9-B  
MR-A

Rad Screen Bkg. (cpm): 61 cpm Rad Screen (cpm): 71 cpm  
BMR

Comments: 0.5 - 0.5 10YR 6/2 iron Matrix 7.5 YR 5/6  
Structure fine  
Silt

Recorded by: CSL QA by: Date: 10-7-08

Task Team Members: CSL/AT/EB5/GP COC No.: \_\_\_\_\_

Sample ID: SAIC - 03 Station ID: JPG - SC1 - 006

Collection Date: 10/7/08 Collection Time: 1111

Property Name: JPG Sample Location: out side DU  
South west corner

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 1' - 2' Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 1' - 2'

Soil Type: COBBLES FORT Rad Screen Instrument: 44-9-B

Rad Screen Bkg. (cpm): 61 cpm Rad Screen (cpm): 65 cpm  
BUR

Comments: 1-2' 10YR 6/2 IRON 75 YR 5/6  
Silt loam, Fine

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10/7/08

Task Team Members: CSL/AT/EB5/GP COC No.: \_\_\_\_\_

Sample ID: SAIC - 04 Station ID: JPG - SC1 - 006

Collection Date: 10/7/08 Collection Time: 1116

Property Name: JPG Sample Location: out side DU  
South west corner

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2' - 4' Sample Type: BOA CSU SOIL

Sample Collection Method: BORE Sample Depth: 2' - 4'

Soil Type: COBBLES FORT Rad Screen Instrument: 44-9-B

Rad Screen Bkg. (cpm): 61 cpm Rad Screen (cpm): 69 cpm  
BUR

Comments: Silt loam 10YR 6/4 Mottling common  
Depletions 10YR 7/2 Fine

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10/7/08

Task Team Members: <u>CSL/AT/EBS/GP</u>	COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JPG-SC1-007</u>
Collection Date: <u>10-7-08</u>	Collection Time: <u>1200</u>
Property Name: <u>TPG</u>	Sample Location: <u>out side DU western side</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>
Soil Type: <u>Co (COARSE FINE)</u>	Rad Screen Instrument: <u>44-9-B</u>
Rad Screen Bkg. (cpm): <u>67 cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>87 cpm</u>
Comments: <u>Silt 10 YR 7/2 Fine Roots Structure Fine</u> <u>Dup taken</u>	

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>
COC No.:		
Task Team Members: <u>CSL/AT/EBS/GP</u>		
Sample ID: <u>SALC-02</u>	Station ID: <u>JPG-SC1-007</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1205</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Out side DU western side</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Co (COARSE FINE)</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>67 cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>78 cpm</u>	
Comments: <u>Silt 10 YR 7/2 iron 7.5 YR w/ fine roots</u> <u>Depletions - few fine nodules</u> <u>Dup taken</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/AT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JPG-SCL-007</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1213</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Out side DU</u> <u>Western Side</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2'</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2'</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>62 cpm</u> <u>94R</u>	Rad Screen (cpm):	
Comments: <u>Silt loam 10YR 7/1 iron accumulations 10YR 6/0</u> <u>mottles fine common</u>		
<u>Dup taken</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10/7/08

Task Team Members: <u>CSL/AT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JPG-SCL-007</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1218</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Out side DU</u> <u>Western Side</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2'-4'</u>	Sample Type:	
Sample Collection Method: <u>BORE</u> <u>HAND AUGER</u>	Sample Depth: <u>2'-4'</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>82 cpm</u> <u>94R</u>	Rad Screen (cpm):	
Comments: <u>Silt loam 10YR 7/1 iron accumulations 10YR 4/0</u> <u>mottles common structure fine</u>		
<u>Dup taken</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/AT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JPG-SC2-006</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1307</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU area western side above Crd.</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0-.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0-.5</u>	
Soil Type: <u>Hard Auger Co</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>72cpm</u>	Rad Screen (cpm): <u>84R 71cpm</u>	
Comments: <u>silt 10YR 7/1 iron accumulation 7.5YR 6/6</u> <u>fine roots common</u> <u>DUP</u> <u>Hardwood Forest type</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/AT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JPG-SC2-006</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1311</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU area western side above Crd.</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>.5-1</u>	
Soil Type: <u>Hard Auger</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>72cpm</u>	Rad Screen (cpm): <u>84R 69cpm</u>	
Comments: <u>silt 10YR 7/1 iron 7.5YR 6/6</u> <u>fine roots common</u> <u>DUP</u> <u>Hardwood Forest type</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>



Task Team Members: <u>CSL/EBS/AT/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JPG-SC2-000</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1320</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DV area</u> <u>west side</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1'-2'</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>1-2'</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>72 cpm BGR</u>	Rad Screen (cpm): <u>78 cpm</u>	
Comments: <u>FE SL</u> <u>Silt 10YR 7/1 iron 7.5YR 6/8</u> <u>nodules fine common depilations 10YR 8/1</u> <u>Dup taken</u> <u>- hardwood forest type</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/EBS/AT/GP</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JPG-SC2-000</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1323</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DV area</u> <u>west side</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2'-4'</u>	Sample Type: <u>2'-4' CSL SOIL</u>	
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>2'-4'</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>69 cpm</u>	Rad Screen (cpm): <u>84 cpm</u>	
Comments: <u>Silt loam 10YR 6/2 iron accumulations nodules 10YR</u> <u>3/3 fine common</u> <u>Dup sample taken</u> <u>Hardwood forest type</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Cover type

Task Team Members: <u>CSL/EB5/AT/GP</u>		COC No.:
Sample ID: <u>SAIC - 01</u>	Station ID: <u>JPG - SC6 - 002</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1359</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>00 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0 - .5</u>	
Soil Type: <u>Av B<sub>2</sub></u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>66 cpm</u>	Rad Screen (cpm): <u>66 cpm</u>	
Comments: <u>Silt 10YR 6/2 Organic matter (fine roots)</u> <u>iron 10YR 6/2 Depletions</u>		

cover type shrubs

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>
Task Team Members: <u>CSL/EB5/AT/GP</u>		
COC No.:		
Sample ID: <u>SAIC - 02</u>	Station ID: <u>JPG - SC6 - 002</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1403</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Av B<sub>2</sub></u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>66 cpm</u>	Rad Screen (cpm): <u>77 cpm</u>	
Comments: <u>Silt loam 10YR 5/3 mottles mag accumulations</u> <u>Depletions 10YR 8/1</u> <u>shrubs</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/AT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC - 03</u>	Station ID: <u>JPG - SCG - 002</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1409</u>	
Property Name: <u>JPG</u>	Sample Location: <u>ins. &amp; DU area</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>AVB2</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>66 cpm</u>	Rad Screen (cpm): <u>68 cpm</u>	
Comments: <u>Silty loam 10YR 4/1 clay instructions method 10YR 4/6</u> <u>Depletions 10YR 7/1 roots present</u> <u>Shrubs</u> <u>Dup</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>
[Redacted]		
Task Team Members: <u>CSL/AT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC - 04</u>	Station ID: <u>JPG - SCG - 002</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1416</u>	
Property Name: <u>JPG</u>	Sample Location: <u>ins. &amp; DU area</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2'-4'</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>AVB2</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>66 cpm</u>	Rad Screen (cpm): <u>76</u>	
Comments: <u>Silty loam 10YR 5/3 iron &amp; mag. accum. clay</u> <u>encrustations - 10YR 7/1 greater amount of clay</u> <u>at bottom. 5% gravel Angular</u> <u>Shrubs</u> <u>Dup</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team Members: CSL/AT/EB5/GP COC No.: \_\_\_\_\_

Sample ID: SA1C-06 Station ID: JPG-SC2-006

Collection Date: 10-7-08 Collection Time: 1438

Property Name: JPG Sample Location: inside DU area  
South of C. road

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): ~~0.0~~ - <sup>1.5</sup> ~~0.5~~ <sup>0.5</sup> 4-6 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: ~~0.0~~ - <sup>1.5</sup> ~~0.5~~ <sup>0.5</sup> 4-6

Soil Type: Loess Av B<sub>2</sub> Rad Screen Instrument: 44-9-B

Rad Screen Bkg. (cpm): 66 cpm Rad Screen (cpm): 57 cpm  
104R

Comments: Silt loam 104R 4/4 mottles clay inclusions 104R 6/1  
5% gravel Angular.

Mature hardwood woods <sup>CSL</sup> brushy  
Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-7-08

Task Team Members: CSL/AT/EB5/GP COC No.: \_\_\_\_\_

Sample ID: SA1C-02 <sup>CSL</sup> 01 Station ID: JPG-SC4-004

Collection Date: 7 <sup>CSL</sup> 10-7-08 Collection Time: 1504

Property Name: JPG Sample Location: inside <sup>CSL</sup> DU area  
South of C road

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): ~~0.0~~ <sup>0.0</sup> 0.5 - <sup>1.5</sup> 1 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: ~~0.5~~ - <sup>1.5</sup> ~~0.0~~ - 0.5

Soil Type: Ca Rad Screen Instrument: 44-9-R

Rad Screen Bkg. (cpm): 79 cpm Rad Screen (cpm): <sup>CSL</sup> 60 <sup>CSL</sup> cpm  
84R

Comments: Silt 104R 6/3 iron fine roots fine

Mature hardwoods (maple & oak)  
Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-7-08

Task Team Members: <u>CSL/AT/EB5/GP</u>		COC No.:
Sample ID: <u>SALC-0302</u>	Station ID: <u>JPG-5C4-004</u>	
Collection Date: <u>10/7/08</u>	Collection Time: <u>1506</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU area</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u> <sup>15"</sup> <u>0.5-1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bozq</u>	Sample Depth: <u>1-2</u> <u>0.5-1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>79 cpm</u> <u>848</u>	Rad Screen (cpm): <u>65 cpm</u>	
Comments: <u>silt 10YR 6/2 fine, roots iron depletions oxidation</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/AT/EB5/GP</u>		COC No.:
Sample ID: <u>SALC-0903</u>	Station ID: <u>JPG-5C4-004</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1508</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU area</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u> <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method:	Sample Depth: <u>1-2</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>79 cpm</u> <u>848</u>	Rad Screen (cpm): <u>58</u>	
Comments: <u>silt 10YR 6/2 fine, roots iron (7.5YR 7/5) Depletions 10YR 8/1</u> <u>fine roots</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team I
Sample ID:
Collection Date:
Property Name:
Northing (units):
Cover Depth:
Sample Collection Method:
Soil Type:
Rad Screen Instrument:
Rad Screen Bkg. (cpm):
Rad Screen (cpm):
Comments:
Recorded by:
Task Team M
Sample ID:
Collection Date:
Property Name:
Northing (units):
Cover Depth:
Sample Collection Method:
Soil Type:
Rad Screen Instrument:
Rad Screen Bkg. (cpm):
Rad Screen (cpm):
Comments:
Recorded by:

COC No.:	
Task Team Members: CSL/AT/EB5/GP	
Sample ID: SAIC - 04	Station ID: JFG - SC4 - 004
Collection Date: 10-7-08	Collection Time: 1510
Property Name: JFG	Sample Location: inside DU area
Northing (units):	Easting (units):
Cover Depth (ft): 2-4	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 2-4
Soil Type: Co	Rad Screen Instrument: 44-9-B
Rad Screen Bkg. (cpm): 79 cpm 8.4R	Rad Screen (cpm): 68 cpm
Comments: silt 10YR 6/2 fine iron (7.5YR 7/5) Depletions 10YR 8/1	

Recorded by: CSL QA by: Date: 10/7/08

COC No.:	
Task Team Members: CSL/AT/EB5/GP	
Sample ID: SAIC - 01	Station ID: JFG - SC3 - 004
Collection Date: 10-7-08	Collection Time: 1533
Property Name: JFG	Sample Location: inside DU
Northing (units):	Easting (units):
Cover Depth (ft): 0.0-1	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 0.0-1
Soil Type: Co	Rad Screen Instrument: 44-9-B
Rad Screen Bkg. (cpm): 77 <sup>15V</sup> 63 cpm 8.4R	Rad Screen (cpm): 77 cpm
Comments: silt 10YR 7/1 fine roots fine roots	
Recorded by: CSL QA by: Date: 10/7/08	

Task Team Members: CSL/AT/EB5/GP		COC No.:
Sample ID: SAIC-02	Station ID: JPG-SC3-004	
Collection Date: 10-7-08	Collection Time: 1534	
Property Name: JPC	Sample Location: inside DV	
Northing (units):	Easting (units):	
Cover Depth (ft): 0.5-1	Sample Type: Soil	
Sample Collection Method: BORE	Sample Depth: 0.5-1	
Soil Type: Co	Rad Screen Instrument: 44-9-B	
Rad Screen Bkg. (cpm): 63 cpm BGR	Rad Screen (cpm): 77 cpm	
Comments: silt 10YR 7/1 oxid. + 2 iron Depletions 10YR 8/1 Hardwood forest cover type		

Recorded by: CSL QA by: Date: 10/7/08

Task Team Members: CSL/AT/EB5/GP		COC No.:
Sample ID: SAIC-03	Station ID: inside DV JPC-SC3-004	
Collection Date: 10-7-08	Collection Time: 1538	
Property Name: JPC	Sample Location: inside DV	
Northing (units):	Easting (units):	
Cover Depth (ft): 1-2	Sample Type: Soil	
Sample Collection Method: BORE	Sample Depth: 1-2	
Soil Type: Co	Rad Screen Instrument: 44-9-B	
Rad Screen Bkg. (cpm): 63 BGR	Rad Screen (cpm): 60 cpm	
Comments: silt 10YR 7/2 Oxidation of iron Depletions 10YR 8/1 structure, map line Hardwood forest cover type		
Recorded by: CSL	QA by:	Date: 10/7/08

COC No.:

Task Team Members: CSL/AT/EBS/GPSample ID: SALC-04Station ID: JPG-SC3-004Collection Date: 10-7-08Collection Time: 1540Property Name: JPGSample Location: inside DU

Northing (units):

Easting (units):

Cover Depth (ft): 2-4Sample Type: SOILSample Collection Method: BORESample Depth: 2-4Soil Type: CLRad Screen Instrument: 44-9-B

Rad Screen Bkg. (cpm):

Rad Screen (cpm):

63  
84R  
 Comments: Silt 10YR 6/1 Depletions 10YR 7/1 oxidized iron

continued on page 16Recorded by: CSL

QA by:

Date: 10/7/08

COC No.:

Task Team Members: CSL/AT/EBS/GPSample ID: SALC-05Station ID: JPG-SC3-004Collection Date: 10-7-08Collection Time: 1544Property Name: JPGSample Location: inside DU

Northing (units):

Easting (units):

Cover Depth (ft): 4-6Sample Type: SOILSample Collection Method: BORESample Depth: 4-6Soil Type: CLRad Screen Instrument: 44-9-B

Rad Screen Bkg. (cpm):

Rad Screen (cpm):

63 cpm 84R  
60 cpm  
 Comments: Silty loam 10YR 6/2 mother 10YR 5/6 common mag.  
accumulations

Recorded by: CSL

QA by:

Date: 10/7/08



Task Team Members: <u>CSL/AT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC - 05</u>	Station ID: <u>JPG - SL4 - 004</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1516</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>65<sup>79</sup> cpm</u>	Rad Screen (cpm): <u>65 cpm</u>	
Comments: <u>5.14 loam 10YR 7/3 mottles (10YR 5/8 common)</u> <u>Depletions 10YR 7/1</u>		

Recorded by: <u>CSL</u>		QA by:	Date:
Task Team Members: <u>CSL/AT/GP/EBS</u>			
Sample ID: <u>SAIC - 01</u>		Station ID: <u>JPG - SL6 - 001</u>	
Collection Date: <u>10-7-08</u>		Collection Time: <u>1643</u>	
Property Name: <u>JPG</u>		Sample Location: <u>in DU area</u>	
Northing (units):		Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>		Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>		Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Av Ba</u>		Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>61 cpm</u>		Rad Screen (cpm): <u>75</u>	
Comments: <u>5.14 10YR 5/6 fine roots no mottles</u> <u>structure fine</u>			
Recorded by: <u>CSL</u>		QA by:	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/AT/GP/EBS</u>		COC No.:
Sample ID: <u>SALC - 02</u>	Station ID: <u>JPG - SC6 - 001</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1644</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>AUBa</u>	Rad Screen Instrument: <u>44-4-B</u>	
Rad Screen Bkg. (cpm): <u>61 cpm</u> <u>BUR</u>	Rad Screen (cpm): <u>66</u>	
Comments: <u>silt loam 10YR 5/6 roots no mottles</u> <u>fine</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/AT/GP/EBS</u>		COC No.:
Sample ID: <u>SALC - 03</u>	Station ID: <u>JPG - SC6 - 001</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1646</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1-2</u>	
Soil Type: <u>silt loam 10YR 5/6</u> <u>AUBa</u>	Rad Screen Instrument: <u>44-4-B</u>	
Rad Screen Bkg. (cpm): <u>61 cpm</u> <u>BUR</u>	Rad Screen (cpm): <u>69</u>	
Comments: <u>silt loam 10YR 5/6 dispersions 10YR 7/1 iron</u> <u>oxidation</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-7-08</u>

Task Team Members: <u>CSL/AT/GP/ESS</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JPG - SCG-001</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1648</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>AUB2</u>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>61 cpm</u> <u>84R</u>	Rad Screen (cpm): <u>68 cpm</u>	
Comments: <u>silt loam 10YR 6/3 Depletions 10YR 7/1 w/ iron</u> <u>oxidation few mottles.</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-7-08

Task Team Members: <u>CSL/AT/GP/ESS</u>		COC No.:
Sample ID: <u>SAIL 05</u>	Station ID: <u>JPG - SCG-001</u>	
Collection Date: <u>10-7-08</u>	Collection Time: <u>1650</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u> <sup>CSL</sup>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>AUB2</u> <sup>CSL</sup>	Rad Screen Instrument: <u>44-9-B</u>	
Rad Screen Bkg. (cpm): <u>64 cpm</u> <u>84R</u>	Rad Screen (cpm): <u>68</u> <sup>CSL</sup> <u>67</u>	
Comments: <u>silt loam 10YR 6/1 Depletions 10YR 7/1 mottles common</u> <u>Structure fine</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10/7/08</u>

Task Team Members: CSL/AR/EB5/GP COC No.: \_\_\_\_\_

Sample ID: SAIC-01 Station ID: JPG-SC1-009

Collection Date: 10-8-08 Collection Time: 0856

Property Name: JPG Sample Location: inside <sup>CS</sup> outside DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 0.0 - 0.5

Soil Type: R0 B2 Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 57 cpm Rad Screen (cpm): 77  
11.4R

Comments: Silt loam 10YR 5/6 fine roots organic matter  
oxidized iron  
wet

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: CSL/AR/EB5/GP COC No.: \_\_\_\_\_

Sample ID: SAIC-02 Station ID: JPG-SC1-009

Collection Date: 10-8-08 Collection Time: 0858

Property Name: JPG Sample Location: out side DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5 - 1 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 0.5 - 1

Soil Type: R0 B2 Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 57 cpm 11.4R Rad Screen (cpm): 68 cpm

Comments: Silt loam 10YR 5/6 fine roots + organic matter

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10/8/08

Task Team Members: <u>CSL/AT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC - 03</u>	Station ID: <u>JPG-SCI-009</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>0904</u>	
Property Name: <u>JPG</u>	Sample Location: <u>outside DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>CSL 1-2</u>	
Soil Type: <u>RoBz</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>57cpm 11uR</u>	Rad Screen (cpm): <u>70</u>	
Comments: <u>Silt loam 10YR 6/6, iron and mag. accumulations</u> <u>Depletions 10YR 7/1 Mottles common 10YR 7-8</u> <u>7.5 YR 5/8</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10/8/08

Task Team Members: <u>CSL/AT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC - 04</u>	Station ID: <u>JPG-SCI-009</u>	
Collection Date: <u>10/8/08</u>	Collection Time: <u>0908</u>	
Property Name: <u>JPG</u>	Sample Location: <u>outside DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>RoBz</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>57cpm 11uR</u>	Rad Screen (cpm): <u>60</u>	
Comments: <u>Silt loam 10YR 6/6, iron and mag. accum.</u> <u>Depletions 10YR 7/1 mottles common 7.5 YR 5/8</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10/8</u>

Task Team Members: CSL/AMT/GP/EB5 COC No.: \_\_\_\_\_

Sample ID: SAIC - 01 Station ID: JP - SC4 - 012

Collection Date: 10-8-08 Collection Time: 0943

Property Name: JP6 Sample Location: inside DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0 - 0.5

Soil Type: ROB2 Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 44cpm 9uR Rad Screen (cpm): 57cpm

Comments: silt 10YR 7/4 fine roots oxidized iron structure fine  
dry  
oak stand  
UXO's present many

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10/8/08

Task Team Members: CSL/AMT/GP/EB5 COC No.: \_\_\_\_\_

Sample ID: SAIC - 02 Station ID: JP - SC4 - 012

Collection Date: 10-8-08 Collection Time: 0946

Property Name: JP6 Sample Location: inside DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5 - 1 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.5 - 1

Soil Type: ROB2 Rad Screen Instrument: 44-9-A  
micro-R-A

Rad Screen Bkg. (cpm): 9uR 44cpm Rad Screen (cpm): 41

Comments: silt 10YR 7/4 iron oxidation mag. some depletions  
10YR 7/2  
dry  
oak stand  
UXO's present many

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: CSL/EB3/AMT/GP		COC No.:
Sample ID: SAIC-03	Station ID: JP-SC4-012	
Collection Date: 10-8-08	Collection Time: 0950 <sup>15</sup> 0950	
Property Name: JPG	Sample Location: inside DV	
Nothing (units):	Easting (units):	
Cover Depth (ft): 1-2	Sample Type: Soil	
Sample Collection Method: Bore	Sample Depth: 1-2	
Soil Type: RoB2	Rad Screen Instrument: 44-9-A micro-R-V	
Rad Screen Bkg. (cpm): 44 cpm 9 uR	Rad Screen (cpm): 60	
Comments: silt 10 YR 7/4 nodules mag. & iron accumulations fine roots Friable Dry Oak stand UXO's present many		
Recorded by: CSL	QA by:	Date: 10-8-08
[Redacted]		
Task Team Members: CSL/EB3/AMT/GP		COC No.:
Sample ID: SAIC-04	Station ID: JP-SC4-012	
Collection Date: 10-8-08	Collection Time: 0954	
Property Name: JPG	Sample Location: inside DV	
Nothing (units):	Easting (units):	
Cover Depth (ft): 2-4	Sample Type: Soil	
Sample Collection Method: BORE	Sample Depth: 2-4	
Soil Type: RoB2	Rad Screen Instrument: 44-9-A micro-R-V	
Rad Screen Bkg. (cpm): 44 cpm 9 uR	Rad Screen (cpm): 56	
Comments: silt 10 YR 7/4 Depletions 10 YR 8/2 Friable large roots mag. accum. Dry Oak stand UXO's present many		
Recorded by: CSL	QA by:	Date: 10-8-08

Tas  
Sar  
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Soi  
Rac  
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Rec

Task Team Members: <u>CSL/AMT/EBS/GP</u>		COC No.:
Sample ID: <u>SALC-05</u>	Station ID: <u>JP-SC4-012</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1000</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>BoBz</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>44cpm 9uR</u>	Rad Screen (cpm): <u>51</u>	
Comments: <u>Silt loam 10YR 7/3 mottles mag &amp; iron accumulation</u> <u>large roots</u> <u>Dark</u> <u>Oak stand</u> <u>UXO's present many</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10/8/08</u>

Task Team Members: <u>CSL/AMT/EBS/GP</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SC4-011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1113</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>H0</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>63cpm B.u.R</u>	Rad Screen (cpm): <u>57</u>	
Comments: <u>O: 10YR 3/2 organic fine roots 1" to 3" thick</u> <u>Ap 10YR 5/4 friable Dark fine roots</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>



Task Team Members: <u>CSL/AMT/EBB/GP</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC4-00</u> <sup>CSL</sup> <u>011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1115</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Ho</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>63cpm 8 NR</u>	Rad Screen (cpm): <u>77</u>	
Comments: <u>silt 104R 5/4 fine roots friable Dry</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>
Task Team Members: <u>CSL/AMT/EBB/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC4-011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1121</u> <sup>CSL</sup>	
Property Name: <u>JPG</u>	Sample Location: <u>142T</u> <sup>CSL</sup> <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Ho</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>63cpm 8 NR</u>	Rad Screen (cpm): <u>64</u>	
Comments: <u>Silt 104R 2/2 fine roots</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>

Task Team Members: <u>CSL/AMT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC4-011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1122</u>	
Property Name: <u>JP6</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Ho</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>63cpm 8uR</u>	Rad Screen (cpm): <u>68</u>	
Comments: <u>silt loam 104R 2/2 fine roots</u> <u>- Rock at 2-2.5'</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>
Task Team Members: <u>CSL/AMT/EBS/GP</u>		
COC No.:		
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC3-001</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1037</u>	
Property Name: <u>JP6</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>CLC2</u>	Rad Screen Instrument: <u>44-8-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>75cpm 11uR</u>	Rad Screen (cpm): <u>67</u>	
Comments: <u>silt 104R 5/4 fine roots organic top layer 0 (104R 4/3)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>

Task Team Members: <u>CSL / AMT / EBS / GP</u>		COC No.:
Sample ID: <u>SA1C - 02</u>	Station ID: <u>JP - SC3 - 001</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1140</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in D Bottom</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Boat</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Cn C2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro - R-N</u>	
Rad Screen Bkg. (cpm): <u>75</u> <u>11uR</u>	Rad Screen (cpm): <u>67</u>	
Comments: <u>silt loam 10YR 5/4 friable dry</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>
Task Team Members: <u>CSL / AMT / EBS / GP</u>		
COC No.:		
Sample ID: <u>SA1C - 03</u>	Station ID: <u>JP - SC3 - 001</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1143</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Boat</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Cn C2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro - R-N</u>	
Rad Screen Bkg. (cpm): <u>75</u> <u>11uR</u>	Rad Screen (cpm): <u>77</u>	
Comments: <u>silt loam 10YR 6/4 crumbly Depletions 10YR 7/4</u>		
Recorded by: <u>CSL</u>	QA by:	Date:

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/EB5/GP

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Sample ID: SAIC - 04 Station ID: JP - SC3 - 001

Collection Date: 10-8-08 Collection Time: 1145

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 2-4

Soil Type: CL<sub>2</sub> Rad Screen Instrument: 44-9-A  
micro - R - N

Rad Screen Bkg. (cpm): 75 11NR Rad Screen (cpm): 58cpm

Comments: Silt loam 10YR 6/4 friable iron accumulations

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/EB5/GP

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Sample ID: SAIC - 05 Station ID: JP - SC3 - 001

Collection Date: 10-8-08 Collection Time: 1147

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 4-6 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 4-6

Soil Type: CL<sub>2</sub> Rad Screen Instrument: 44-9-A  
micro - 2N

Rad Screen Bkg. (cpm): 75 11NR Rad Screen (cpm): 81

Comments: Silt loam 10YR 6/4 friable Depletions 10YR 7/4  
& accumulations of iron.

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: <u>CSL / AMT / GP / EBS</u>		COC No.:
Sample ID: <u>SAIC - 01</u>	Station ID: <u>JP- SC2 - 011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1307</u>	
Property Name: <u>SPG</u>	Sample Location: <u>in DV SE corner</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Cn C2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>58</u> <u>8 uR</u>	Rad Screen (cpm): <u>64</u>	
Comments: <u>Silt loam 10YR 3/6</u> <u>fine roots organic matter</u> <u>moist. Damp</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>
Task Team Members: <u>CSL / AMT / GP / EBS</u>		
COC No.:		
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP- SC2 - 011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1313</u>	
Property Name: <u>SPG</u>	Sample Location: <u>in DV SE corner</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Cn C2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>58</u> <u>8 uR</u>	Rad Screen (cpm): <u>58 cpm</u>	
Comments: <u>Silt loam 10YR 5/4</u> <u>fine roots organic oxidation of</u> <u>iron friable. Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC2-011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1315</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in sid DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0<sup>CSL</sup> 1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CnCa</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>58</u> <u>8</u>	Rad Screen (cpm): <u>72</u>	
Comments: <u>silt loam 10YR 6/6 oxidized iron Depletions</u> <u>10YR 7/2 mag. friable</u>		

Recorded by: CSL QA by: Date: 10-8-08

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC2-011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1317</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4<sup>3</sup></u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>2-4<sup>3</sup></u>	
Soil Type: <u>CnCa</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>58</u> <u>8</u>	Rad Screen (cpm): <u>78</u>	
Comments: <u>silt loam 10YR 7/3 Depletions 10YR 8/1</u> <u>some mottling friable</u> <u>Rock at 3 ft</u>		
Recorded by: <u>CSL</u> QA by: Date: <u>10-8-08</u>		

Task Team Members: <u>CSL/ANT/GP/EB5</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCI-010</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1356</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU<sup>SS</sup> outside DU</u> <u>SE corner</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>CLC2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50</u> <u>10 uR</u>	Rad Screen (cpm): <u>64</u>	
Comments: <u>silt loam 10YR 4/4 fine roots organic matter</u> <u>O<sub>1</sub> horizon 10YR 3/4 damp</u> <u>scrub trees 44<sup>SS</sup> shrubs</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>
Task Team Members: <u>CSL/ANT/GP/EB5</u>		
COC No.:		
Sample ID: <u>SAIC-2</u>	Station ID: <u>JP-SCI-010</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1358</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Outside DU</u> <u>SE corner</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>CLC2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50</u> <u>10 uR</u>	Rad Screen (cpm): <u>65</u>	
Comments: <u>silt loam 10YR 5/4 mag. &amp; iron accumulations</u> <u>fine roots Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>

COC No.:	
Task Team Members: <u>CSL/ANT/GP/EBS</u>	
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SC1-010</u>
Collection Date: <u>10-8-08</u>	Collection Time: <u>1401</u>
Property Name: <u>JPG</u>	Sample Location: <u>Outside DU SE corner</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>C<sub>1</sub>C<sub>2</sub></u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>
Rad Screen Bkg. (cpm): <u>50</u> <u>10 uR</u>	Rad Screen (cpm): <u>85</u>
Comments: <u>Silt loam 10YR 5/8 some Depletions (10YR 7/2)</u> <u>Dry Friable</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

COC No.:	
Task Team Members: <u>CSL/ANT/GP/EBS</u>	
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SC1-010</u>
Collection Date: <u>10-8-08</u>	Collection Time: <u>1403</u>
Property Name: <u>JPG</u>	Sample Location: <u>Outside DU SE corner</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>
Soil Type: <u>C<sub>1</sub>C<sub>2</sub></u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>
Rad Screen Bkg. (cpm): <u>50</u> <u>10 uR</u>	Rad Screen (cpm): <u>74</u>
Comments: <u>Silt loam 10YR 6/3 lots of mag. &amp; iron accumulations</u> <u>some Depletions</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08



COC No.: \_\_\_\_\_

Task Team Members: CSL/ANT/GP/EBS

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Sample ID: SALC-01 Station ID: JP-SCL-011

Collection Date: 10-8-08 Collection Time: 1445

Property Name: JPG Sample Location: \_\_\_\_\_

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0 - 0.5

Soil Type: LoBa Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 64 11 uR Rad Screen (cpm): 66

Comments: Silt 100% 10 YR 4/4 fine & coarse roots

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/ANT/GP/EBS

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Sample ID: SALC-02 Station ID: JP-SCL-011

Collection Date: 10-8-08 Collection Time: 1447

Property Name: JPG Sample Location: \_\_\_\_\_

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5 - 1 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.5 - 1

Soil Type: LoBa Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 64 11 uR Rad Screen (cpm): 61

Comments: Silt 100% 10 YR 5/6 fine & coarse roots

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: <u>CSL/AUT/GP/EBS</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>SP-SC1-011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1452</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>R0 B2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>64</u> <u>11uR</u>	Rad Screen (cpm): <u>84</u>	
Comments: <u>Silt loam 10YR 5/6 Friable some fine roots mag.</u>		

Recorded by: CSL QA by: Date: 10-8-08

Task Team Members: <u>CSL/AUT/GP/EBS</u>		COC No.
Sample ID: <u>SALC-03</u>	Station ID: <u>SP-SC1-011</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1456</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>R0 B2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>64</u> <u>11uR</u>	Rad Screen (cpm): <u>70</u>	
Comments: <u>Silt loam 10YR 6/6 Friable oxidized iron &amp; mag.</u> <u>Depletions 10YR 7/4</u>		

Recorded by: CSL QA by: Date: 10-8-08

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC - 01</u>	Station ID: <u>JP - SC2 - 002</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1539</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside Du east side</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Cn C2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50cpm 10 m R</u>	Rad Screen (cpm): <u>55cpm</u>	
Comments: <u>silt 10YR 4/3 fine roots 0 horizon contains organic matter</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>
Task Team Members: <u>CSL/AMT/GP/EBS</u>		
COC No.:		
Sample ID: <u>SAIC - 02</u>	Station ID: <u>JP - SC2 - 002</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1541</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method:	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Cn C2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50cpm 10 m R</u>	Rad Screen (cpm): <u>69</u>	
Comments: <u>10YR 6/6 silt fine structure fine roots</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-8-08</u>

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC - 03</u>	Station ID: <u>JP-SC2-002</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1544</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU East side</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CnL</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg (cpm): <u>50cpm 10m R</u>	Rad Screen (cpm): <u>75</u>	
Comments: <u>Silt loam 10YR 6/6 mag. accumulation some Depositions</u> <u>oxidized iron</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC - 03</u>	Station ID: <u>JP-SC2-002</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1546</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU east side</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CnL</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50cpm 10m R</u>	Rad Screen (cpm): <u>48</u>	
Comments: <u>Silt loam 10YR 5/4 Deposition 10YR 7/3 oxidized iron</u> <u>5% gravel angular mag. accumulations</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

GP  
CSL

Task Team Members: CSL/AMT/EP/EB5 COC No.: \_\_\_\_\_

Sample ID: SALC - 01 Station ID: JP-SC3-005

Collection Date: 10-8-08 Collection Time: 1658

Property Name: X JPC Sample Location: 11 DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 0.0 - 0.5  
(HAND AUGER)

Soil Type: Co Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 64 cpm 10 mR Rad Screen (cpm): 99 cpm

Comments: Silt loam 10YR 6/3 oxidized iron fine roots  
- in a depression

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

GP  
CSL

Task Team Members: CSL/AMT/GP/EB5 COC No.: \_\_\_\_\_

Sample ID: SALC - 02 Station ID: JP-SC3-005

Collection Date: 10-8-08 Collection Time: 1700

Property Name: JPC Sample Location: 11 DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5 - 1 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 0.5 - 1

Soil Type: Co Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 64 10 mR Rad Screen (cpm): 62

Comments: silt loam 10YR 6/3 oxidized iron fine roots some depletion  
(10YR 7/2)

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: CSL/ANT/GP/EBS COC No.: \_\_\_\_\_

Sample ID: SAIC-03 Station ID: JP-SC3-005

Collection Date: 10-8-08 Collection Time: 1702

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): <sup>CSL</sup> ~~00-0~~ 1-2 Sample Type: soil

Sample Collection Method: BORE Sample Depth: 1-2

Soil Type: Co Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 64 10 uR Rad Screen (cpm): 58

Comments: silt loam 10YR 6/3 mottling few fine structure variations  
10YR 7/2

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: CSL/ANT/GP/EBS COC No.: \_\_\_\_\_

Sample ID: SAIC-04 Station ID: JP-SC3-005

Collection Date: 10-8-08 Collection Time: 1705

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: soil

Sample Collection Method: BORE Sample Depth: 2-4

Soil Type: Co Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 64 10 uR Rad Screen (cpm): 60

Comments: silt loam 10YR 7/2 mottling common depletion 10YR 8/1

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC - 05</u>	Station ID: <u>JP-SC3-005</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1708</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-A CSL</u> <u>MILCO SCREEN-R-N</u>	
Rad Screen Bkg. (cpm): <u>64</u> <u>10 mR</u>	Rad Screen (cpm): <u>68</u>	
Comments: <u>silt loam 10YR 7/3 mottles common (10YR 5/6)</u> <u>Depletions 10YR 8/1 fine structure</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC - 01</u>	Station ID: <u>JP-SC4-006</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1721</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u> <u>(HAND AUGER)</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-A</u> <u>MILCO-R-N</u>	
Rad Screen Bkg. (cpm): <u>51cpm</u> <u>8 mR</u>	Rad Screen (cpm): <u>57cpm</u>	
Comments: <u>Silt 10YR 6/1 oxidized iron fine roots friable Dry</u> <u>organic matter in the O horizon</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-8-08</u>		

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC4-006</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1723</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>51 SUR</u>	Rad Screen (cpm): <u>62 cpm</u>	
Comments: <u>silt 10YR 6/1 oxidation fine roots friable</u> <u>(10YR 7/6)</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: <u>CSL/AMT/EBS/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC4-006</u>	
Collection Date: <u>10-8-08</u>	Collection Time: <u>1725</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>51cpm SUR</u>	Rad Screen (cpm): <u>51cpm</u>	
Comments: <u>silt loam 10YR 7/1 depletions oxidation (10YR 6/4)</u> <u>5% gravel - fine mag. accumulations</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08



Task Team Members: CSL/ANT/GP/EBS COC No.: \_\_\_\_\_

Sample ID: SAIC-04 Station ID: JP-SC4-006

Collection Date: 10-8-08 Collection Time: 1730

Property Name: TPG Sample Location: in side DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 2-4

Soil Type: Co Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 51 cpm 8 uR Rad Screen (cpm): 4<sup>u</sup> 63

Comments: Silt loam 10YR 7/1 oxidation (10YR 6/6) fine,  
common

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: CSL/ANT/GP/EBS COC No.: \_\_\_\_\_

Sample ID: SAIC-05 Station ID: JP-SC4-006

Collection Date: 10-8-08 Collection Time: 1732

Property Name: TPG Sample Location: in side DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 4-6 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 4-6

Soil Type: Co Rad Screen Instrument: 44-9-A  
micro-R-N

Rad Screen Bkg. (cpm): 51 cpm 8 uR Rad Screen (cpm): 83

Comments: Silt loam 10YR 7/1 mottles (10YR 5/6) common  
through-out

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-8-08

Task Team Members: <u>CSL/AMT/GP/EBS</u>		COC No.:
Sample ID: <u>STIC-01</u>	Station ID: <u>JP-SLS-032</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>0939</u>	
Property Name: <u>JPG</u>	Sample Location: <u>outside DU area</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>RyR2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>42cpm BGR</u>	Rad Screen (cpm): <u>39cpm</u>	
Comments: <u>Silt 10YR 4/3 fine roots &amp; coarse Si into Ap Horizons</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>
Task Team Members: <u>CSL/AMT/GP/EBS</u>		
COC No.:		
Sample ID: <u>STIC-02</u>	Station ID: <u>JP-SLS-032</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>0943</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>RyR2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>42cpm BGR</u>	Rad Screen (cpm): <u>55</u>	
Comments: <u>Silt 10YR 5/6 fine &amp; coarse roots Dry medium to coarse gravel 25% @ 1.0 foot.</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>
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(10P) CSL

Task Team Members: CSL/AMT/10P/EBS COC No.:

Sample ID: SAIC-03 Station ID: JP-SCS-032

Collection Date: 10-9-08 Collection Time: 0947

Property Name: JPC Sample Location: Out side DU

Northing (units): Easting (units):

Cover Depth (ft): 1-2 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 1-2

Soil Type: R<sub>y</sub>R<sub>2</sub> Rad Screen Instrument: 44-9-C CSL  
micro-R-B

Rad Screen Bkg. (cpm): 42cpm BGR Rad Screen (cpm): 45cpm

Comments: Silt 10YR 5/6 coarse roots / 25% Angular Gravel

Hit rock at 2.0' ft & had to offset about a foot to the north

Recorded by: CSL QA by: Date: 10-9-08

Task Team Members: CSL/AMT/EBS/GP COC No.:

Sample ID: SAIC-04 Station ID: JP-SCS-032

Collection Date: 10-9-08 Collection Time: 1000

Property Name: JPC Sample Location: Out side DU

Northing (units): Easting (units):

Cover Depth (ft): 2-4 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 2-4

Soil Type: R<sub>y</sub>R<sub>2</sub> Rad Screen Instrument: 44-9-C  
micro-R-B

Rad Screen Bkg. (cpm): 42 BGR Rad Screen (cpm): 52cpm

Comments: Silt 10YR 5/6 coarse roots 25% Angular Gravel CSL  
Silt 10YR 4/3 coarse rock & gravel some fine roots.

Refusal at 3.5' ft

Recorded by: CSL QA by: Date: 10-9-08

Task Team Members: CSL/AMT/EBS COC No.: \_\_\_\_\_

Sample ID: SALC-01 Station ID: JP-SC2-004

Collection Date: 10-9-08 Collection Time: 1239

Property Name: JPG Sample Location: inside DV

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0 - 0.5

Soil Type: Cn C3 Rad Screen Instrument: 44-9-C  
micro-R-B

Rad Screen Bkg. (cpm): 43cpm 11mR Rad Screen (cpm): 63cpm

Comments: 5.1t 10YR 3/4 fine roots structure fine

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

Task Team Members: CSL/AMT/EBS COC No.: \_\_\_\_\_

Sample ID: SALC-02 Station ID: JP-SC2-004

Collection Date: 10-9-08 Collection Time: 1241

Property Name: JPG Sample Location: inside DV

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5 - 1 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.5 - 1

Soil Type: Cn C3 Rad Screen Instrument: 44-9-C  
micro-R-B

Rad Screen Bkg. (cpm): 43cpm 11mR Rad Screen (cpm): 70

Comments: 5.1t 10YR 3/6 fine roots structure

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

Task Team Members: <u>ISC/EB5/AMT/</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1244</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CnC3</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>43cpm 11uR</u>	Rad Screen (cpm): <u>72cpm</u>	
Comments: <u>Silt loam 10YR 5/8 Depletions 10YR 7/2 some</u> <u>oxidized iron</u>		

Recorded by: CSL QA by: Date: 10-9-08

Task Team Members: <u>ISC/AMT/EB5/</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1248</u>	
Property Name: <u>JPG</u>	Sample Location: <u>inside DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CnC3</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>43cpm 11uR</u>	Rad Screen (cpm): <u>68cpm</u>	
Comments: <u>Silt loam 10YR 5/2 Depletions oxidized iron (10YR 7/1)</u> <u>5% Gravel Angular</u> <u>- refusal at 2 1/2' had to offset 1 foot away to the</u> <u>north - refusal again at 3' ft.</u>		
Recorded by: <u>ISC</u>		QA by: Date: <u>10-9-08</u>

Task Team Members: <u>CSL/AMT/EBS</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC21-005</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1321</u>	
Property Name: <u>JPG</u>	Sample Location: <u>cut side DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5</u>	
Soil Type: <u>CLC2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>48cpm 10xR</u>	Rad Screen (cpm): <u>69cpm</u>	
Comments: <u>silt 10YR 5/4 fine roots fine structure 30% subangular gravel</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>
Task Team Members: <u>CSL/AMT/EBS</u>		
COC No.:		
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC21-005</u>	
Collection Date: <u>10-9-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>outside DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CLC2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>48cpm 10xR</u>	Rad Screen (cpm): <u>73cpm</u>	
Comments: <u>silt 10YR 6/6 25% sub-angular gravel fine roots</u> <u>refusal at 8 inches - offset 4 feet and still refusal</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>CSL</u> <u>10-9-08</u>

C5

Task Team Members: ~~CSL~~ / ~~AMT~~ / ~~OMM~~ / ~~EBS~~ COC No.:

Sample ID: ~~SAIL-0301~~ Station ID: ~~JP-SC1-005~~ JP-SC1

Collection Date: ~~10-9-08~~ Collection Time:

Property Name: ~~JPG~~ Sample Location: ~~outside DU~~

Northing (units): Easting (units):

Cover Depth (ft): ~~0.5-1~~ Sample Type: ~~SOIL~~

Sample Collection Method: ~~Bore~~ Sample Depth: ~~1-2~~

Soil Type: ~~CuCa~~ Rad Screen Instrument: ~~44-9-C~~ MICRO-R-B

Rad Screen Bkg. (cpm): ~~48cpm 10 m R~~ Rad Screen (cpm):

Comments:

Recorded by: ~~CSL~~ QA by: Date: ~~10-9-08~~

Task Team Members: ~~CSL~~ / ~~AMT~~ / ~~OMM~~ / ~~EBS~~ COC No.:

Sample ID: ~~SAIL-02~~ Station ID: ~~JP-SC1-005~~ JP-SC

Collection Date: ~~10-9-08~~ Collection Time:

Property Name: ~~JPG~~ Sample Location: ~~outside DU~~

Northing (units): Easting (units):

Cover Depth (ft): ~~2-4~~ Sample Type: ~~SOIL~~

Sample Collection Method: ~~Bore~~ Sample Depth: ~~2-4~~ 0.5-1

Soil Type: ~~CuCa~~ Rad Screen Instrument: ~~44-9-C~~ MICRO-R-B

Rad Screen Bkg. (cpm): Rad Screen (cpm):

Comments:

Recorded by: ~~CSL~~ QA by: Date: ~~10-9-08~~

COC No.:

Task Team Members: CSL/AUT/EGS/DMM

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Sample ID: SAL-01 Station ID: TP-SCS-001

Collection Date: 10-9-08 Collection Time: 1457

Property Name: SPG Sample Location: in DU

Northing (units): 4304615.45 Easting (units): 638094.4

Cover Depth (ft): 0.0-0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0-0.5

Soil Type: AVA Rad Screen Instrument: 44-9-C  
micro-R-B

Rad Screen Bkg. (cpm): 42 11uR Rad Screen (cpm): 57

Comments: Silt 104R 4/2 fine roots some oxidation of iron

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

COC No.:

Task Team Members: CSL/AUT/EGS/DMM

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Sample ID: SAL-02 Station ID: TP-SCS-001

Collection Date: 10-9-08 Collection Time: 1459

Property Name: SPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5-1 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.5-1

Soil Type: AVA Rad Screen Instrument: 44-9-C  
micro-R-B

Rad Screen Bkg. (cpm): 42 11uR Rad Screen (cpm): 59

Comments: Silt loam 104R 6/2 oxidation fine roots & organics

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08



Task Team Members: CSL/AMT/DMM/EB5		COC No.:
Sample ID: SAIC - 03	Station ID: JP - SL5 - 001	
Collection Date: 10-9-08	Collection Time: 1502	
Property Name: JPG	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 1-2	Sample Type: SOIL	
Sample Collection Method: BORG	Sample Depth: 1-2	
Soil Type: AUA	Rad Screen Instrument: 44-9-L micro-R-B	
Rad Screen Bkg. (cpm): 42 11uR	Rad Screen (cpm): 53	
Comments: silt loam 10YR 6/1 iron oxidation some mottling		

Recorded by: CSL	QA by:	Date: 10-9-08
Task Team Members: CSL/AMT/DMM/EB5		
COC No.:		
Sample ID: SAIC - 04	Station ID: JP - SL5 - 001	
Collection Date: 10-9-08	Collection Time: 1504	
Property Name: JPG	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 2-4	Sample Type: SOIL	
Sample Collection Method: BORG	Sample Depth: 2-4	
Soil Type: AUA	Rad Screen Instrument: 44-9-L micro-R-B	
Rad Screen Bkg. (cpm): 42 11uR	Rad Screen (cpm): 63	
Comments: silt loam 10YR 6/1 iron oxidation 30'-40' lots of mottles 10YR 3/6 mag. accumulation		

Recorded by: CSL	QA by:	Date: 10-9-08
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Task Team Members: <u>CSL/EB3/AMT/DMM</u>		COC No.:
Sample ID: <u>SATC-01</u>	Station ID: <u>TP6-SC5-009</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1415</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>00-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>H<sub>0</sub></u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>45</u> <u>11mR</u>	Rad Screen (cpm): <u>51</u>	
Comments: <u>1st 104R 4/3 fine roots structure fine</u>		
<u>- Penetrator found 30' away</u> <u>- DUP</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>

Task Team Members: <u>CSL/EB3/AMT/DMM</u>		COC No.:
Sample ID: <u>SATC-02</u>	Station ID: <u>TP-SC5-009</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1417</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>05-0.1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>H<sub>0</sub></u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>45</u> <u>11mR</u>	Rad Screen (cpm): <u>61</u>	
Comments: <u>5th 104R 6/10 fine roots fine structure</u>		
<u>DUP taken</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>

Task Team Members: <u>CSL/AMT/EBB/DMM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCS-009</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1421</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Ho</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>45cpm 11uR</u>	Rad Screen (cpm): <u>71</u>	
Comments: <u>silty loam 10 yr 6/6 Depositions accumulations of iron</u> <u>metal &amp; mag. oxidation for the iron</u>		
<u>DUP</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>
Task Team Members: <u>CSL/AMT/EBB/DMM</u>		
COC No.:		
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SCS-009</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1423</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Ho</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>45cpm 11uR</u>	Rad Screen (cpm): <u>42</u>	
Comments: <u>silty loam 10 yr 6/6 accumulations of iron &amp; mag. nothing</u> <u>common, fine (10 yr 5/6)</u>		
<u>DUP</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>

Task Team Members: <u>CSL/AMT/ERS/DMM</u>		COC No.:
Sample ID: <u>S+IC-01</u>	Station ID: <u>JP-SC5-027</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1545</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units): <u>4504946.8</u>	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>CnL2</u>	Rad Screen Instrument: <u>44-9-6</u> <u>mini-R-B</u>	
Rad Screen Bkg. (cpm): <u>42cpm 10uR</u>	Rad Screen (cpm): <u>56</u>	
Comments: <u>Silt loam 10YR 6/3 Depletions &amp; iron oxidation fine roots</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>
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Task Team Members: <u>CSL/AMT/ERS/DMM</u>		COC No.:
Sample ID: <u>S+IC-02</u>	Station ID: <u>JP-SC5-027</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1547</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CnL2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>mini-R-B</u>	
Rad Screen Bkg. (cpm): <u>42cpm 10uR</u>	Rad Screen (cpm): <u>60</u>	
Comments: <u>Silt loam 10YR 5/4 iron oxidation fine roots</u> <u>Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>

Task Team Members: <u>CSL/SBS/AMT/DMM</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-4,5-027</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1550</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>core</u>	Sample Depth: <u>SOIL 1-2</u>	
Soil Type: <u>CGL</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>42cpm 10uR</u>	Rad Screen (cpm): <u>52</u>	
Comments: <u>silt loam 10YR 6/3 depletions (10YR 7/1) some mottling</u> <u>fine roots</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

Task Team Members: CSL/SBS/AMT/DMM COC No.:

Sample ID: <u>SALC-04</u>	Station ID: <u>JP-5C3-027</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1553</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>core</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CGL</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>42cpm uR</u>	Rad Screen (cpm): <u>56</u>	
Comments: <u>silt loam 10YR 6/3 depletions (10YR 7/1) mottles</u> <u>fine roots</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

\* Task Team Members: CSL/EBJ/AMT/DMM COC No.: \_\_\_\_\_

Sample ID: S4E-05 *No Sample Sub. From this level* Station ID: JP-SCB-027

Collection Date: 10-9-08 Collection Time: NONE

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 4-6 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 4-6

Soil Type: CnC2 Rad Screen Instrument: 44-9-C  
MICRO-R-B

Rad Screen Bkg. (cpm): 42cpm Rad Screen (cpm): 45

Comments: S.1+ 1pam 10YR 7/3 mottled (10YR 5/10) depletions  
10YR 7/1

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

Task Team Members: CSL/AMT/EBJ/DMM COC No.: \_\_\_\_\_

Sample ID: SAIC-01 Station ID: JP-SC3-002

Collection Date: 10-9-08 Collection Time: 1707

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0 - 0.5

Soil Type: CnC2 Rad Screen Instrument: 44-9-C  
MICRO-R-B

Rad Screen Bkg. (cpm): 52cpm 12uR Rad Screen (cpm): 51

Comments: S.1+ 10YR 4/9 fine roots & structure

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

Task Team Members: CSL/AMT/EBB/DMM COC No.: \_\_\_\_\_

Sample ID: SALC-02 Station ID: JP-SC3-002

Collection Date: 10-9-08 Collection Time: 1709

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5-1 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 0.5-1

Soil Type: CLC2 Rad Screen Instrument: 44-9-16  
micro-R-B

Rad Screen Bkg. (cpm): 52 12-R Rad Screen (cpm): 77

Comments: Silt 10 YR 4/4 fine roots & structure

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

Task Team Members: CSL/AMT/EBB/DMM COC No.: \_\_\_\_\_

Sample ID: SALC-03 Station ID: JP-SC3-002

Collection Date: 10-9-08 Collection Time: 1711

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 1-2 Sample Type: SOIL

Sample Collection Method: 1-2 Bore Sample Depth: 44-9-C 1-2

Soil Type: CLC2 Rad Screen Instrument: micro-R-B

Rad Screen Bkg. (cpm): 52 12-R Rad Screen (cpm): 66

Comments: Silt 10 YR 4/6 some rock 2% angular friable

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-9-08

Task Team Members: <u>CSL/AMT/EB5/DMM</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SC3-002</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1721</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CnL2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro - R-B</u>	
Rad Screen Bkg. (cpm): <u>52 cpm 12 ~ R</u>	Rad Screen (cpm): <u>56</u>	
Comments: <u>silt loam 10YR 4/6 mottling (10YR 7.5YR 5/4) <sup>off</sup></u> <u>Depletions 10YR 7/1 large mag. accumulations 0.25"</u> <u>in size.</u>		
<u>Refusal @ 4.0 - off set 3 ft.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>

Task Team Members: <u>CSL/AMT/EB5/DMM</u>		COC No.:
Sample ID: <u>SALC-05</u>	Station ID: <u>JP-SC3-002</u>	
Collection Date: <u>10-9-08</u>	Collection Time: <u>1714 1714</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>CnL2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro - R-B</u>	
Rad Screen Bkg. (cpm): <u>52 12 ~ R</u>	Rad Screen (cpm): <u>66 cpm</u>	
Comments: <u>silt loam 10YR 4/6 mottling 7.5YR 5/4 Depletions</u> <u>10YR 7/1 mag. accumulations</u> <u>@ 4.25 - 6.0 clay - 5B/6 bluish gray</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-9-08</u>



Task Team Members: <u>CSL/AMT/EBJ/DMM</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCI-008</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>0849</u>	
Property Name: <u>JPG</u>	Sample Location: <u>outside DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>55cpm</u>	<u>BUR</u>	Rad Screen (cpm): <u>79cpm</u>
Comments: <u>Silt loam 10YR 6/2 oxidized iron fine roots</u>		
<u>- Pole timber Dogwood &amp; Poplar stand</u>		
<u>- Penetrator found east of location</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/AMT/EBJ/DMM</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCI-008</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>0851</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out side DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>55cpm</u>	<u>BUR</u>	Rad Screen (cpm): <u>66</u>
Comments: <u>Silt loam 10YR 7/2 oxidized iron fine &amp; coarse roots</u> <u>structure fine</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/EBS/DMH</u>	
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCI-008</u>
Collection Date: <u>10-10-08</u>	Collection Time: <u>0853</u>
Property Name: <u>JPG</u>	Sample Location: <u>out side DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>
Rad Screen Bkg. (cpm): <u>55cpm</u> <u>BuR</u>	Rad Screen (cpm): <u>80</u>
Comments: <u>silt loam 10YR 7/1 fine roots very fine gravel 3%</u> <u>iron oxidation</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

COC No.:	
Task Team Members: <u>CSL/AMT/EBS/DMH</u>	
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SCI-008</u>
Collection Date: <u>10-10-08</u>	Collection Time: <u>0855</u>
Property Name: <u>JPG</u>	Sample Location: <u>out side</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>
Rad Screen Bkg. (cpm): <u>55cpm</u> <u>BuR</u>	Rad Screen (cpm): <u>62</u>
Comments: <u>silt loam 10YR 7/1 fine structure iron oxidation accumulation</u> <u>of iron</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

Task Team Members: <u>CSL/ANT/EB/DM</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC2-007</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>0933</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BURE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>57 cpm 10-R</u>	Rad Screen (cpm): <u>59</u>	
Comments: <u>Silt (Ap) 10YR 6/2 fine roots, structure fine oxidized iron</u>		
- mature Hardware Stand		
- location moved 15'-20' NE Du to the route being in the Old Road		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/ANT/EB/DM</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC2-007</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>0936</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BURE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>57 cpm 10-R</u>	Rad Screen (cpm): <u>65</u>	
Comments: <u>Silt/loam 10YR 7/2 fine &amp; coarse roots oxidized iron</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

COC No.:

Task Team Members: CSL/ANT/EB5/DMMSample ID: 541C-03Station ID: JP-SC2-007Collection Date: 10-10-08Collection Time: 0939Property Name: JPGSample Location: in DU

Northing (units):

Easting (units):

Cover Depth (ft): IPG <sup>CSL</sup> 1-2Sample Type: SOILSample Collection Method: BORESample Depth: 1-2Soil Type: CLRad Screen Instrument: 44-9-B  
MICRO-R-B

Rad Screen Bkg. (cpm):

57cpm 10mR

Rad Screen (cpm):

57Comments: Silt loam 10YR 8/2 iron accumulation + mag. fine structure  
coarse rootsRecorded by: CSL

QA by:

Date: 10-10-08

COC No.:

Task Team Members: CSL/ANT/EB5/DMMSample ID: 541C-04Station ID: JP-SC2-007Collection Date: 10-10-08Collection Time: 0942Property Name: JPGSample Location: in DU

Northing (units):

Easting (units):

Cover Depth (ft): 2-4Sample Type: SOILSample Collection Method: BORESample Depth: 2-4Soil Type: CLRad Screen Instrument: 44-9-B  
MICRO-R-B

Rad Screen Bkg. (cpm):

57cpm 10mR

Rad Screen (cpm):

63Comments: Silt loam 10YR 7/2 mottles (10YR 5/8) fine roots mag.  
accumulationRecorded by: CSL

QA by:

Date: 10-10-08

Task Team Members: <u>CSL/dmn/AMT/EBS</u>		COC No.:
Sample ID: <u>SAIC - 07</u>	Station ID: <u>JP- SCY-025</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1114</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>CLTS Ry Ba</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>56cpm 13uR</u>	Rad Screen (cpm): <u>78</u>	
Comments: <u>Silt 10YR 4/4 fine roots, few pieces of small sub-angular gravel. OI - 10YR 3/3 lots of organics</u> <u>- Hardwoods Hack Berry &amp; Poplar.</u> <u>- Many Penetrators in the area closest one 20ft away</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/AMT/EBS/dmn</u>		COC No.:
Sample ID: <u>SAIC - 02</u>	Station ID: <u>JP- SCY-025</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1114</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>CLTS Ry Ba</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>56cpm 13uR</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>Silt 10YR 5/6 fine structure friable, fine roots</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <sup>CSL</sup> ~~SA~~ ~~CSL~~ / ~~ANT~~ / ~~DMM~~ / ~~ABS~~ COC No.: \_\_\_\_\_

Sample ID: SAIC-03 Station ID: JP-SC<sup>5</sup>~~4~~-025

Collection Date: 10-10-08 Collection Time: 1119

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 1-2 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: SOIL 1-2

Soil Type: ~~CLAY~~ RY B2 Rad Screen Instrument: 44-9-B  
micro-R-B

Rad Screen Bkg. (cpm): 56 13-R Rad Screen (cpm): 68 cpm

Comments: <sup>15R</sup> silt 10YR 6/6 coarse roots, some depletion around 1-6' ft

Recorded by: <sup>CSL</sup> \_\_\_\_\_ QA by: \_\_\_\_\_ Date: 10-10-08

Task Team Members: <sup>CSL</sup> ~~SA~~ ~~CSL~~ / ~~ANT~~ / ~~DMM~~ / ~~ABS~~ COC No.: \_\_\_\_\_

Sample ID: SAIC-04 Station ID: JP-SC<sup>5</sup>~~4~~-025

Collection Date: 10-10-08 Collection Time: 1122

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 2-4

Soil Type: ~~CLAY~~ RY B2 Rad Screen Instrument: 44-9-B  
micro-R-B

Rad Screen Bkg. (cpm): 56 13-R Rad Screen (cpm): 82 cpm

Comments: silt 10am 10YR 5/4 depletions (10YR 7/1) @ 3.5' fine blocky structure coarse roots in upper 2-3.5 feet.  
frag. hard packed layer @ 3.5

Recorded by: <sup>CSL</sup> \_\_\_\_\_ QA by: \_\_\_\_\_ Date: 10-10-08

Task Team Members: <u>CSL/AMT/EBB/DMH</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC4-003</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1158</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>CLC</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>56cpm 12uR</u>	Rad Screen (cpm): <u>80</u>	
Comments: <u>Silt 10yr 4/6 fine roots, structure fine</u> <u>-Fire Id</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

Task Team Members: <u>CSL/AMT/EBB/DMH</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC4-003</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1200</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CLC</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>56 12uR</u>	Rad Screen (cpm): <u>87</u>	
Comments: <u>S. It 10yr 4/6 fine roots, structure fine</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-10-08</u>		

Task Team Members: <u>CSL/AMT/EBS/DMM</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SC4-003</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1202</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CNC3</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-B</u>	
Rad Screen Bkg. (cpm): <u>56 cpm 12-R</u>	Rad Screen (cpm): <u>82</u>	
Comments: <u>SIT 107R 4/10 worse roots, structure medium</u>		

Recorded by: CSL      QA by:      Date: 10-10-08

Task Team Members: <u>CSL/AMT/EBS/DMM</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SC4-003</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1204</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>24</u>	
Soil Type: <u>CNC3</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-B</u>	
Rad Screen Bkg. (cpm): <u>56 cpm 12-R</u>	Rad Screen (cpm): <u>69</u>	
Comments: <u>SIT 104R 7/3 may be iron accumulations some oxidation</u> <u>10% gravel sub-angular</u>		
Recorded by: <u>CSL</u> QA by:      Date: <u>10-10-08</u>		



Task Team Members: <u>CSL/AMT/DMH/EBS</u>		COC No.:
Sample ID: <u>SALC-05</u>	Station ID: <u>JP-SC 4-003</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1200</u>	
Property Name: <u>JP6</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>CLC3</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>56</u>	<u>12-R</u>	Rad Screen (cpm): <u>73 cpm</u>
Comments: <u>Silt 10 YR 6/3 clay, &amp; accretion gravel 5%</u> <u>sub-angular gravel</u>		
- field		
- Refusal @ 5.0'		
Recorded by:	QA by:	Date: <u>10</u>

Task Team Members: <u>CSL/AMT/DMH/EBS</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SC1-012</u>	
Collection Date: <u>10-10-08</u>	Collection Time:	
Property Name: <u>JP6</u>	Sample Location: <u>outside</u> <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>Kyhz</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>60 cpm</u>	<u>11-R</u>	Rad Screen (cpm): <u>80 cpm</u>
Comments: <u>Silt 10 YR 4/6 fine roots, fine</u>		
- exposed bed rock where location was offset 30' ft SW		
- open field		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/AMT/EBB/DMM</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCI-012</u>	
Collection Date: <u>10-10-08</u>	Collection Time:	
Property Name: <u>TPG</u>	Sample Location: <u>Int DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>RyB2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>60c 11uR</u>	Rad Screen (cpm): <u>80</u>	
Comments: <u>Silt 7.5YR 5/6 fine roots</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

Task Team Members: <u>CSL/AMT/EBB/DMM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCI-012</u>	
Collection Date: <u>10-10-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>Int DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1.0-2.0</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>RyB2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>60cpm 11uR</u>	Rad Screen (cpm): <u>80</u>	
Comments: <u>Silt 7.5YR 4/6 large aggregates, fine roots</u>		

- Refusal @ 18' ft.  
Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

Task Team Members: <u>CSL/ANT/ERS/DMM</u>		COC No.:
Sample ID: <u>SAL-0401</u>	Station ID: <u>JP-SCS-010</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1403</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2.4</u> <sup>CSL</sup> <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2.4</u> <sup>CSL</sup> <u>0.0-0.5</u>	
Soil Type: <u>Cu2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>44-9-B-R-B</u>	
Rad Screen Bkg. (cpm): <u>60</u>	<u>11uR</u>	Rad Screen (cpm): <u>83</u>
Comments: <u>Sit 104R54 fine roots organics</u>		
<u>- Hardwood stands (Red maple &amp; sweet gum) mature timber.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/ANT/ERS/DMM</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-SCS-010</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1406</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Cu2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>44-9-B-R-B</u>	
Rad Screen Bkg. (cpm): <u>60</u>	<u>11uR</u>	Rad Screen (cpm): <u>79</u>
Comments: <u>Sit 104R54 depletions (104R74)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: CSC/AMT/ERS/DAM COC No.: \_\_\_\_\_

Sample ID: SALC-03 Station ID: JP-SLS-010

Collection Date: 10-10-08 Collection Time: 1408

Property Name: JRG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 1-2 Sample Type: Soil

Sample Collection Method: Bore Sample Depth: 1-2

Soil Type: CnG2 Rad Screen Instrument: 44-9-B  
micro-R-B

Rad Screen Bkg. (cpm): 60 11uR Rad Screen (cpm): 72

Comments: Silt loam 10YR 6/6 medium structure Deposition (10YR 7/2)  
Dry

Recorded by: CSC QA by: \_\_\_\_\_ Date: 10-10-08

Task Team Members: AMT/CSC/ERS/JMM COC No.: \_\_\_\_\_

Sample ID: SALC-04 Station ID: JP-SLS-010

Collection Date: 10-10-08 Collection Time: 1410

Property Name: JRG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: Soil

Sample Collection Method: Bore Sample Depth: 2-4

Soil Type: CnG2 Rad Screen Instrument: 44-9-B  
micro-R-B

Rad Screen Bkg. (cpm): 60 11uR Rad Screen (cpm): 77

Comments: Silt loam 10YR 6/6 depletion 10YR 7/2 mag. accumulations

Recorded by: CSC QA by: \_\_\_\_\_ Date: 10-10-08

COC No.:	
Task Team Members: <u>CSL/AMT/DMM/EBG</u>	
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SC4-005</u>
Collection Date: <u>10-10-08</u>	Collection Time: <u>1521</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>
Rad Screen Bkg. (cpm): <u>53</u> <u>9mR</u>	Rad Screen (cpm): <u>64</u>
Comments: <u>Silt loam 10YR 6/1 fine roots, oxidized iron, fine</u> <u>DEP &amp; MS/MSD - TAKEN</u>	

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>
COC No.:		
Task Team Members: <u>CSL/AMT/EBG/DMM</u>		
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SC</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1525</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>53</u> <u>9mR</u>	Rad Screen (cpm): <u>68</u>	
Comments: <u>Silt loam 10YR 7/1 oxidized iron fine roots, fine</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/ANT/EB5/DUM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC4-005</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1529</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>53</u> <u>9uR</u>	Rad Screen (cpm): <u>67</u>	
Comments: <u>Silt loam 10YR 7/1 oxidized iron fine roots</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/EB5/DUM/ANT</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC4-005</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1535</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>53</u> <u>9uR</u>	Rad Screen (cpm): <u>66</u>	
Comments: <u>S. 1+ loam 10YR 7/1 oxidized iron, mottling @ 3.25' ft</u> <u>(10YR 4/6)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/ANT/EB5/DMM</u>		COC No.:
Sample ID: <u>SALC-05</u>	Station ID: <u>JP-SC4-005</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1540</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>4-6</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>53</u> <u>9-R</u>	Rad Screen (cpm): <u>58</u>	
Comments: <u>Silt loam 10YR 7/1 nothing very common throughout</u> <u>(7.5YR 4/6)</u> <u>-open field shrub brush</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

Task Team Members: <u>CSL/ANT/EB5/DMM</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SC5-016</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1635</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>44-9-B</u> <u>micro-R-B</u>	
Soil Type: <u>C0</u>	Rad Screen Instrument:	
Rad Screen Bkg. (cpm): <u>43</u> <u>9-R</u>	Rad Screen (cpm): <u>78</u>	
Comments: <u>Silt 10YR 10/3 fine roots, fine</u> <u>Dry</u> <u>-Hardwood pole timber (Red maple + sweet gum)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-10-08</u>

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/DMH/BS

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Sample ID: SALC-02 Station ID: JP-SC5-016

Collection Date: 10-10-08 Collection Time: 1638

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5-1 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.5-1

Soil Type: Co Rad Screen Instrument: 44-9-B  
micro-R-B

Rad Screen Bkg. (cpm): 43 9-R Rad Screen (cpm): 62

Comments: Soil 10 YR 6/3 fine roots, fine, iron oxidation

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/DMH/BS

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Sample ID: SALC-03 Station ID: JP-SC5-016

Collection Date: 10-10-08 Collection Time: 1639

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): CSL 1-2 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 1-2

Soil Type: Co Rad Screen Instrument: 44-9-B  
micro-R-B

Rad Screen Bkg. (cpm): 43 9-R Rad Screen (cpm): 77

Comments: Soil 10 YR 6/3 fine roots, oxidized iron  
Dry

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08



COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/EBS/DMM

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Sample ID: SAIC-04 Station ID: JP-SC5-010

Collection Date: 10-10-08 Collection Time: 1641

Property Name: JPG Sample Location: in DV

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 2-4

Soil Type: Co Rad Screen Instrument: 44-9-B  
micro-R-B

Rad Screen Bkg. (cpm): 43 9.2 Rad Screen (cpm): 77

Comments: silt 10mm 104R 7/2 nettles (104R 5/6) some mag-  
accumulations.

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/EBS/DMM

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Sample ID: SAIC-01 Station ID: JP-SC4-012

Collection Date: 10-10-08 Collection Time: 1655

Property Name: JPG Sample Location: in DV

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0-0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0-.5

Soil Type: Co Rad Screen Instrument: 44-9-B  
micro-R-B

Rad Screen Bkg. (cpm): 63 11.2 Rad Screen (cpm): 80

Comments: silt 104R 6/3 fine roots, structure fine  
-forested mixed stand (red cedar & dogwood) pine size

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

COC No.:	
Task Team Members: CSL/AMT/EB5/DMM	
Sample ID: SATC-02	Station ID: JP-SC4-012
Collection Date: 10-10-08	Collection Time: 1657
Property Name: JPC	Sample Location: in DU
Northing (units):	Easting (units):
Cover Depth (ft): 0.5-1	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 0.5-1
Soil Type: Co	Rad Screen Instrument: 44-9-B MICRO-R-B
Rad Screen Bkg. (cpm): 63 11uR	Rad Screen (cpm): 0 73
Comments: s. it 10YR 5/6 depletion (small) fine & coarse roots friable dry	

Recorded by: CSL QA by: Date: 10-10-08

COC No.:	
Task Team Members: CSL/AMT/EB5/DMM	
Sample ID: SATC-03	Station ID: JP-SC4-012
Collection Date: 10-10-08	Collection Time: 1659
Property Name: JPC	Sample Location: in DU
Northing (units):	Easting (units):
Cover Depth (ft): 1-2	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 1-2
Soil Type: Co	Rad Screen Instrument: 44-9-B MICRO-R-B
Rad Screen Bkg. (cpm): 63 11uR	Rad Screen (cpm): 53
Comments: s. it 10YR 5/6 depletions (10YR 7/3) friable	
Recorded by: CSL QA by: Date: 10-10-08	

Task Team Members: <u>CSL/AMT/ERS/DMM</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC4-012</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1701</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm):	Rad Screen (cpm): <u>72</u>	
Comments: <u>silt loam 10YR 6/4 depletions (10YR 7/2) medium structure</u> <u>friable</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-10-08

Task Team Members: <u>CSL/AMT/ERS/DMM</u>		COC No.:
Sample ID: <u>SAIC-05</u>	Station ID: <u>JP-SC4-012</u>	
Collection Date: <u>10-10-08</u>	Collection Time: <u>1703</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm):	Rad Screen (cpm): <u>69</u>	
Comments: <u>silt loam 10YR 6/4 depletions (10YR 8/1) medium structure</u> <u>friable</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-10-08</u>		

Task Team Members: <u>CSL/AWT/GP/DDL</u>		COC No.:
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-SCS-015</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>022</u>	
Property Name: <u>JP</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>C</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>55cpm 10uR</u>	Rad Screen (cpm): <u>39cpm</u>	
Comments: <u>Silt 10yr 5/2 fine &amp; coarse roots, fine structure</u> <u>- Dry</u> <u>- mature hardwoods stand, poplar</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>

Task Team Members: <u>CSL/AWT/GP/DDL</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-SCS-015</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>0824</u>	
Property Name: <u>JP</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>C</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>55cpm 10uR</u>	Rad Screen (cpm): <u>52cpm</u>	
Comments: <u>silt 10yr (a) coarse roots some iron oxidation</u> <u>frailly</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>

Task Team Members: <u>CSL/AMT/DDL/EP</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-SC5-015</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>0826</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORS</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>55cpm 10xR</u>	Rad Screen (cpm): <u>53</u>	
Comments: <u>silt loam 10YR 7/3 friable 5% gravel oxidized</u> <u>- Dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/DDL/EP</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SC3-015</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>0829</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>55cpm 10xR</u>	Rad Screen (cpm): <u>60cpm</u>	
Comments: <u>silt loam 10YR 6/3 mottling (10YR 4/4) iron &amp;</u> <u>mag. accumulation.</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-11-08</u>		

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SC2-012</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>0923</u>	
Property Name: <u>JPG</u>	Sample Location: <u>outside DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>CSL RyB2</u>	Rad Screen Instrument: <u>44-9-L</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>63cpm</u>	
Comments: <u>Silt loam 10YR 4/3 fine roots, iron oxidation</u> <u>L &amp; coarse roots</u> <u>- open hardwood stand (Black locust &amp; Black walnut)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SC2-012</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>0927</u>	
Property Name: <u>JPG</u>	Sample Location: <u>outside DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CSL RyB2</u>	Rad Screen Instrument: <u>449-L</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>65</u>	
Comments: <u>Silt loam 10YR 5/8 iron &amp; mag accumulations</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC2-012</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>0930</u>	
Property Name: <u>JPL</u>	Sample Location: <u>out of DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CSL R4B2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg (cpm): <u>53</u>	<u>10xR</u>	Rad Screen (cpm): <u>74</u>
Comments: <u>Silt loam - 10YR5/8 some depletions and mag. accumulations</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>
Task Team Members: <u>CSL/AMT/GP/DDL</u>		
COC No.:		
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC2-012</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>0934</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CSL R4B2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg (cpm): <u>53</u>	<u>10xR</u>	Rad Screen (cpm): <u>59</u>
Comments: <u>Silt loam 10YR6/8 depletions (10YR7/3) mag. accumulation</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>
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COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/GP/DDL

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Sample ID: SAIC-01 Station ID: JP-SC4-010

Collection Date: 10-11-08 Collection Time: 1033

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 00 - 0.5

Soil Type: GRB2 Rad Screen Instrument: 44-9-C  
micro-R-A

Rad Screen Bkg. (cpm): 40 11u R Rad Screen (cpm): 64cpm

Comments: Silt Ap 10YR 5/6 friable, fine roots  
0: 10YR 3/2 fine roots lots of organics  
- hard-ends poplar, Black gum

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/GP/DDL

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Sample ID: SAIC-02 Station ID: JP-SC4-010

Collection Date: 10-11-08 Collection Time: 1036

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5-1 Sample Type: SOIL

Sample Collection Method: BORS Sample Depth: 0.5-1

Soil Type: GRB2 Rad Screen Instrument: 44-9-C  
micro-R-A

Rad Screen Bkg. (cpm): 40 11u R Rad Screen (cpm): 68

Comments: Silt 10YR 5/8 friable, coarse roots, 5% angular gravel  
some small cobbles (lime stone)  
dry

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08



Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SC4-010</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1038</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>G&amp;D2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>40 cpm 11uR</u>	Rad Screen (cpm): <u>61</u>	
Comments: <u>Silt loam 10YR 5/8 friable, 5% gravel &amp; some small cobbles, coarse roots</u>		

Recorded by: CSL OA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SC4-10</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1041</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>G&amp;D2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>40 cpm 11uR</u>	Rad Screen (cpm): <u>72</u>	
Comments: <u>Silt loam 10YR 5/6 mag. accumulations some mottling oxidation of iron</u>		

Recorded by: CSL OA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-05</u>	Station ID: <u>JP-SC4-010</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1047</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>40 cpm 11+R</u>	Rad Screen (cpm): <u>83</u>	
Comments: <u>Silt loam 10YR5/6 mag. accumulation, 5% sub-angular gravel</u> <u>mag. accumulations - some iron oxidation</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC5-014</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1106</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>39 cpm 11+R</u>	Rad Screen (cpm): <u>58 cpm</u>	
Comments: <u>Silt loam 10YR4/6 pec size gravel some larger pieces</u> <u>0% of 2" angular</u> <u>- 5 penetrations within the 15m walk over &amp; one enroute</u> <u>- Hardwoods / a Red Cedar</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10-11-08</u>

Task Team Members: <u>CSL/ANT/DOL/GP</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SLS-014</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1118</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-08C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>39cpm 11uR</u>	Rad Screen (cpm): <u>58</u>	
Comments: <u>Silt loam 10YR 4/6 fine roots, organics slightly plastic</u> <u>5% gravel - sub angular</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>
Task Team Members: <u>CSL/ANT/DOL/GP</u>		
COC No.:		
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SLS-014</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1121</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-08C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>39cpm 11uR</u>	Rad Screen (cpm): <u>58</u>	
Comments: <u>Silt loam 10YR 4/6 depletions (10YR 6/3) mag. accum.</u> <u>slightly plastic</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SCS-014</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1128</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>39cpm</u>	<u>11-R</u>	Rad Screen (cpm): <u>60cpm</u>
Comments: <u>Silty clay 10GR 3/6 mag. accumulations 5% subangular gravel</u> <u>- scales of clay throughout</u> <u>@ 3.25' Silty loam 10GR 4/4 25% sub-angular gravel</u> <u>- Refusal 3.5%<sup>CSL</sup> feet.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCS-031</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1245</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units): <u>4305313.5</u>	Easting (units): <u>637319.9</u>	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>RyBz</u>	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>58cpm</u>	<u>10-R</u>	Rad Screen (cpm): <u>53</u>
Comments: <u>Silty 10GR 4/5<sup>CSL</sup> find roots, iron oxidation</u>		
Recorded by: <u>CSL</u>	QA by: <u>10-11-08</u>	Date:

COC No.:	
Task Team Members: <u>CSL/AMT/DLL/GP</u>	
Sample ID: <u>SALC - 02</u>	Station ID: <u>JP-SC5-031</u>
Collection Date: <u>10-11-08</u>	Collection Time: <u>1249</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>CSL</u> <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>
Soil Type: <u>Ry Bz</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>58 cpm 10</u>	Rad Screen (cpm): <u>53</u>
Comments: <u>Silt loam 10YR 5/6 depletions (10YR 6/3) some iron oxidation</u>	

- Newly burned area open field  
 Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

COC No.:	
Task Team Members: <u>CSL/AMT/DLL/GP</u>	
Sample ID: <u>SALC - 03</u>	Station ID: <u>JP-SC5-031</u>
Collection Date: <u>10-11-08</u>	Collection Time: <u>1254</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>CSL</u> <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>Ry Bz</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>58 10uR</u>	Rad Screen (cpm): <u>50</u>
Comments: <u>Silt loam 10YR 6/6 iron oxidation depletions (10YR 7/3)</u>	
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-11-08</u>	

ESC/AMT/DDL/GP

Task Team Members: SAIC-09 COC No.: \_\_\_\_\_

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Sample ID: SAIC-09/4 Station ID: JP-SCS-031

Collection Date: 10-11-08 Collection Time: 1300

Property Name: JPL Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 2-4

Soil Type: RyBz Rad Screen Instrument: 44-9-C  
micro-R-A

Rad Screen Bkg. (cpm): 58cpm 10-R Rad Screen (cpm): 50cpm

Comments: silt loam 10YR 6/6 oxidation of iron, 5% gravel angular  
depletions (10YR 7/2)  
- Refusal at 3.75'

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

ESC/AMT/DDL/GP

Task Team Members: ESC/AMT/DDL/GP COC No.: \_\_\_\_\_

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Sample ID: SAIC-01 Station ID: JP-SCS-008

Collection Date: 10-11-08 Collection Time: 1354

Property Name: JPL Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0-0.5 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 0.0-0.5

Soil Type: CnBz (GrDz) Rad Screen Instrument: 44-9-C  
micro-R-A

Rad Screen Bkg. (cpm): 50 12.5-R Rad Screen (cpm): 68

Comments: Silt loam 10YR 4/4 fine roots, organics  
- edge of woods open field with saplings

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCS-008</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1356</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CuBz (GrBz)</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>50 cpm 2.5 uR</u>	Rad Screen (cpm): <u>62 cpm</u>	
Comments: <u>silt 104R 5/6 iron oxidation</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCS-008</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1358</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CuBz (GrBz)</u>	Rad Screen Instrument: <u>44-9C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>50 cpm 12.5 uR</u>	Rad Screen (cpm): <u>51</u>	
Comments: <u>silt 104R 5/6 depletions (104R 7/1) mag. &amp; iron accumulations</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-11-08</u>		

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SCS-008</u>	
Collection Date: <u>10-11-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CH2 (Gr D2) + Right</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>50cpm 12.5cpm</u>	Rad Screen (cpm): <u>59cpm</u>	
Comments: <u>silt 10YR 5/6 depletions (10YR 7/1) iron &amp; mag.</u> <u>accumulations, medium structure, a fine mottles</u> <u>10YR 4/6</u>		

Recorded by: CSL QA by: Date: 10-11-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SCS-002</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1455</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type:	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm 10.5cpm</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>silt 10YR 6/3 some depletions, fine roots</u> <u>- forested, Pale timber (sweet gum &amp; yellow Poplar)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>



Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>SP-SC5-008</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1459</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CSU AVA</u>	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>S. It 10YR 7/3 fine roots, oxidized iron, depletions, fine structure</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>
Task Team Members: <u>CSL/AMT/DDL/GP</u>		
COC No.:		
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SC5-008</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1500</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>54cpm</u>	
Comments: <u>S. It 10YR 7/2, iron oxidation, fine roots</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-11-08</u>

COC No.:

Task Team Members: CSL/AMT/GP/DDL

Sample ID: SAIC-04

Station ID: JP-SCS-008

Collection Date: 10-11-08

Collection Time:

Property Name: JPC

Sample Location: in DU

Northing (units):

Easting (units):

Cover Depth (ft): 2-4

Sample Type: SOIL

Sample Collection Method: BORE

Sample Depth: 2-4

Soil Type: A/A

Rad Screen Instrument: 44-9-C  
micro-R-A

Rad Screen Bkg. (cpm): 45cpm 11-R

Rad Screen (cpm): 60cpm

Comments: Silt loam 10YR 7/3 iron accumulations, nodules @ 3.25'  
10YR 5/6 some mag. accumulations.

Recorded by: CSL

QA by:

Date: 10-11-08

COC No.:

Task Team Members: CSL/AMT/GP/DDL

Sample ID: SAIC-01

Station ID: JP-SCS-028

Collection Date: 10-11-08

Collection Time: 1550

Property Name: JPC

Sample Location: in DU

Northing (units):

Easting (units):

Cover Depth (ft): 0.0 - 0.5

Sample Type: SOIL

Sample Collection Method: BORE

Sample Depth: 0.0 - 0.5

Soil Type: R0B2

Rad Screen Instrument: 44-9-C  
micro-R-A

Rad Screen Bkg. (cpm): 43cpm 9-R

Rad Screen (cpm): 49cpm

Comments: silt clay 4/6 fine roots, fine structure.

-open field just burned-

Recorded by: CSL

QA by:

Date: 10-11-08

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-SCS-02B</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1555</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>ROB2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>43cpm 9~R</u>	Rad Screen (cpm): <u>69</u>	
Comments: <u>Silt 10YR 4/6 fine roots (0.5-0.8)</u> <u>Silt loam 10YR 6/4 oxidation &amp; depletion fine roots</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SCS-02B</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1600</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>ROB2</u> <sup>CSL</sup>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>43cpm 9~R</u>	Rad Screen (cpm): <u>53</u>	
Comments: <u>Silt loam 10YR 6/4 oxidation &amp; depletion,</u> <u>structure fine, medium CSL</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-11-08</u>		

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC5-028</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1603</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>BOBR</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>43cpm 9uR</u>	Rad Screen (cpm): <u>58cpm</u>	
Comments: <u>silt loam 10YR 6/6 mag + iron accumulations &amp; depletions (10YR 7/1)</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/DOL/GP</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC4-001</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1635</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>0.0-0.5</u> <u>SMCL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>CSL</u>	
Soil Type: <u>CaB2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 9uR</u>	Rad Screen (cpm): <u>63cpm</u>	
Comments: <u>silt loam 10YR 7/4 fine roots, fine, 5% small gravel sub-angular</u> <u>- open Grass land just burned</u> <u>- Penetrators @ site two</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10-11-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SC4-001</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1637</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Cn B2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53 cpm 9 ~ R</u>	Rad Screen (cpm): <u>41 ~ 52</u>	
Comments: <u>slit loan 104R 6/6 mag. accumulations fine roots</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>CSL</u> <u>SALC- JP-SC4-001</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1639</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Cn B2</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53 cpm 9 ~ R</u>	Rad Screen (cpm): <u>41</u>	
Comments: <u>slit loan 104R 6/6 depletions (104R 7/2)</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC4-001</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1641</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CuBa</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 9uR</u>	Rad Screen (cpm): <u>49</u>	
Comments: <u>SH lean 10YR 7/3, mottling (w) 3.5 ft (10YR 4/4)</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-05</u>	Station ID: <u>JP-SC4-001</u>	
Collection Date: <u>10-11-08</u>	Collection Time: <u>1648</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4-6</u>	
Soil Type: <u>CuBa</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 9uR</u>	Rad Screen (cpm): <u>56</u>	
Comments: <u>SH lean 10YR 7/3, mottling throughout (10YR 4/4)</u> <u>medium structure.</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-11-08

Task Team Members: <u>CSL/DMM/DDL/ANT</u>		COC No.:
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SLS-011</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>0839</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>CLC</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>68cpm</u>	Rad Screen (cpm): <u>102R</u> <u>70cpm</u>	
Comments: <u>Silt loam 10YR 5/6 depletions after the first 3 inches</u> <u>fine roots, iron oxidation, 5% small gravel</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

Task Team Members: <u>CSL/ANT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SLS-011</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>0841</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CLC</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>68cpm</u>	Rad Screen (cpm): <u>102R</u> <u>61cpm</u>	
Comments: <u>Silt loam 10YR 5/8 coarse roots, depletions, oxidized</u> <u>iron</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

COC No.:

Task Team Members: CSL/ANT/DMM/DDL

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Sample ID: SAIC-03 Station ID: JP-SCS-011

Collection Date: 10-12-08 Collection Time: 0845

Property Name: JPG Sample Location: in DU

Northing (units): Easting (units):

Cover Depth (ft): 1-2 Sample Type: Soil

Sample Collection Method: Bore Sample Depth: 1-2

Soil Type: CLC Rad Screen Instrument: 44-9-A  
micro-R-A

Rad Screen Bkg. (cpm): 68cpm 10mk Rad Screen (cpm): 610

Comments: Silt loam 10YR 5/8 depletions fine roots (10YR 7/2)  
5% pea gravel, medium structure, fine  
roots, can oxidized

Recorded by: CSL QA by: Date: 10-12-08

COC No.:

Task Team Members: CSL/DDL/DMM/ANT

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Sample ID: SAIC-04 Station ID: JP-SCS-011

Collection Date: 10-12-08 Collection Time: 0851

Property Name: JPG Sample Location: in DU

Northing (units): Easting (units):

Cover Depth (ft): 2-4 Sample Type: Soil

Sample Collection Method: Bore Sample Depth: 2-4

Soil Type: CLC Rad Screen Instrument: 44-9-A  
micro-R-A

Rad Screen Bkg. (cpm): 68cpm 10mk Rad Screen (cpm): 83cpm

Comments: Silt loam 10YR 7.5/8 mag. accumulation depletions  
(10YR 7/1) 20% gravel subangular medium structure

Recorded by: CSL QA by: Date: 10-12-08



COC No.:	
Task Team Members: <u>SL/ANT/DDL/AMM</u>	
Sample ID: <u>S41C-01</u>	Station ID: <u>JP-SC2-003</u>
Collection Date: <u>10-12-08</u>	Collection Time: <u>1007</u>
Property Name: <u>TPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>soil</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>
Soil Type: <u>R0B2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>44cpm</u> <u>BuR</u>	Rad Screen (cpm): <u>62cpm</u>
Comments: <u>Silt loam LOYR 4/6 iron oxidation, fine roots, 2% gravel</u> <u>sub-angular.</u> <u>- forested Black locust &amp; Red maple</u>	
Recorded by: <u>SL</u>	QA by: _____ Date: <u>10-12-08</u>
COC No.:	
Task Team Members: <u>SL/ANT/DDL/AMM</u>	
Sample ID: <u>S41C-02</u>	Station ID: <u>JP-SC2-003</u>
Collection Date: <u>10-12-08</u>	Collection Time: <u>1010</u>
Property Name: <u>TPG</u>	Sample Location: <u>in - DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>soil</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>
Soil Type: <u>R0B2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>44cpm</u> <u>BuR</u>	Rad Screen (cpm): <u>59cpm</u>
Comments: <u>Silt loam LOYR 5/6 fine roots, 2% rounded gravel, some</u> <u>mag. accumulations.</u>	
Recorded by: <u>SL</u>	QA by: _____ Date: <u>10-12-08</u>

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/DOL/DNN

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Sample ID: SAIC-03 Station ID: SP-SC2-003

Collection Date: 10-12-08 Collection Time: 1012

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0 1-2 Sample Type: Soil

Sample Collection Method: Bore Sample Depth: 1-2

Soil Type: RuBz Rad Screen Instrument: 44-9-A  
Micro-R-A

Rad Screen Bkg. (cpm): 44cpm 8-R Rad Screen (cpm): 60cpm

Comments: silt loam 10YR 5/8 @ 1.5' ft depth has 10YR 7/2  
fine roots & mag. accumulations

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

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COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/DOL/DNN

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Sample ID: SAIC-04 Station ID: JP-SC2-003

Collection Date: 10-12-08 Collection Time: 1019

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: Soil

Sample Collection Method: Bore Sample Depth: 2-4

Soil Type: RuBz Rad Screen Instrument: 44-9-A  
Micro-R-A

Rad Screen Bkg. (cpm): 44cpm 8-R Rad Screen (cpm): 55cpm

Comments: silt loam 10YR 4/6 15% coarse sand  
8% large gravel, fine roots, mag. accumulations  
in the first 2 inches.

- refusal @ 2.5' ft.

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

Task Team Members: <u>CSL/ANT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC-D1</u>	Station ID: <u>JP-SCS-026</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1113</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BGR</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 11uR</u>	Rad Screen (cpm): <u>42cpm</u>	
Comments: <u>Silt 10YR 3/2 fine roots, fine structure</u> <u>- open grass land - drainage area</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

Task Team Members: <u>CSL/ANT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC</u>	Station ID: <u>JP-SCS-026</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1116</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BGR</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 11uR</u>	Rad Screen (cpm): <u>60cpm</u>	
Comments: <u>Silt 10YR 3/4 oxidation, fine roots, iron accumulations</u> <u>5% angular gravel</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

COC No.:	
Task Team Members: <u>ISL/ANT/VDL/DMM</u>	
Sample ID: <u>SA11-03</u>	Station ID: <u>JP-SCS-026</u>
Collection Date: <u>10-12-08</u>	Collection Time: <u>11:21</u>
Property Name: <u>JP</u>	Sample Location: <u>in pit</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0-1-2</u>	Sample Type: <u>soil</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>41-9-A</u> <u>41-9-B-A</u>
Rad Screen Bkg. (cpm): <u>29 cpm 11-2</u>	Rad Screen (cpm): <u>51 cpm</u>
Comments: <u>Soil in pit 3/10 cpm &amp; no accumulation's seen angular gravel</u> <u>- Refused 2.0' test</u>	
Recorded by: <u>ISL</u>	QA by: _____ Date: <u>10-12-08</u>

COC No.:	
Task Team Members: <u>ISL/ANT/VDL/DMM</u>	
Sample ID: <u>SA11-04</u>	Station ID: <u>JP-SCS-026</u>
Collection Date: <u>10-12-08</u>	Collection Time:
Property Name: <u>JP</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>soil</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>41-9-A</u> <u>41-9-B-A</u>
Rad Screen Bkg. (cpm):	Rad Screen (cpm):
Comments:	
Recorded by: <u>ISL</u> QA by: _____ Date: <u>10-12-08</u>	

COC No.:		
Task Team Members:		
Sample ID:	Station ID:	
Collection Date:	Collection Time:	
Property Name:	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft):	Sample Type:	
Sample Collection Method:	Sample Depth:	
Soil Type:	Rad Screen Instrument:	
Rad Screen Bkg. (cpm):	Rad Screen (cpm):	
Comments:		
Recorded by:	QA by:	Date:
COC No.:		
Task Team Members:		
Sample ID:	Station ID:	
Collection Date:	Collection Time:	
Property Name:	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft):	Sample Type:	
Sample Collection Method:	Sample Depth:	
Soil Type:	Rad Screen Instrument:	
Rad Screen Bkg. (cpm):	Rad Screen (cpm):	
Comments:		
Recorded by:	QA by:	Date:

## SAMPLE LOGBOOK

WORK SITE:

Jefferson Proving Ground  
So. 1 Sample 02

START DATE:

10/12/08

END DATE:

10/23/08



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Recorded by: \_\_\_\_\_  
 (Signature and Date)

QA by: \_\_\_\_\_  
 (Signature and Date)

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Recorded by: \_\_\_\_\_ QA by: \_\_\_\_\_  
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Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC5-003</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1239</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>Amec-R-A</u>	
Rad Screen Bkg. (cpm): <u>54cpm</u> <u>7uR</u>	Rad Screen (cpm): <u>48cpm</u>	
Comments: <u>Silt 104R 7/3 Fine roots, structure fine</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>
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Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC5-003</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1240</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>Amec-R-A</u>	
Rad Screen Bkg. (cpm): <u>54cpm</u> <u>7uR</u>	Rad Screen (cpm): <u>54cpm</u>	
Comments: <u>Silt 104R 7/3 iron oxidation, fine roots</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>
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Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SCS-003</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1242</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54</u> <u>7uR</u>	Rad Screen (cpm): <u>48</u>	
Comments: <u>Silt loam 10YR 2/4 iron oxidation, fine structure, fi-</u> <u>roots, depletions</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

Task Team Members: <u>CSL/AMT/DOL/DMM</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SCS-003</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1245</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54cpm</u> <u>7cpm</u>	Rad Screen (cpm): <u>47uR</u>	
Comments: <u>Silt loam 10YR 6/3 depletions iron oxidation</u> <u>@ 3.5 ft. 10YR 6/1 mottles (10YR 5/6) common</u> <u>mag. accumulations</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-12-08</u>

COC No.:	
Task Team Members: CSC/AMT/DPL/DMM	
Sample ID: SAIC - 01	Station ID: SP-SC3-003
Collection Date: 10-12-08	Collection Time: 1304
Property Name: JPL	Sample Location: in DU
Northing (units): 4306051.73	Easting (units): 606938.36
Cover Depth (ft): 0.0 - 0.5	Sample Type: Soil
Sample Collection Method: Bore	Sample Depth: 0.0 - 0.5
Soil Type:	Rad Screen Instrument: 44-9-A micro-R-A
Rad Screen Bkg. (cpm): 40cpm	Rad Screen (cpm): 53
Comments: silt loam 107R 5/3 depositions 107R 6/2 fine roots medium structure - damp - open meadow	
Recorded by: CSC	QA by: Date: 10-12-08

COC No.:	
Task Team Members: CSC/AMT/DPL/DMM	
Sample ID: SAIC - 02	Station ID: SP-SC3-003
Collection Date: 10-12-08	Collection Time: 1306
Property Name: JPL	Sample Location: in DU
Northing (units):	Easting (units):
Cover Depth (ft): 0.5 - 1	Sample Type: Soil
Sample Collection Method: Bore	Sample Depth: 0.5 - 1
Soil Type:	Rad Screen Instrument: 44-9-1 micro-R-A
Rad Screen Bkg. (cpm): 40cpm	Rad Screen (cpm): 70cpm
Comments: silt loam 107R 6/4 depositions (107R 7/2) fine structure - damp	
Recorded by: CSC	QA by: Date: 10-12-08

Task Team Members: <u>CSL/PDL/AMT/DMM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC3-003</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1309</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>40cpm 10-R</u>	Rad Screen (cpm): <u>64cpm</u>	
Comments: <u>Silt loam 10YR 5/8 depletions (10YR 7/1) some mottling</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>
Task Team Members: <u>CSL/AMT/DMM/PDL</u>		
COC No.:		
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC3-003</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1313</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>40cpm 10-R</u>	Rad Screen (cpm): <u>48cpm</u>	
Comments: <u>Silt loam 10YR 5/8 depletions (10YR 7/1)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

COC No.:	
Task Team Members: CSE / DOL / AMT / DMM	
Sample ID: 5412-05	Station ID: JP-SCB-203
Collection Date: 10-12-08	Collection Time: 1325
Property Name: JPL	Sample Location: In DU
Northing (units):	Easting (units):
Cover Depth (ft): 4-6	Sample Type: Soil
Sample Collection Method: Bore	Sample Depth: 4-6
Soil Type:	Rad Screen Instrument: 44-9 A micro-R-A
Rad Screen Bkg. (cpm): 6.2cpm 10mR	Rad Screen (cpm): 57cpm
Comments: Silt foam layer 5/6 depletions common 10YR 7/1 may accumulations 1/2 4.5 ft. 2% gravel sub-angular lots of mags. -Damp	
Recorded by: CSE	QA by: Date: 10-12-08

COC No.:	
Task Team Members: CSE / AMT / DOL / DMM	
Sample ID: 5412-01	Station ID: JP-SCA-001
Collection Date: 10-12-08	Collection Time: 1414
Property Name: JPL	Sample Location: cut off SW
Northing (units): 4308377.44	Easting (units): 637295.04
Cover Depth (ft): 0.0 - 0.5	Sample Type: Soil
Sample Collection Method: Bore	Sample Depth: 0.0 - 0.5
Soil Type:	Rad Screen Instrument: 44-9 A micro-R-A
Rad Screen Bkg. (cpm): 43cpm 10mR	Rad Screen (cpm): 58
Comments: Silt foam 10YR 5/6 iron oxidation, fine grains fine. -gravel fines & shreds.	
Recorded by: CSE	QA by: Date: 10-12-08

Task Team Members: <u>CSL/AAT/DDL/DMM</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SCI-001</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1416</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out of DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>43</u> <u>10uR</u>	Rad Screen (cpm): <u>51</u>	
Comments: <u>Silt loam 10YR 5/6 iron oxidation, fine roots</u> <u>fine structure.</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

Task Team Members: <u>CSL/AAT/DDL/DMM</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SCI-001</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1417</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out of DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>43 cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>50 cpm</u>	
Comments: <u>Silt loam 10YR 6/8 some depletion, iron oxidations,</u> <u>fine roots</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-12-08</u>



Task Team Members: CSC/AMT/DBL/DMN		COC No.:
Sample ID: SATC-04	Station ID: SP-SC1-041	
Collection Date: 10-12-08	Collection Time: 1420	
Property Name: JPC	Sample Location: out of DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 2-4	Sample Type: SOIL	
Sample Collection Method: Grab	Sample Depth: 2-4	
Soil Type:	Rad Screen Instrument: 44-9-A micro-R-A	
Rad Screen Bkg. (cpm): 43cpm	10uR	Rad Screen (cpm): 51cpm
Comments: Silty loam 10uR 6/8 depletions (10uR 7/1) 2% small gravel		

Recorded by: CSC QA by: Date: 10-12-08

Task Team Members: CSC/AMT/DBL/DMN		COC No.:
Sample ID: SATC-01	Station ID: SP-SC5-012	
Collection Date: 10-12-08	Collection Time: 1510	
Property Name: JPC	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 10.0-10.5	Sample Type: SOIL	
Sample Collection Method: Grab	Sample Depth: 10.0-10.5	
Soil Type: silty	Rad Screen Instrument: 44-9-A micro-R-A	
Rad Screen Bkg. (cpm): 52cpm	10uR	Rad Screen (cpm): 65
Comments: Silty clay 10uR 5/4 depletions (10uR 6/1) fine roots		

-open field  
Recorded by: CSC QA by: Date: 10-12-08

Task Team Members: <u>CSL/ANT/DDL/DMM</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SCS-012</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1518</u>	
Property Name: <u>JPL</u>	Sample Location: <u>In DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CLC3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54</u>	Rad Screen (cpm): <u>68</u>	
Comments: <u>Silt loam 10YR 5/6 some depletions iron oxidation</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>
Task Team Members: <u>CSL/ANT/DDL/DMM</u>		
COC No.:		
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SCS-012</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1520</u>	
Property Name: <u>JPL</u>	Sample Location: <u>In DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CLC3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm):	Rad Screen (cpm): <u>57</u>	
Comments: <u>Silt loam 10YR 5/6 along intersection: 10YR 5/6 iron oxidation</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

Task Team Members: CSL/AMT/DDL/DMM		COC No.:
Sample ID: SAIC-04	Station ID: JP-SCS-012	
Collection Date: 10-12-08	Collection Time: 1523	
Property Name: JPB	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 2-4	Sample Type: SOIL	
Sample Collection Method: BORE	Sample Depth: 2-4	
Soil Type: ChG	Rad Screen Instrument: 44-9-A micro-R-A	
Rad Screen Bkg. (cpm): 52cpm 10uR	Rad Screen (cpm): 63cpm 58	
Comments: silt loam 10YR 5/6 clay intrusions 10YR 5/2 iron accumulation, or oxidation		

Recorded by: CSL	QA by:	Date: 10-12-08
Task Team Members: CSL/AMT/DDL/DMM		
COC No.:		
Sample ID: SAIC-01	Station ID: JP-SCS-030	
Collection Date: 10-12-08	Collection Time: 1548	
Property Name: JPB	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 0.0 - 0.5	Sample Type: SOIL	
Sample Collection Method: BORE	Sample Depth: 0.0 - 0.5	
Soil Type: R0B2	Rad Screen Instrument: 44-9-A micro-R-A	
Rad Screen Bkg. (cpm): 48cpm 8uR	Rad Screen (cpm): 43	
Comments: silt 10YR 4/3 fine roots organics - DUP - Burned area open field		
Recorded by: CSL	QA by:	Date: 10-12-08

COC No.:	
Task Team Members: <u>CSL/AMT/DDC/DMH</u>	
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SLS-30</u>
Collection Date: <u>10-12-08</u>	Collection Time: <u>1551</u>
Property Name: <u>JFC</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>
Soil Type: <u>RBB</u>	Rad Screen Instrument: <u>44-9-A</u> <u>44-9-B</u>
Rad Screen Bkg. (cpm): <u>48</u> <u>BUR</u>	Rad Screen (cpm): <u>48</u>
Comments: <u>Silt 107R 5/3 iron oxidation fine roots, fine</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

COC No.:	
Task Team Members: <u>CSL/AMT/DDC/DMH</u>	
Sample ID: <u>SALC 03</u>	Station ID: <u>JP-SLS-030</u>
Collection Date: <u>10-12-08</u>	Collection Time: <u>1553</u>
Property Name: <u>JFC</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>RBB</u>	Rad Screen Instrument: <u>44-9-A</u> <u>44-9-B</u>
Rad Screen Bkg. (cpm): <u>48</u> <u>BUR</u>	Rad Screen (cpm): <u>55</u>
Comments: <u>Silt 107R 5/3 iron oxidation, depletions</u> <u>107R 6/2</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

Task Team Members: CBL/ANT/DEL/DMH		COC No.:
Sample ID: SAIL-04	Station ID: JP-SL5-030	
Collection Date: 10-12-08	Collection Time: 1554	
Property Name: JPG	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 2-4	Sample Type: SOIL	
Sample Collection Method: BORE	Sample Depth: 2-4	
Soil Type: R.R.2	Rad Screen Instrument: 44-9-A micro-R-A	
Rad Screen Bkg. (cpm): 48	8.2 R	Rad Screen (cpm): 43
Comments: Silt loam 10YR 5/2 some depletions 10YR 7/1 nothing (10YR 5/2)		

Recorded by: CBL QA by: Date: 10-12-08

Task Team Members: CBL/ANT/DEL/DMH		COC No.:
Sample ID: SAIL-01	Station ID: JP-SL4-009	
Collection Date: 10-12-08	Collection Time: 1625	
Property Name: JPG	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 0.0-0.5	Sample Type: SOIL	
Sample Collection Method: BORE	Sample Depth: 0.0-0.5	
Soil Type: Co	Rad Screen Instrument: 44-9-A micro-R-A	
Rad Screen Bkg. (cpm): 51	10.2 R	Rad Screen (cpm): 41.7 cpm
Comments: Silt loam 10YR 6/3 organics, fine, fine roots - hardwoods (maple & sweet gum) - MS/MSD <del>cherry</del> red		
Recorded by: CBL	QA by:	Date: 10-12-08

COC No.:	
Task Team Members: <u>CSL/DMM/AMT/DDI</u>	
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-S24-009</u>
Collection Date: <u>10-12-08</u>	Collection Time: <u>1629</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>51 cpm</u> <u>104R</u>	Rad Screen (cpm): <u>57</u>
Comments: <u>Silt loam 10YR 7/4 iron oxidation, very fine, fine roots.</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

COC No.:	
Task Team Members: <u>CSL/HMT/DDI/DMM</u>	
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-S24-009</u>
Collection Date: <u>10-12-08</u>	Collection Time: <u>1632</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>51 cpm</u> <u>104R</u>	Rad Screen (cpm): <u>57 cpm</u>
Comments: <u>Silt loam 10YR 7/4 iron oxidation fine structure</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SC4-009</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1436</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>51cpm 10-R</u>	Rad Screen (cpm): <u>54cpm</u>	
Comments: <u>Silt loam 10YR 6/2 mottling 10YR 5/6 mag accumulations</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIL-05</u>	Station ID: <u>JP-SC4-009</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1441</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>51cpm 10-R</u>	Rad Screen (cpm): <u>103cpm</u>	
Comments: <u>Silt loam 10YR 5/2 mottling 10YR 5/6 mag accumulations</u> <u>(a) 5.10 mottling becomes common &amp; darker (10YR 4/6)</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

Task Team Members: CSL/AM-/ZDL/imm.		COC No.:
Sample ID: SAIL-01	Station ID: JP-SC5-022	
Collection Date: 10-12-08	Collection Time: 1709	
Property Name: TFB	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 0.0-0.5	Sample Type: Soil	
Sample Collection Method: CORE	Sample Depth: 0.0-0.5	
Soil Type: 10	Rad Screen Instrument: 44-9-A micro-R-A	
Rad Screen Bkg. (cpm): 41cpm B.R.	Rad Screen (cpm): 51cpm	
Comments: silt 10 YR 5/2 fine roots, 5% sub-angular gravel iron oxidation		
- Damp		
- along Center recovery Rd.		
Recorded by: CSL	QA by:	Date: 10-12-08

Task Team Members: CSL/AM-/ZDL/imm.		COC No.:
Sample ID: SAIL-02	Station ID: JP-SC5-022	
Collection Date: 10-12-08	Collection Time: 1711	
Property Name: TFB	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 0.5-1	Sample Type: Soil	
Sample Collection Method: BORE	Sample Depth: 0.5-1	
Soil Type: C0	Rad Screen Instrument: 44-9-A micro-R-A	
Rad Screen Bkg. (cpm): 41cpm B.R.	Rad Screen (cpm): 56cpm	
Comments: silt 10 YR 5/1 organics, fine roots, iron oxidations		
- Damp		
Recorded by: CSL	QA by:	Date: 10-12-08



COC No.:	
Task Team Members: CSC/AMR/DDK/OMM	
Sample ID: SAIC-03	Station ID: JP-SCS-023
Collection Date: 10-12-08	Collection Time: 1215
Property Name: JPL	Sample Location: in DU
Northing (units):	Easting (units):
Cover Depth (ft): 1-2	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 1-2
Soil Type: Co	Rad Screen Instrument: 44-9-A micro-R-A
Rad Screen Bkg. (cpm): 41 BGR	Rad Screen (cpm): 43cpm
Comments: Silty clay 10YR 6/2 5% angular gravel, organics @ 1.5 ft depth 10YR 7/2 - Damp	

Recorded by: CSC QA by: Date: 10-12-08

COC No.:	
Task Team Members: CSC/AMR/DDK/OMM	
Sample ID: SAIC-04	Station ID: JP-SCS-023
Collection Date: 10-12-08	Collection Time: 1723
Property Name: JPL	Sample Location: in DU
Northing (units):	Easting (units):
Cover Depth (ft): 2-4	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 2-4
Soil Type: Co	Rad Screen Instrument: 44-9-A micro-R-A
Rad Screen Bkg. (cpm): 41cpm BGR	Rad Screen (cpm): 60cpm
Comments: Silty clay 10YR 6/2 mottling 10YR 4/4 may occur. common	
Recorded by: CSC QA by: Date: 10-12-08	

Task Team Members: <u>CSL/AMT/DOL/DMH</u>		COC No.:
Sample ID: <u>S11C-01</u>	Station ID: <u>JP-SC2-009</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1752</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BCR</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>61cpm</u> <u>BuR</u>	Rad Screen (cpm): <u>39cpm</u>	
Comments: <u>Silt loam 101R 4/3 fine roots, 5% sub-angular gravel.</u>		
<u>- open field just burned along center recovery Rd.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

Task Team Members: <u>CSL/AMT/DOL/DMH</u>		COC No.:
Sample ID: <u>S11C-02</u>	Station ID: <u>JP-SC2-009</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1756</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BCR</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>61cpm</u> <u>BuR</u>	Rad Screen (cpm): <u>50</u>	
Comments: <u>Silty clay 101R 4/2 fine roots 100% sub-angular</u>		
Recorded by: <u>CSL</u>		
QA by:		Date: <u>10-12-08</u>

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC2009</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1757</u>	
Property Name: <u>JP6</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-A</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>61cpm 8.2R</u>	Rad Screen (cpm): <u>51cpm</u>	
Comments: <u>Silty clay 10YR 5/3 some silt, 10YR 5/6</u> <u>impurities 10YR 6/2</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-12-08

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC2009</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1800</u>	
Property Name: <u>JP6</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-A</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>61cpm 8.2R</u>	Rad Screen (cpm): <u>52cpm</u>	
Comments: <u>Silt loam 10YR 6/2 nothing 10YR 4/4 mag. accumulations</u> <u>some coarse sand. 5 1/2</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-12-08</u>

Task Team Members: <u>CSL/DOL/AMT/GP</u>		COC No.:
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SC3-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0835</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-AC</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>46 49cpm 9uR</u>	Rad Screen (cpm): <u>46cpm</u>	
Comments: <u>silt loam 10YR 4/3 iron oxidation, fine roots, organics</u> <u>- DUP taken</u> <u>- Along center Recovery Rd.</u> <u>- Clearing in a Hardwood stand (Red maple &amp; Sweet Gum)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SC3-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0840</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-AC</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 9uR</u>	Rad Screen (cpm): <u>45cpm</u>	
Comments: <u>silt loam 10YR 6/2 iron oxidation, fine roots, organics</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SC3-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0844</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CSL</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 9uR</u>	Rad Screen (cpm): <u>49cpm</u>	
Comments: <u>Silt loam 10YR 7/3 iron oxidation, fine structure, fine roots &amp; organics.</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>
Task Team Members: <u>CSL/AMT/GP/DDL</u>		
COC No.:		
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SC3-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0849</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 9uR</u>	Rad Screen (cpm): <u>57cpm</u>	
Comments: <u>Silt loam 10YR 7/3 iron oxidation</u> <u>@ 325' Silt loam 10YR 6/3 nothing 10YR 4/4 neg.</u> <u>accumulations, coarse sand mixed in</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-05</u>	Station ID: <u>JP-SC3-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0852</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in D12</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>soil</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-L</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 9+R</u>	Rad Screen (cpm): <u>66cpm</u>	
Comments: <u>Silt loam 10YR 6/3 clay intrusions, mottling</u> <u>10YR 5/6, common, fine</u> <u>- Damp</u> <u>- DUP</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC1-003</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0922</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU outside</u>	
Northing (units): <u>43083724</u>	Easting (units): <u>637295.1</u>	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>soil</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>43cpm 10+R</u>	Rad Screen (cpm): <u>47cpm</u>	
Comments: <u>Silt loam 10YR 4/2 fine roots, iron oxidation, 2%</u> <u>gravel, organics</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC1-003</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0923</u>	
Property Name: <u>JPG</u>	Sample Location: <u>nut of</u> <u>DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>39 cpm</u>	<u>4' 10" R</u>	Rad Screen (cpm): <u>47 cpm</u>
Comments: <u>Silt loam 10YR 6/2 fine roots, iron oxidation 2% gravel</u> <u>sub-angular</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>
Task Team Members: <u>CSL/AMT/GP/DDL</u>		
COC No.:		
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC1-003</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0925</u>	
Property Name: <u>JPG</u>	Sample Location: <u>nut of</u> <u>DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>39</u>	<u>10" R</u>	Rad Screen (cpm): <u>52 cpm</u>
Comments: <u>Silty clay 10YR 5/3 some mottling 10YR 5/6, 5% gravel</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SCI-003</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>0930</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out of</u> <u>DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>39 cpm 10-R</u>	Rad Screen (cpm): <u>60 cpm</u>	
Comments: <u>silty clay 10YR 6/3 nothing 10YR 5/6 some depletions</u> <u>10YR 7/2</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>
Task Team Members: <u>CSL/AMT/GP/DDL</u>		
COC No.:		
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SCI-002</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1017</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out of</u> <u>DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>CCE3</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52 cpm 12-R</u>	Rad Screen (cpm): <u>45</u>	
Comments: <u>O<sub>i</sub> horizon 10YR 3/3 fine roots &amp; organics</u> <u>Ap silt loam 10YR 6/4 iron oxidation, fine roots</u> <u>- open meadow</u> <u>- damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>



Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCI-002</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1019</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out of DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>CC3</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52cpm 12uR</u>	Rad Screen (cpm): <u>59cpm</u>	
Comments: <u>Silt loam 10YR 6/4 fine roots, iron oxidations</u>		
<u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCI-003</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1023</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out of DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CC3</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52cpm 12uR</u>	Rad Screen (cpm): <u>57</u>	
Comments: <u>silty clay 10YR 6/2 mottling 10YR 4/6 blocky structure medium,</u>		
<u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: CSC/AMT/GP/DDL		COC No.:
Sample ID: SAIC-04	Station ID: SP-SC1-002	
Collection Date: 10-13-08	Collection Time: 1020	
Property Name: SPG	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 2-4	Sample Type: Soil	
Sample Collection Method: BORE	Sample Depth: 2-4	
Soil Type: CCC3	Rad Screen Instrument: 44-9-C micro-R-A	
Rad Screen Bkg. (cpm): 52cpm 12mR	Rad Screen (cpm): 68cpm	
Comments: silty clay 104R 6/1 mottling 50% 104R 4/4 5% gravel sub-angular - 2.75 refusal 3.75'		

Recorded by: CSL QA by: Date: 10-13-08

Task Team Members: CSC/DDL/AMT/GP		COC No.:
Sample ID: SAIC-01	Station ID: SP-SC2-008	
Collection Date: 10-13-08	Collection Time: 1056	
Property Name: JPL	Sample Location: in DU	
Northing (units):	Easting (units):	
Cover Depth (ft): 0.0 - 0.5	Sample Type: Soil	
Sample Collection Method: BORE	Sample Depth: 0.0 - 0.5	
Soil Type: Co	Rad Screen Instrument: 44-9-C micro-R-A	
Rad Screen Bkg. (cpm): 53cpm 11mR	Rad Screen (cpm): 59cpm	
Comments: silt loam 104R 6/2 iron oxidation, fine roots depletions (104R 7/2) - Dry - Burned scrub brush		
Recorded by: CSL		QA by: Date: 10-13-08

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>SP-SC2-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1058</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 11uR</u>	Rad Screen (cpm): <u>42cpm</u>	
Comments: <u>Silt loam 10YR 6/2 depletions 10YR 7/2 iron oxidation</u> <u>fine structure, fine roots</u> <u>-Dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-13-08

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>SAIC-<sup>CSL</sup> SP-SC2-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1100</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 11uR</u>	Rad Screen (cpm): <u>57cpm</u>	
Comments: <u>Silt loam 10YR 6/4 depletions &amp; iron oxidation (10YR 7/2)</u> <u>Dry</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-13-08</u>		

Task Team Members: <u>CSC / AMT / GP / DDL</u>		COC No.:
Sample ID: <u>S-1C-04</u>	Station ID: <u>JP-SC2-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1102</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 11uR</u>	Rad Screen (cpm): <u>58cpm</u>	
Comments: <u>Silt clay 10 YR 6/3 mottling 10 YR 5/8 iron accumulation</u>		

Damp.

Recorded by: CSC QA by: \_\_\_\_\_ Date: 10-13-08

Task Team Members: <u>CSC / AMT / GP / DDL</u>		COC No.:
Sample ID: <u>S-1C-01</u>	Station ID: <u><del>S-1C-01</del> <sup>CSC</sup> JP-SC3-007</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1152</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10uR</u>	Rad Screen (cpm): <u>47cpm</u>	
Comments: <u>Silt loam 10 YR 6/2 iron oxidation, fine structure, fine roots</u> <u>- Dry</u> <u>- Mature hardwoods (Pin oak &amp; Black gum)</u>		
Recorded by: <u>CSC</u>		QA by: _____ Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-SC3-007</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1154</u>	
Property Name: <u>JP6</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10-R</u>	Rad Screen (cpm): <u>56cpm</u>	
Comments: <u>Silt loam 10YR 6/2 iron oxidation, fine roots, some</u> <u>depletions 10YR 8/2, 1% gravel small angular</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SC3-007</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1200</u>	
Property Name: <u>JP6</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10-R</u>	Rad Screen (cpm): <u>73cpm</u>	
Comments: <u>Silt loam 10YR 7/2 fine roots, iron oxidation, fine</u> <u>structure</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>S-AIC-04</u>	Station ID: <u>SP-SC3-007</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1203</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type:	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10uR</u>	Rad Screen (cpm): <u>57</u>	
Comments: <u>silt loam 10YR 7/2 fine roots, iron oxidation</u> <u>@ 3.5 ft. mottling 7.5YR 4/6 organics</u> <u>Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>S-AIC-05</u>	Station ID: <u>SP-SC3-007</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1206</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10uR</u>	Rad Screen (cpm): <u>43cpm</u>	
Comments: <u>silt loam 10YR 6/3 clay intrusions mottling 10YR 5/6</u> <u>Some mag. accumulations.</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SLS-022</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1226</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 10-R</u>	Rad Screen (cpm): <u>7<sup>CS</sup> 46cpm</u>	
Comments: <u>10YR 7/2 silt loam, fine roots, iron oxidation</u>		
<u>- Dry</u> <u>- Mature hard woods (Red maple &amp; Yellow Poplar)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/DOL/GP</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SLS-022</u>	
Collection Date: <u>10-13-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1.0</u> <u>CSL</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 10-R</u>	Rad Screen (cpm): <u>70cpm</u>	
Comments: <u>silt loam 10YR 7/3 fine roots, iron oxidation</u>		
<u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SC5-0022</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1230</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u>	<u>10-R</u>	Rad Screen (cpm): <u>58cpm</u>
Comments: <u>Silt loam 10YR 7/2 iron oxidation</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-13-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SC5-022</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1232</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u>	<u>10-R</u>	Rad Screen (cpm): <u>55cpm</u>
Comments: <u>Silt loam 10YR 7/2 mottling (10YR 4/6) mag. accumulations, common.</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-13-08



Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SLS-021</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1356</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49 cpm 10-R</u>	Rad Screen (cpm): <u>47</u>	
Comments: <u>Silt loam 10YR 5/3 fine roots iron oxidation</u> <u>- Dry</u> <u>- in pole timber (Red maple + Pin Oak)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SLS-021</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1358</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49 10-R</u>	Rad Screen (cpm): <u>54</u>	
Comments: <u>Silt loam 10YR 5/4 fine roots iron depletions (10YR 6/2)</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/DDL/6P</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC5-021</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1359</u>	
Property Name: <u>JPG</u>	Sample Location: <u>CSL</u> in <u>DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10uR</u>	Rad Screen (cpm): <u>49cpm</u>	
Comments: <u>Silt loam 10YR 6/3 iron Oxidation, some depletions (10YR 8/2)</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-13-08

Task Team Members: <u>CSL/AMT/6P/DDL</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC5-021</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1402</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10uR</u>	Rad Screen (cpm): <u>55cpm</u>	
Comments: <u>Silt loam 10YR 6/3 depletions (10YR 8/2) no</u> <u>(a) 3-0 Pt mottles, common, (10YR 4/6) mag. accumulations</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-12-08</u>		

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SC3-011</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1502</u>	
Property Name: <u>SALC</u> <sup>CSL</sup> <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>27cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>64</u>	
Comments: <u>Silt loam 10YR 5/2 fine roots, some oxidation, 2% gravel</u> <u>- Penetrators in the area</u> <u>- Hardwoods mature (white oak, black gum, &amp; yellow Poplar)</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/ANT/GP</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SC3-011</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1504</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>68</u>	
Comments: <u>Silt loam 10YR 5/4 fine roots, some oxidation</u> <u>5% gravel - angular</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SC3-011</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1505</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>BORE CS CO</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm 11uR</u>	Rad Screen (cpm): <u>62</u>	
Comments: <u>silt loam 10YR 6/6 oxidation, fine roots</u>		

- Dry

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-13-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SC3-011</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1507</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm 11uR</u>	Rad Screen (cpm): <u>48cpm</u>	
Comments: <u>silt loam 10YR 6/6 depletion, iron oxidation</u> <u>5% angular gravel.</u>		
- Dry		
- Refusal @ <u>3.5'</u> offset <u>3' ft.</u>		
- Refusal @ <u>3.75'</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-13-08</u>

Task Team Members: <u>CSL/DOL/AMT/GP</u>		COC No.:
Sample ID: <u>SAIL-081</u>	Station ID: <u>JP-SC4-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1614</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units): <u>4307623.67</u>	Easting (units): <u>637118.97</u>	
Cover Depth (ft): <u>4-6 0.0-0.5</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6 0.0-0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-g-c</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm 10~R</u>	Rad Screen (cpm): <u>53</u>	
Comments: <u>Silt loam 10YR 5/3 fine roots, fine structure.</u> <u>- Dry</u> <u>- Meadow tall shrubs</u> <u>- off set location due to thick brush (unable to due gamma in.)</u> <u>- Dup.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SC4-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1618</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-g-c</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm 10~R</u>	Rad Screen (cpm): <u>52cpm</u>	
Comments: <u>Silt loam 10YR 6/2 iron oxidation, fine roots</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-023</u>	Station ID: <u>JL-SC4-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1622</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm 10cpm R</u>	Rad Screen (cpm): <u>53</u>	
Comments: <u>Silt loam 10YR 6/3 iron accumulations, coarse roots</u> <u>- damp</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>
Task Team Members: <u>CSL/ANT/GP/DDL</u>		
COC No.:		
Sample ID: <u>SALC-034</u>	Station ID: <u>JL-SC4-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1626</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm 10cpm R</u>	Rad Screen (cpm): <u>68cpm</u>	
Comments: <u>Silty Clay 10YR 6/3 mottling 10YR 4/6 mag. accum.</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIL-08</u>	Station ID: <u>JP-SC4-008</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1:20</u>	<u>1630</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm 10uR</u>	Rad Screen (cpm): <u>56cpm</u>	
Comments: <u>Silty clay 10YR 6/2 nothing (10YR 5/B)</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>
Task Team Members: <u>CSL/AMT/GP/DDL</u>		
COC No.:		
Sample ID: <u>SAIL-08<sup>CSL</sup></u>	Station ID: <u>JP-SC4-002</u>	
Collection Date: <u>12-13-08</u>	Collection Time: <u>1731</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6 0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>46 10uR</u>	Rad Screen (cpm): <u>63cpm</u>	
Comments: <u>Silt loam 10YR 5/3 fine roots, some depletions, organics</u> <u>- Mature hardwoods (white oak, Red maple)</u> <u>- Penetrators in the area.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/AMT/GP/DDC</u>		COC No.:
Sample ID: <u>SAC-02</u>	Station ID: <u>JP-SC4-002</u>	
Collection Date: <u>10-12-08</u>	Collection Time: <u>1733</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>46</u> <u>10~R</u>	Rad Screen (cpm): <u>59</u>	
Comments: <u>Silt loam 10YR 6/4 iron oxidation, fine d</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-12-08</u>

Task Team Members: <u>CSL/AMT/GP/DDC</u>		COC No.:
Sample ID: <u>SAC-03</u>	Station ID: <u>JP-SC4-002</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1735</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>46</u> <u>10~R</u>	Rad Screen (cpm): <u>57</u>	
Comments: <u>Silt loam 10YR 6/4 iron accumulations, fine structure.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>



Task Team Members: <u>CSL/AMT/GP/PDL</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SC4-002</u>	
Collection Date: <u>10-13-08</u>	Collection Time: <u>1756</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>46cpm 10~R</u>	Rad Screen (cpm): <u>62</u>	
Comments: <u>silt loam 10YR 6/3 some depletions &amp; iron oxidation.</u> <u>-hit refusal @ 3.5' offset 4' and hit refusal again.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-13-08</u>

Task Team Members: <u>CSL/PDL/AMT/GP</u>		COC No.:
Sample ID: <u>SALC-05<sup>1</sup></u>	Station ID: <u>JP-SC</u>	
Collection Date: <u>10-13-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u> <sup>CSL</sup>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u> <sup>CSL</sup>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm):	Rad Screen (cpm):	
Comments:		
Recorded by: <u>CSL</u>		
QA by:		Date: <u>10-13-08</u> <sup>CSL</sup>

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SCS-024</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1010</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units): <u>43479197.20</u>	Easting (units): <u>637932.51</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>63</u>	<u>12HR</u>	Rad Screen (cpm): <u>72cpm</u>
Comments: <u>Silt loam 10YR 5/3 iron oxidation, fine roots</u>		
<u>- Hardwood stand mature -</u>		
<u>- off set location due to thick under brush.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SCS-024</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1012</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>63</u>	<u>12HR</u>	Rad Screen (cpm): <u>70cpm</u>
Comments: <u>Silt loam 10YR 7/3 iron oxidation, fine roots</u>		
Recorded by: <u>CSL</u>		
QA by:		Date: <u>10-20-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC5-024</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1014</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63</u> <u>12uR</u>	Rad Screen (cpm): <u>59cpm</u>	
Comments: <u>Silt loam 10YR 7/2 iron oxidation structure R+</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSL/DDL/AMT/GP</u>		COC No.:
Sample ID: <u>SAIC-07</u>	Station ID: <u>JP-SC5-024</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1016</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63</u> <u>12uR</u>	Rad Screen (cpm): <u>67cpm</u>	
Comments: <u>Silt loam 10YR 7/2 mag accumulations, mottling 10YR 5/6</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SC3-009</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>0930</u>	
Property Name: <u>JP-SC <sup>CSL</sup> JPC</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-</u>	
Rad Screen Bkg. (cpm): <u>44cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>71cpm</u>	
Comments: <u>Silt loam 10YR 6/3 fine roots, some iron accumulation</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SC3-009</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>0932</u>	
Property Name: <u>JPC</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-</u>	
Rad Screen Bkg. (cpm): <u>44cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>71cpm</u> <sup>CSL</sup> <u>46</u>	
Comments: <u>Silt loam 10YR 6/3 fine roots, some iron accumulations</u> <u>depletions 10YR 7/1</u> <u>- some mature timber, majority is saplings</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-20-08</u>

Task Team Members: <u>CSL/ANT/GP/DDC</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SC3-009</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>0935</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-</u>	
Rad Screen Bkg. (cpm): <u>44cpm 10YR</u>	Rad Screen (cpm): <u>69cpm</u>	
Comments: <u>Silt loam 10YR 7/3 depletions 10YR 8/2 some iron</u> <u>oxidation</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSL/ANT/GP/DDC</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SC3-009</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>0938</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>2-9</u> <sup>CSL</sup> <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-</u>	
Rad Screen Bkg. (cpm): <u>44cpm 10YR</u>	Rad Screen (cpm): <u>76cpm</u>	
Comments: <u>Silt loam 10YR 7/3 depletions 10YR 8/2 @ 3.5' ft</u> <u>Silt loam 10YR 7/3 with mottles 10YR 5/6 and</u> <u>mag. accumulations</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSC/ANT/GP/DDC</u>		COC No.:
Sample ID: <u>SAIL-05</u>	Station ID: <u>JPS-03-008</u>	
Collection Date: <u>10-20-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4.6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4.6</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-</u>	
Rad Screen Bkg. (cpm): <u>44-9-B</u> <u>104R</u>	Rad Screen (cpm): <u>66</u>	
Comments: <u>Silt loam 104R 7/3 nothing common 104R 5/8</u>		

Recorded by: CSC QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSC/ANT/GP/DDC</u>		COC No.:
Sample ID: <u>SAIL-01</u>	Station ID: <u>JPS-SCS-013</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>in DU</u> <u>1043</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-</u>	
Rad Screen Bkg. (cpm): <u>63cpm</u> <u>104R</u>	Rad Screen (cpm): <u>71cpm</u>	
Comments: <u>Silt loam 104R 6/4 fine &amp; coarse roots, organics.</u>		

Recorded by: CSC QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSL/AMT/DOL/GP</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-SLS-013</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1045</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm 10uR</u>	Rad Screen (cpm): <u>63</u>	
Comments: <u>Silt loam 10YR 6/6 fine roots, iron oxidation</u> <u>friable</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SLS-013</u>	
Collection Date: <u>10-20-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm 10uR</u>	Rad Screen (cpm): <u>68cpm</u>	
Comments: <u>Silt loam 10YR 6/6 fine structure some depletions,</u> <u>mag. accumulations, friable</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

COC No.:	
Task Team Members: <u>CSL/AMT/GP/DDL</u>	
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC5-013</u>
Collection Date: <u>10-20-08</u>	Collection Time: <u>1050</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2.4</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>2.4</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R</u>
Rad Screen Bkg. (cpm): <u>63cpm 10xR</u>	Rad Screen (cpm): <u>69</u>
Comments: <u>Silt loam 10YR 5/8, friable, iron oxidation some</u> <u>Dry mag accumulations</u> <u>refusal @ 2.5 inches ft. off setting Bore</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-20-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/GP/DDL</u>	
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SC5-020</u>
Collection Date: <u>10-20-08</u>	Collection Time: <u>1230</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.0 - 0.5</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>54cpm 8xR</u>	Rad Screen (cpm): <u>66cpm</u>
Comments: <u>Silt loam 10YR 5/3 fine roots, iron oxidation, organics</u> <u>in the first 3 inches</u> <u>- in scrub brush, Golden rod &amp; sweet gum</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-20-08</u>



Task Team Members: <u>CSL/AMT/DOL/GP</u>		COC No.:
Sample ID: <u>S116-02</u>	Station ID: <u>JP-SCS-020</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1232</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54cpm</u> <u>8uR</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>Silt loam 10YR 6/2 iron oxidation, some fine roots</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSL/AMT/GP/DPL</u>		COC No.:
Sample ID: <u>S116-03</u>	Station ID: <u>JP-SCS-020</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1234</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54cpm</u> <u>8uR</u>	Rad Screen (cpm): <u>79</u>	
Comments: <u>Silt loam 10YR 6/2 iron oxidation, depletions 10YR 8/1</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

COC No.:	
Task Team Members: <u>CSL / ANT / GP / DDL</u>	
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SC5-020</u>
Collection Date: <u>10-20-08</u>	Collection Time: <u>1235</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>54cpm</u> <u>8uR</u>	Rad Screen (cpm): <u>71</u>
Comments: <u>Silty clay 10YR 7/2 nothing 10YR 4/6 mag. accumulations</u>	

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>
COC No.:		
Task Team Members: <u>CSL / ANT / GP / DDL</u>		
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-SC5-019</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1309</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>0.0-0.5</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>65</u>	
Comments: <u>Silt loam 10YR 6/2 fine roots, oxidized iron</u> <u>- scrub brush &amp; a few pole size trees</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/ANT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JPSCS-019</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1311</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>65</u>	
Comments: <u>Silt loam 104R 6/3 iron oxidation in root channels</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/DOL/ANT/GP</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCS-019</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1313</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>61</u>	
Comments: <u>Silt loam 104R 6/3 iron oxidation fine structure.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/ANT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SC5-019</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1314</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm 9uR</u>	Rad Screen (cpm): <u>66</u>	
Comments: <u>Silt loam 10YR 6/4 depletions 10YR 8/1 @ 3.0 ft</u> <u>mottling &amp; mag. accumulations 10YR 4/6</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>
Task Team Members: <u>CSL/ANT/GP/DPL</u>		
COC No.:		
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SC3-006</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1332</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm 9uR</u>	Rad Screen (cpm): <u>59</u>	
Comments: <u>Silt loam 10YR 6/2 fine roots, structure fine</u> <u>- Dup taken</u> <u>- Pole size lumber (pin oak)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC3-006</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1330</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm 9uR</u>	Rad Screen (cpm): <u>42cpm</u>	
Comments: <u>Silt loam 10YR 7/2 fine roots some depletions 10YR 8/1</u> <u>&amp; iron oxidations</u> <u>- Dup</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>
[Redacted Signature]		
Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>JP-SC SAIC-03</u>	Station ID: <u>JP-SC3-006</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1339</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm 9uR</u>	Rad Screen (cpm): <u>63cpm</u>	
Comments: <u>Silt loam 10YR 7/2 fine structure, fine roots iron</u> <u>oxidation, some depletions 10YR 8/1</u> <u>- Dup</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC3-006</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1339 1343</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>73cpm</u>	
Comments: <u>Silt loam 10YR 7/2, iron oxidations, fine structure</u> <u>some mottles 10YR 6/6</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>
[REDACTED]		
Task Team Members: <u>CSL/AMT/GP/DDC</u>		COC No.:
Sample ID: <u>SAIC-05</u>	Station ID: <u>JP-SC3-006</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1345 1348</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>54cpm</u>	
Comments: <u>Silt loam 10YR 7/1 mottling 10YR 4/4 more clay</u> <u>@ 4'25" clay 5.75' ft. clay silty clay 10YR 6/1</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/AMT/DDL/6P</u>		COC No.:
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SC5-017</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1531</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>46cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>62</u>	
Comments: <u>Silt loam 10yr 0/4 friable, fine roots, iron oxidation</u> <u>- moved area sample location due to penetrator in on the location.</u> <u>- thicker of sapling</u> <u>- penetrators around area one 20' ft away</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/AMT/6P/DDL</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SC5-017</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1533</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54</u> <u>46</u> <u>11uR</u>	Rad Screen (cpm): <u>58</u>	
Comments: <u>Silt loam 10yr 0/4 friable, depletions (10yr 0/1) some</u> <u>iron oxidation</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/ANT/GP/DPL</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC5-017</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1535</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>46cpm 11uR</u>	Rad Screen (cpm): <u>53cpm</u>	
Comments: <u>Silt loam 10YR 6/4 friable, oxidation &amp; depletions</u> <u>10YR 7/1</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08

Task Team Members: <u>CSL/DPL/ANT/GP</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC5-017</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1536</u>	
Property Name: <u>JPL</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>46cpm 10uR</u>	Rad Screen (cpm): <u>61</u>	
Comments: <u>silt loam 10YR 6/4 friable, iron oxidation, some</u> <u>mottling @ 3.5 ft</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-20-08



Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>SP-SC5-029</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1612</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units): <u>4306294.80</u>	Easting (units): <u>637875.34</u>	
Cover Depth (ft): <u>0.0 - .5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm 10uR</u>	Rad Screen (cpm): <u>55</u>	
Comments: <u>Silt loam 10YR 5/4 fine roots, structure fine</u> <u>- Damp</u> <u>- offset due to brush (Golden rodd sweet gum)</u> <u>- open scrub brush</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/AMT/GP/DOL</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>SP-SC5-029</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1613</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm 10uR</u>	Rad Screen (cpm): <u>64cpm</u>	
Comments: <u>Silt loam 10YR 5/4 fine roots, fine structure.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/GP/DOL</u>	
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SCS-017</u>
Collection Date: <u>10-20-08</u>	Collection Time: <u>1615</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>56cpm 10~R</u>	Rad Screen (cpm): <u>75cpm</u>
Comments: <u>silt loam 10YR 5/3 depletions 10YR 7/1 (some matting) 1SL</u> <u>nothing 10YR 5/3</u> <u>@ 1.75</u>	
- Dump	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-20-08</u>
COC No.:	
Task Team Members: <u>CSL/AMT/GP/DOL</u>	
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SCS-017</u>
Collection Date: <u>10-20-08</u>	Collection Time: <u>1617</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>56cpm 10~R</u>	Rad Screen (cpm): <u>64cpm</u>
Comments: <u>silt loam 10YR 6/4 depletions 10YR 7/1 matting</u> <u>10YR 5/8</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-20-08</u>

Task Team Members: <u>CSL/ANT/GP/DOL</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SC3-010</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1639</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>56</u>	
Comments: <u>Silt loam 10YR 6/4 fine roots, organics, fine structure,</u> <u>- Pale timber sweet gum &amp; red maple lots of cruders</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>
[Redacted]		
Task Team Members: <u>CSL/ANT/GP/DOL</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SC3-010</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1617</u> <sup>15</sup> <u>1641</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>65</u>	
Comments: <u>Silt loam 10YR 5/4 fine roots, some coarse gravel, 6% ss</u> <u>retus 13u</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>S41C-03</u>	Station ID: <u>JP-SC3-010</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1652</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54cpm 10-R</u>	Rad Screen (cpm): <u>70cpm</u>	
Comments: <u>Silt loam 10yr 5/4 rock fragments 1% fine roots</u> <u>friable.</u>		
<u>- Refusal @ 1.5' ft</u> <u>- offset 2.0' ft to the North West.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

Task Team Members: <u>CSL/AMT/DDL/GP</u>		COC No.:
Sample ID: <u>S41C-04</u>	Station ID: <u>JP-SC3-010</u>	
Collection Date: <u>10-20-08</u>	Collection Time: <u>1652</u> <u>1700</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DV</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54cpm 10-R</u>	Rad Screen (cpm): <u>69cpm</u>	
Comments: <u>Silt loam 10yr 4/0 rock fragments, angular 2%</u> <u>@ 2.75</u> <u>↳ silt 10yr 5/2</u>		
<u>- Refusal @ 3.5' ft.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-20-08</u>

COC No.:	
Task Team Members: <u>CSL/EP/DDL/ANT</u>	
Sample ID: <u>SAL-01</u>	Station ID: <u>SCR-001</u> <sup>ISL</sup> <u>JP-SCR-001</u> <u>JP-LCR-001</u> (0900)
Collection Date: <u>10-21-08</u>	Collection Time: <u>0847</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>
Soil Type: <u>ROB2</u>	Rad Screen Instrument: <u>44-9-</u> <u>MICRO-R-A</u>
Rad Screen Bkg. (cpm): <u>45cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>60cpm</u>
Comments: <u>Silt loam 10YR 5/4 fine roots, friable, @ 3.75 inches</u> <u>iron oxidation, fine structure</u>	
<u>- Dry</u> <u>- Pole timber (sweet gum &amp; Red Maple)</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-21-08</u>

COC No.:	
Task Team Members: <u>CSL/ANT/EP/DDL</u>	
Sample ID: <u>SAL-02</u>	Station ID: <u>SCR-001</u> <sup>ISL</sup> <u>JP-SCR-001</u>
Collection Date: <u>10-21-08</u>	Collection Time: <u>0850</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>
Soil Type: <u>ROB2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>MICRO-R-A</u>
Rad Screen Bkg. (cpm): <u>45cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>65</u>
Comments: <u>Silt loam 10YR 7/3 iron oxidation, fine structure, some</u> <u>fine roots.</u>	
<u>- Dry</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-21-08</u>

Task Team Members: <u>CSL / AMT / GP / DDL</u>		COC No.:
Sample ID: <u>SAIL - 03</u>	Station ID: <u>JP - SCR - 001</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>0853</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Bore</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>R0B2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>Silt loam 10YR 7/1 some depictions, 10YR 8/1, iron</u> <u>oxidation, friable, fine structure.</u> <u>- dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-21-08

Task Team Members: <u>CSL / AMT / GP / DDL</u>		COC No.:
Sample ID: <u>SAIL - 04</u>	Station ID: <u>JP - SCR - 001</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>0857</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>R0B2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>45cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>64cpm</u>	
Comments: <u>Silt loam 10YR 6/4 depictions, 10YR 8/1 iron oxidation</u> <u>@ 2.75' ft mottling 10YR 4/6 @ 3.5' ft clay intrusions</u> <u>(10YR 6/2)</u> <u>- damp</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-21-08</u>

COC No.:

Task Team Members: CSL/AMT/GP/DDL

Sample ID: SA11-01

Station ID: JP-SCR-004

JP-KCR-004 (1009)

Collection Date: 10-21-08

Collection Time: 1010

Property Name: JPG

Sample Location: Back Ground

Northing (units):

Easting (units):

Cover Depth (ft): 0.0-0.5

Sample Type: SOIL

Sample Collection Method: BORE

Sample Depth: 0.0-0.5

Soil Type: CCL3

Rad Screen Instrument: 44-9-A

MICRO-R-A

Rad Screen Bkg. (cpm):

54cpm 9uR

Rad Screen (cpm):

82cpm

Comments: Silt loam 10yR 4/6 fine roots + structure, Small gravel 1%

- Dry

- Pore timber (sweet gum + Hickory)

Recorded by: CSL

QA by:

Date: 10-21-08

COC No.:

Task Team Members: CSL/AMT/GP/DDL

Sample ID: SA11-02

Station ID: JP-SCR-004

JP-KCR-004 JP-KCR-004

Collection Date: 10-21-08

Collection Time: 1015

Property Name: JPG

Sample Location: Back Ground

Northing (units):

Easting (units):

Cover Depth (ft): 0.5-1

Sample Type: SOIL

Sample Collection Method: BORE

Sample Depth: 0.5-1

Soil Type: CCL3

Rad Screen Instrument: 44-9-A

MICRO-R-A

Rad Screen Bkg. (cpm):

54cpm 9uR

Rad Screen (cpm):

73

Comments: Silt loam 10yR 5/4 5% sub angular gravel, some fine roots, fine structure.

- Dry

Recorded by: CSL

QA by:

Date: 10-21-08

COC No.:	
Task Team Members: <u>CSL/AMT/DDL/GP</u>	
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-SCR-004</u> <u>JP-KCR-009 (1023)</u>
Collection Date: <u>10-21-08</u>	Collection Time: <u>1020</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>CCL3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>54cpm 9uR</u>	Rad Screen (cpm): <u>61cpm</u>
Comments: <u>Silt loam 104R 6/4 5% angular gravel, iron accumulations @ 1.5 ft.</u>	

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>
COC No.:		
Task Team Members: <u>CSL/AMT/GP/DDL</u>		
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SCR-004</u> <u>JP-KCR-009 (1050)</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1047</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CCL3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>54cpm 9uR</u>	Rad Screen (cpm): <u>61cpm</u>	
Comments: <u>Silt loam 104R 6/3 mag. &amp; iron accumulations, 2% sub-angular gravel. @ 3.5' nothing 104R 4/4 common. clay intrusions 104R 6/2 - Refusal @ 3.0 ft / offset 2.0 ft.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>



Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SAR-003</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1141</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type: <u>AvB2</u>	Rad Screen Instrument: <u>44-9-A</u>	
	<u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm</u>	Rad Screen (cpm): <u>70cpm</u>	
Comments: <u>Silt loam 10YR 6/3 fine roots, friable, iron oxidation</u>		

~ Mature Hardwoods (sweetgum + Pin oak + Red maple)

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-21-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SAR-003</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1144</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>AvB2</u>	Rad Screen Instrument: <u>44-9-A</u>	
	<u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm</u>	Rad Screen (cpm): <u>50cpm</u>	
Comments: <u>Silt loam 10YR 6/3 coarse roots, iron oxidation, friable</u>		
<u>fine fine structure.</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-21-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>SAC JP-SER-003</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1147</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back GROUND</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>AVB2</u>	Rad Screen Instrument: <u>44-G-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56 cpm 9m R</u>	Rad Screen (cpm): <u>55 cpm</u>	
Comments: <u>Silt loam 10YR 7/4 friable, iron oxidation, coarse roots, fine structure</u>		

Recorded by: CSL      QA by:      Date: 10-21-08

Task Team Members: <u>CSL/DDL/AMT/GP</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>SAC JP-SER-003</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1200</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back GROUND</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>AVB2</u>	Rad Screen Instrument: <u>44-G-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56 cpm 9m R</u>	Rad Screen (cpm): <u>39</u>	
Comments: <u>Silt loam 10YR 7/4 friable iron oxide oxidation fine structure</u>		

Recorded by: CSL      QA by:      Date: 10-21-08

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SAC-008</u> <u>JP-KAC-009 (1252)</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1252</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Background</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm</u>	<u>9.5uR</u>	Rad Screen (cpm): <u>54cpm</u>
Comments: <u>Silt loam 10YR 6/2 fine roots, iron oxidation.</u> <u>fine structure.</u> <u>- Damp</u> <u>- Sapling stand (sweetgum &amp; red maple)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SAC-008</u> <u>JP-KAC-009 (1257)</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1257</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Lo</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm</u>	<u>9.5uR</u>	Rad Screen (cpm): <u>60cpm</u>
Comments: <u>Silt loam 10YR 7/2 iron oxidation, fine roots, structure fine</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SAC-008</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>JP-KAC-009 (1301)</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm</u>	Rad Screen (cpm): <u>9.5uR</u>	<u>68cpm</u>
Comments: <u>Silt loam 10YR 6/1 fine roots</u> <u>some @ 1.5-2.0 ft 1 depletion 10YR 8/1 iron oxidation</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SAC-008</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>JP-KAC-009 (1306)</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm</u>	Rad Screen (cpm): <u>9.5uR</u>	<u>56</u>
Comments: <u>Silty Clay 10YR 6/1 fine roots, nothing common</u> <u>10YR 4/1</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>

Task Team Members: <i>CSL/ANT/GP/DDL</i>		COC No.:
Sample ID: <i>S41C-01</i>	Station ID: <i>JP-SAC-007</i>	
Collection Date: <i>10-21-08</i>	Collection Time: <i>1410</i>	
Property Name: <i>S41C-01</i>	Sample Location: <i>Back Ground</i>	
Northing (units):	Easting (units):	
Cover Depth (ft): <i>0.0 - 0.5</i>	Sample Type: <i>SOIL</i>	
Sample Collection Method: <i>Bore</i>	Sample Depth: <i>0.0 - 0.5</i>	
Soil Type: <i>cm</i>	Rad Screen Instrument: <i>44-9-A</i> <i>micro-R-A</i>	
Rad Screen Bkg. (cpm): <i>46 cpm</i>	<i>9u R</i>	Rad Screen (cpm): <i>62</i>
Comments: <i>silt loam 10yR 6/2 some iron oxidation, fine roots</i> <i>+ structure</i> <i>- Dup</i> <i>- damp</i> <i>- moisture hard woods (white Oak &amp; Sweet gum)</i>		
Recorded by: <i>CSL</i>	QA by:	Date: <i>10-21-08</i>

Task Team Members: <i>CSL/ANT/GP/DDL</i>		COC No.:
Sample ID: <i>S41C-02</i>	Station ID: <i>JP-SAC-007</i>	
Collection Date: <i>10-21-08</i>	Collection Time: <i>1412</i>	
Property Name: <i>SPG</i>	Sample Location: <i>Back Ground</i>	
Northing (units):	Easting (units):	
Cover Depth (ft): <i>0.5 - 1</i>	Sample Type: <i>SOIL</i>	
Sample Collection Method: <i>Bore</i>	Sample Depth: <i>0.5 - 1</i>	
Soil Type: <i>cm</i>	Rad Screen Instrument: <i>44-9-A</i> <i>micro-R-A</i>	
Rad Screen Bkg. (cpm): <i>46 cpm</i>	<i>9u R</i>	Rad Screen (cpm): <i>57</i>
Comments: <i>silt loam 10yR 7/2 fine roots + structure, iron oxidation</i> <i>- Dup</i> <i>- damp</i>		
Recorded by: <i>CSL</i>	QA by:	Date: <i>10-21-08</i>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SALC-007</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1415</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Clm</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>46</u> <u>9uR</u>	Rad Screen (cpm): <u>41</u>	
Comments: <u>Silt loam 10yR 7/2 iron oxidation, fine roots &amp; structure.</u>		
<u>- Damp</u>		
<u>- Dup</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>
[REDACTED]		
Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SALC-007</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1417</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Clm</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>46</u> <u>9uR</u>	Rad Screen (cpm): <u>62</u>	
Comments: <u>Silt loam 10yR 7/1 mottling (10yR 4/6) structure medium.</u>		
<u>- Damp</u>		
<u>- Dup</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/GP/DOC</u>	
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SAC-009</u>
Collection Date: <u>10-21-08</u>	Collection Time: <u>1507</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>0.0-0.5</u>
Soil Type: <u>fm R0 B2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>60cpm 10uR</u>	Rad Screen (cpm): <u>66cpm</u>
Comments: <u>silt down 104R 5/4 fine roots &amp; structure.</u> <u>- mature hardwoods (sweet gum &amp; Red maple)</u> <u>- Dry</u> <u>- Dave wanted to note Gamma coverage was limited to the North of</u> Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-21-08</u> Radius.	

COC No.:	
Task Team Members: <u>CSL/AMT/GP/DOC</u>	
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SAC-009</u>
Collection Date: <u>10-21-08</u>	Collection Time: <u>1508</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>0.5-1</u>
Soil Type: <u>fm R0 B2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>60cpm 10uR</u>	Rad Screen (cpm): <u>81cpm</u>
Comments: <u>silt down 104R 5/4 fine roots,</u> <u>- Dry</u> Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-21-08</u>	

Task Team Members: <u>BL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-SAC-009</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1510</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Loam</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>60</u> <u>10</u>	Rad Screen (cpm): <u>54</u>	
Comments: <u>Silt loam 10YR 6/4 depletions 10YR 8/1 mag.</u> <u>accumulations, friable</u> <u>- Dry</u>		
Recorded by: <u>BL</u>	QA by:	Date: <u>10-21-08</u>

Task Team Members: <u>BL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SAC-009</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1517</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Loam</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>60cpm</u> <u>10-2</u>	Rad Screen (cpm): <u>50cpm</u>	
Comments: <u>Silt loam 10YR 5/4 depletions 10YR 8/2 mag. accumulations</u> <u>platy structure (medium) / firm.</u> <u>- Dry</u>		
Recorded by: <u>BL</u>	QA by:	Date: <u>10-21-08</u>



COC No.:	
Task Team Members: CSL/AMT/OP/DOL	
Sample ID: SAIC-01	Station ID: JP-SGR-8 <sup>CSL</sup> 008 JP-KGR-003 (1620)
Collection Date: 10-21-08	Collection Time: 1620
Property Name: JPL	Sample Location: Back ground
Northing (units):	Easting (units):
Cover Depth (ft): 0.0 - 0.5	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 0.0 - 0.5
Soil Type: GrE	Rad Screen Instrument: 44-9-A micro-R-A
Rad Screen Bkg. (cpm): 39cpm	Rad Screen (cpm): 48cpm
Comments: Silt loam 10YR 6/6 fine roots, 2% gravel angular	
- Dry - Mature hard woods (white oak &	
Recorded by: CSL	QA by: Date: 10-21-08

COC No.:	
Task Team Members: CSL/AMT/OP/DOL	
Sample ID: SAIC-02	Station ID: JP-SGR-008 JP-KGR-003 (1622)
Collection Date: 10-21-08	Collection Time: 1622
Property Name: JPL	Sample Location: Back ground
Northing (units):	Easting (units):
Cover Depth (ft): 0.5-1	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 0.5-1
Soil Type: GrE	Rad Screen Instrument: 44-9-A micro-R-A
Rad Screen Bkg. (cpm): 39cpm	Rad Screen (cpm): 62cpm
Comments: Silt loam 10YR 5/8 fine roots, some depletions 10YR 7/3 silt loam structure firm, medium.	
Recorded by: CSL	QA by: Date: 10-21-08

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SGR-008</u> <u>JP-KGR-003 (1629)</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1629</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>GrE</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>39cpm 10uR</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>Silt loam 10YR 5/8</u> <u>2% angular gravel</u> <u>Firm/medium (STRUCTURE)</u>		

Recorded by: <u>CSL</u>		QA by:	Date: <u>10-21-08</u>
Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:	
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SGR-008</u> <u>JP-KGR-003 (1634)</u>		
Collection Date: <u>10-21-08</u>	Collection Time: <u>1634</u>		
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>		
Northing (units):	Easting (units):		
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>		
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>		
Soil Type: <u>GrE</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>		
Rad Screen Bkg. (cpm): <u>39cpm 10uR</u>	Rad Screen (cpm): <u>60cpm</u>		
Comments: <u>Silt loam 10YR 5/6</u> <u>Firm/medium, friable, depleted</u> <u>10YR 7/3, 2% sub-rounded gravel</u>			
Recorded by: <u>CSL</u>		QA by:	Date: <u>10-21-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/GP/DDC</u>	
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCR-008</u>
Collection Date: <u>10-21-08</u>	Collection Time: <u>1720</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>
Soil Type: <u>Gr Dz</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>58cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>69cpm</u>
Comments: <u>Silt loam 10yR 4/8 friable, fine roots + structure.</u> <u>- Open meadow, some mature trees (Hickory + Black Walnut)</u> <u>- Dry</u> <u>- Dup taken</u>	
Recorded by: <u>CSL</u>	QA by: <u>[Redacted]</u> Date: <u>10-21-08</u>
COC No.:	
Task Team Members: <u>CSL/AMT/DDC/GP</u>	
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCR-008</u>
Collection Date: <u>10-21-08</u>	Collection Time: <u>1723</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>
Soil Type: <u>Gr Dz</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>58cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>81</u>
Comments: <u>Silt loam 10yR 6/6 friable, iron oxidations, fine roots</u> <u>some small gravel sub rounded 5%</u>	
Recorded by: <u>CSL</u>	QA by: <u>[Redacted]</u> Date: <u>10-21-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCR-008</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1725</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>44-09-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>58cpm</u>	<u>10uR</u>	Rad Screen (cpm): <u>69cpm</u>
Comments: <u>Silt loam 10YR 6/6 iron &amp; mag. accumulations,</u> <u>5% sub-rounded gravel</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>
Task Team Members: <u>CSL/AMT/GP/DDL</u>		
COC No.:		
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SCR-008</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1730</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>58cpm</u>	<u>10uR</u>	Rad Screen (cpm): <u>73cpm</u>
Comments: <u>Silt loam 10YR 5/4 iron/medium, iron &amp; mag. accumulations</u> <u>5% sub-angular gravel</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>
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Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SA1L-01</u>	Station ID: <u>JP-SGR-007</u> <u>JP-KGR-004</u> (1744)	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1744</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>CC3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56 cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>77</u>	
Comments: <u>silt loam 10YR 4/4 fine &amp; coarse roots, fine structure</u> <u>- Dry</u> <u>- open meadow some mature trees (Black locust + Black cherry)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>

Task Team Members: <u>CSL/ANT/GP/DDL</u>		COC No.:
Sample ID: <u>SA1L-02</u>	Station ID: <u>JP-SGR-007</u> <u>JP-KGR-004</u> (1747)	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1747</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>CC3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56 cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>88 cpm</u>	
Comments: <u>silt 10YR 5/4 fine roots &amp; structure</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>

Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SA1C-03</u>	Station ID: <u>JP-SGR-007</u> <u>JP-KGR-004</u> (1751)	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1751</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CCC3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>MILW-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm 11uR</u>	Rad Screen (cpm): <u>67cpm</u>	
Comments: <u>Silt 10yr 5/4 some depletions 10yr 7/2 some iron oxidation.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>
[REDACTED]		
Task Team Members: <u>CSL/AMT/GP/DDL</u>		COC No.:
Sample ID: <u>SA1C-04</u>	Station ID: <u>JP-SGR-007</u> <u>JP-KGR-004</u>	
Collection Date: <u>10-21-08</u>	Collection Time: <u>1754</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CCC3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>MILW-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm 11uR</u>	Rad Screen (cpm): <u>70cpm</u>	
Comments: <u>Silt loam 10yr 5/4 mottling 10yr 5/8 may accumulations depletions, 10yr 8/1</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-21-08</u>

Task Team Members: <u>CSL/DDC/AMT/</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SGR-009</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>0912</u>	
Property Name: <u>JPL</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>G-E</u>	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>74cpm</u>	<u>9uR</u>	Rad Screen (cpm): <u>76cpm</u>
Comments: <u>Silt 10YR 5/2 to the depth of 2.0" inches</u> <u>2.0"-6.0" silt 10YR 8/6 fine roots, friable, fine structure</u> <u>2% gravel - sub angular (dry)</u> <u>- mature hardwoods, American Beech, Sugar Maple, &amp; iron wood.</u> <u>- very steep terrain</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDC/</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SGR-009</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>0914</u>	
Property Name: <u>JPL</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>G-E</u>	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>74cpm</u>	<u>9uR</u>	Rad Screen (cpm): <u>53</u>
Comments: <u>Silt 10YR 5/6 fine roots, 2% gravel, friable, some fine roots</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SGR-009</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>0910</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>G-E</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>74cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>63cpm</u>	
Comments: <u>Silt loam 10YR 5/8 5% sub angular gravel, coarse</u> <u>root, dry, some depletion @ 1.75' ft (10YR 7/3)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>
Task Team Members: <u>CSL/ANT/DDL</u>		
COC No.:		
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SGR-009</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>0930</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>G-E</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>74cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>57cpm</u>	
Comments: <u>Silt loam 10YR 6/4 firm/medium dry, clay interstices</u> <u>10YR 6/3, mottling 10YR 5/6 some sub-rounded gravel.</u> <u>- refusal @ 3.0' offset &amp; get refusal @ same depth</u> <u>again.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>



Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SALT 01</u>	Station ID: <u>JP-SCR-009</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1002</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units): <u>4316422.07</u>	Easting (units): <u>038451.58</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>R0B2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>42cpm</u>	Rad Screen (cpm): <u>70cpm</u>	
Comments: <u>Silt loam 10YR 3/3 O<sub>i</sub> horizon (3.0' ft)</u> <u>Silt loam 10YR 4/3 @ 3.0" to 0.6" fine + coarse</u> <u>roots, structure fine - Dry</u> <u>- had to move locate due to large blow down (50' ±) ← South</u> <u>- Mature hard woods (Yellow Poplar + Sweet Gum)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>S41C-02</u>	Station ID: <u>JP-SCR-009</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1004</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>R0B2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>40cpm</u>	Rad Screen (cpm): <u>77cpm</u>	
Comments: <u>Silt loam 10YR 6/4 fine roots, iron oxidation, repetitions</u> <u>10YR 7/3 friable, structure fine.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/DDC/

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Sample ID: SAIL-03 Station ID: JP-SCR-009

Collection Date: 10-22-08 Collection Time: 1006

Property Name: JPG Sample Location: Back ground

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 1-2 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 1-2

Soil Type: R0 B2 Rad Screen Instrument: 44-9-B  
micro-R-A

Rad Screen Bkg. (cpm): 42cpm 11uR Rad Screen (cpm): 75cpm

Comments: Silt loam 10YR 6/4 depletions 10YR 8/1 iron oxidation  
common, coarse roots, friable

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-22-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/DDC

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Sample ID: SAIL-04 Station ID: JP-SCR-009

Collection Date: 10-22-08 Collection Time: 1010

Property Name: JPG Sample Location: Back ground

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 2-4

Soil Type: R0 B2 Rad Screen Instrument: 44-9-B  
micro-R-A

Rad Screen Bkg. (cpm): 47cpm 11uR Rad Screen (cpm): 64cpm

Comments: Silt loam 10YR 5/6 depletions 10YR 8/1 some iron  
oxidation

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-22-08

Task Team Members: CSL/tmt/ODL/ COC No.: \_\_\_\_\_

Sample ID: SALC - 01 Station ID: JP-SGR-006

Collection Date: 10-22-08 Collection Time: 1028

Property Name: JPG Sample Location: Back Ground

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0 - 0.5

Soil Type: G-D2 Rad Screen Instrument: 44-9-B  
MILCO-R-A

Rad Screen Bkg. (cpm): 66cpm 11uR Rad Screen (cpm): 66<sup>CSL</sup> 64cpm

Comments: Silt loam 10YR 4/4 fine roots & structure  
- open meadow  
- Damp  
- Dwp

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-22-08

Task Team Members: CSL/AMT/ODL/ COC No.: \_\_\_\_\_

Sample ID: SALC - 02 Station ID: JP-SGR-006

Collection Date: 10-22-08 Collection Time: 1033

Property Name: JPG Sample Location: Back ground

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5 - 1 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.5 - 1

Soil Type: G-D2 Rad Screen Instrument: 44-9-B  
MILCO-R-A

Rad Screen Bkg. (cpm): 66 11uR Rad Screen (cpm): 72

Comments: Silt loam 10YR 5/6 iron oxidation, fine structure  
- Damp  
- Dwp

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-22-08

Task Team Members: <u>CSL/ANT/DDL/</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SGR-006</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1034</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>44-G-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>66cpm</u>	<u>11uR</u>	Rad Screen (cpm): <u>65cpm</u>
Comments: <u>Silt loam 10YR 5/6 depletions 10YR 7/2</u> <u>iron oxidation.</u>		
- Dup - Damp		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/ANT/DDL/</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SGR-006</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1036</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>10' to 2-4</u>	
Soil Type: <u>Gr D2</u>	Rad Screen Instrument: <u>44-G-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>66cpm</u>	<u>11uR</u>	Rad Screen (cpm): <u>59cpm</u>
Comments: <u>Silt loam 10YR 5/6 depletions 10YR 7/2 some</u> <u>mag. &amp; iron accumulations, 50% small sub-rounded</u> <u>gravel</u>		
- Dup - Damp		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: CSL/AMT/DDL COC No.: \_\_\_\_\_

Sample ID: SAIL - 01 Station ID: JP-SGR-004  
JP-LGR-001 (1143)

Collection Date: 10-22-08 Collection Time: 1143

Property Name: JPG Sample Location: Back ground

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: Soil

Sample Collection Method: Bore Sample Depth: 0.0 - 0.5

Soil Type: G-E Rad Screen Instrument: 44-9-B  
micro-R-A

Rad Screen Bkg. (cpm): 42cpm 10uR Rad Screen (cpm): 62cpm

Comments: Silt loam 10YR 5/6 iron oxidation, fine roots, one large  
cobble in Base  
- Dry  
- mature hardwood (sweet gum)  
- Moved location 15' ft to the East - due to location in a drainage down to  
bed rock

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-22-08

Task Team Members: CSL/AMT/DDL COC No.: \_\_\_\_\_

Sample ID: SAIL - 02 Station ID: JP-SGR-004

Collection Date: 10-22-08 Collection Time: 1149

Property Name: JPG Sample Location: Back ground

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5 - 1 Sample Type: Soil

Sample Collection Method: Bore Sample Depth: 0.5 - 1

Soil Type: G-E Rad Screen Instrument: 44-9-B  
micro-R-A

Rad Screen Bkg. (cpm): 42cpm 10uR Rad Screen (cpm): 61cpm

Comments: Silt loam 10YR 6/4 depletions (10YR 7/2) iron oxidation  
fine roots, some mag accumulations, fine structure.

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-22-08

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-SGR-004</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1151</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0-1.2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Gr E</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>42cpm</u>	<u>11mR</u>	Rad Screen (cpm): <u>67cpm</u>
Comments: <u>Silt loam 10YR 5/6 iron &amp; mag. accumulations &amp; oxidation</u> <u>depletions (10YR 7/2) fine roots, structure firm/medium</u> <u>2% small sub-angular gravel</u>		

- Dry  
Recorded by: CSL QA by: Date: 10-22-08

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SGR-004</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1200</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Gr E</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>42cpm</u>	<u>11mR</u>	Rad Screen (cpm): <u>74cpm</u>
Comments: <u>Silt loam 10YR 5/6 accumulations of iron &amp; mag.</u> <u>Some depletions 10YR 7/3 rocks or fragments of</u> <u>rock 2% angular.</u>		
- Damp.		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>S41C-01</u>	Station ID: <u>JP-SAC-005</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1217</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>AvA</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>51cpm</u>	
Comments: <u>9.1F loam 10YR 6/3 fine roots &amp; structure, iron oxidation, &amp; organics.</u> <u>- Dry</u> <u>- Pale timber (sweet gum &amp; white oak)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>
[Redacted]		
Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>S41C-02</u>	Station ID: <u>JP-SAC-005</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1220</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>AvA</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>37</u>	
Comments: <u>Silt loam 10YR 6/3 depletions 10YR 8/1 iron oxidation,</u> <u>fine roots</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SAL-005</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1221</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52</u>	<u>10-R</u>	Rad Screen (cpm): <u>48</u>
Comments: <u>Silt loam 10YR 6/2 iron oxidation, fine roots,</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>12</u> <sup>CSL</sup> <u>JP-SAL-005</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1223</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52 cpm</u>	<u>10-R</u>	Rad Screen (cpm): <u>70 cpm</u>
Comments: <u>Silt loam 6/10YR 6/4 coarse roots, some nettles</u> <u>(10YR 5/6) depletions 10YR 8/2</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>



COC No.:

Task Team Members: CSL/AMT/DDL

Sample ID: SAIL-01

Station ID: JP-SAC-000

Collection Date: 10-22-08

Collection Time: 1328

Property Name: JPG

Sample Location: Back ground

Northing (units):

Easting (units):

Cover Depth (ft): 0.0 - 0.5

Sample Type: SOIL

Sample Collection Method: BORE

Sample Depth: 0.0 - 0.5

Soil Type: Cm

Rad Screen Instrument: 44-9-B

micro-R-A

Rad Screen Bkg. (cpm):

44cpm

9-R

Rad Screen (cpm):

52cpm

Comments: Silt loam 10YR 6/2 fine roots + structure, iron oxidation  
 organics  
 - MS/MSD  
 - Damp  
 - open meadow

Recorded by: CSL

QA by:

Date: 10-22-08

COC No.:

Task Team Members: CSL/AMT/DDL

Sample ID: SAIL-02

Station ID: JP-SAC-000

Collection Date: 10-22-08

Collection Time: 1333

Property Name: JPG

Sample Location: Back ground

Northing (units):

Easting (units):

Cover Depth (ft): 0.5 - 1

Sample Type: SOIL

Sample Collection Method: BORE

Sample Depth: 0.5 - 1

Soil Type: Cm

Rad Screen Instrument: 44-9-B

micro-R-A

Rad Screen Bkg. (cpm):

44cpm

9-R

Rad Screen (cpm):

60cpm

Comments: Silt loam 10YR 6/1 iron oxidation, fine roots +  
 structure  
 - MS/MSD  
 - Damp

Recorded by: CSL

QA by:

Date: 10-22-08

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-SAC-006</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1340</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>44cpm 9mR</u>	Rad Screen (cpm): <u>58cpm</u>	
Comments: <u>Silt loam 10YR 6/1 mottles 10YR 5/8 fine roots</u> <u>damp</u> <u>MS/MSD</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SAC-006</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1343</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>44cpm 9mR</u>	Rad Screen (cpm): <u>71</u>	
Comments: <u>Silt loam 10YR 6/1 mottling 10YR 4/6 fine structure</u> <u>clay intrusions</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/DDL</u>	
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SAC-004</u>
Collection Date: <u>10-22-08</u>	Collection Time: <u>1430</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units): <u>4315444.57</u>	Easting (units): <u>639453.06</u>
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>52cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>49cpm</u>
Comments: <u>Silt loam 10YR 6/2 iron oxidation, fine roots</u> <u>- Dump</u> <u>- moved due to marsh in the sample location saturated</u> <u>to the surface (move 50 ft North East)</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-22-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/DDL</u>	
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SAC-004</u>
Collection Date: <u>10-22-08</u>	Collection Time: <u>1432</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>
Soil Type:	Rad Screen Instrument: <u>44-9-13</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>52cpm</u> <u>9uR</u>	Rad Screen (cpm): <u>51cpm</u>
Comments: <u>Silt loam 10YR 6/2 iron oxidation, fine roots, structure</u> <u>- Dump</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-SAR-004</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1436</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BARE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52cpm 9mR</u>	Rad Screen (cpm): <u>68cpm</u>	
Comments: <u>Silt loam 10YR 6/1 fine roots, mottling 10YR 4/6</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SAR-004</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1440</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BARE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52cpm 9mR</u>	Rad Screen (cpm): <u>62cpm</u>	
Comments: <u>Silt loam 10YR 7/1 mottling (10YR 4/4) common, structure</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCR-007</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1553</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm</u>	11uR	Rad Screen (cpm): <u>85cpm</u>
Comments: <u>Silt 104R 5/4 fine roots &amp; structure, friable</u>		
- Dry		
- Sapling & pole timber mixed stand (Dogwood & sweet gum)		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCR-007</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1554</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm</u>	11uR	Rad Screen (cpm): <u>79cpm</u>
Comments: <u>Silt 104R 5/3 fine roots &amp; structure, friable</u>		
- Dry		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCR-007</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1557</u>	
Property Name: <u>JPG</u>	Sample Location: <u>CSL Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>69cpm</u>	
Comments: <u>Silt loam 10YR 6/4 depletions (10YR 8/2) friability</u> <u>fine structure.</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>
[Redacted Signature]		
Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SCR-007</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1558</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>58cpm</u>	
Comments: <u>Silt loam 10YR 6/4 depletions (10YR 6/1 firm/med.</u> <u>structure)</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SGR-005</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1631</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>75</u>	
Comments: <u>Silt 10YR 4/6 friable, fine roots &amp; structure</u>		
<u>- Dry</u> <u>- open meadows, scrub brush (sweet gum &amp; Black locust)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SGR-005</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1632</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>Silt 10YR 4/6 friable, fine roots &amp; structure</u>		
<u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-22-08</u>

Task Team Members: <u>CSL / AMT / DDL</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SGR-005</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1640</u> <sup>CSL</sup> <u>35</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0</u> <sup>15L</sup> <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>11mR</u>	Rad Screen (cpm): <u>63cpm</u>	
Comments: <u>Silt 10YR 4/6 friable, fine roots &amp; structure.</u>		

- Dry

Recorded by: CSL      QA by:      Date: 10-22-08

Task Team Members: <u>CSL / AMT / DDL</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SGR-005</u>	
Collection Date: <u>10-22-08</u>	Collection Time: <u>1638</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>11mR</u>	Rad Screen (cpm): <u>80cpm</u>	
Comments: <u>Silt 10YR 5/6 iron oxidation, some depletions</u> <u>10YR 8/1 - CSL (10YR 7/2)</u>		
- Dry		
Recorded by: <u>CSL</u> QA by:      Date: <u>10-22-08</u>		



COC No.:	
Task Team Members: <u>CSL/AMT/DDL</u>	
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SGR-003</u>
Collection Date: <u>10-22-08</u>	Collection Time: <u>1720</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units): <u>4315193.25</u>	Easting (units): <u>638253.20</u>
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>51cpm 11uR</u>	Rad Screen (cpm): <u>64</u>
Comments: <u>Silt 10gr 3/16 fine roots &amp; structure angular gravel 15%</u> <u>friable</u>	
<u>- had to move location it was on exposed bed rock</u> <u>moved up flat 50' ft to the south</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-22-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/DDL</u>	
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SGR-003</u>
Collection Date: <u>10-22-08</u>	Collection Time: <u>1722</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back</u> <u>Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>
Soil Type: <u>S</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>51cpm 11uR</u>	Rad Screen (cpm): <u>62</u>
Comments: <u>Silt 10gr 4/4 fine roots &amp; structure, 25% angular</u> <u>gravel, friable</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-22-08</u>

COC No.:	
Task Team Members: <u>CSL / AMT / DDL</u>	
Sample ID: <u>SAL - 03</u>	Station ID: <u>JP - SGR - 003</u>
Collection Date: <u>10-22-08</u>	Collection Time: <u>1724</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BCE</u>	Sample Depth: <u>1-2</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>51cpm 11mR</u>	Rad Screen (cpm): <u>64cpm</u>
Comments: <u>Silt 10gr 4/6 friable, 25% sub-angular gravel</u> <u>- Dry</u> <u>- Refusal @ 2.0 ft bed rock</u>	
Recorded by: <u>CSL</u>	QA by: <u>[Signature]</u> Date: <u>10-22-08</u>

COC No.:	
Task Team Members: <u>CSL / AMT / DDL</u>	
Sample ID: <u>SAL - 04</u>	Station ID:
Collection Date: <u>10-22-08</u>	Collection Time:
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BCE</u>	Sample Depth: <u>2-4</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>57cpm 11mR</u>	Rad Screen (cpm):
Comments:	
Recorded by: <u>CSL</u> QA by: <u>[Signature]</u> Date: <u>10-22-08</u>	

COC No.:	
Task Team Members: <u>CSL/AMT/DDL</u>	
Sample ID: <u>S41C-01</u>	Station ID: <u>JP-SGR-002</u>
Collection Date: <u>10-23-08</u>	Collection Time: <u>0839</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>
Rad Screen Bkg. (cpm): <u>46cpm</u> <u>9+R</u>	Rad Screen (cpm): <u>54cpm</u>
Comments: <u>Silt loam (0:10YR 3/3) organic, fine roots (3.0')</u> <u>(3.0') Silt 10YR 4/4 fine roots, structure fine</u> <u>10% large gravel sub-angular</u> <u>- Dry</u> <u>- Mature hardwoods (Black Cherry, Yellow Poplar, White Ash)</u>	
Recorded by: <u>CSL</u>	QA by: <u>                    </u> Date: <u>10-23-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/DDL</u>	
Sample ID: <u>S41C-02</u>	Station ID: <u>JP-SGR-002</u>
Collection Date: <u>10-23-08</u>	Collection Time: <u>0842</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>
Rad Screen Bkg. (cpm): <u>46cpm</u> <u>9+R</u>	Rad Screen (cpm): <u>61cpm</u>
Comments: <u>Silt 10YR 4/6 10% sub-rounded gravel, structure fine</u> <u>Refusal @ 1.25' offsetting one foot East</u>	
Recorded by: <u>CSL</u>	QA by: <u>                    </u> Date: <u>10-23-08</u>

COC No.:	
Task Team Members: <u>CSL/ANT/DDL</u>	
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SGR-002</u>
Collection Date: <u>10-23-08</u>	Collection Time: <u>0858</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0-2</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>
Soil Type:	Rad Screen Instrument: <u>44-9-micro-R-</u>
Rad Screen Bkg. (cpm): <u>46cpm 9-R</u>	Rad Screen (cpm): <u>66cpm</u>
Comments: <u>Soil 109R 4/6 50% sub-rounded gravel, some fine coars &amp; fine structure.</u>	
<u>Refusal @ 1.5' ft</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-23-08</u>
COC No.:	
Task Team Members: <u>CSL/DDL/ANT</u>	
Sample ID: <u>SAL-04</u>	Station ID:
Collection Date: <u>10-23-08</u>	Collection Time:
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0-4</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>
Soil Type:	Rad Screen Instrument: <u>44-9-micro-R-</u>
Rad Screen Bkg. (cpm):	Rad Screen (cpm):
Comments:	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-23-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-SGR-001</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>0947</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-micro-R-</u>	
Rad Screen Bkg. (cpm): <u>50cpm</u>	<u>10uR</u>	Rad Screen (cpm): <u>75cpm</u>
Comments: <u>Silt loam 10yR 5/6 fine roots, fine structure</u> <u>0.0-3.0 inches 0. 10yR 4/1 fine roots, fine structure, silt loam (organics)</u> <u>- dry</u> <u>- mature hardwoods (Black Walnut, Black cherry &amp; Paw, Paw)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-23-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-SGR-001</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>0949</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-micro-R-</u>	
Rad Screen Bkg. (cpm): <u>50cpm</u>	<u>10</u>	Rad Screen (cpm): <u>70cpm</u>
Comments: <u>Silt loam 10yR 5/4 coarse roots, fine structure, 5% sub-angular</u> <u>gravel</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-23-08</u>

Task Team Members: <u>CSL / AMT / DDL</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SGR-001</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1053</u> <sup>CSL</sup> <u>0953</u>	
Property Name: <u>JPL</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-G-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>50cpm</u>	<u>10uR</u>	Rad Screen (cpm): <u>77cpm</u>
Comments: <u>Silt loam 10YR 5/4 some mag. accumulations, fine roots</u> <u>2% sub-angular gravel</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-23-08

Task Team Members: <u>CSL / AMT / DDL</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SGR-001</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1056</u>	
Property Name: <u>JPL</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-G-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>50cpm</u>	<u>10uR</u>	Rad Screen (cpm): <u>70cpm</u>
Comments: <u>Silt loam 10YR 5/4 10% sub-angular gravel</u> <u>iron oxidation, fine structure.</u> <u>Refusal @ 3.0 ft offset and hit <sup>CSL</sup> Refusal again.</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10-23-08</u>

## SAMPLE LOGBOOK

WORK SITE:

Jefferson Proving Grounds  
Soil Sampling Event -  
Book # 3

START DATE:

10/14/08

END DATE:

10/20/08



*From Science to Solutions™*

8421 St. John Industrial Drive  
Suite 200  
St. Louis, MO 63114

[illegible]

F-516



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Task Team Members: <u>CSL/AMT/DDL/DMN</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCS-006</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>0917</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out of DU</u>	
Northing (units): <u>4308870.92</u>	Easting (units): <u>637982.69</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>52</u>	<u>10-14-08</u>	Rad Screen (cpm): <u>76</u>
Comments: <u>Silt loam 10YR 6/2 iron oxidations, fine structure, fine roots</u> <u>- Mature hardwoods (white ash; Black &amp; Sweet gum)</u> <u>- off set position</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/AMT/DDL/DMN</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCS-006</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>0919</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out of DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>52</u>	<u>10-14-08</u>	Rad Screen (cpm): <u>65</u>
Comments: <u>Silt loam 10YR 6/2 iron oxidation, fine roots, some iron accumulations</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/ANT/DOL/DMM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC5-006</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>0921</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-B<sup>0</sup></u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>52cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>79cpm</u>	
Comments: <u>Silt loam 10YR 6/3 iron oxidation, fine structure</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: <u>CSL/ANT/DOL/DMM</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC5-006</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>0923</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CL</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-</u>	
Rad Screen Bkg. (cpm): <u>52cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>Silt loam 10YR 7/3 iron oxidation, fine structure.</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: CSL/AMT/6P<sup>CL</sup>DOL/DMM COC No.: \_\_\_\_\_

Sample ID: SALC-01 Station ID: JP-SCS-007

Collection Date: 10-14-08 Collection Time: 1000

Property Name: JPG Sample Location: \_\_\_\_\_

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 0.0 - 0.5

Soil Type: Co Rad Screen Instrument: 44-9-B  
Micro-R-A

Rad Screen Bkg. (cpm): 50cpm 10mR Rad Screen (cpm): 60cpm

Comments: O<sub>i</sub> horizon 7 0.0 - 0.3'  
Silt loam 10YR 4/2 fine roots, 0.3 - 0.5' 10YR 6/3  
iron oxidation fine roots  
- open meadow, small saplings

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: CSL/AMT/DOL/DMM COC No.: \_\_\_\_\_

Sample ID: SALC-02 Station ID: JP-SCS-007

Collection Date: 10-14-08 Collection Time: 1007

Property Name: JPG Sample Location: \_\_\_\_\_

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5 - 1 Sample Type: SOIL

Sample Collection Method: Bore Sample Depth: 0.5 - 1

Soil Type: Co Rad Screen Instrument: 44-9-B  
Micro-R-A

Rad Screen Bkg. (cpm): 50cpm 10mR Rad Screen (cpm): 54cpm

Comments: Silt loam 10YR 6/3 iron oxidation

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: <u>CSC/ANT/DDC/DMM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC5-007</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1009</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CO</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>50cpm 10uR</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>Silt loam 10YR 6/2 some mottling (10YR 6/3)</u> <u>- Damp</u>		

Recorded by: CSC QA by: Date: 10-14-08

Task Team Members: <u>CSC/ANT/DDC/DMM</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC5-007</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1012</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CO</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-</u>	
Rad Screen Bkg. (cpm): <u>50 10uR</u>	Rad Screen (cpm): <u>67cpm</u>	
Comments: <u>Silty loam 10YR 6/2 mottling 10YR 5/6 blocky structure</u> <u>- Damp</u>		
Recorded by: <u>CSC</u> QA by: Date: <u>10-14-08</u>		

COC No.:

Task Team Members: CSC/AMT/DDC/DMMSample ID: SAIC-01Station ID: JP-SLS-005Collection Date: 10-14-08Collection Time: 1039Property Name: JPG

Sample Location:

Northing (units):

Easting (units):

Cover Depth (ft): 0.0 - 0.5Sample Type: SOILSample Collection Method: BoreSample Depth: 0.0 - 0.5Soil Type: CoRad Screen Instrument: 44-9-B  
MICRO-R-A

Rad Screen Bkg. (cpm):

5511 ~ R

Rad Screen (cpm):

72Comments: Silt loam 10YR 5/2 iron oxidation, fine roots- Damp- open meadowRecorded by: CSC

QA by:

Date: 10-14-08

COC No.:

Task Team Members: CSC/AMT/DDC/DMMSample ID: SAIC-02Station ID: JP-SLS-005Collection Date: 10-14-08Collection Time: 1040Property Name: JPG

Sample Location:

Northing (units):

Easting (units):

Cover Depth (ft): 0.5 - 1Sample Type: SOILSample Collection Method: BoreSample Depth: 0.5 - 1Soil Type: CoRad Screen Instrument: 44-9-B  
MICRO-R-A

Rad Screen Bkg. (cpm):

55 cpm11 ~ R

Rad Screen (cpm):

65Comments: Silt loam 10YR 6/4 fine roots, iron oxidation- DampRecorded by: CSC

QA by:

Date: 10-14-08



Task Team Members: CSC/DDV/DMM/AMT		COC No.:
Sample ID: SAIC-03	Station ID: JP-SCS-005	
Collection Date: 10-14-08	Collection Time: 1042	
Property Name: JPC	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): 1-2	Sample Type: SOIL	
Sample Collection Method: BORE	Sample Depth: 1-2	
Soil Type: CO	Rad Screen Instrument: 44-9-R MICRO-R-	
Rad Screen Bkg. (cpm): 55 cpm 11uR	Rad Screen (cpm): 57 cpm	
Comments: Silty loam 10yR 6/2 iron oxidation some mottling 10yR 5/8, fine roots - Damp		
Recorded by: CSC	QA by:	Date: 10-14-08

Task Team Members: CSC/AMT/DDV/DMM		COC No.:
Sample ID: SAIC-04	Station ID: JP-SCS-005	
Collection Date: 10-14-08	Collection Time: 1044	
Property Name: JPC	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): 2-4	Sample Type: SOIL	
Sample Collection Method: BORE	Sample Depth: 2-4	
Soil Type: CO	Rad Screen Instrument: 44-9-R MICRO-R-	
Rad Screen Bkg. (cpm): 55 cpm 11uR	Rad Screen (cpm): 74	
Comments: Silty clay 10yR 6/2 iron oxidation, some fine roots, blocky structure. @ 3.75' ft mag. accumulations mottling (10yR 4/6) - Damp		
Recorded by: CSC	QA by:	Date: 10-14-08

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-SC1-004</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1238</u>	
Property Name: <u>JP6</u>	Sample Location: <u>out side DU</u>	
Northing (units): <u>4308436.37</u>	Easting (units): <u>638296.58</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm</u>	<u>11uR</u>	Rad Screen (cpm): <u>61cpm</u>
Comments: <u>Silt/loam 10YR 6/4 oxidation of iron fine roots</u> <u>- Dry</u> <u>- Mature hardwoods (white Oak, &amp; Pin Oak)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-SC1-004</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1239</u>	
Property Name: <u>JP6</u>	Sample Location: <u>out side DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm</u>	<u>11uR</u>	Rad Screen (cpm): <u>77cpm</u>
Comments: <u>Silt/loam 10YR 6/3 iron oxidation, fine roots</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>S41C-03</u>	Station ID: <u>JP-SCI-004</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1241</u>	
Property Name: <u>JPG</u>	Sample Location: <u>out side DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>CSL 1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm 11uR</u>	Rad Screen (cpm): <u>56</u>	
Comments: <u>Silt loam 10YR 6/3 iron oxidation fine roots,</u> <u>some organic CSL</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>S41C-04</u>	Station ID: <u>JP-SCI-004</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1243</u>	
Property Name: <u>JPG</u>	Sample Location: <u>outside DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm 11uR</u>	Rad Screen (cpm): <u>72cpm</u>	
Comments: <u>Silt loam 10YR 6/2 mottling (10YR 5/6) mag. accumulation</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SLR-010</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1315</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>44 43cpm 11uR</u>	Rad Screen (cpm): <u>69cpm</u>	
Comments: <u>Silt loam 10YR 5/3 fine roots, iron oxidation</u> <u>- Damp</u> <u>- thicket of red maple &amp; sweet gum</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SLR-010</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1317</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>43cpm 11uR</u>	Rad Screen (cpm): <u>66cpm</u>	
Comments: <u>Silt loam 10YR 5/3 mottling (10YR 4/6) fine roots</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/Ant/DOL/DMM</u>		COC No.:
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-SC2-010</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1319</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>CLM</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>43</u> <u>11uR</u>	Rad Screen (cpm): <u>68cpm</u>	
Comments: <u>Silt loam 10YR 6/3 nothing (10YR 5/6) fine roots</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>
Task Team Members: <u>CSL/Ant/DOL/DMM</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SC2-010</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1319</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>CLM</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>43cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>73</u>	
Comments: <u>Silt loam 10YR 6/3 nothing (10YR 4/6) any accumulations</u>		

<u>dry SL - damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date:

COC No.:	
Task Team Members: <u>CSL/ANT/DOL/DMM</u>	
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SCS-004</u>
Collection Date: <u>10-14-08</u>	Collection Time: <u>1348</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>
Soil Type: <u>Av B2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>
Rad Screen Bkg. (cpm): <u>49cpm 10mR</u>	Rad Screen (cpm): <u>62</u>
Comments: <u>Silt loam 10YR 5/3 coarse &amp; fine roots</u> <u>- mature hard woods (Hickory &amp; black gum &amp; white Ash)</u> <u>- Dry</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-14-08</u>

COC No.:	
Task Team Members: <u>CSL/ANT/DOL/DMM</u>	
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-SCS-004</u>
Collection Date: <u>10-14-08</u>	Collection Time: <u>1350</u>
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5 - 1</u>
Soil Type: <u>Av B2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>
Rad Screen Bkg. (cpm): <u>49cpm 10mR</u>	Rad Screen (cpm): <u>53cpm</u>
Comments: <u>Silt loam 10YR 6/4 some iron oxidation, fine</u> <u>structure, fine roots</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-14-08</u>

Task Team Members: <u>CSL/ANT/DOL/DMW</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCS-004</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1352</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0<sup>CSL</sup> 1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0<sup>CSL</sup> 1-2</u>	
Soil Type: <u>Silt<sup>CSL</sup> AVB2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10uR</u>	Rad Screen (cpm): <u>55cpm</u>	
Comments: <u>Silt loam 10YR 6/4 fine structure, fine roots</u>		

- Dry

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: <u>CSL/ANT/DOL/DMW</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SCS-004</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1354</u>	
Property Name: <u>JPG</u>	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>AVB2</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10uR</u>	Rad Screen (cpm): <u>57cpm</u>	
Comments: <u>Silt loam 10YR 6/2 iron oxidation, Depletions</u> <u>@ 3.25' 10YR 8/1</u>		

- Dry

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: <u>CSL/ANT/DDL/ANN</u>		COC No.:
Sample ID: <u>SAIL - 01</u>	Station ID: <u>JP - SC4 - 007</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1600</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>59cpm</u>	Rad Screen (cpm): <u>12-R</u>	<u>69cpm</u>
Comments: <u>Silt loam 10yr 6/5/3 fine &amp; coarse roots, iron oxidation</u> <u>after 3 inches</u> <u>- lots of Perceptrators in the area 2 located 15ft away.</u> <u>- Mature hardwoods</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/ANT/DDL/ANN</u>		COC No.:
Sample ID: <u>SAIL - 02</u>	Station ID: <u>JP-SC4 - 007</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1601</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>59cpm</u>	Rad Screen (cpm): <u>12-R</u>	<u>58</u>
Comments: <u>Silt loam 10yr 6/4 iron oxidation coarse roots.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>



Task Team Members: <u>CSC/ANT/DDC/DMM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC4-007</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1603</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-R</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>59cpm 12+R</u>	Rad Screen (cpm): <u>66cpm</u>	
Comments: <u>Silt loam 10YR 6/4 iron oxidation, fine structure damp.</u>		

Recorded by: CSC QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: <u>CSC/ANT/DPL/DMM</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC4-007</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1608</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>59cpm 12+R</u>	Rad Screen (cpm): <u>83cpm</u>	
Comments: <u>Silt loam 10YR 6/4 iron oxidation, some depletions (10YR 7/2) mottling @ 3.75' (10YR 4/4)</u>		

Recorded by: CSC QA by: \_\_\_\_\_ Date: 10-14-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/AMT/DDM/DMM

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Sample ID: S41C-05 Station ID: JP-SC4-007

Collection Date: 10-14-08 Collection Time: 1612

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): ~~0.5~~ 4-6 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: ~~0.5~~ 4-6

Soil Type: \_\_\_\_\_ Rad Screen Instrument: 44-9-B  
MICRO-R-A

Rad Screen Bkg. (cpm): 59cpm 12vR Rad Screen (cpm): 83cpm 76cpm

Comments: Silt loam 10YR 6/4 iron oxidation; mottling common  
(10YR 4/4)  
- Damp.

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/DDC/AMT/DMM Word Line CSL

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Sample ID: S41C-02 Station ID: JP-SC4-007

Collection Date: 10-14-08 Collection Time: \_\_\_\_\_

Property Name: JPG Sample Location: in DU

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5-1 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.5-1

Soil Type: \_\_\_\_\_ Rad Screen Instrument: 44-9-B  
MICRO-R-A

Rad Screen Bkg. (cpm): 59cpm Rad Screen (cpm): \_\_\_\_\_

Comments: \_\_\_\_\_

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: <u>CSL/AMT/DOL/OMN</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-Sc</u>	
Collection Date: <u>10-14-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm):	Rad Screen (cpm):	
Comments:		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/AMT/DOL/OMN</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-Sc</u>	
Collection Date: <u>10-14-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>CSL 0-2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm):	Rad Screen (cpm):	
Comments:		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task  
Sam  
Colle  
Prop  
North  
Cove  
Sam  
Soil  
Rad  
Com  
Reco  
Task  
Sam  
Colle  
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North  
Cove  
Sam  
Soil  
Rad  
Com  
Reco

COC No.:

Task Team Members: ~~CSL/AMT/DDL/OMM~~

Sample ID: ~~SALC-05~~ Station ID: ~~JP-SCS-018~~ <sup>050</sup>

Collection Date: ~~10-14-08~~ Collection Time:

Property Name: ~~JPG~~ Sample Location: ~~in DU~~

Northing (units): ~~CSL~~ Easting (units):

Cover Depth (ft): ~~4-6~~ Sample Type: ~~Soil~~

Sample Collection Method: ~~BORE~~ Sample Depth: ~~4-6~~

Soil Type: ~~CSL~~ Rad Screen Instrument: ~~44-9-B~~  
~~micro-R-A~~

Rad Screen Bkg. (cpm): Rad Screen (cpm):

Comments:

Recorded by: ~~CSL~~ QA by: Date: ~~10-14-08~~

COC No.:

Task Team Members: ~~CSL/DDL/OMM/AMT~~

Sample ID: ~~SALC-01~~ Station ID: ~~JP-SCS-018~~

Collection Date: ~~10-14-08~~ Collection Time: ~~1634~~

Property Name: ~~JPG~~ Sample Location: ~~in DU~~

Northing (units): Easting (units):

Cover Depth (ft): ~~0.0-0.5~~ Sample Type: ~~SOIL~~

Sample Collection Method: ~~BORE~~ Sample Depth: ~~0.0-0.5~~

Soil Type: Rad Screen Instrument: ~~44-9-B~~  
~~micro-R-A~~

Rad Screen Bkg. (cpm): ~~71~~ <sup>err</sup> ~~114R~~ Rad Screen (cpm): ~~72~~ <sup>err</sup> ~~69~~

Comments: ~~Silt loam s 104R 5/4 fine roots, some iron CSL~~  
~~- Dry~~  
~~- mature hard woods~~

Recorded by: ~~CSL~~ QA by: Date: ~~10-14-08~~

Task Team Members: <u>CSL/AMT/DDL/DMM</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC5-018</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1636</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>71cpm 11uR</u>	Rad Screen (cpm): <u>72cpm</u>	
Comments: <u>Silt loam 10YR 6/1 oxidation, mag. accumulations</u> <u>- Dry</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>
Task Team Members: <u>CSL/AMT/DDL/DMM</u>		
COC No.:		
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC5-018</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1638</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>71cpm 11uR</u>	Rad Screen (cpm): <u>61</u>	
Comments: <u>Silt loam 10YR 7/1 fine structure mag. accumulation</u> <u>iron oxidation.</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-14-08</u>

Task Team Members: <u>CSL/ANT/DDL/DMN</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC5-018</u>	
Collection Date: <u>10-14-08</u>	Collection Time: <u>1640</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in DU</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>71cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>75cpm</u>	
Comments: <u>Silt loam 10YR 6/1 mag. accumulation, iron oxidation mottling after 3.5' ft 10YR 5/4</u> <u>-dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-14-08

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCR-005</u> <u>JP-KCR-010 (1023)</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1023</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm</u> <u>10uR</u>	Rad Screen (cpm): <u>68</u>	
Comments: <u>Silt loam 10YR 6/10 fine + coarse roots, structure fine friable</u> <u>-Dry</u> <u>- Sapling &amp; Pole timber (sweet gum &amp; red maple)</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10-23-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SLR-005</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1027</u> <u>JP-KCR-000 (1027)</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>55cpm</u>	
Comments: <u>Silt loam 10YR 6/6 fine roots + structure, friable</u>		
<u>- Dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-23-08

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-SLR-005</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1034</u> <u>JP-KCR-010 (1034)</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>cm</u>	Rad Screen Instrument: <u>44-9-</u> <u>MICRO-R-</u>	
Rad Screen Bkg. (cpm): <u>49cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>69</u>	
Comments: <u>Silt loam 10YR 6/6 fine roots, structure fine, friable,</u> <u>depletions 10YR 8/2 @ 1.75' ft some iron oxidation.</u>		
<u>- Dry</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-23-08</u>

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SCR-005</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1039</u> <u>JP-KCR-010 (1039)</u>	
Property Name: <u>JP6</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>cm</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>49cpm 10uR</u>	Rad Screen (cpm): <u>62cpm</u>	
Comments: <u>Silt loam 10YR 6/6 depletions (10YR 7/1) friable, some mottling @ 3.75' ft (10YR 5/6)</u> <u>- Dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-23-08

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-SCR-006</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1142</u>	
Property Name: <u>JP6</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>62cpm 12uR</u>	Rad Screen (cpm): <u>56</u>	
Comments: <u>Silt 10YR 5/4 fine roots + structure,</u> <u>- Dry</u> <u>- Sampling stand (Sweet Gum)</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-23-08</u>



Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCR-006</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1144</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>62cpm</u> <u>12uR</u>	Rad Screen (cpm): <u>60cpm</u>	
Comments: <u>Silt 104R5/6 fine roots &amp; structure, friable</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-23-08</u>

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCR-006</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1145</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>62cpm</u> <u>12uR</u>	Rad Screen (cpm): <u>60cpm</u>	
Comments: <u>Silt 104R5/6 med. to fine structure, friable</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-23-08</u>

Task Team Members: <u>CSC/AMT/DOL</u>		COC No.:
<hr/>		
Sample ID: <u>SAC-04</u>	Station ID: <u>JP-SCR-006</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1152</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>62cpm 12uR</u>		Rad Screen (cpm): <u>71cpm</u>
Comments: <u>Silt loam 10YR 5/6 mag. accumulations, &amp; iron, firm/med. structure, iron oxidation</u>		
<u>- Refusal @ 2.75' FT - offset &amp; Refusal again @ 2.75' FT</u>		
Recorded by: <u>CSC</u>	QA by:	Date: <u>10-23-08</u>

Task Team Members: <u>CSC/DOL AMT</u>		COC No.:
<hr/>		
Sample ID: <u>SAC-01</u>	Station ID: <u>JP-SAC-002</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1242</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 10uR</u>		Rad Screen (cpm): <u>64cpm</u>
Comments: <u>Silt loam 10YR 6/2 iron ox. datation, fine roots &amp; structure</u>		
<u>- Dry</u>		
<u>- Old field scattered Post timber (red maple &amp; Sweet Gum)</u>		
Recorded by: <u>CSC</u>	QA by:	Date: <u>10-23-08</u>

Task Team Members: <u>CSL/AMT/PDL</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SAC-002</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1244</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>49cpm</u>	
Comments: <u>Silt loam 10YR 6/2 iron oxidation, fine roots &amp; structure</u> <u>- Dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-23-08

Task Team Members: <u>CSL/AMT/PDL</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SAC-002</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1247</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u> <u>10-R</u>	Rad Screen (cpm): <u>51cpm</u>	
Comments: <u>Silt loam 10YR 6/2 fine roots, structure fine</u> <u>- Dry</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-23-08</u>		

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-SAC-002</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1249</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>53cpm 10~R</u>	Rad Screen (cpm): <u>55cpm</u>	
Comments: <u>Silt loam 10YR 6/2 fine structure, nothing starting @</u> <u>2.5' ft (10YR 4/6)</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-23-08

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-SER-003</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1347</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm 10~R</u>	Rad Screen (cpm): <u>64cpm</u>	
Comments: <u>Silt loam 10YR 6/3 fine roots, iron oxidation, friable</u> <u>5% small rounded gravel</u> <u>- Dry</u> <u>- Matrices hardwoods (Red maple &amp; Pin Oak)</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10-23-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/DDC</u>	
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCR-003</u>
Collection Date: <u>10-23-08</u>	Collection Time: <u>1349</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>56cpm</u>	Rad Screen (cpm): <u>10uR</u> <u>71cpm</u>
Comments: <u>Silt loam 10YR 6/4 iron oxidation, fine roots</u> <u>friable</u> <u>- Dry</u>	
Recorded by: <u>CSL</u>	QA by: <u></u> Date: <u>10-23-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/DDC</u>	
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCR-003</u>
Collection Date: <u>10-23-08</u>	Collection Time: <u>1352</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>56cpm</u>	Rad Screen (cpm): <u>10uR</u> <u>66cpm</u>
Comments: <u>Silt loam 10YR 6/3 iron oxidation, friable, fine roots</u> <u>depletions 10YR 7/2</u> <u>- Dry</u>	
Recorded by: <u>CSL</u>	QA by: <u></u> Date: <u>10-23-08</u>

Task Team Members: <u>CSL/AMT/DPL</u>		COC No.:
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SCR-003</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1401</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>56cpm 10-R</u>	Rad Screen (cpm): <u>65cpm</u>	
Comments: <u>Silt + loam 10YR 5/4 iron oxidation, depletions (10YR 7/2)</u> <u>firm/fine structure. Some mottling (10YR 4/6)</u> <u>- Refusal @ 3.5' ft offset and got refusal again.</u> <u>- Dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-23-08

Task Team Members: <u>CSL/AMT/DPL</u>		COC No.:
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SALC-001</u> <u>JP-KAC-010 (1419)</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1419</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm 11-R</u>	Rad Screen (cpm): <u>59cpm</u>	
Comments: <u>Silt + loam 10YR 5/4 iron oxidation, fine roots, + structure</u> <u>- Damp</u> <u>- Sapling stand (Red maple + sweet gum) some Pine timber</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10-23-08</u>

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>SP-SALC-001</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1423</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u>	
	<u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm</u>	Rad Screen (cpm): <u>62cpm</u>	
Comments: <u>Silt loam 10YR 7/4 depletions (10YR 8/3) iron oxidation</u> <u>fine roots &amp; structure</u> <u>- Damp</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-23-08</u>

Task Team Members: <u>CSL/DDL/ANT</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SALC-001</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1426</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u>	
	<u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>63cpm</u>	Rad Screen (cpm): <u>62cpm</u>	
Comments: <u>Silt loam 10YR 7/2 mottling 10YR 6/6 fine roots</u> <u>firm med. structure</u> <u>- Damp</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-23-08</u>

Task Team Members: CSL/AMT/DDL		COC No.:
Sample ID: SAIC-04	Station ID: JP-SAC-001	
Collection Date: 10-23-08	Collection Time: 1430 (JP-KAC-010 (1430))	
Property Name: JPG	Sample Location: Back ground	
Northing (units):	Easting (units):	
Cover Depth (ft): 2-4	Sample Type: SOIL	
Sample Collection Method: BORE	Sample Depth: 2-4	
Soil Type:	Rad Screen Instrument: 44-9-B micro-R-A	
Rad Screen Bkg. (cpm): 63cpm 11uR	Rad Screen (cpm): 62cpm	
Comments: Silt loam 10YR 7/1 mottling (10YR 5/6) depletions 10YR 8/1 firm / med. structure, clay intrusions (10YR 6/1) - Damp		

Recorded by: CSL QA by: Date: 10-23-08

Task Team Members: CSL/DDA/AMT		COC No.:
Sample ID: SAIC-01	Station ID: JP-SCR-002	
Collection Date: 10-23-08	Collection Time: 1529	
Property Name: JPB	Sample Location: Back ground	
Northing (units):	Easting (units):	
Cover Depth (ft): 0.0 - 0.5	Sample Type: SOIL	
Sample Collection Method: BORE	Sample Depth: 0.0 - 0.5	
Soil Type:	Rad Screen Instrument: 44-9-B micro-R-A	
Rad Screen Bkg. (cpm): 47cpm 11uR	Rad Screen (cpm): 59cpm	
Comments: Silt loam 10YR 6/4 fine roots & fine structure, friable - Dry - open field with some shrubs.		
Recorded by: CSL	QA by:	Date: 10-23-08



Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCR-002</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1532</u>	
Property Name: <u>SP6</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>71</u>	
Comments: <u>Silt loam 10YR 7/4 iron oxidation, depletions (10YR 7/1)</u> <u>friable, friable</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-23-08</u>
[Redacted]		
Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SCR-002</u>	
Collection Date: <u>10-23-08</u>	Collection Time: <u>1537</u>	
Property Name: <u>JP6</u>	Sample Location: <u>Back Ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>47cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>74</u>	
Comments: <u>Silt loam 10YR 7/3 fine roots iron oxidation</u> <u>some mottling (10YR 5/8)</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-23-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/DDL</u>	
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SCR-002</u>
Collection Date: <u>10-23-08</u>	Collection Time: <u>1539</u>
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>
Soil Type:	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-A</u>
Rad Screen Bkg. (cpm): <u>47cpm 11uR</u>	Rad Screen (cpm): <u>68cpm</u>
Comments: <u>Silt loam 10YR 6/2 firm/med. structure nothing 10YR 4/4</u> <u>some clay intrusions, iron &amp; mag. accumulations.</u> <u>-Damp-</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-23-08</u>
COC No.:	
Task Team Members: <u>CSL/AMT/DDL/DMM</u>	
Sample ID: <u>SALC-01</u>	Station ID: <u>JP-SCG-009</u>
Collection Date: <u>10-24-08</u>	Collection Time: <u>0940</u>
Property Name: <u>JPG</u>	Sample Location: <u>Trench sample</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-A</u>
Rad Screen Bkg. (cpm): <u>127cpm 13uR</u>	Rad Screen (cpm): <u>61cpm</u>
Comments: <u>Silt loam 10YR 5/4 fine roots, friable, fine structure</u> <u>-MS/MSD</u> <u>-Damp</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-24-08</u>

Task Team Members: <u>CSL/ANT/DDC/DMM</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC6-009</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>0942</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>127cpm 13uR</u>	Rad Screen (cpm): <u>77cpm</u>	
Comments: <u>Silt loam 10YR 6/6 friable iron oxidation</u> <u>depletions 10YR 7/2</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

Task Team Members: <u>CSL/ANT/DDC/DMM</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC6-009</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>0950</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trench Sample</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>127cpm 13uR</u>	Rad Screen (cpm): <u>79cpm</u>	
Comments: <u>Silt loam 10YR 6/6 friable, iron oxidation, depletion</u> <u>10YR 7/2 fine structure</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

COC No.:	
Task Team Members: <u>CSL/AMT/PDL/</u>	
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SC6-009</u>
Collection Date: <u>10-24-08</u>	Collection Time: <u>0953</u>
Property Name: <u>JPG</u>	Sample Location: <u>Trench Sample</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>2-4</u>
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>127cpm 13uR</u>	Rad Screen (cpm): <u>58cpm</u>
Comments: <u>Silt loam 10YR 6/6 depletions 10YR 8/2, iron oxidation</u> <u>fine structure</u> <u>-Damp</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-24-08

COC No.:	
Task Team Members: <u>CSL/AMT/PDL</u>	
Sample ID: <u>SAIC-05</u>	Station ID: <u>JP-SC6-009</u>
Collection Date: <u>10-24-08</u>	Collection Time: <u>0956</u>
Property Name: <u>JPG</u>	Sample Location: <u>Trench Sample</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>BORC</u>	Sample Depth: <u>4-6</u>
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>
Rad Screen Bkg. (cpm): <u>127cpm 13uR</u>	Rad Screen (cpm): <u>64cpm</u>
Comments: <u>Silt loam 10YR 6/6 iron &amp; mag. accumulations</u> <u>depletions 10YR 8/1 mottling common, (10YR 5/4)</u> <u>-retest @ 5.75' CSL</u>	
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-24-08</u>	

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCG-006</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>1111</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>64cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>49cpm</u>	
Comments: <u>Silt loam 10YR 7/4 iron oxidation, fine roots,</u> <u>+ structure</u>		
- Damp		
- Pale timber sweet gum + Red Maple		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

Task Team Members: <u>CSL/AMT/DDL</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SCG-006</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>1113</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Back ground</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>64cpm</u> <u>11uR</u>	Rad Screen (cpm): <u>58</u>	
Comments: <u>Silt loam 10YR 2/4 iron oxidation, fine roots</u> <u>+ structure</u>		
- Dry		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

COC No.:

Task Team Members: CSL/AMT/DDCSample ID: SAIC-03Station ID: JP-SLG-006Collection Date: 10-24-08Collection Time: 1116Property Name: JPGSample Location: Trenches

Northing (units):

Easting (units):

Cover Depth (ft): 1-2Sample Type: SoilSample Collection Method: BORESample Depth: 1-2

Soil Type:

Rad Screen Instrument: 44-9-C  
MICRO-R-A

Rad Screen Bkg. (cpm):

64cpm 11uR

Rad Screen (cpm):

67cpmComments: silt loam 10YR 6/3 iron oxidation, some depletions  
10YR 8/2- DryRecorded by: CSL

QA by:

Date: 10-24-08

COC No.:

Task Team Members: CSL/AMT/DDCSample ID: SAIC-04Station ID: JP-SLG-006Collection Date: 10-24-08Collection Time: 1118Property Name: JPGSample Location: Trenches

Northing (units):

Easting (units):

Cover Depth (ft): <sup>CSL</sup> 2-4Sample Type: SOILSample Collection Method: BORESample Depth: 2-4

Soil Type:

Rad Screen Instrument: 44-9-C  
MICRO-R-A

Rad Screen Bkg. (cpm):

64cpm 11uR

Rad Screen (cpm):

51cpmComments: silt loam 10YR 7/3 mottling, (10YR 6/8) structure  
fine- DryRecorded by: CSL

QA by:

Date: 10-24-08

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC-05</u>	Station ID: <u>JP-SCG-006</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>1120</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>64</u>	<u>11xR</u>	Rad Screen (cpm): <u>55cpm</u>
Comments: <u>Silt loam 10YR 6/4 depletions 10YR 8/1</u> <u>firm/fine</u> <u>- trap - damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCG-000</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>1244</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0-0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0-0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>85cpm</u>	<u>12xR</u>	Rad Screen (cpm): <u>52cpm</u>
Comments: <u>silt loam 10YR 5/2 fine roots structure fine</u> <u>- saturated</u> <u>- mature hardwoods (Red maple + Pin Oak)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

COC No.:	
Task Team Members: CSL/AMT/DDL	
Sample ID: SAIC-02	Station ID: JP-SLG-010
Collection Date: 10-24-08	Collection Time: 1247 1246
Property Name: JFG	Sample Location: Trenches
Northing (units):	Easting (units):
Cover Depth (ft): 0.5-1	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 0.5-1
Soil Type:	Rad Screen Instrument: 44-9-C MICRO-R-A
Rad Screen Bkg. (cpm): 85cpm 12uR	Rad Screen (cpm): 61cpm
Comments: Silt loam 10YR 6/7 iron oxidation fine roots & structure. - DM	

Recorded by: CSL QA by: Date: 10-24-08

COC No.:	
Task Team Members: CSL/AMT/DDL	
Sample ID: SAIC-03	Station ID: JP-SLG-010
Collection Date: 10-24-08	Collection Time: 1247
Property Name: JFG	Sample Location: Trenches
Northing (units):	Easting (units):
Cover Depth (ft): 1-2	Sample Type: SOIL
Sample Collection Method: BORE	Sample Depth: 1-2
Soil Type:	Rad Screen Instrument: 44-9-C MICRO-R-A
Rad Screen Bkg. (cpm): 85cpm 12uR	Rad Screen (cpm): 53cpm
Comments: Silt loam 10YR 6/6 iron oxidation, some fine roots structure, fine. - DM - Refusal @ 1.5' ft offsetting 5' ft east	
Recorded by: CSL	QA by: Date: 10-24-08



Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SA1L-04</u>	Station ID: <u>JP-SC6-010</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>1253</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>85cpm 12uR</u>	Rad Screen (cpm): <u>69cpm</u>	
Comments: <u>Silt loam 10YR 7/4 mottling (10YR 5/8)</u> <u>mag. accumulations</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

Task Team Members: <u>CSL/ANT/DDL</u>		COC No.:
Sample ID: <u>SA1L-05</u>	Station ID: <u>JP-SC6-010</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>1256</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-A</u>	
Rad Screen Bkg. (cpm): <u>85cpm 12uR</u>	Rad Screen (cpm): <u>79cpm</u>	
Comments: <u>Silt loam 10YR 6/2 clay intrusions, mottling</u> <u>10YR 4/6 medium structure slightly sticky</u> <u>mag. accumulations</u> <u>- rock @ 6.0' fr</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

COC No.:

Task Team Members: CSL/AMT/DDLSample ID: SAIC-01Station ID: JP-SCG-012Collection Date: 10-24-08Collection Time: 1300Property Name: JPGSample Location: Trenches

Northing (units):

Easting (units):

Cover Depth (ft): 0.0 - 0.5Sample Type: SOILSample Collection Method: BORESample Depth: 0.0 - 0.5

Soil Type:

Rad Screen Instrument: 44-9-CMICRO-R-A

Rad Screen Bkg. (cpm):

12uR

Rad Screen (cpm):

51cpm

Comments: Silt loam 0.0 - 0.3 10YR 3/4 fine roots a structure  
0.3' ft - 0.5' 10YR 5/4 " " " "  
- Moist

Recorded by: CSL

QA by:

Date: 10-24-08

COC No.:

Task Team Members: CSL/AMT/DDLSample ID: SAIC-02Station ID: JP-SCG-012Collection Date: 10-24-08Collection Time: 1303Property Name: JPGSample Location: Trenches

Northing (units):

Easting (units):

Cover Depth (ft): 0.5-1Sample Type: SOILSample Collection Method: BORESample Depth: 0.5-1

Soil Type:

Rad Screen Instrument: 44-9-CMICRO-R-A

Rad Screen Bkg. (cpm):

12uR

Rad Screen (cpm):

68cpm

Comments: silt 10YR 5/8 fine roots 2% sub-angular gravel  
structure fine.

Recorded by: CSL

QA by:

Date: 10-24-08

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC - 03</u>	Station ID: <u>JP-SCG-012</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>1305</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0<sup>CSL</sup> 1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>93cpm 12uR</u>	Rad Screen (cpm): <u>88cpm</u>	
Comments: <u>Silt 10YR 5/0 fine structure, 5% gravel</u> <u>sub-angular.</u> <u>-Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC - 04</u>	Station ID: <u>JP-SCG-012</u>	
Collection Date: <u>10-24-08</u>	Collection Time: <u>1311</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-A</u>	
Rad Screen Bkg. (cpm): <u>93cpm 12uR</u>	Rad Screen (cpm): <u>70cpm</u>	
Comments: <u>Silt 10YR 5/8 20% sub-angular gravel</u> <u>fine structure</u> <u>- refusal @ 3.5' offsetting hole 5' ft east</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-24-08</u>

Task Team Members: <u>CSL/AMT/DDC</u>		COC No.:
Sample ID: <u>SAIC-08-1</u>	Station ID: <u>JP-SCG-</u>	
Collection Date: <u>10-25-08</u>	Collection Time:	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6 0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-A</u>	
Rad Screen Bkg. (cpm):	Rad Screen (cpm):	
Comments:		
Recorded by: <u>CSL</u> QA by: Date: <u>10-25-08</u>		

Task Team Members: <u>CSL/EBS/DMM/RR</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-SCG-001</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>0900</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units): <u>4303273.75</u>	Easting (units): <u>637660.06</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50cpm</u>	Rad Screen (cpm): <u>84cpm</u>	
Comments: <u>Silt loam 10YR5/6 fine roots &amp; structure, organics.</u> <u>- damp</u> <u>- open grass under one of the targets</u>		
Recorded by: <u>CSL</u> QA by: Date: <u>10-25-08</u>		

Task Team Members: <u>CSL/RR/EBS/DMM</u>		COC No.:
Sample ID: <u>SA11-02</u>	Station ID: <u>JP-SCG-001</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>0906</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50cpm</u>	<u>9uR</u>	Rad Screen (cpm): <u>65cpm</u>
Comments: <u>Silt loam 10yr 5/6 iron oxidation, some depletions</u> <u>10yr 7/2 Pine roots</u> <u>- Damp</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-25-08

Task Team Members: <u>CSL/RR/EBS/DMM</u>		COC No.:
Sample ID: <u>SA11-03</u>	Station ID: <u>JP-SCG-001</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>0911</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-9-</u> <u>micro-R-</u>	
Rad Screen Bkg. (cpm): <u>50cpm</u>	<u>9uR</u>	Rad Screen (cpm): <u>58cpm</u>
Comments: <u>Silt loam 10yr 6/6 some mottling 10yr 5/6</u> <u>- Damp</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-25-08

Task Team Members: <u>CSL/RR/EBS/dmm</u>		COC No.:
Sample ID: <u>SAIL-04</u>	Station ID: <u>JP-SCG-001</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>0910</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-Y-C</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50</u>	<u>9uR</u>	Rad Screen (cpm): <u>55cpm</u>
Comments: <u>Silt loam 10YR 6/3 nothing 10YR 5/6 depletions</u> <u>10YR 7/1</u> <u>- Damp</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-25-08

Task Team Members: <u>CSL/RR/EBS/dmm</u>		COC No.:
Sample ID: <u>SAIL-05</u>	Station ID: <u>JP-SCG-001</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>0920</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>AVA</u>	Rad Screen Instrument: <u>44-Y-C</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>50cpm</u>	<u>9uR</u>	Rad Screen (cpm): <u>52cpm</u>
Comments: <u>Silt loam 10YR 6/6 depletion 10YR 8/2 nothing 10YR 5/8</u> <u>fine structure 10YR 5/6 S.O. mag. accumulations</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>		QA by: _____ Date: <u>10-25-08</u>

Task Team Members: <u>CSL/EBS/RR/DMM</u>		COC No.:
Sample ID: <u>SAIL-01</u>	Station ID: <u>JP-SC6-004</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1014</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units): <u>4303586.26</u>	Easting (units): <u>637659.54</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>SC</u>	Rad Screen Instrument: <u>44-4-C</u> <u>MICRO-R-N</u>	
Rad Screen Bkg. (cpm): <u>70cpm</u>	<u>12-R</u>	Rad Screen (cpm): <u>75cpm</u>
Comments: <u>Silt loam 10YR 6/2 some fine roots, mottles 10YR 4/6</u> <u>structure fine.</u> <u>- open grasses</u> <u>- Damp</u> <u>- moved K. in to trench was located 15m from trench.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

Task Team Members: <u>CSL/EBS/RR/DMM</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-SC6-004</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1018</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-4-C</u> <u>MICRO-R-N</u>	
Rad Screen Bkg. (cpm): <u>70cpm</u>	<u>12-R</u>	Rad Screen (cpm): <u>74cpm</u>
Comments: <u>Silt loam 10YR 7/1 mottling 10YR 4/6 fine structure</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

Task Team Members: CSL/RR/EBS/DMM COC No.: \_\_\_\_\_

Sample ID: SALC-03 Station ID: JP-SC6-004

Collection Date: 10-25-08 Collection Time: 1021

Property Name: JPG Sample Location: Trench

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 1-2 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 1-2

Soil Type: Lo Rad Screen Instrument: 44-9-C  
micro R-N

Rad Screen Bkg. (cpm): 70cpm 12uR Rad Screen (cpm): 51cpm

Comments: Silt loam 10YR 5/1 mottling 10YR 6/8 some  
depletions 10YR 8/3 structure fine  
saturated

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-25-08

Task Team Members: CSL/EBS/RR/DMM COC No.: \_\_\_\_\_

Sample ID: SALC-04 Station ID: JP-SC6-004

Collection Date: 10-25-08 Collection Time: 1024

Property Name: JPG Sample Location: Trench

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 2-4 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 2-4

Soil Type: Lo Rad Screen Instrument: 44-9-C  
micro R-N

Rad Screen Bkg. (cpm): 70cpm 12uR Rad Screen (cpm): 93cpm

Comments: Silt loam 10YR 5/1 mottling 10YR 4/0 medium/fine  
- star <sup>CSL</sup> - saturated

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-25-08



Task Team Members: <u>CSL/RR/EBS/DMN</u>		COC No.:
Sample ID: <u>SAL-05</u>	Station ID: <u>JP-SC6-001</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1028</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>70cpm</u> <u>12R</u>	Rad Screen (cpm): <u>44cpm</u>	
Comments: <u>Silt loam 10YR 9/3 med. fine (2.5.5' FT</u> <u>intrusions at 10.6' (10YR 8/1)</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

Task Team Members: <u>CSL/RR/EBS/DMN</u>		COC No.:
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-SC6-007</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1232</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units): <u>4304084.85</u>	Easting (units): <u>637656.02</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>96cpm</u> <u>20R</u>	Rad Screen (cpm): <u>154cpm</u>	
Comments: <u>Silt loam 10YR 5/2 organic, fine roots &amp; structure</u> <u>- Damp</u> <u>- EBS noticed some corrosion (in first interval)</u> <u>* location on Western side of trench (filled with water) due</u> <u>due to the trench being filled with water.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

COC No.:	
Task Team Members: <u>CSL/DMM/RR/EBS</u>	
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-SC10-007</u>
Collection Date: <u>10-25-08</u>	Collection Time: <u>1242</u>
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORS</u>	Sample Depth: <u>0.5-1</u>
Soil Type: <u>Ce</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-N</u>
Rad Screen Bkg. (cpm): <u>96cpm</u> <u>20uR</u>	Rad Screen (cpm): <u>93cpm</u>
Comments: <u>Silt loam 10YR 5/2 fine roots &amp; structure iron oxidation</u> <u>-- Damp</u>	

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-25-08

COC No.:	
Task Team Members: <u>CSL/DMM/RR/EBS</u>	
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-SC10-007</u>
Collection Date: <u>10-25-08</u>	Collection Time: <u>1244</u>
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>BORS</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>Ce</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-N</u>
Rad Screen Bkg. (cpm): <u>96cpm</u> <u>20uR</u>	Rad Screen (cpm): <u>79cpm</u>
Comments: <u>Silt loam 10YR 6/2 some depletions (10YR 8/1)</u> <u>fine roots iron oxidation, fine roots</u>	
Recorded by: <u>CSL</u> QA by: _____ Date: <u>10-25-08</u>	

Task Team Members: <u>CSL/EBS/DMM/RR</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-SLG-007</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1250</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>2-4</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>96cpm</u>	Rad Screen (cpm): <u>74cpm</u>	
Comments: <u>Silt/lean 10YR 6/1 @ 2.5' ft nothing 10YR 4/6</u> <u>some roots</u> <u>@ 3.5' ft silty clay 10YR 6/1 nothing common 10YR 4/4</u> <u>- saturated</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

Task Team Members: <u>CSL/EBS/DMM/RR</u>		COC No.:
Sample ID: <u>SAIC-05</u>	Station ID: <u>JP-SLG-007</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1258</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>4-6</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>4-6</u>	
Soil Type: <u>Co</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>96cpm</u>	Rad Screen (cpm): <u>74cpm</u>	
Comments: <u>Silty lean 10YR 6/1 nothing, common 10YR 4/4</u> <u>some coarse sand mixed in with the nothing</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

Task Team Members: <u>CSL/DMM/RR/ERS</u>		COC No.:
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-SCG-011</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1442</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-N</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u>	<u>10xR</u>	Rad Screen (cpm): <u>71cpm</u>
Comments: <u>Silt loam 10yR 4/4 fine roots structure fine, organics</u> <u>- sapling stand (sweet gum &amp; Red Maple)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

Task Team Members: <u>CSL/RR/DMM/ERS</u>		COC No.:
Sample ID: <u>SAL-02</u>	Station ID: <u>JP-SCG-011</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1447</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trench</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>MICRO-R-N</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u>	<u>10xR</u>	Rad Screen (cpm): <u>69cpm</u>
Comments: <u>Silt loam 10yR 4/6 fine roots organics, favorable</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

Task Team Members: <u>CSL/RR/ERS/BMM</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-SCG-011</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1453</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trenches</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>SS</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micr-R-N</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u>	<u>10-R</u>	Rad Screen (cpm): <u>51cpm</u>
Comments: <u>silt loam 10YR 5/6 friable, fine, some oxidation, depletions</u> <u>10YR 7/1, fine roots</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>
Task Team Members: <u>CSL/RR/ERS/DMM</u>		
COC No.:		
Sample ID: <u>SALC-04</u>	Station ID: <u>JP-SCG-011</u>	
Collection Date: <u>10-25-08</u>	Collection Time: <u>1458</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Trench</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2-4</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2-4</u>	
Soil Type:	Rad Screen Instrument: <u>44-9-C</u> <u>micr-R-N</u>	
Rad Screen Bkg. (cpm): <u>53cpm</u>	<u>10-R</u>	Rad Screen (cpm): <u>53cpm</u>
Comments: <u>silt loam 10YR 6/2 mottling 10YR 6/6 friable, fine,</u> <u>fine roots.</u> <u>- Dry</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-25-08</u>

COC No.: \_\_\_\_\_

Task Team Members: CSL/RR/DMM/EBS

Sample ID: JP-SCG-01 Station ID: JP-SCG-011

Collection Date: 10-25-08 Collection Time: 1500

Property Name: JP6 Sample Location: Trench

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 4-6 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 4-6

Soil Type: \_\_\_\_\_ Rad Screen Instrument: 44-9-C  
micro-R-N

Rad Screen Bkg. (cpm): 53cpm Rad Screen (cpm): 54

Comments: Silt loam 10YR 6/3 depositions (10YR 8/1) Fine, Friable,  
@ 4.75 mottling 10YR 4/6  
- Dry

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-25-08

COC No.: \_\_\_\_\_

Task Team Members: CSL/RR/GP/DMM/EBS/SF

Sample ID: SAIC-01 Station ID: JP-PNCR-001  
JP-KCR-001 (1230)

Collection Date: 10-26-08 Collection Time: 1212

Property Name: JP6 Sample Location: Penetrators collected in the  
center middle of the Penetrator +

Northing (units): 4305351.53 Easting (units): 638136.06 along the length  
3 holes  
dug.

Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.0 - 0.5

Soil Type: Cal3 Rad Screen Instrument: 44-4-A  
micro-R-G

Rad Screen Bkg. (cpm): 55cpm Rad Screen (cpm): 88873cpm

Comments: Silt loam 10YR 4/4 fine roots & structures; corrosion Present  
- MS/MSD  
- Grass some small trees  
- Dry  
- 3 hole are dug along the Penetrator center hole will go to 4.0'ft

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-28-08

COC No.:	
Task Team Members: <u>CSL/EBS/RR/SF/GP/DMM</u>	
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-PNCR-001</u>
Collection Date: <u>10-26-08</u>	Collection Time: <u>JP-KCR-001 (1247)</u>
Property Name: <u>JPG</u>	Sample Location: <u>South West of intersection of Droad &amp; WANSU</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>0.5-01</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-01</u>
Soil Type: <u>CL3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-G</u>
Rad Screen Bkg. (cpm): <u>55cpm</u> <u>42+R</u>	Rad Screen (cpm): <u>3956cpm</u>
Comments: <u>Silt loam 10YR 5/8 fine roots &amp; structure</u> <u>some iron oxidation</u>	
<u>MS/MSD</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-26-08</u>

COC No.:	
Task Team Members: <u>CSL/EBS/RR/SF/GP/DMM</u>	
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-PNCR-001</u>
Collection Date: <u>10-26-08</u>	Collection Time: <u>JP-KCR-001 (1307)</u>
Property Name: <u>JPG</u>	Sample Location: <u>Penetrators</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>
Soil Type: <u>CL3</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-G</u>
Rad Screen Bkg. (cpm): <u>55cpm</u> <u>42+R</u>	Rad Screen (cpm): <u>2409cpm</u>
Comments: <u>Silt loam 10YR 5/6 fine structure &amp; roots some</u> <u>coarse roots iron oxidation</u>	
<u>MS/MSD</u>	
Recorded by: <u>CSL</u>	QA by: _____ Date: <u>10-26-08</u>

Task Team Members: CSL/AMM/EBB/SE/RR/CP COC No.:  
 Sample ID: SAIL-04 Station ID: JP-PNCR-001  
JP-KCR-001 (1327)  
 Collection Date: 10-26-08 Collection Time: 12:50 1325  
 Property Name: JPG Sample Location: Penetrators  
 Northing (units): Easting (units):  
 Cover Depth (ft): 2-4 Sample Type: SOIL  
 Sample Collection Method: Bore Sample Depth: 2-4  
 Soil Type: CLC Rad Screen Instrument: 44-9-A  
MICRO-R-G  
 Rad Screen Bkg. (cpm): 55cpm 42+R Rad Screen (cpm): 312cpm

Comments: Silt loam 10YR 5/6 Firm/medium structure 10% small  
sub-angular gravel @ 30" 3.0' ft color change 10YR 4/6  
- Dry  
MSD

Recorded by: CSL QA by: Date: 10-26-08

Task Team Members: CSL/AMM/EBB/SE/RR COC No.:  
 Sample ID: SAIL-01 Station ID: JP-PNCR-003  
JP-KCR-003 CSL  
 Collection Date: 10-26-08 Collection Time: 1612  
 Property Name: JPG Sample Location: South of Big Creek West of closed  
CSL bridge on D road.  
 Northing (units): 4305198.59 Easting (units): 63037655.07  
 Cover Depth (ft): 0.0 - 0.5 Sample Type: SOIL  
 Sample Collection Method: Bore Sample Depth: 0.0 - 0.5  
 Soil Type: Gr Rad Screen Instrument: 44-9-A  
MICRO-R-B  
 Rad Screen Bkg. (cpm): 57cpm 20+R Rad Screen (cpm): 4803

Comments: Silt loam 10YR 4/6 coarse roots & fine roots, fine structure  
- Dry

CSL  
Hard woods mature  
2 holes between first interval (0.0 - 0.5) @ either end of Penetrators  
 Recorded by: CSL QA by: Date: 10-26-08



Task Team Members: <u>CSL/RR/DMM/EB5/SF</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-PNGR-003</u>	
Collection Date: <u>10-26-08</u>	Collection Time: <u>1625</u>	
Property Name: <u>JGP</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Gr</u>	Rad Screen Instrument: <u>44-9-B/A</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>57cpm 20-R</u>	Rad Screen (cpm): <u>444cpm</u>	
Comments: <u>Silt 104R 5/6 coarse roots, fine structure</u>		
<u>- Dup</u>		
<u>- Drg</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-26-08</u>

Task Team Members: <u>CSL/RR/DMM/EB5/SF</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-PNGR-003</u>	
Collection Date: <u>10-26-08</u>	Collection Time: <u>1635</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Gr</u>	Rad Screen Instrument: <u>44-9-A</u> <u>micro-R-B</u>	
Rad Screen Bkg. (cpm): <u>57cpm 20-R</u>	Rad Screen (cpm): <u>868cpm</u>	
Comments: <u>Silt 104R 5/4 coarse roots, fine structure</u>		
<u>- Drg</u>		
<u>- Dfp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-26-08</u>

COC No.:

Task Team Members: CSL/RR/DMM/EBS/SF

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Sample ID: SATC-04 Station ID: JP-PNCR-003

Collection Date: 10-26-08 Collection Time: 1647

Property Name: JPG Sample Location: Penetrators

Northing (units): Easting (units):

Cover Depth (ft): 2-4 2.0-2.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 2-4 2.0-2.5'

Soil Type: Gr Rad Screen Instrument: 44-9-A  
micro-R-B

Rad Screen Bkg. (cpm): 57cpm 20uR Rad Screen (cpm): 426cpm

Comments: Silt 10yR5/10 fine structure 5% pea size gravel  
sub angular  
Refusal @ 2.5' ft Bed rock

Recorded by: CSL QA by: Date: 10-26-08

COC No.:

Task Team Members: CSL/RR/DMM/EBS/SF

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Sample ID: SATC-01 Station ID: JP-PNCR-002  
JP-KCR-002 (0946)

Collection Date: 10/27/08 Collection Time: 0940

Property Name: JPG Sample Location: East of old building south of  
Big Creek

Northing (units): 4305120.42 Easting (units): 437661.30

Cover Depth (ft): 0.0-0.5 Sample Type: SOIL

Sample Collection Method: BORE Sample Depth: 0.4-0.5

Soil Type: Ln Rad Screen Instrument: 44-9-C  
micro-R-C

Rad Screen Bkg. (cpm): 172cpm 22uR Rad Screen (cpm): 41385cpm  
@ one meter

Comments: Silt loam 10yR4/4 organics; fine & coarse roots, corrosion  
- hardwoods, mature.  
- Dry  
- two hole bored along the length of oxidation on the  
penetrators.

Recorded by: CSL QA by: Date: 10-27-08

Task Team Members: <u>CSL/RR/EB5/GP/SF</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-PWCR-002</u>	
Collection Date: <u>10-27-08</u>	Collection Time: <u>1001</u> (1004)	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-6</u>	
Rad Screen Bkg. (cpm): <u>172cpm 22uR</u>	Rad Screen (cpm): <u>4674cpm</u>	
Comments: <u>Silt loam 104R 5/6 coarse &amp; fine roots, structure fine.</u> <u>- Dry</u>		

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-27-08

Task Team Members: <u>CSL/RR/EB5/GP/SF</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-PWCR-002</u>	
Collection Date: <u>10-27-08</u>	Collection Time: <u>1013</u> (1015)	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-C</u> <u>micro-R-6</u>	
Rad Screen Bkg. (cpm): <u>172cpm 22uR</u>	Rad Screen (cpm): <u>192cpm</u>	
Comments: <u>Silt 104R 5/6 looks friable, fine roots, structure</u> <u>fine, some depletion @ 104R 7/3</u>		
Recorded by: <u>CSL</u> QA by: _____ Date: _____		

COC No.:	
Task Team Members: <u>CSL/RR/EB5/GP/SF/DMM</u>	
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-BNCR-002</u> <u>JP-KCR-002</u> (1027)
Collection Date: <u>10-27-08</u>	Collection Time: <u>1025</u>
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>2.0 - 2.5</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>2.0 - 2.5</u>
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-4-C</u> <u>micro-R-G</u>
Rad Screen Bkg. (cpm): <u>172cpm 22uR</u>	Rad Screen (cpm): <u>312cpm</u>
Comments: <u>Silt loam 10yr 6/4 fine structure, 5% angular Gravel</u> <u>- Return @ 2.5' ft</u> <u>- Dry</u>	

Recorded by:	QA by:	Date:
[Redacted]		
COC No.:		
Task Team Members: <u>CSL/RR/EB5/GP/SF/DMM</u>		
Sample ID: <u>SAIC-07</u>	Station ID: <u>JP-PNCR-003</u> <u>JP-KCR-003</u> (1154)	
Collection Date: <u>10-27-08</u>	Collection Time: <u>1154</u>	
Property Name: <u>JPG</u>	Sample Location: <u>SW 30 yds from last location</u>	
Northing (units): <u>4305093.81</u>	Easting (units): <u>637653.25</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>BOR</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-4-C</u> <u>micro-R-G</u>	
Rad Screen Bkg. (cpm): <u>44cpm 22uR</u>	Rad Screen (cpm): <u>29381cpm</u>	
Comments: <u>Silt loam O<sub>1</sub> horizon 0.0 - 2.0" 10yr 3/4</u> <u>Silt 10yr 5/6 fine roots + structure (2.0" - 6.0") corrosion</u> <u>- Dry</u> <u>- Hardwood material</u> <u>through out.</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-27-08</u>

Task Team Members: <u>CSL/RR/DMM/GP/EB5/SF</u>		COC No.:
Sample ID: <u>SALC - 02</u>	Station ID: <u>JP-PNCR-003</u>	
Collection Date: <u>10-27-08</u>	Collection Time: <u>1157</u> <u>JP-KCR-003 (1157)</u>	
Property Name: <u>SPG</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-g-C</u> <u>micro-R-6</u>	
Rad Screen Bkg. (cpm): <u>44cpm 22cpm</u>	Rad Screen (cpm): <u>4950cpm</u>	
Comments: <u>SILT 10YR 5/6 fine structure &amp; roots</u> <u>-Pm</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-27-08</u>
Task Team Members: <u>CSL/RR/DMM/GP/EB5/SF</u>		
COC No.:		
Sample ID: <u>SALC - 03</u>	Station ID: <u>JP-PNCR-003</u>	
Collection Date: <u>10-27-08</u>	Collection Time: <u>1208</u> <u>JP-KCR-003 (1210)</u>	
Property Name: <u>SPG</u>	Sample Location: <u>penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1 - 2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORG</u>	Sample Depth: <u>1 - 2</u>	
Soil Type: <u>C4</u>	Rad Screen Instrument: <u>44-g-C</u> <u>micro-R-6</u>	
Rad Screen Bkg. (cpm): <u>44cpm 22cpm</u>	Rad Screen (cpm): <u>756cpm</u>	
Comments: <u>SILT 10YR 5/5 some fine roots 2% gravel angular</u> <u>structure fine!</u> <u>Refusal @ 1.75 bed rock</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-27-08</u>

COC No.: \_\_\_\_\_

Task Team Members: ~~CSL/RR/GP/EBB/SF/DMN~~

Sample ID: ~~SAIL-04~~ 1 Station ID: ~~JP-PNCR-003~~ CSL  
~~SR-KCR-005~~ CSL

Collection Date: 10-27-08 Collection Time: \_\_\_\_\_

Property Name: JPB Sample Location: ~~Penetrator~~

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): ~~24~~ 0.0 - 0.5 Sample Type: ~~Soil~~ 15V

Sample Collection Method: ~~Booze~~ Sample Depth: ~~24~~ 0.0 - 0.5

Soil Type: ~~En~~ Rad Screen Instrument: ~~44-9-C~~ MICRO-R-G

Rad Screen Bkg. (cpm): ~~44~~ 44 cpm 22-2 15V Rad Screen (cpm): \_\_\_\_\_

Comments: \_\_\_\_\_

Recorded by: ~~CSL~~ QA by: \_\_\_\_\_ Date: 10-27-08

COC No.: \_\_\_\_\_

Task Team Members: ~~CSL/RR/GP/EBB/SF/DMN~~

Sample ID: ~~SAIL-05~~ 1 Station ID: ~~JP-PNCR-004~~ CSL  
~~KCR~~ CSL

Collection Date: 10-27-08 Collection Time: 1335

Property Name: JPB Sample Location: 20yds south West of  
~~previous location~~

Northing (units): 4305095 15V - 22 15V Easting (units): 637654.33

Cover Depth (ft): ~~0.0 - 1.5~~ 0.0 - 0.125 Sample Type: Soil

Sample Collection Method: ~~Pore~~ Sample Depth: 0.0 - 0.125

Soil Type: ~~En~~ Rad Screen Instrument: 44-9-L 15V  
MICRO-R-G

Rad Screen Bkg. (cpm): 68 cpm 24hr Rad Screen (cpm): 2580 cpm

Comments: 0 horizon 10yr 3/2 organics, fine roots, & structure  
- damp  
- Dug

Recorded by: ~~CSL~~ QA by: \_\_\_\_\_ Date: 10-

COC No.:

Task Team Members:

Sample ID: SAIC-02

Station ID: JP-PCR-006

JP-KCR-006 (1349)

Collection Date: 10-27-08

Collection Time: 1349

Property Name: JPC

Sample Location: Penetrator

Northing (units):

Easting (units):

Cover Depth (ft): 0.125 - 0.5 0.625

Sample Type: SOIL

Sample Collection Method:

Sample Depth: 0.125 - 0.5 0.625

Soil Type: Cn

Rad Screen Instrument: 44-9-C  
micro-R-G

Rad Screen Bkg. (cpm):

68cpm

24uR

Rad Screen (cpm):

18448cpm

Comments: Silt loam 0.1 horizon 104R 3/3 (0.125 - 0.3)  
Silt loam 104R 4/4 fine roots, + structure  
- DM

Recorded by: LSV

QA by:

Date: 10-27-08

COC No.:

Task Team Members: CSM/PMN/GP/RR/BS/SE

Sample ID: SAIC-03

Station ID: JP-PCR-006

JP-KCR-006 (1307)

Collection Date: 10-27-08

Collection Time: 1307

Property Name: JPC

Sample Location: Penetrator

Northing (units):

Easting (units):

Cover Depth (ft): 0.625 - 1.125

Sample Type: SOIL

Sample Collection Method: BCRG

Sample Depth: 0.625 - 1.125

Soil Type: Cn

Rad Screen Instrument: micro-R-G  
44-9-C

Rad Screen Bkg. (cpm):

68cpm

24uR

Rad Screen (cpm):

1949

Comments: Silt loam 104R 6/6 organic layer @ 0.75 @ the  
east end of the penetrator, fine roots look friable

Recorded by: LSV

QA by:

Date: 10-27-08

COC No.:	
Task Team Members: <u>CSU/GP/DMM/RR/IBS/SF</u>	
Sample ID: <u>SAL-04</u>	Station ID: <u>JP-PCR-006</u> <u>1420</u>
Collection Date: <u>10-27-08</u>	Collection Time: <u>1310</u> <u>1410</u> <u>(1310)</u>
Property Name: <u>JPC</u>	Sample Location: <u>Penetrator</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1.125 - 2.125</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>1.125 - 2.125</u>
Soil Type:	Rad Screen Instrument: <u>44-g-C</u> <u>micro-R-G</u>
Rad Screen Bkg. (cpm): <u>68cpm</u> <u>24uR</u>	Rad Screen (cpm): <u>1480cpm</u>
Comments: <u>Silt loam 104R 6/6 looks friable, fine structure/firm</u> <u>- Dry</u>	

Recorded by: <u>DSV</u>	QA by:	Date: <u>10-27-08</u>
COC No.:		
Task Team Members: <u>CSU/GP/DMM/RR/IBS/SF</u>		
Sample ID: <u>SAL-05</u>	Station ID: <u>JP-PCR-006</u> <u>1420</u>	
Collection Date: <u>10-27-08</u>	Collection Time: <u>1420</u>	
Property Name: <u>JPC</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>2.125 - 4.125</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2.125 - 4.125</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-g-C</u> <u>micro-R-G</u>	
Rad Screen Bkg. (cpm): <u>68cpm</u> <u>24uR</u>	Rad Screen (cpm): <u>860cpm</u>	
Comments: <u>Silt loam 104R 6/6 firm/med. fine roots @ 3.0' some</u> <u>clay in crusts 104R 4/6</u> <u>- Dry</u>		
Recorded by: <u>CSU</u>	QA by:	Date: <u>10-27-08</u>



Task Team Members: *CSL/RH/DMM/GP* COC No.: \_\_\_\_\_

Sample ID: *SAIC-01* Station ID: *JP-PNCR-0078*

Collection Date: *10-28-08* Collection Time: *1015*

Property Name: *JPG* Sample Location: *west of old building south of D road.*

Northing (units): *4305102.99* Easting (units): *637691.05*

Cover Depth (ft): *0.0 - 0.25* Sample Type: *Soil*

Sample Collection Method: *Bore* Sample Depth: *0.0 - 0.25*

Soil Type: *CL* Rad Screen Instrument: *44-9-B*

Rad Screen Bkg. (cpm): *65cpm* Rad Screen (cpm): *14574cpm*

Comments: *0.1 horizon 104R3/2 fine roots & structure, lots of organics.*

*- Damp*  
*- Hard woods mature (+ Red Cedar)*

Recorded by: *CSL* QA by: \_\_\_\_\_ Date: *10-28-08*

Task Team Members: *CSL/RH/GP/DMM/SF/EB5* COC No.: \_\_\_\_\_

Sample ID: *SAIC-02* Station ID: *JP-PNCR-008*

Collection Date: *10-28-08* Collection Time: *1025*

Property Name: *JPG* Sample Location: *Perimeter*

Northing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): *0.25 - 0.75* Sample Type: *Soil*

Sample Collection Method: *Bore* Sample Depth: *0.25 - 0.75*

Soil Type: *CL* Rad Screen Instrument: *44-9-B*

Rad Screen Bkg. (cpm): *65cpm* Rad Screen (cpm): *7000cpm*

Comments: *Silt loam 104R3/4 fine roots, organics, slightly sticky.*

*- Damp*

Recorded by: *CSL* QA by: \_\_\_\_\_ Date: \_\_\_\_\_

Task Team Members: <u>CSL/RR/EB5/DMN/GP/SE</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-PNCR-008</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1030</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrators</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.75 - 1.25</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.75 - 1.25</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u>	
		<u>Micro-R-N</u>
Rad Screen Bkg. (cpm):	<u>65cpm</u>	Rad Screen (cpm): <u>687cpm</u>
Comments: <u>Silt / clay 104R 5/6 fine roots, structural fine / firm</u>		
<u>@ 1.0' 20% small sub-angular gravel - firm</u>		
<u>- Damp - Dry</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>
Task Team Members: <u>CSL/RR/EB5/DMN/GP/SE</u>		
COC No.:		
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-PNCR-008</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1043</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1.25 - 2.25</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1.25 - 2.25</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u>	
		<u>Micro-R-N</u>
Rad Screen Bkg. (cpm):	<u>65cpm</u>	Rad Screen (cpm): <u>189cpm</u>
Comments: <u>silt 104R 7/4 20% rock fragments, fine structure,</u>		
<u>- Dry</u>		
<u>Refusion @ 1.75 rock</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>

COC No.:	
Task Team Members:	
Sample ID:	Station ID:
Collection Date:	Collection Time:
Property Name:	Sample Location:
Northing (units):	Easting (units):
Cover Depth (ft):	Sample Type:
Sample Collection Method:	Sample Depth:
Soil Type:	Rad Screen Instrument:
Rad Screen Bkg. (cpm):	Rad Screen (cpm):
Comments:	

Recorded by:	QA by:	Date:
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COC No.:		
Task Team Members: <i>CSL/RA/GE/AMM</i>		
Sample ID: <i>SAIL-01</i>	Station ID: <i>JP-PNCR-004</i> <i>JP-KCR-004 (1558)</i>	
Collection Date: <i>10-27-08</i>	Collection Time: <i>1554</i>	
Property Name: <i>JPG</i>	Sample Location: <i>North of first location</i> <i>that was collected today 30 yds</i>	
Northing (units): <i>4305125.41</i>	Easting (units): <i>637644.98</i>	
Cover Depth (ft): <i>0.0 - 0.5</i>	Sample Type: <i>SOIL</i>	
Sample Collection Method: <i>Bore</i>	Sample Depth: <i>0.0 - 0.5</i>	
Soil Type: <i>B<sub>0</sub> Cu</i>	Rad Screen Instrument: <i>44-9-C</i> <i>micro-R-6</i>	
Rad Screen Bkg. (cpm): <i>68cpm</i>	Rad Screen (cpm): <i>32~R</i> <i>13766cpm</i>	
Comments: <i>Silt loam 10YR 4/4 fine roots &amp; structure, organics</i> <i>- Dry</i>		
Recorded by: <i>CSL</i>	QA by:	Date:

Task Team Members: <u>CSL/DMH/CP/RR</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-PNCR-004</u> <u>JP-KCR-004 (1620)</u>	
Collection Date: <u>10-27-08</u>	Collection Time: <u>1615</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5-1</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5-1</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-G</u>	
Rad Screen Bkg. (cpm): <u>68cpm 32uR</u>	Rad Screen (cpm): <u>1499</u>	
Comments: <u>Silt 10yr 5/6 fine roots + structure, looks friable</u> <u>-DM</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-27-08</u>
COC No.:		

Task Team Members: <u>CSL/DMH/CP/RR</u>		COC No.:
Sample ID: <u>CSL/DMH/CP/RR</u> <u>SAIC-03</u>	Station ID: <u>JP-PNCR-004</u> <u>JP-KCR-004 (1620)</u>	
Collection Date: <u>10-27-08</u>	Collection Time: <u>1625</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>1-2 Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-C</u> <u>Micro-R-G</u>	
Rad Screen Bkg. (cpm): <u>68cpm 32uR</u>	Rad Screen (cpm): <u>1386</u>	
Comments: <u>Silt 10yr 5/6 fine roots + structure, look friable,</u> <u>-DM</u> <u>Refused</u> <u>1.5' ft</u> <u>Bed rock consistent in both holes</u>		
Recorded by:	QA by:	Date:

Task Team Members: <u>CSL/DMM/SOS/SE/GP/RR</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-PNCR-007</u> <u>JP-KCR-007</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>0900</u>	
Property Name: <u>JPG</u>	Sample Location: <u>in the vicinity of the prior samples.</u>	
Northing (units): <u>4305103.08</u>	Easting (units): <u>637661.74</u>	
Cover Depth (ft): <u>0.0 - 0.25</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.25</u>	
Soil Type: <u>cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>69cpm 18uR</u>	Rad Screen (cpm): <u>3217cpm</u>	
Comments: <u>O<sub>1</sub> horizon 104R 3/2 fine roots &amp; lots of organics, some 1% gravel - sub - rounded</u> <u>- Dry</u>		

Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>
Task Team Members: <u>CSL/DMM/LB/SE/GP/RR</u>		
COC No.:		
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-PNCR-007</u> <u>JP-KCR-007</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>0917</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrations</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.25 - 0.75</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.25 - 0.75</u>	
Soil Type: <u>cn</u>	Rad Screen Instrument: <u>B</u> <u>N</u>	
Rad Screen Bkg. (cpm): <u>69cpm 18uR</u>	Rad Screen (cpm): <u>11523cpm</u>	
Comments: <u>silt 104R 5/6 fine roots, some depletions</u> <u>104R 7/2 2%</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>

Task Team Members: <u>CSL/DMN/BS/SK/CP/RR</u>		COC No.:
Sample ID: <u>SAIC-03</u>	Station ID: <u>JP-PNCR-007</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>0932</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Pinatenter</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.75 - 1.0</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.75 - 1.0</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>64cpm 18-R</u>	Rad Screen (cpm): <u>504cpm</u>	
Comments: <u>Silt loam 10YR 6/0 mag. accumulations, fine structure</u> <u>5% small - sub-angular gravel.</u> <u>Refusal @ 1.0' large rock</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>

Task Team Members: <u>CSL/DMN/BS/SK/CP/RR</u>		COC No.:
Sample ID: <u>SAIC-01</u>	Station ID: <u>JP-PNCR-005</u> <u>JP-KCR-005 (1135)</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1135</u>	
Property Name: <u>JPG</u>	Sample Location: <u>west of last location S.E. of road</u>	
Northing (units): <u>4305104.64</u>	Easting (units): <u>637210.22</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>98cpm 41-R 36-R</u>	Rad Screen (cpm): <u>7623cpm</u>	
Comments: <u>Silt loam 10YR 3/4 coarse roots fine structure, organics</u> <u>- damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>

Task Team Members: <u>CSL/EBZ/DMN/RR/GP/SE</u>		COC No.:
Sample ID: <u>SAIL-02</u>	Station ID: <u>JP-PNCR-005</u> <u>JP-PNCR-005 (1140)</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1140</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrators</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>RORE</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>98cpm</u> <u>41uR</u>	Rad Screen (cpm): <u>537cpm</u>	
Comments: <u>Silt loam 10YR 4/6 fine/med. structure, 10% sub-rounded</u> <u>gravel fine roots,</u> <u>hitting rock @ 11" inches (EBZ) -</u> <u>--damp</u>		
Recorded by:	QA by:	Date: <u>10-28-08</u>
Task Team Members: <u>CSL/EBZ/RR/GP/SE/DMN</u>		COC No.:
Sample ID: <u>SAIL-03</u>	Station ID: <u>JP-PNCR-005</u> <u>JP-KCR-005 (1150)</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1150</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrators</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>RORE</u>	Sample Depth: <u>0-2</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>98cpm</u> <u>41uR</u>	Rad Screen (cpm): <u>130cpm</u>	
Comments: <u>Silt loam 10YR 4/6 50% gravel sub-angular, fine,</u> <u>slightly sticky.</u> <u>Refusal @ 2.0 ft</u> <u>--damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>

Task Team Members: <u>CSL/DM/ST/RR/GP/EB</u>		COC No.:
Sample ID: <u>JP-PN SAIC-01</u>	Station ID: <u>JP-PNCR-008/9</u> <u>JP-KCR-009-CSL</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1430</u>	
Property Name: <u>JPG</u>	Sample Location: <u>West of old house south of Big Creek</u>	
Northing (units): <u>4305114.71</u>	Easting (units): <u>637564.26</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>75cpm</u> <u>32uR</u>	Rad Screen (cpm): <u>23744cpm</u>	
Comments: <u>Silt loam 10YR 3/6 fine roots, fine structure 5% gravel sub-angular (0.0 - 0.3) Oi 10YR 3/2 organics, fine roots</u> <u>- Damp</u> <u>- Mature hardwoods (sugar maple &amp; Red Oak)</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>

Task Team Members: <u>CSL/RR/DM/ST/GP/EB</u>		COC No.:
Sample ID: <u>SAIC-02</u>	Station ID: <u>JP-PNCR-009</u> <u>JP-KCR-009-CSL</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1439</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetration</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1</u>	Sample Type: <u>Soil</u> <u>10YR 3/6</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>Micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>75cpm</u> <u>32uR</u>	Rad Screen (cpm): <u>1198cpm</u>	
Comments: <u>Silt loam 10YR 5/6 (u) 0.75 hit gravel 20% Rot interval fine roots + structure</u> <u>- Damp</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>



COC No.:	
Task Team Members: <u>CSL/RR/SF/DMM/CP/EB5</u>	
Sample ID: <u>SAL-03</u>	Station ID: <u>JP-PNCR-009</u>
Collection Date: <u>10-28-08</u>	Collection Time: <u>1444</u>
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>
Northing (units):	Easting (units):
Cover Depth (ft): <u>1.0 - 1.25</u>	Sample Type: <u>Soil</u>
Sample Collection Method: <u>Boze</u>	Sample Depth: <u>1.0 - 1.25</u>
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>
Rad Screen Bkg. (cpm): <u>75cpm 32-R</u>	Rad Screen (cpm): <u>2611cpm</u>
Comments: <u>Silt loam 10YR 5/8 fine roots 20% rock fragments</u> <u>- Damp</u> <u>- Refusal @ 1.25' ft</u>	

Recorded by:	QA by:	Date:
[Redacted]		
COC No.:		
Task Team Members: <u>CSL/RR/SF/DMM/CP/EB5</u>		
Sample ID: <u>SAL-01</u>	Station ID: <u>JP-PNCR-010</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1522</u>	
Property Name: <u>JPG</u>	Sample Location: <u>South of old foundation</u>	
Northing (units): <u>4365049.95</u>	Easting (units): <u>637644.26</u>	
Cover Depth (ft): <u>0.0 - 0.5</u>	Sample Type: <u>Soil</u>	
Sample Collection Method: <u>Boze</u>	Sample Depth: <u>0.0 - 0.5</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>22 74cpm 40-R</u>	Rad Screen (cpm): <u>6992cpm</u>	
Comments: <u>Silt loam 10YR 5/6 fine roots &amp; structure 10% gravel</u> <u>sub-rounded.</u> <u>- Woods edge</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>

Task Team Members: <u>CSL/DMM/GP/SE/RR/EBB</u>		COC No.:
Sample ID: <u>SALC-02</u>	Station ID: <u>JP-PNCR-010</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1526</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrators</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>0.5 - 1.0</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>0.5 - 1.0</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>74cpm</u> <u>40uR</u>	Rad Screen (cpm): <u>623cpm</u>	
Comments: <u>Silt loam 10gr 6/10 5% gravel-sub-rounded fine structure</u>		

Dry

Recorded by: CSL QA by: \_\_\_\_\_ Date: 10-28-08

Task Team Members: <u>CSL/DMM/GP/SE/RR/EBB</u>		COC No.:
Sample ID: <u>SALC-03</u>	Station ID: <u>JP-PNCR-010</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1532</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrators</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>1-2</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>Bore</u>	Sample Depth: <u>1-2</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-N</u>	
Rad Screen Bkg. (cpm): <u>74cpm</u> <u>40uR</u>	Rad Screen (cpm): <u>1524cpm</u>	
Comments: <u>Silt loam 10gr 6/10 firm/med. structure clay inclusions</u> <u>5% @ 1.5' rock fragments</u> <u>platy</u>		
Recorded by: <u>CSL</u>	QA by: _____	Date: <u>10-28-08</u>

Task Team Members: <u>CSL/DMM/OP/EBS/SF/RR</u>		COC No.:
Sample ID: <u>SAIC-04</u>	Station ID: <u>JP-PCR-010</u>	
Collection Date: <u>10-28-08</u>	Collection Time: <u>1537</u>	
Property Name: <u>JPG</u>	Sample Location: <u>Penetrator</u>	
Northing (units):	Easting (units):	
Cover Depth (ft): <u>20-2.8</u>	Sample Type: <u>SOIL</u>	
Sample Collection Method: <u>BORE</u>	Sample Depth: <u>2.0-2.8</u>	
Soil Type: <u>Cn</u>	Rad Screen Instrument: <u>44-9-B</u> <u>micro-R-IV</u>	
Rad Screen Bkg. (cpm): <u>74cpm 40-R</u>	Rad Screen (cpm): <u>607cpm</u>	
Comments: <u>Silt loam 10YR 5/6 firm/fine structure,</u> <u>5% rock fragments</u> <u>Dry</u> <u>Refusal @ 2.8 ft</u>		
Recorded by: <u>CSL</u>	QA by:	Date: <u>10-28-08</u>
COC No.:		
Task Team Members:		
Sample ID:	Station ID:	
Collection Date:	Collection Time:	
Property Name:	Sample Location:	
Northing (units):	Easting (units):	
Cover Depth (ft):	Sample Type:	
Sample Collection Method:	Sample Depth:	
Soil Type:	Rad Screen Instrument:	
Rad Screen Bkg. (cpm):	Rad Screen (cpm):	
Comments:		
Recorded by:	QA by:	Date:

## SAMPLE LOGBOOK

WORK SITE:

JEFFERSON PROVING GROUND

START DATE:

10/25/2008

END DATE:

10/28/2008



8421 St. John Industrial Drive  
Suite 200  
St. Louis, MO 63114

**i**

Recorded by: Amanda Jett 10/25/08 QA by: \_\_\_\_\_  
(Signature and Date) (Signature and Date)

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Recorded by: Commander Just 10/29/08 QA by:

(Signature and Date)

(Signature and Date)

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Recorded by: \_\_\_\_\_ (Signature and Date)      QA by: \_\_\_\_\_ (Signature and Date)

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Task Team

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Sample ID

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Soil Type:

Rad Screer

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Recorded by

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Soil Type:

Rad Screen

DOSE

Comments:

10/18/7

Recorded by



# Munsell 1992 REV ED SOIL COLOR CHART USED FOR COLOR DESCRIPTIONS

1

COC No.: \_\_\_\_\_

Task Team Members: AMANDA TAYLOR (AT), EMILY CUNNINGHAM (EC), JACIE WETSON (JG),  
MAT LOGAN (ML), DENNIS WILKINS (DL), RICH MAHAN (RM)

Sample ID: SATC01 Station ID: JP-SCU-005

Collection Date: 10/25/08 Collection Time: 0847

Property Name: JEFFERSON PROBING GROUND (JPG) Sample Location: WITHIN DU AREA  
NORTH OF C ROAD IN BETWEEN MORGAN + WONTU RD

Nothing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.0' - 0.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.0' - 0.5'

Soil Type: COBBSEFORK (Co) Rad Screen Instrument: 44-9-B (SERIAL: 211355)  
MR-RA (SERIAL: 207483)

Rad Screen Bkg. (cpm): 56 cpm Rad Screen (cpm): 57 cpm

DOSE - 9uR

Comments: SILT - SOFT, DAMP, SOME ROOTS + ORGANICS THROUGHOUT  
10YR7/1 LIGHT GRAY WITH LITTLE 10YR5/6 YELLOWISH BROWN IRON  
ACCUMULATIONS, WEAK STRUCTURE

Recorded by: Amanda Taylor 10/25/08 QA by: \_\_\_\_\_

Date: \_\_\_\_\_

COC No.: \_\_\_\_\_

Task Team Members: AT / EC / JG / ML / DL / RM

Sample ID: SATC02 Station ID: JP-SCU-005

Collection Date: 10/25/08 Collection Time: 0850

Property Name: JPG Sample Location: WITHIN DU AREA  
NORTH OF C ROAD IN BETWEEN MORGAN + WONTU RD

Nothing (units): \_\_\_\_\_ Easting (units): \_\_\_\_\_

Cover Depth (ft): 0.5' - 1.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.5' - 1.0'

Soil Type: COBBSEFORK (Co) Rad Screen Instrument: 44-9-B (SERIAL: 211355)  
MR-RA (SERIAL: 207483)

Rad Screen Bkg. (cpm): 56 cpm Rad Screen (cpm): 51 cpm

DOSE - 9uR

Comments: SILT LOAM - SOFT DAMP FEW SMALL/FINE ROOTS  
10YR7/1 LIGHT GRAY; IRON DEPLETIONS, WEAK STRUCTURE

Recorded by: Amanda Taylor 10/25/08 QA by: \_\_\_\_\_

Date: \_\_\_\_\_

COC No.:	
Task Team Members: AT/EC/SG/ML/DL/RM	
Sample ID: SATC03	Station ID: JP-SC10-005
Collection Date: 10/25/08	Collection Time: 0853
Property Name: JPG	Sample Location: WITHIN DU AREA NORTH OF C ROAD BETWEEN MORGAN + WINDY
Northing (units):	Easting (units):
Cover Depth (ft): 1.0' - 2.0'	Sample Type: SOIL
Sample Collection Method: HAND AUGER COMPOSITE	Sample Depth: 1.0' - 2.0'
Soil Type: COARSESTOCK (CO)	Rad Screen Instrument: MICROT 44-B 211355/PROB MICRO RA EES ID: 110532 SERIAL #: 207483
Rad Screen Bkg. (cpm): 560 cpm	Rad Screen (cpm): 65 cpm
DOSE: 9uR	
Comments: SILT LOAM - DAMP, SOFT, WEAK STRUCTURE MEDIUM PLASTICITY 10YR7/1 LIGHT GRAY, TRACE 10YR5/6 YELLOWISH BROWN, IRON DEPLETIONS TO NO NOT 1425 TO 0	

Recorded by: Amanda J. [Signature] 10/25/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

COC No.:	
Task Team Members: AT/EC/SG/ML/DL/RM	
Sample ID: SATC04	Station ID: JP-SC10-005
Collection Date: 10/25/08	Collection Time: 0900
Property Name: JPG	Sample Location: WITHIN DU AREA NORTH OF C ROAD BETWEEN MORGAN + WINDY
Northing (units):	Easting (units):
Cover Depth (ft): 2.0' - 4.0'	Sample Type: SOIL
Sample Collection Method: HAND AUGER COMPOSITE	Sample Depth: 2.0' - 4.0'
Soil Type: COARSESTOCK (CO)	Rad Screen Instrument: 44-B (SERIAL # 211355) MRA (SERIAL # 207483)
Rad Screen Bkg. (cpm): 560 cpm	Rad Screen (cpm): 72 cpm
DOSE: 9uR	
Comments: SILT LOAM, TRACE FINE ROOTS, DAMP HIGH PLASTICITY 10YR7/1 LIGHT GRAY, TRACE 10YR5/6 YELLOWISH BROWN UNTIL 3.5' - AT 3.5' bgs SOIL IS 10YR4/6 + 10YR5/6 YELLOWISH BROWN WITH LITTLE 10YR7/1 LIGHT GRAY AT 3.0 FT bgs, INTRODUCTION OF LITTLE BLACK IRON DEPOSITS SOFT MANGANESE	
Recorded by: Amanda J. [Signature] 10/25/08 QA by: _____ Date: _____	

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COC No.:

Task Team Members: AT/EC/JG/ML/DL/RM

Sample ID: SAIC05

Station ID: JP-SC0-005

Collection Date: 10/25/08

Collection Time: 0907

Property Name: JRG

Sample Location: WITHIN DU AREA

Northing (units):

NORTH OF C ROAD IN BETWEEN MORGAN + WONTU

Easting (units):

Cover Depth (ft): 4.0' - 6.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
(COMPOSITE)

Sample Depth: 4.0' - 6.0'

Soil Type: COBBLESTON (CO)

Rad Screen Instrument: 44-9-B (SERIAL# 211355)  
MR-A (SERIAL# 207483)

Rad Screen Bkg. (cpm): 50 cpm

Rad Screen (cpm): 69 cpm

DOSE (MR): 9 MR

Comments: SILT CLAY, DAMP, SOFT, HIGH PLASTICITY, MEDIUM STIFF  
10487/1 LIGHT GRAY AND 10485/10 YELLOWISH BROWN IRON ACCUMULATIONS  
SOME BLACK CEMENTED MANGANESE ACCUMULATIONS FROM 3.0' to ~5.0' bgs

Recorded by: Amanda Jentz 10/25/08

QA by:

Date:

COC No.:

Task Team Members: AT/EC/JG/ML/DL/RM

Sample ID: SAIC01 + DUPLICATE  
SAIC01D

Station ID: JP-SC0-008

Collection Date: 10/25/08

Collection Time: 1029

Property Name: JRG

Sample Location: WITHIN DU AREA. IN LINE W/ WEST TRENCH

Northing (units):

NORTH OF C ROAD IN BETWEEN MORGAN + WONTU

Easting (units):

Cover Depth (ft): 0.0' - 0.5'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
(COMPOSITE)

Sample Depth: 0.0' - 0.5'

Soil Type: COBBLESTON (CO)

Rad Screen Instrument: 44-9-B (SERIAL# 211355)  
MR-A (SERIAL# 207483)

Rad Screen Bkg. (cpm): 59 cpm

Rad Screen (cpm): 86 cpm

MICRO R: 11 MR

Comments: SILT - DRY <sup>COB</sup> MEDIUM PLASTICITY, SOFT, SOME ROOTS, FRIABLE  
10487/1 LIGHT GRAY, ~~SOME~~ LITTLE 10485/10 YELLOWISH BROWN IRON  
ACCUMULATIONS, WEAK STRUCTURE

Recorded by: Amanda Jentz 10/25/08

QA by:

Date:

COC No.:

Task Team Members: AT | EC | TG | ML | DL | RM

---

Sample ID: SAEL02 / SAEL02D Station ID: JP-SCW-008

Collection Date: 10/25/08 Collection Time: 1033

Property Name: JPG Sample Location: WITHIN DU AREA - IN  
LINE WITH WEST TRENCH

Northing (units): Easting (units):

Cover Depth (ft): 0.5' - 1.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.5 - 1.0'

Soil Type: COBBLESTONE (Co) Rad Screen Instrument: 44-9-B (SERIAL #211355)  
MR-AL (SERIAL #207483)

Rad Screen Bkg. (cpm): 59 cpm Rad Screen (cpm): 75 cpm

DOSE: 11 uR

Comments: SILT, DRY, CRUMBLY, SOFT, FRAGILE, WEAK STRUCTURE  
1048711 LIGHT GRAY, IRON DEPLETIONS

Recorded by: Amanda Justin 10/25/08 QA by: Date:

COC No.:

Task Team Members: AT | EC | TG | ML | DL | RM

---

Sample ID: SAEL03 & SAEL03D Station ID: JP-SCW-008

Collection Date: 10/25/08 Collection Time: 1036

Property Name: JPG Sample Location: WITHIN DU AREA -  
IN LINE WITH WEST TRENCH

Northing (units): Easting (units):

Cover Depth (ft): 1.0' - 2.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 1.0' - 2.0'

Soil Type: COBBLESTONE (Co) Rad Screen Instrument: 44-9-B (SERIAL #211355)  
MR-AL (SERIAL #207483)

Rad Screen Bkg. (cpm): 59 cpm Rad Screen (cpm): 64 cpm

DOSE (MR): 11 uR

Comments: SILT, OAM, DRY, WEAK STRUCTURE - CRUMBLY, SOFT  
1048711 LIGHT GRAY, IRON DEPLETIONS

Recorded by: Amanda Justin 10/25/08 QA by: Date:

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COC No.:

Task Team Members: AT | EC | JG | ML | DL | RM

Sample ID: SAICQH + SAICQHD

Station ID: JP-SCW-008

Collection Date: 10/25/08

Collection Time: 1042

Property Name: JEFFERSON PROVING GROUND

Sample Location: WITHIN DUT AREA  
IN LINE W/ WEST TRENCH

Northing (units):

Easting (units):

Cover Depth (ft): 2.0' - 4.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
COMPOSITE

Sample Depth: 2.0' - 4.0' bgs

Soil Type: COMPOSTFORK (CO)

Rad Screen Instrument: 44-98 (SERIAL# 211355)  
MRA (SERIAL# 207493)

Rad Screen Bkg. (cpm): 59 cpm

Rad Screen (cpm): 77 cpm

DOSE: 11uR

Comments: SILT LOAM, DRY TO DAMP, SOFT, MEDIUM PLASTICITY WEAK  
1042711 LIGHT GRAY, AT 3.0 FT BGS INCREASE IN 1042516 YELLOWISH  
BROWN WITH DEPTH - IRON ACCUMULATIONS

Recorded by: Amanda Juntun 10/25/08

QA by:

Date:

COC No.:

Task Team Members: AT | EC | JG | ML | DL | RM

Sample ID: SAICQVS + SAICQSD

Station ID: JP-SCW-008

Collection Date: 10/25/08

Collection Time: 1051

Property Name: JPG

Sample Location: WITHIN DUT AREA  
IN LINE W/ WEST TRENCH

Northing (units):

Easting (units):

Cover Depth (ft): 4.0' - 6.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
COMPOSITE

Sample Depth: 4.0' - 6.0' bgs

Soil Type: COMPOSTFORK (CO)

Rad Screen Instrument: 44-98 (SERIAL# 211355)  
MRA (SERIAL# 207493)

Rad Screen Bkg. (cpm): 59 cpm

Rad Screen (cpm): 69 cpm

DOSE: 11uR

Comments: SILT LOAM, DRY TO DAMP, MEDIUM STIFF, MEDIUM PLASTICITY  
1042711 LIGHT GRAY AND 1042516 DARK YELLOWISH BROWN IRON  
ACCUMULATIONS

Recorded by: Amanda Juntun 10/25/08

QA by:

Date:

COC No.:

Task Team Members: AT | EC | JG | ML | DL | RM

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Sample ID: SAIC 01 Station ID: JP-SC6-003

Collection Date: 10/25/08 Collection Time: 1135

Property Name: JPG Sample Location: JP-SC6-003 WITHIN DU  
WESTERN TRENCH

Northing (units): Easting (units):

Cover Depth (ft): 0.0' - 0.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER  
COMPOSITE Sample Depth: 0.0' - 0.5'

Soil Type: CINCINNATI (CnB2) Rad Screen Instrument: 44-9-B (SERIAL # 211355)  
MRA (SERIAL # 207483)

Rad Screen Bkg. (cpm): 77 cpm (general area) Rad Screen (cpm): 143 cpm

DOSE - 35 GENERAL AREA (WASTEWATER) + (0.0) R contact area  
Comments: SILT - WET AND MOIST, VERY SOFT, HIGH PLASTICITY  
1049516 YELLOWISH BROWN WITH SOME 10471 LIGHT GRAY  
WATER ENCOUNTERED AT 0.35 FT BGS - PRELIM

Recorded by: Amanda Smith 10/25/08 QA by: Date:

COC No.:

Task Team Members: AT | EC | JG | ML | DL | RM

---

Sample ID: SAIC 02 Station ID: JP-SC6-003

Collection Date: 10/25/08 Collection Time: 1140

Property Name: JPG Sample Location: WITHIN DU - WESTERN TRENCH

Northing (units): Easting (units):

Cover Depth (ft): 0.5' - 1.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER  
COMPOSITE Sample Depth: 0.5' - 1.0'

Soil Type: CINCINNATI (CnB2) Rad Screen Instrument: 44-9-B (SERIAL # 211355)  
MRA (SERIAL # 207483)

Rad Screen Bkg. (cpm): 77 cpm Rad Screen (cpm): 144 cpm

DOSE: GEN AREA - 35 R CONTACT AREA - (0.0) R  
Comments: SILT LOAM VERY SOFT, HIGH PLASTICITY, WET (FROM SURFACE)  
1049516 YELLOWISH BROWN: MEDIUM STRUCTURE  
DARK HIGH

Recorded by: Amanda Smith 10/25/08 QA by: Date:

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10471

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HIGH

Recorded

COC No.:

Task Team Members: AT | EC | IG | ML | DL | RM

Sample ID: SATC 03

Station ID: JP-SC10-003

Collection Date: 10/25/08

Collection Time: 1150

Property Name: JRG

Sample Location: WITHIN DU  
WESTERN TRENCH

Northing (units):

Easting (units):

Cover Depth (ft): 1.0' - 2.0'

Sample Type: 1.0' - 2.0' TAILBOE SOIL

Sample Collection Method: HAND AXER

Sample Depth: 1.0' - 2.0'

Soil Type: CINCINNATI  
COMPOSITE (C0B2)Rad Screen Instrument: 44-9-B (SERIAL # 211356)  
MR-A (SERIAL # 207483)

Rad Screen Bkg. (cpm): 77 cpm (general area)

Rad Screen (cpm): 112 cpm

DOSE: 35mR (general area - waist high) + 100mR (contact area)

Comments: SILTY CLAY LOAM SOIL IS DRY, BUT WET FROM SURFACE WATER (PERCHED)  
MEDIUM STIFF; 10YR7/1 LIGHT GRAY AND 10YR5/10 YELLOWISH BROWN

Recorded by: Amanda Junt 10/25/08

QA by:

Date:

COC No.:

Task Team Members: AT | EC | IG | ML | DL | RM

Sample ID: SATC 04

Station ID: JP-SC10-003

Collection Date: 10/25/08

Collection Time: 1215

Property Name: JRG

Sample Location: WITHIN DU  
WESTERN TRENCH

Northing (units):

Easting (units):

Cover Depth (ft): 2.0' - 4.0'

Sample Type: SOIL

Sample Collection Method: HAND AXER

Sample Depth: 2.0' - 4.0'

Soil Type: CINCINNATI  
COMPOSITE (C0B2)Rad Screen Instrument: 44-9-B (SERIAL # 211356)  
MR-A (SERIAL # 207483)

Rad Screen Bkg. (cpm): 77 cpm (general area)

Rad Screen (cpm): 73 cpm

DOSE: General area - 35mR Contact area: 100mR

Comments: SILTY LOAM SOIL IS DRY - BUT WATER (SURFACE/PERCHED) IS RUNNING DOWNHOLE  
10YR7/1 LIGHT GRAY UNTIL 0.75 FT BGS. AT 2.75' SOIL IS 10YR3/10  
DARK YELLOWISH BROWN w/ SOME BLACK CEMENTED MANGANESE ACCUMULATIONS  
HIGH PLASTICITY REFUSAL AT 2.75' - OFFSET AND CONTINUE

Recorded by: Amanda Junt 10/25/08

QA by:

Date:

COC No.:

Task Team Members: AT | EC | JG | ML | DL | RM

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Sample ID: SACC 05 Station ID: JP-SCW-003

Collection Date: 10/25/08 Collection Time: 1304

Property Name: JPG Sample Location: WITHIN DU  
WESTERN TRENCH

Northing (units): Easting (units):

Cover Depth (ft): 4.0' - 6.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Composite Sample Depth: 4.0' - 6.0'

Soil Type: CINCINNATI (C0B2) Rad Screen Instrument: 44-B (SERIAL #211355)  
MUR-A (SERIAL #207483)

Rad Screen Bkg. (cpm): 77 cpm (general area) Rad Screen (cpm): 63 cpm

DOSE: General Area (35uR) Counter Area (40uR)

Comments: SILTY (LAWM) DRY, SOME FINE SUBANGULAR GRAVEL, TRIANGLE  
10YR 3/6 DARK YELLOWISH BROWN, LITTLE MANGANESE ACCUMULATIONS  
STIFF TO VERY STIFF, HIGH PLASTICITY

Recorded by: Amanda Jett 10/15/08 QA by: Date:

COC No.:

Task Team Members: AMANDA JETT (AT), DAVID LAWSON (DL), RICH MAHAN (RM),  
DENNIS LUMPKINS (DDL), MATT LOGAN (ML), EMILY LUNNINGHAM (EL),  
JACKIE GELSON (JG)

Sample ID: SACC 01 Station ID: JP-PGR-001 (PENETRATOR)  
JP-PGR-001 (SOIL) JP-PGR-001 (KG)

Collection Date: 10/26/08 Collection Time: 1200

Property Name: JPG Sample Location: INSIDE OF DU NORTH OF  
BIG CREEK ALONG D ROAD

Northing (units): 4305256.310 Easting (units): 037603.310

Cover Depth (ft): 0.0' - 0.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER/TROWL Composite Sample Depth: 0.0' - 0.5' bgs

Soil Type: GRAYFORD (G0D2) Rad Screen Instrument: 449 B (SERIAL #211355)  
MUROR-A (SERIAL #207483)

Rad Screen Bkg. (cpm): 1713 cpm Rad Screen (cpm): 3604 (by penetrator location)  
BACKGROUND 29 (background 1 FT away)

DOSE RATE: 12uR (waist high) 1.25 mR (contact point)

Comments: SILT, DRY, CREAMY, ROOTS/ORGANICS THROUGHOUT, FEW LIMESTONE  
5' FINE GRAVELS THROUGHOUT, 10YR 3/3 DARK BROWN, MEDIUM SIZE ROOTS  
FRIABLE

Recorded by: Amanda Jett 10/26/08 QA by: Date:

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COC No.:

Task Team Members: AT / DL / RM / DDL / ML / EC / JG

Sample ID: SATC02 Station ID: PENETRATOR: JP-PGR-001, SOIL: JP-PNGR-001  
Kd: JP-KGR-001Collection Date: 10/26/08 Collection Time: 1231Property Name: JPGSample Location: INSIDE DU - NORTH OF BIG CREEKNorthing (units): 4305256.36ALONG D ROAD - EAST OF MORGAN  
Easting (units): 637603.36Cover Depth (ft): 0.5' - 1.0'Sample Type: SOILSample Collection Method: HAND AUGER  
COMPOSITE W/TROWELSample Depth: 0.5' - 1.0' bgsSoil Type: GRAYFORD (GrD2)Rad Screen Instrument: 449B (SERIAL # 211355)  
MICKOR - A (SERIAL # 207483)Rad Screen Bkg. (cpm): BY PENETRATOR: 3604cpmRad Screen (cpm): 209cpmBkg 7ft from PENETRATOR: 39cpmDOSE RATE: 12.4R (waist high) ; 1.25mR (contact point)Comments: SILT DRY - CRUMBLY, ROOTS THROUGHOUT, LITTLE  
GRAVEL; 10YR3/3 DARK BROWN LIMESTONERecorded by: Charmelle Smith 10/26/08 QA by:

Date:

COC No.:

Task Team Members: AT / DL / RM / DDL / ML / EC / JG

Sample ID: SATC03 Station ID: PENETRATOR: JP-PGR-001  
SOIL: JP-PNGR-001 Kd: JP-KGR-001Collection Date: 10/26/08 Collection Time: 1247Property Name: JPGSample Location: INSIDE DU - NORTH OF BIG CREEKNorthing (units): 4305256.36ALONG D ROAD - EAST OF MORGAN  
Easting (units): 637603.36Cover Depth (ft): 1.0' - 2.0'Sample Type: SOILSample Collection Method: HAND AUGER  
COMPOSITE W/TROWELSample Depth: 1.0' - 2.0' bgsSoil Type: GRAYFORD (GrD2)Rad Screen Instrument: 449B (SERIAL # 211355)  
MICKOR - A (SERIAL # 207483)Rad Screen Bkg. (cpm): BY PENETRATOR: 3604cpmRad Screen (cpm): 92cpmBkg 7ft from PENETRATOR: 39cpmDOSE RATE: 12.4R (waist high) ; 1.25mR (contact point)Comments: SILT DRY - SOFT, SOME ROOTS, SOME LIMESTONE GRAVEL (1" or less)  
10YR3/3 DARK BROWN GRAVEL IS SUBANGULARRecorded by: Charmelle Smith 10/26/08 QA by:

Date:

COC No.:

Task Team Members: AT/EC/JG/ML/DL/RM/DD

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Sample ID: SAIC04 Station ID: JP-PGR-001 (PENETRATOR)  
JP-PGR-001 (SOIL) & JP-KGR-001 (Kd)

Collection Date: 10/20/08 Collection Time: 1303

Property Name: JPG Sample Location: WITHIN DV: NORTH OF BIG CREEK ALONG D ROAD EAST OF MORGAN

Northing (units): 4205256.36 Easting (units): 637603.36

Cover Depth (ft): 2.0' - 2.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 2.0' - 2.5' bgs  
SAMPLE/COMPOSITE w/ TROWEL REFUSAL AT 2.5 FT BGS

Soil Type: GRAYFORD (GD2) Rad Screen Instrument: 44-9-B (SERIAL #211355)  
MR-A (SERIAL #207483)

Rad Screen Bkg. (cpm): 39 cpm Rad Screen (cpm): 87 cpm

DOSE: 12uR (unlit high) ; 1.25mR (contact point)  
 Comments: SILT LOAM DRY, SOFT, SOME LIMESTONE GRAVEL THROUGHOUT SUBANGULAR  
104233 DARK BROWN, ONLY SOIL COLLECTED IN 8.02 JR  
- NO Kd bag collected - REFUSAL AT 2.5 FT BGS - LIMESTONE  
BEDROCK - BORING TERMINATED

Recorded by: Camille Smith 10/20/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

COC No.:

Task Team Members: AT/EC/JG/ML/DL/DLL/RM

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Sample ID: PENETRATOR JP-PGR-002 Station ID: JP-PGR-002 (PENETRATOR)  
SAIC 01 (SOIL): JP-PGR-002 JP-KGR-002 (Kd)

Collection Date: 10/20/08 Collection Time: 1507

Property Name: JPG Sample Location: WITHIN DV - NORTH OF BIG CREEK BY D ROAD EAST OF MORGAN

Northing (units): 4305150.91 Easting (units): 637533.42

Cover Depth (ft): 0.0' - 0.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER/TROWEL Sample Depth: 0.0' - 0.5'  
COMPOSITE

Soil Type: GRAYFORD (GD2) Rad Screen Instrument: 44-9-B (SERIAL #211355)  
MR-A (SERIAL #207483)

Rad Screen Bkg. (cpm): 61 cpm Rad Screen (cpm): 7013 cpm

DOSE RATE: 50 uR (general area) ; 1000 uR (contact point)  
 Comments: SILT LOAM DRY, SOFT / LOOSE, CRUMBLY, SOME ROOTS THROUGHOUT  
1042413 BROWN, SOME FINE SUBANGULAR LIMESTONE GRAVEL; WEAK  
STRUCTURE, FRIABLE

Recorded by: Camille Smith 10/20/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

Task Team Members: \_\_\_\_\_

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Sample ID: \_\_\_\_\_

Collection Date: \_\_\_\_\_

Property Name: \_\_\_\_\_

Northing (units): \_\_\_\_\_

Cover Depth: \_\_\_\_\_

Sample Collection Method: \_\_\_\_\_

Soil Type: \_\_\_\_\_

Rad Screen: \_\_\_\_\_

DOSE: \_\_\_\_\_

Comments: \_\_\_\_\_

Recorded by: \_\_\_\_\_

COC No.:

Task Team Members: AT/DLL/DDL/RM/ML/EC/JG

Sample ID: SAIC02

Station ID: JP-PGR-002 (PENETRATOR)

JP-PGR-002 (SOIL) JP-KGR-002 (kd)

Collection Date: 10/26/08

Collection Time: 1520

Property Name: JPG

Sample Location: WITHIN DU; NORTH OF BIG CREEK

ALONG D ROAD, EAST OF MORGAN

Northing (units): 4305150.91

Easting (units): 037533.42

Cover Depth (ft): 0.5' - 1.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER/TROWEL Sample Depth: 0.5' - 1.0'

COMPOSITE

Soil Type: GRAYFORD (GrD2)

Rad Screen Instrument: 44-9-B (SERIAL # 211365)

4R-A (SERIAL # 207483)

Rad Screen Bkg. (cpm): 61 cpm

Rad Screen (cpm): 352 cpm

DOSE RATE: 50µR (general area); 600µR (contact point)

Comments: SILT LOAM; DRY CRUMBLY MANY ROOTS THROUGHOUT; FRIABLE  
10YR4/3 BROWN + 10YR4/4 DARK YELLOWISH BROWN

Recorded by: Amanda Jester 10/26/08 QA by:

Date:

COC No.:

Task Team Members: AT/DLL/DDL/RM/ML/EC/JG

Sample ID: SAIC03

Station ID: JP-PGR-002 (PENETRATOR)

JP-PGR-002 (SOIL) JP-KGR-002 (kd)

Collection Date: 10/26/08

Collection Time: 1544

Property Name: JPG

Sample Location: WITHIN DU; NORTH OF BIG

CREEK, ALONG D ROAD, EAST OF MORGAN

Northing (units): 4305150.91

Easting (units): 037533.42

Cover Depth (ft): 1.0' - 2.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER/TROWEL Sample Depth: 1.0' - 2.0'

Soil Type: GRAYFORD (GrD2)

Rad Screen Instrument: 44-9-B (SERIAL # 211365)

4R-A (SERIAL # 207483)

Rad Screen Bkg. (cpm): 51 cpm

Rad Screen (cpm): 124 cpm

DOSE RATE: 50µR (general area); 600µR (contact point)

Comments: SILT LOAM DRY MEDIUM STIFF TRACE ROOTS. FRIABLE  
10YR4/4 DARK YELLOWISH BROWN; FINE SUBANGULAR LIMESTONE GRAVEL  
BEDROCK REFUSAL AT 2.0 FT BGS - LIMESTONE

Recorded by: Amanda Jester 10/26/08 QA by:

Date:

COC No.:

Task Team Members: AT/DL/DDL/ML/EC/JG/RM

Sample ID: ~~JP-PGR-004~~ <sup>10/26/08</sup> ~~SAEC05~~ <sup>4/10/08</sup> Station ID: JP-PGR-004 (PENETRATOR)  
JP-PGR-004 (SOIL)

Collection Date: 10/26/08 Collection Time: 1643

Property Name: JPG Sample Location: WITHIN DU NORTH OF BIG CREEK, EAST OF D ROAD BRIDGE

Northing (units): 4305398.54 Easting (units): 037713.13

Cover Depth (ft): 0.0 - 0.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER TROWEL Sample Depth: 0.0 - 0.5'

Soil Type: GRAYFORD (GCD2) Composite Rad Screen Instrument: 449-B (SERIAL #211360)  
MR (SERIAL #207493)

Rad Screen Bkg. (cpm): 50 cpm Rad Screen (cpm): 9730 cpm

DOSE RATE: 30 (general area - waist high); CONTACT POINT - 1mR  
Comments: SOIL ABOVE DU PENETRATOR. SILT LOAM DRY CRUMBLY LIMESTONE GRAVEL THROUGHOUT. ROOTS - FINE TO MEDIUM IONIC. DARK BROWN WITH SOME YELLOW CORROSION MATERIAL FROM DU PENETRATOR. PENETRATOR IS LOCATED 4.5" - 6" bgs. FRIABLE. WEAK STRUCTURE.

Recorded by: Amanda J. Nester 10/26/08 QA by: Date:

COC No.:

Task Team Members: AT/DL/DDL/ML/EC/JG/RM

Sample ID: ~~JP-PGR-004~~ <sup>10/26/08</sup> ~~SAEC01~~ Station ID: JP-PGR-004 (PENETRATOR)  
JP-PGR-004 (SOIL)

Collection Date: 10/26/08 Collection Time: 1652

Property Name: JPG Sample Location: WITHIN DU NORTH OF BIG CREEK, EAST OF D ROAD BRIDGE

Northing (units): 4305398.54 Easting (units): 037713.13

Cover Depth (ft): 0.5' - 1.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER TROWEL Sample Depth: 0.5' - 1.0'

Soil Type: GRAYFORD (GCD2) Composite Rad Screen Instrument: 449-B (SERIAL #211360)  
MR (SERIAL #207493)

Rad Screen Bkg. (cpm): 50 cpm Rad Screen (cpm): 4497 cpm

DOSE RATE: GENERAL AREA - 30mR waist high; CONTACT POINT - 1mR  
Comments: SILT LOAM; DRY; CRUMBLY/FRIABLE. SOME 1-2" SUBANGULAR LIMESTONE GRAVEL "S2" THROUGHOUT, 10YR3/3 DARK BROWN.

Recorded by: Amanda J. Nester 10/26/08 QA by: Date:

Task Team

Sample ID

Collection

Property

Northing

Cover Depth

Sample Collection Method

Soil Type

Rad Screen

DOSE

Comments

INCR

Recorded

Task Team

Sample ID

Collection

Property

Northing

Cover Depth

Sample Collection Method

Soil Type

Rad Screen

DOSE

Comments

INCR

Recorded

COC No.:

Task Team Members: AT/DLL/DDDL/MLEC/JG/RMSample ID: SATC02Station ID: JP-PGR-004 (PENETRATOR)  
JP-PGR-004 (SOIL)Collection Date: 10/20/08Collection Time: 1057Property Name: JPGSample Location: WITHIN DU; NORTH OF BIG  
CREEK; EAST OF D ROAD BRIDGENorthing (units): 4305398.54Easting (units): 637713.13Cover Depth (ft): 1.0' - 1.5'Sample Type: SOILSample Collection Method: HAND AUGER / TROWEL  
COMPOSITESample Depth: 1.0' - 1.5'Soil Type: GRAYFORD (GD2)Rad Screen Instrument: 44-G-B (SERIAL# 211355)  
WR (SERIAL# 207493)Rad Screen Bkg. (cpm): 50 cpmRad Screen (cpm): 2104 cpmDOSE RATE: GENERAL AREA - 30MR; CONTACT POINT - 1MRComments: SILT LOAM; DRY; MEDIUM STIFF; 10YR 4/4 DARK YELLOWISH BROWN  
INCREASE IN LIMESTONE GRAVEL CONTENT WITH DEPTH ~3"Recorded by: Amanda Martin 10/20/08 QA by:

Date:

COC No.:

Task Team Members: AT/DLL/DDDL/MLEC/JG/RMSample ID: SATC03Station ID: JP-PGR-004 (PENETRATOR)  
JP-PGR-004 (SOIL)Collection Date: 10/20/08Collection Time: 1715Property Name: JPGSample Location: WITHIN DU; NORTH OF BIG  
CREEK; EAST OF D ROAD BRIDGENorthing (units): 4305398.54Easting (units): 637713.13Cover Depth (ft): 1.5' - 2.5' bgsSample Type: SOILSample Collection Method: HAND AUGER / TROWEL  
COMPOSITESample Depth: 1.5' - 2.5' bgsSoil Type: GRAYFORD (GD2)Rad Screen Instrument: 44-G-B (SERIAL# 211355)  
WR (SERIAL# 207493)Rad Screen Bkg. (cpm): 50 cpmRad Screen (cpm): 1325 cpmDOSE RATE: GENERAL AREA - 30MR; CONTACT POINT - 1MRComments: SILT LOAM; DRY; MEDIUM STIFF; 10YR 4/10 DARK YELLOWISH BROWN; CRUMBLY  
INCREASE IN GRAVEL SIZE AND CONTENT WITH DEPTH  
BEDROCK REFUSAL AT 2.5 FT BGS - LIMESTONERecorded by: Amanda Martin 10/20/08 QA by:

Date:

COC No.:

Task Team Members: JIMMIEA TRENTON (AT); DAVID LAWSON (DLL); RICH MAHAN (RM); DENNIS LUMPKINS (DDL); EMILY WASHINGTON (EC); JACKIE GIBSON (JG)

Sample ID: SAFC 015

Station ID: JP-PAC-009 (PENETRATOR)

(SOIL ABOVE PENETRATOR)

JP-PNAC-009 (SOIL)

Collection Date: 10/27/08

Collection Time: 1009

Property Name: JPG

Sample Location: WITHIN DJ

ALONG CENTER TRENCH

Northing (units): 4303956.89

Easting (units): 637647.69

Cover Depth (ft): 0.0 - 0.3 ft bgs

Sample Type: SOIL

Sample Collection Method: TROWEL

Sample Depth: 0.0 - 0.3 ft bgs

Soil Type: COMPOST FORK (CO)

Rad Screen Instrument: 44-9-B (SERIAL # 211355)  
MR-A (SERIAL # 207483)

Rad Screen Bkg. (cpm): 62 cpm

Rad Screen (cpm): 5366 cpm

DOSE RATE: 50 mR (waist high); 450 mR (contact point)

Comments: SILT LOAM, DRY, CRUMBLY, FRIABLE, WEAK STRUCTURE.

MANY FINE ROOTS, LITTLE YELLOW CORROSION ON SOIL FROM PENETRATOR  
TRACE (S/N) FINE GRAUL. 10/13 BROWNSOIL IS COLLECTED FROM NORTHWEST SIDE OF PENETRATOR  
PENETRATOR IS LOCATED FROM 2"-4" bgs + IS ~10" LONG

Recorded by: Amanda Hunter 10/27/08 QA by:

Date:

COC No.:

Task Team Members: AT/DLL/RM/DDP/EC/JG

Sample ID: SAFC 01

Station ID: JP-PAC-009 (PENETRATOR)

JP-PNAC-009 (SOIL)

Collection Date: 10/27/08

Collection Time: 1020

Property Name: JPG

Sample Location: WESTERN SIDE OF

CENTER TRENCH

Northing (units): 4303956.89

Easting (units): 637647.69

Cover Depth (ft): 0.5 - 1.0

Sample Type: SOIL

Sample Collection Method: HAND AUGER/TROWEL  
COMPOSITE

Sample Depth: 0.5 - 1.0

Soil Type: COMPOST FORK (CO)

Rad Screen Instrument: 44-9-B (SERIAL # 211355)  
MR-A (SERIAL # 207483)

Rad Screen Bkg. (cpm): 62 cpm

Rad Screen (cpm): 1713 cpm

DOSE RATE: 50 mR (waist high) CONTACT POINT 450 mR

Comments: SILT LOAM - SAME AS ABOVE UNTIL ~0.9 FT BGS

0.9'-1.0' SILT LOAM: DRY, CRUMBLY, FRIABLE, WEAK STRUCTURE

10/16/2 LIGHT GRAY BROWN - SOME IRON ACCUMULATIONS IN  
POCKETS - 10/13/6 YELLOWISH BROWN

Recorded by: Amanda Hunter 10/27/08 QA by:

Date:

10/27/00  
COC No.:  
Task Team Members: AT | DLL | DDL | ~~AC~~ | EC | JG | RM

Sample ID: SHC02 Station ID: JP-PAC-009 (PENETRATOR)  
JP-PNAC-009 (SOIL)

Collection Date: 10/27/08 Collection Time: 1028

Property Name: JPG Sample Location: WESTERN SIDE OF  
CENTER TRENCH

Northing (units): 4303956.89 Easting (units): 637047.69

Cover Depth (ft): 1.0' - 1.5' Sample Type: SOIL

Sample Collection Method: HAND AXER / TROWEL Sample Depth: 1.0' - 1.5' bgs  
COMPOSITE

Soil Type: COBASPOK (CO) Rad Screen Instrument: 44-9-B (serial# 211355)  
MR (serial# 207483)

Rad Screen Bkg. (cpm): 62 cpm Rad Screen (cpm): ~~536 cpm~~ 144 cpm

DOSE: Bkg - 50 uR, CONTACT POINT - 450 uR  
Comments: SILT LOAM; DRY; CRUMBLY; SOFT/LOOSE; FRIABLE; WEAK STRUCTURE  
10YR10/2 LIGHT GRAY BROWN w/ SOME 10YR5/10 IRON ACCUMULATIONS  
IRON ACCUMULATIONS INCREASE w/ DEPTH

Recorded by: Amanda Jantos 10/27/08 QA by:

Date:

10/27/00  
COC No.:  
Task Team Members: AT | DLL | DDL | ~~AC~~ | EC | JG | RM

Sample ID: SHC03 Station ID: JP-PAC-009 (PENETRATOR)  
JP-PNAC-009 (SOIL)

Collection Date: 10/27/08 Collection Time: 1040

Property Name: JPG Sample Location: WESTERN SIDE OF  
CENTER TRENCH

Northing (units): 4303956.89 Easting (units): 637047.69

Cover Depth (ft): 1.5' - 2.5' bgs Sample Type: SOIL

Sample Collection Method: HAND AXER / TROWEL Sample Depth: 1.5' - 2.5' bgs  
COMPOSITE

Soil Type: COBASPOK (CO) Rad Screen Instrument: 44-9-B (serial# 211355)  
MR (serial# 207483)

Rad Screen Bkg. (cpm): 62 cpm Rad Screen (cpm): 132 cpm

DOSE: Bkg - 50 uR, CONTACT POINT - 450 uR  
Comments: SILT LOAM; DRY; MEDIUM STIFF; WEAK STRUCTURE  
10YR10/2 LIGHT GRAY BROWN w/ SOME 10YR5/10 IRON ACCUMULATIONS -  
SLIGHT INCREASE IN IRON ACCUMULATIONS w/ DEPTH; 10YR7/1 LIGHT  
GRAY DEPLETIONS  
REFUSAL AT 2.0 FT - RELOCATE BOREHOLE TO SOUTH EAST SIDE OF PENETRATOR

Recorded by: Amanda Jantos 10/27/08 QA by:

Date:

Task Team Members: AT | DLL | DDL | ~~AT~~ | EC | SG | RM | <sup>10/27/08</sup> COC No.: \_\_\_\_\_

Sample ID: SAIC04 Station ID: JP-PAC-009 (PENETRATOR)  
JP-PNAC-009 (SOIL)

Collection Date: 10/27/08 Collection Time: 1651

Property Name: JPC Sample Location: WESTERN SIDE OF  
CENTER TRENCH

Northing (units): 4303956.89 Easting (units): 637047.69

Cover Depth (ft): 2.5' - 4.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 2.5' - 4.5'  
TROWEL COMPOSITE

Soil Type: COBBSEFORK (Co) Rad Screen Instrument: 44-9-B (serial # 211355)  
MR (serial # 207483)

Rad Screen Bkg. (cpm): 02 cpm Rad Screen (cpm): 162 cpm

DOSE RATE: Bkg - 50 uR (least high); CONTACT POINT - 450 uR  
Comments: SILT LOAM, DRY, MEDIUM STIFF, TRIABLE 10YR7/1 LIGHT GRAY DEPLETIONS  
10YR6/2 LIGHT BROWNISH GRAY W/ SOME 10YR5/10 YELLOWISH BROWN IRON AC  
AT 4.0 FT BOS COLOR IS 10YR3/10 DARK YELLOWISH BROWN

BORING TERMINATED AT 4.5 FT BOS

Recorded by: Amanda Wetz 10/27/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

Task Team Members: AT | DLL | DDL | ~~AT~~ | EC | SG | RM | <sup>10/27/08</sup> COC No.: \_\_\_\_\_

Sample ID: SAIC01 Station ID: JP-PAC-001 (PENETRATOR)  
JP-PNAC-001 (SOIL); JP-KAC-001 (Kd)

Collection Date: 10/27/08 Collection Time: 1143

Property Name: JPC Sample Location: WESTERN SIDE OF CENTER TRENCH  
- ALONG ENTIRE LENGTH OF PENETRATOR

Northing (units): 4303939.34 Easting (units): 637045.69

Cover Depth (ft): 0.0' - 0.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.0' - 0.5'  
TROWEL COMPOSITE

Soil Type: COBBSEFORK (Co) Rad Screen Instrument: 44-9-B (serial # 211355)  
MR (serial # 207483)

Rad Screen Bkg. (cpm): 59 cpm Rad Screen (cpm): 18228 cpm

DOSE: GENERAL AREA 70 uR CONTACT POINT: 850 uR  
Comments: SILT LOAM, TOP 1" IS ROOTS/LEAVES. DRY, CRUMBLY,  
TRIABLE, WEAK STRUCTURE. MANY FINE ROOTS; LITTLE YELLOW CORROSION  
ON SOIL FROM PENETRATOR; 10YR5/3 BROWN

Recorded by: Amanda Wetz 10/27/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

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Sample I  
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Property  
Northing  
Cover De  
Sample C  
Soil Type  
Rad Scre  
DOSE  
Comment  
LIGHT  
Recorded

Task Tea  
Sample II  
Collection  
Property I  
Northing I  
Cover De  
Sample C  
Soil Type:  
Rad Scre  
DOSE  
Comment  
10YR6  
10YR  
Recorded



COC No.: 10/27/08

Task Team Members: AT/IDL/DDL/PAC/EC/JG/RM

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Sample ID: SATC02 Station ID: JP-PAC-001 (Penetrator)  
JP-PNAC-001 (SOIL); JP-KAC-001 (Kd)

Collection Date: 10/27/08 Collection Time: 1156

Property Name: JPG Sample Location: WESTERN SIDE OF CENTER TRENCH  
ALONG ENTIRE LENGTH OF PENETRATOR

Northing (units): 4303939.34 Easting (units): 637645.69

Cover Depth (ft): 0.5-1.0 Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.5'-1.0'  
TROWEL COMPOSITE

Soil Type: CORRUSFORK (Co) Rad Screen Instrument: 44-9-B (serial # 211355)  
WR (SERIAL # 207493)

Rad Screen Bkg. (cpm): 59cpm Rad Screen (cpm): 5125cpm

DOSE RATE: GENERAL AREA TOUR; CONTACT POINT: 950 uR

Comments: SILT LOAM; DRY; CRUMBLY; FRAGILE; WEAK STRUCTURE; 10YR6/2  
LIGHT GRAYISH BROWN - LITTLE 10YR5/3 BROWN; FEW ROOTS THROUGHOUT

Recorded by: Amanda Smith 10/27/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

COC No.: 10/27/08

Task Team Members: AT/IDL/DDL/PAC/EC/JG/RM

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Sample ID: SATC03 Station ID: JP-PAC-001 (PENETRATOR)  
JP-PNAC-001 (SOIL); JP-KAC-001 (Kd)

Collection Date: 10/27/08 Collection Time: 1202

Property Name: JPG Sample Location: WESTERN SIDE OF CENTER TRENCH  
ALONG ENTIRE LENGTH OF PENETRATOR

Northing (units): 4303939.34 Easting (units): 637645.69

Cover Depth (ft): 1.0'-2.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 1.0'-2.0'  
TROWEL COMPOSITE

Soil Type: CORRUSFORK (Co) Rad Screen Instrument: 44-9-B (serial # 211355)  
WR (SERIAL # 207493)

Rad Screen Bkg. (cpm): 59cpm Rad Screen (cpm): 329cpm

DOSE RATE: GENERAL AREA TOUR; CONTACT POINT: 850 uR

Comments: SILT LOAM; DRY; CRUMBLY; MEDIUM STIFF; LITTLE 10YR7/1 LIGHT GRAY DRAPED  
10YR6/2 LIGHT GRAYISH BROWN WITH LITTLE POCKETS OF IRON ACCUMULATIONS  
10YR5/6 YELLOWISH BROWN

Recorded by: Amanda Smith 10/27/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

10/27/08 COC No.:

Task Team Members: AT | DLL | DDL | ~~AT~~ | EC | SG | RM

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Sample ID: SAIC04 Station ID: JP-PAC-001 (PENETRATOR)  
 JP-PNAC-001 (SOIL); JP-KAC-001 (KA)

Collection Date: 10/27/08 Collection Time: ~~JP-PAC-001~~ 12:00

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Property Name: JPG Sample Location: WEST OF CENTER TRENCH  
 ALONG ENTIRE LENGTH OF PENETRATOR

Northing (units): 4303939.34 Easting (units): 037045.09

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Cover Depth (ft): 2.0' - 4.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 2.0' - 4.0'  
 TROWEL COMPOSITE

Soil Type: COBBLESTONK (C) Rad Screen Instrument: 44-9-B (SERIAL# 211355)  
 MR (SERIAL# 207493)

Rad Screen Bkg. (cpm): 59cpm

Rad Screen (cpm): 334cpm

DOSE RATE: BKG - 70uR; CONTACT POINT 850uR  
 Comments: SILT LOAM; LITTLE FINE ROOTS; DRY; CRUMBLY, FRIABLE  
 MEDIUM STIFF

10YR02 LIGHT GRAYISH BROWN 10YR02/2M LENSES OF IRON ACCUMULATIONS  
 AT 3.05 FT INCREASE IN IRON ACCUMULATIONS - 10YR3/0 DARK YELLOWISH BROWN

Recorded by: Amanda Juten 10/27/08 QA by:

Date:

COC No.:

Task Team Members: AT | DLL | DDL | EC | SG | RM

Sample ID: SAIC01 Station ID: JP-PAC-002 (PENETRATOR)  
 JP-PNAC-002 (SOIL); JP-KAC-002 (KA)

Collection Date: 10/27/08 Collection Time: 1239

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Property Name: JPG Sample Location: WEST OF CENTER TRENCH

Northing (units): 4303930.07 Easting (units): 037049.04

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Cover Depth (ft): 0.0' - 0.5' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.0' - 0.5'  
 TROWEL COMPOSITE

Soil Type: COBBLESTONK (C) Rad Screen Instrument: 44-9-B (SERIAL# 211355)  
 MR (SERIAL# 207493)

Rad Screen Bkg. (cpm): 94cpm

Rad Screen (cpm): 898cpm

DOSE: 10YR02 (GENERAL AREA); 10YR02/2M (CONTACT POINT)

Comments: SILT LOAM; DRY; TOP 1" IS ROOTS/ORGANICS; CRUMBLY  
 10YR5/3 BROWN; WEAK STRUCTURE; ROOTS - FINE/MED THROUGHOUT; SOME  
 YELLOW CORROSION FROM PENETRATOR IS IN SOIL

PENETRATOR WAS LOCATED ON THE SURFACE - COVERED ONLY BY LEAVES, ROOTS, GRASS  
 Recorded by: Amanda Juten 10/27/08 QA by: Date:

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COC No.:

Task Team Members: AT/DLL/DDL/EC/JG/RM

Sample ID: SAIC02

Station ID: JP-PAC-002 (PENETRATOR)

JP-PNAC-002 (SOIL); JP-KAC-002 (Kd)

Collection Date: 10/27/08

Collection Time: 1249

Property Name: JPG

Sample Location: WEST OF CENTER TRENCH

Northing (units): 4303930.07

Easting (units): 637648.64

Cover Depth (ft): 0.5-1.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER

Sample Depth: 0.5' - 1.0'

TROWEL COMPOSITE

Soil Type: CROSS-FORK (C.O.)

Rad Screen Instrument: 44-9-B (SERIAL # 211355)

MR (SERIAL # 207483)

Rad Screen Bkg. (cpm): 94 cpm

Rad Screen (cpm): 1674 cpm

DOSE RATE: 6000 R (Bkg) ; 6000 R (CONTACT POINT)

Comments: SILT LOAM: DRY-CRUMBLY: FINE ROOTS THROUGHOUT: 10YR5/3 BROWN  
 AT 24" BGS COLOR IS 10YR6/2 LIGHT GRAYISH BROWN W/ LITTLE (10-15%)  
 LENSES OF IRON ACCUMULATIONS (10YR5/10 YELLOWISH BROWN)

Recorded by: Amanda Jinks 10/27/08 QA by:

Date:

COC No.:

Task Team Members: AT/DLL/DDL/EC/JG/RM

Sample ID: SAIC03

Station ID: JP-PAC-002 (PENETRATOR)

JP-PNAC-002 (SOIL); JP-KAC-002 (Kd)

Collection Date: 10/27/08

Collection Time: 1301

Property Name: JPG

Sample Location: WEST OF CENTER TRENCH

Northing (units): 4303930.07

Easting (units): 637648.64

Cover Depth (ft): 1.0' - 2.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER

Sample Depth: 1.0' - 2.0'

TROWEL COMPOSITE

Soil Type: CROSS-FORK (C.O.)

Rad Screen Instrument: 44-9-B (SERIAL # 211355)

MR (SERIAL # 207483)

Rad Screen Bkg. (cpm): 94 cpm

Rad Screen (cpm): 171 cpm

DOSE RATE: Bkg - 1000 R CONTACT POINT - 6000 R

Comments: SILT LOAM: DRY; MEDIUM STIFF: CRUMBLY  
 10YR6/2 LIGHT BROWNISH GRAY: LITTLE DEPLECTIONS 10YR7/1 LIGHT GRAY;  
 MANY IRON ACCUMULATIONS: 10YR5/10 YELLOWISH BROWN

Recorded by: Amanda Jinks 10/27/08 QA by:

Date:

COC No.:	
Task Team Members: AT  DDL DL EC SG RM	
Sample ID: SPEC 04	Station ID: JP-PAC-002 (PENETRATOR)
Collection Date: 10/27/08	Collection Time: 1309
Property Name: JRG	Sample Location: WEST OF CENTER TRENCH
Northing (units): 4303930.07	Easting (units): 637648.44
Cover Depth (ft): 2.0' - 4.0'	Sample Type: SOIL
Sample Collection Method: HAND AUGER	Sample Depth: 2.0' - 4.0'
Soil Type: COBBLESTONE (CO)	Rad Screen Instrument: 449-B (Serial #211355)
	MR (Serial #207483)
Rad Screen Bkg. (cpm): 94 cpm	Rad Screen (cpm): 141 cpm
DOSE RATE: 6000 R (Bkg) : 6000 R (CONTACT PAINT)	
Comments: SILT LOAMY DRY: MEDIUM STIFF: FRIABLE	
104R102 LIGHT BROWNISH GRAY W/ 104R516 YELLOWISH BROWN	
IRON ACCUMULATIONS	

AT 3.9 FT SOIL IS 104R316 DARK YELLOWISH BROWN  
 Recorded by: Amanda J. 10/27/08 QA by: Date:

COC No.:	
Task Team Members: AT  DDL DL EC SG RM	
Sample ID: SPEC 05	Station ID: JP-PAC-006 (PENETRATOR)
Collection Date: 10/27/08	Collection Time: 1546
Property Name: JRG	Sample Location: WEST OF CENTER TRENCH
Northing (units): 4303905.54	Easting (units): 637641.32
Cover Depth (ft): 0 - 2"	Sample Type: SOIL
Sample Collection Method: TROWEL	Sample Depth: 0.0' - 2"
Soil Type: COBBLESTONE (CO)	Rad Screen Instrument: 449-B (Serial #211355)
	MR (Serial #207483)
Rad Screen Bkg. (cpm): 60 cpm	Rad Screen (cpm): 15098 cpm
DOSE: GENERAL AREA - 7000 R : CONTACT PAINT - 1MR	
Comments: ROOTS, LEAVES + SILT. 104R313 DARK BROWN, DRY, CRUMBLY.	
SOME YELLOW OXIDATION FROM PENETRATOR IS IN SOIL.	

Recorded by: Amanda J. 10/27/08 QA by: Date:

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Comments:
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COC No.:

Task Team Members: AT | DDL | DEL | EG | JG | RM

Sample ID: SAIC01

Station ID: JP-PAC-0006 (PENETRATOR)

Collection Date: 10/31/08

JP-PNAC-0006 (SOIL); JP-KAC-0006 (Kd)

Collection Time: 1554

Property Name: JPG

Sample Location: WEST OF CENTER TRENCH

Northing (units): 4303905.54

Easting (units): 637641.32

Cover Depth (ft): 0.15' - 0.5'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
TROWEL COMPOSITE

Sample Depth: 2" - 10" / 0.15' - 0.5'

Soil Type: CORROSION (Co)

Rad Screen Instrument: 44-9-B (Serial # 211355)  
MR (Serial # 207493)

Rad Screen Bkg. (cpm): 66 cpm

Rad Screen (cpm): 743 cpm

DOSE RATE: Bkg-66 TO MR: CONTACT POINT: 1mR

Comments: SILT; DRY; CRUMBLY, LOOSE; LITTLE VISIBLE CORROSION FROM  
PENETRATOR; 10YR3/3 DARK BROWN, SOME FINE ROOTS, TRACE  
FINE GRAVEL

Recorded by: Amanda Jute 10/27/08 QA by:

Date:

COC No.:

Task Team Members: AT | DDL | DU | EC | JG | RM

Sample ID: SAIC02

Station ID: JP-PAC-0006 (PENETRATOR)

Collection Date: 10/27/08

JP-PNAC-0006 (SOIL); JP-KAC-0006 (Kd)

Collection Time: 1602

Property Name: JPG

Sample Location: WITHIN DU - ALONG CENTER TRENCH  
WEST OF CENTER TRENCH

Northing (units): 4303905.54

Easting (units): 637641.32

Cover Depth (ft): 0.5' - 1.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
TROWEL COMPOSITE

Sample Depth: 0.5' - 1.0'

Soil Type: CORROSION (Co)

Rad Screen Instrument: 44-9-B (Serial # 211355)  
MR (Serial # 207493)

Rad Screen Bkg. (cpm): 66 cpm

Rad Screen (cpm): 856 cpm

DOSE: GENERAL AREA (TO MR) + CONTACT POINT: 1mR

Comments: SILT LOAM, DRY, FRIABLE; SOFT; WAXY STRUCTURE  
10YR6/2 LIGHT GRAYISH BROWN w/ 10YR4/10 DARK YELLOWISH BROWN  
IRON ACCUMULATIONS LITTLE 10YR3/3 DARK BROWN

Recorded by: Amanda Jute 10/27/08 QA by:

Date:

COC No.:

Task Team Members: AT IDL IDDL ECLTGIRM

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Sample ID: SACC03 Station ID: JP-PAC-0006 (PENETRATOR)  
JP-PNAC-0006 (SOIL) JP-KAC-0006 (K)

Collection Date: 10/27/08 Collection Time: 1609

Property Name: JPG Sample Location: WEST OF CENTER TRENCH

Northing (units): 4303865.54 Easting (units): 037041.32

Cover Depth (ft): 1.0' - 2.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 1.0' - 2.0'

Soil Type: CUBBSFORK Rad Screen Instrument: 44-9-B (SERIAL# 211355)  
MRA (SERIAL# 207493)

Rad Screen Bkg. (cpm): 66 cpm Rad Screen (cpm): 144 cpm

DOSE RATE: BKG-70uR CONTACT POINT-1mR  
Comments: SILT LOAM DRY SOFT FRIABLE WEAK STRUCTURE  
10YR6/2 LIGHT BROWNISH GRAY SOME 10YR5/6 YELLOWISH  
BROWN IRON ACCUMULATIONS

Recorded by: Amanda Hunt 10/27/08 QA by:

Date:

Recorded

COC No.:

Task Team Members: AT IDL IDDL ECLTGIRM

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Sample ID: SACC04 Station ID: JP-PAC-0006 (PENETRATOR)  
JP-PNAC-0006 (SOIL) JP-KAC-0006 (K)

Collection Date: 10/27/08 Collection Time: 1615

Property Name: JPG Sample Location: WEST OF CENTER TRENCH

Northing (units): 4303865.54 Easting (units): 037041.32

Cover Depth (ft): 2.0' - 4.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 2.0' - 4.0'

Soil Type: CUBBSFORK Rad Screen Instrument: 44-9-B (SERIAL# 211355)  
MRA (SERIAL# 207493)

Rad Screen Bkg. (cpm): 66 cpm Rad Screen (cpm): 122 cpm

DOSE RATE: BKG-70uR CONTACT POINT-1mR  
Comments: SILT LOAM DRY MEDIUM STIFF FRIABLE  
10YR6/2 DARK LIGHT GRAYISH BROWN w/ LENSES OF IRON ACCUMULATIONS  
10YR5/6 YELLOWISH BROWN AT ~3.5 FT BGS COLOR IS MOSTLY 10YR3/6  
DARK YELLOWISH BROWN w/ LITTLE 10YR4/2 DARK GRAYISH BROWN

Recorded by: Amanda Hunt 10/27/08 QA by:

Date:

Recorded

COC No.:

Task Team Members: AT IDL/DDLE/EC/JG/RM

Sample ID: SAEC01

Station ID: JP-PAC-003 (PENETRATOR)

JP-PAC-003 (SOIL); JP-KAC-003 (KA)

Collection Date: 10/27/08

Collection Time: 1714

Property Name: JPC

Sample Location: WEST OF CENTER TRENCH

Northing (units): 4303995.44

Easting (units): 6371044.70

Cover Depth (ft): 0.0' - 0.5'

Sample Type: SOIL

Sample Collection Method: HAND AUGER / TROWEL  
COMPOSITE

Sample Depth: 0.0 - 0.5

Soil Type: COBBLESTONE (CO)

Rad Screen Instrument: 44-9-B (Serial# 211355)

UR-A (Serial# 207483)

Rad Screen Bkg. (cpm): 85cpm

Rad Screen (cpm): 14854

DOSE (uR) CONTACT AREA: 700uR; GENERAL AREA: 600uR

Comments: SILT LOAM; DRY; LOOSE; FRIABLE; WEAK STRUCTURE

10YR5/3 BROWN; SOME YELLOW OXIDATION FROM PENETRATOR IS IN SOIL.

Recorded by: Amanda Justin 10/27/08

QA by:

Date:

COC No.:

Task Team Members: AT IDL/DDLE/EC/JG/RM

Sample ID: SAEC02

Station ID: JP-PAC-003 (PENETRATOR)

JP-PAC-003 (SOIL); JP-KAC-003 (Kd)

Collection Date: 10/27/08

Collection Time: 1721

Property Name: JPC

Sample Location: WEST OF CENTER TRENCH

Northing (units): 4303995.44

Easting (units): 6371044.70

Cover Depth (ft): 0.5' - 1.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
TROWEL COMPOSITE

Sample Depth: 0.5 - 1.0

Soil Type: COBBLESTONE (CO)

Rad Screen Instrument: 44-9-B (Serial# 211355)

UR-A (Serial# 207483)

Rad Screen Bkg. (cpm): 85cpm

Rad Screen (cpm): 2183cpm

DOSE RATE: BKG - 100uR; CONTACT POINT - 700uR

Comments: SILT LOAM; DRY; LOOSE/SOFT; FRIABLE; WEAK STRUCTURE

10YR5/2 DARK GRAY BROWN; LENSES OF IRON ACCUMULATIONS 10YR5/6  
YELLOWISH BROWN

Recorded by: Amanda Justin 10/27/08

QA by:

Date:

COC No.:	
Task Team Members: AT   DDL   DL   EC   JG   RM	
Sample ID: SAIC03	Station ID: JP-PAC-003 (PENETRATOR)
Collection Date: 10/27/08	Collection Time: 1728
Property Name: JPG	Sample Location: WEST OF CENTER TRENCH
Northing (units): 4303993.94	Easting (units): 10371044.70
Cover Depth (ft): 1.0' - 2.0'	Sample Type: SOIL
Sample Collection Method: HAND AUGER	Sample Depth: 1.0' - 2.0'
Soil Type: COBBLESTON (C)	Rad Screen Instrument: 449-B (SERIAL # 211355)
	MR-A (SERIAL # 207493)
Rad Screen Bkg. (cpm): 85 cpm	Rad Screen (cpm): 359 cpm
DOSE RATE: BKG - 100 uR CONTACT POINT - 700 uR	
Comments: SILT LOAM; DAMP; SOFT; MEDIUM STRUCTURE	
10YR5/2 GRAYISH BROWN W/ LITTLE 10YR5/6 YELLOWISH BROWN IRON ACCUMULATIONS	

Recorded by: Amanda Jute 10/27/08 QA by: Date:

COC No.:	
Task Team Members: AT   DDL   DL   EC   JG   RM	
Sample ID: SAIC04	Station ID: JP-PAC-003 (PENETRATOR)
Collection Date: 10/27/08	Collection Time: 1733
Property Name: JPG	Sample Location: WEST OF CENTER TRENCH
Northing (units): 4303995.94	Easting (units): 10371044.70
Cover Depth (ft): 2.0' - 4.0'	Sample Type: SOIL
Sample Collection Method: HAND AUGER	Sample Depth: 2.0' - 4.0'
Soil Type: COBBLESTON (C)	Rad Screen Instrument: 449-B (SERIAL # 211355)
	MR-A (SERIAL # 207493)
Rad Screen Bkg. (cpm): 85 cpm	Rad Screen (cpm): 119 cpm
DOSE RATE: BKG - 100 uR CONTACT POINT - 700 uR	
Comments: SILT LOAM; DAMP; SOFT TO MEDIUM STIFF (STIFFNESS INCREASES WITH DEPTH); 10YR5/2 GRAYISH BROWN W/ 10YR5/6 YELLOWISH BROWN IRON ACCUMULATIONS	
AT 3.25 FT BGS SOIL IS 10YR3/6 DARK YELLOWISH BROWN W/ LITTLE 10YR5/2 BROWN	
Recorded by: Amanda Jute 10/27/08 QA by: Date:	



COC No.:

Task Team Members: AT/DDLDL/EC/JGIRM

Sample ID: SAIC05

Station ID: JP-PAC-007 (PENETRATOR)

Collection Date: 10/20/09

Collection Time: 0902

Property Name: JPG

Sample Location: WESTERN SIDE OF  
CENTER TRENCH

Northing (units): 4304012.87

Easting (units): 637630.77

Cover Depth (ft): 0.0' - 0.35'

Sample Type: SOIL

Sample Collection Method: HAND AXE/TROWEL

Sample Depth: 0.0' - 0.35' (0.4')

Soil Type: COMPOST (CO)

Rad Screen Instrument: 44-G-A (SERIAL#212044)  
MR-B (SERIAL#209740)

Rad Screen Bkg. (cpm): 80cpm

Rad Screen (cpm): 3775cpm

DOSE: Bkg - 0.002R CONTACT - 0.002R

Comments: SILT: MANY FINE ROOTS + ORGANICS IN THE TOP 1" LOOSE;  
DAMP: FRIABLE, WEAK STRUCTURE, 10YR3/3 DARK BROWN

Recorded by: Amanda Santa 10/20/09

QA by:

Date:

COC No.:

Task Team Members: AT/DDLDL/EC/JGIRM

Sample ID: SAIC01

Station ID: JP-PAC-007 (PENETRATOR)

Collection Date: 10/20/09

Collection Time: 0913

Property Name: JPG

Sample Location: WESTERN SIDE OF CENTER TRENCH

Northing (units): 4304012.87

Easting (units): 637630.77

Cover Depth (ft): 0.35' - 0.5'

Sample Type: SOIL

Sample Collection Method: HAND AXE/TROWEL  
COMPOSITE

Sample Depth: 0.35' - 0.5'

Soil Type: COMPOST (CO)

Rad Screen Instrument: 44-G-A (SERIAL#212044)  
MR-B (SERIAL#209740)

Rad Screen Bkg. (cpm): 80cpm

Rad Screen (cpm): 22986cpm

DOSE: Bkg - 0.002R CONTACT - 0.002R

Comments: SILT: SAME AS ABOVE WITH 0.75 FEET AMT 10YR3/3  
SOME FINE ROOTS, LOOSE, DAMP, SOFT: 10YR3/3 DARK BROWN

Recorded by: Amanda Santa 10/20/09

QA by:

Date:

COC No.:	
Task Team Members: AT/DDL/DLL/EC/JG/RM	
Sample ID: SATC02	Station ID: JP-PAC-007 (PENETRATOR)
Collection Date: 10/28/08	Collection Time: 0922
Property Name: JPG	Sample Location: WESTERN SIDE OF CANINE TRENCH
Northing (units): 4304012.87	Easting (units): 637630.77
Cover Depth (ft): 0.5' - 1.0'	Sample Type: SOIL
Sample Collection Method: HAND AUGER/TROWEL COMPOSITE	Sample Depth: 0.5-1.0'
Soil Type: COARSE FINE (CO)	Rad Screen Instrument: 44-9-A (Serial # 209744) MR-1 (Serial # 209744)
Rad Screen Bkg. (cpm): 80 cpm	Rad Screen (cpm): 1390 cpm
DOSE: BKG - 0.02 uR CONTACT POINT - 0.02 uR	
Comments: SILT LOAM: DAMP; SOFT; TRACE ROOTS THROUGHOUT WEAK TO MEDIUM STRUCTURE: 10YR10/2 LIGHT BROWNISH GRAY W/ 10YR5/6 YELLOWISH BROWN IRON ACCUMULATIONS	

Recorded by: Amanda Jute 10/28/08 QA by: Date:

COC No.:	
Task Team Members: AT/DDL/DLL/EC/JG/RM	
Sample ID: SATC03	Station ID: JP-PAC-007 (PENETRATOR)
Collection Date: 10/28/08	Collection Time: 0900
Property Name: JPG	Sample Location: WESTERN SIDE OF CANINE TRENCH
Northing (units): 4304012.87	Easting (units): 637630.77
Cover Depth (ft): 1.0' - 2.0'	Sample Type: SOIL
Sample Collection Method: HAND AUGER/TROWEL COMPOSITE	Sample Depth: 1.0' - 2.0'
Soil Type: COARSE FINE (CO)	Rad Screen Instrument: 44-9-A (Serial # 209744) MR-B (Serial # 209744)
Rad Screen Bkg. (cpm): 80 cpm	Rad Screen (cpm): 200 cpm
DOSE: Bkg - 0.02 uR CONTACT POINT - 0.02 uR	
Comments: SILT LOAM: DAMP; SOFT; WEAK TO MEDIUM STRUCTURE: 10YR0/1 LIGHT GRAY W/ 10YR1/1 LIGHT GRAY DEPLECTIONS + 10YR5/6 YELLOWISH BROWN IRON ACCUMULATIONS	
Recorded by: Amanda Jute 10/28/08 QA by: Date:	

COC No.:

Task Team Members: AT/DDL/DLL/EC/SG/RM

Sample ID: SAIC04

Station ID: JP-PAC-007 (PENETRATOR)

JP-PNAC-007 (SOIL) : JP-KAC-007 (K0)

Collection Date: 10/29/08

Collection Time: 0933

Property Name: JPG

Sample Location: WESTERN SIDE OF CENTER TRENCH

Northing (units): 4304012.87

Easting (units): 637630.77

Cover Depth (ft): 2.0' - 4.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER/TROWEL

Sample Depth: 0.0' - 4.0'

Soil Type: COBBLEFORK (Co)  
COMPOSITE

Rad Screen Instrument: 44-9-A (Serial #312044)

MR-B (Serial #009740)

Rad Screen Bkg. (cpm): 80 cpm

Rad Screen (cpm): 1390 cpm 99 cpm

DOSE: BKG - 0.00 uR CONTACT POINT - 0.00 uR

Comments: SILT LOAM: DAMP, MEDIUM STIFF, MEDIUM STRUCTURE, MEDIUM

PLASTICITY: 10YR01 LIGHT GRAY W/ 10YR5/6 IRON ACCUMULATIONS + 10YR7/1

LIGHT GRAY DEPLECTIONS

Recorded by: Amanda Smith 10/28/08

QA by:

Date:

COC No.:

Task Team Members: AT/DDL/DLL/EC/SG/RM

Sample ID: SAIC01

Station ID: JP-PAC-004 (PENETRATOR)

JP-PNAC-004 (SOIL) : JP-KAC-004 (K0)

Collection Date: 10/28/08

Collection Time: 1028

Property Name: JPG

Sample Location: WESTERN SIDE OF CENTER TRENCH

Northing (units): 4304002.30

Easting (units): 637631.17

Cover Depth (ft): 0.0' - 0.5'

Sample Type: SOIL

Sample Collection Method: HAND AUGER/TROWEL

Sample Depth: 0.0' - 0.5'

Soil Type: COBBLEFORK (Co)

Rad Screen Instrument: 44-9-A (Serial #312044)

MR-B (Serial #009740)

Rad Screen Bkg. (cpm): 43 cpm

Rad Screen (cpm): 10404 cpm

DOSE: BKG - 0.05 uR CONTACT POINT - 9.00 uR

Comments: 0.0' - 0.4' SILT, MANY FINE ROOTS, DAMP TO DRY, TRIABLE.

WEAK STRUCTURE 10YR3/3 DARK BROWN, 0.4' - 0.5' - SILT LOAM, SOFT

DRY, TRACE ROOTS, WEAK STRUCTURE, SOFT: 10YR0/2 LIGHT BROWNISH GRAY

+ 10YR5/6 YELLOWISH BROWN IRON ACCUMULATIONS

Recorded by: Amanda Smith 10/28/08

QA by:

Date:

COC No.:

Task Team Members: AT/DDL/DLL/EC/JG/RM

Sample ID: SAIC02

Station ID: JP-PAC-004 (PENETRATOR)

JP-PNAC-004 (SOIL) JP-KAC-004 (K)

Collection Date: 10/28/08

Collection Time: 1032

Property Name: JPG

Sample Location: WESTERN SIDE OF  
CENTER TRENCH

Northing (units): 4304002.310

Easting (units): 637631.17

Cover Depth (ft): 0.5' - 1.0'

Sample Type: SOIL

Sample Collection Method: HAND AXER/TROWEL  
COMPOSITE

Sample Depth: 0.5' - 1.0'

Soil Type: COBBLESTONK (C)

Rad Screen Instrument: 44-9-A (SERIAL # 213044)  
MR-B (SERIAL # 20776)

Rad Screen Bkg. (cpm): 43cpm

Rad Screen (cpm): 1799 cpm

DOSE: BKG - 0.5 uR CONTACT POINT - 900 uR

Comments: SILT LOAM; DRY; LOOSE; FRIABLE; TRACE FINE ROOTS

10YR0/2 LIGHT BROWNISH GRAY w/ SOME 10YR5/6 YELLOWISH BROWN  
IRON ACCUMULATIONS

Recorded by: Amanda Jester 10/28/08

QA by:

Date:

COC No.:

Task Team Members: AT/DDL/DLL/EC/JG/RM

Sample ID: SAIC03

Station ID: JP-PAC-004 (PENETRATOR)

JP-PNAC-004 (SOIL) JP-KAC-004 (K)

Collection Date: 10/28/08

Collection Time: 1037

Property Name: JPG

Sample Location: WESTERN SIDE OF  
CENTER TRENCH

Northing (units): 4304002.310

Easting (units): 637631.17

Cover Depth (ft): 1.0' - 2.0'

Sample Type: SOIL

Sample Collection Method: HAND AXER/TROWEL  
COMPOSITE

Sample Depth: 1.0' - 2.0'

Soil Type: COBBLESTONK (C)

Rad Screen Instrument: 44-9-A (SERIAL # 213044)  
MR-B (SERIAL # 20776)

Rad Screen Bkg. (cpm): 43cpm

Rad Screen (cpm): 235 cpm

DOSE: BKG - 0.5 uR CONTACT POINT - 900 uR

Comments: SILT LOAM; DRY; MEDIUM STIFF; FRIABLE; 10YR0/2 LIGHT  
BROWNISH GRAY w/ 10YR7/1 LIGHT GRAY DEPLECTIONS + 10YR4/6 DARK  
YELLOWISH BROWN IRON ACCUMULATIONS IRON ACCUMULATIONS INCREASE  
WITH DEPTH

Recorded by: Amanda Jester 10/28/08

QA by:

Date:

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COC No.:

Task Team Members: AT/DDI/DL/EC/JG/IRM

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Sample ID: SAIC04 Station ID: JP-PAC-004 (PENETRATOR)  
JP-PAC-004 (SOIL) JP-PAC-004 (Kd)

Collection Date: 10/20/08 Collection Time: 1044

Property Name: JPG Sample Location: WESTERN SIDE OF  
CENTER TRENCH

Northing (units): 4304002.36 Easting (units): 637631.17

Cover Depth (ft): 2.0' - 4.0' Sample Type: SOIL

Sample Collection Method: HAND AXE/TROWEL Sample Depth: 2.0' - 4.0'  
COMPOSITE

Soil Type: COBBLE/CLAY (CO) Rad Screen Instrument: 44-9-A (SERIAL # 212044)  
MR-B (SERIAL # 209740)

Rad Screen Bkg. (cpm): 43cpm Rad Screen (cpm): 175cpm

DOSE: Bkg - 65uR; CONTACT POINT - 900uR

Comments: SILT LOAM; DRY; MEDIUM STIFF; MOSTLY CRUMBLY; 10YR6/2 LIGHT  
BROWNISH GRAY w/ 10YR7/1 LIGHT GRAY DEPLETIONS + 10YR3/6 DARK  
YELLOWISH BROWN IRON ACCUMULATIONS. AT ~3.5' bgs SOIL IS MAINLY  
10YR3/6 DARK YELLOWISH BROWN w/ LITTLE 10YR6/2 + 10YR7/1 (TRACE LIGHT GRAY)

Recorded by: Amanda Junt 10/20/08 QA by: Date:

COC No.:

Task Team Members: AT/DDI/DL/EC/JG/IRM

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Sample ID: SAIC05 Station ID: JP-PAC-010 (PENETRATOR)  
JP-PAC-010 (SOIL)

Collection Date: 10/20/08 Collection Time: 1142

Property Name: JPG Sample Location: EAST OF CENTER TRENCH

Northing (units): 4303986.14 Easting (units): 6376008.96

Cover Depth (ft): 0.0' - 0.15' Sample Type: SOIL

Sample Collection Method: TROWEL Sample Depth: 0.0' - 0.15'  
COMPOSITE

Soil Type: COBBLE/CLAY (CO) Rad Screen Instrument: 44-9-A (SERIAL # 212044)  
MR-B (SERIAL # 209740)

Rad Screen Bkg. (cpm): 64cpm Rad Screen (cpm): 2938cpm

DOSE: Bkg 35uR @ 3FT; 180uR @ 10" ACS; 1.2mR - CONTACT POINT

Comments: SILT. SOME YELLOW CORROSION/OXIDATION FROM PENETRATOR; MANY  
FINE ROOTS; DRY; CRUMBLY; WEAK STRUCTURE  
10YR6/2 LIGHT BROWNISH GRAY

PENETRATOR AT A DEPTH OF 2-3" bgs

Recorded by: Amanda Junt 10/20/08 QA by: Date:

COC No.: \_\_\_\_\_

Task Team Members: AT/DD/IDL/EC/JG/RM

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Sample ID: SAEC 01 Station ID: JP-PAC-010 (PENETRATOR)  
JP-PAC-010 (SOIL)

Collection Date: 10/28/08 Collection Time: 1150

Property Name: JRG Sample Location: EASTERN SIDE OF  
THE CENTER TRENCH

Northing (units): 4303986.14 Easting (units): 6371668.96

Cover Depth (ft): 0.15-0.5 Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.15' - 0.5'  
TROWER COMPOSITE

Soil Type: LOESS/CLAY (LO) Rad Screen Instrument: 449-A (SERIAL #212044)  
MR-B (SERIAL #209740)

Rad Screen Bkg. (cpm): 04cpm Rad Screen (cpm): 2715cpm

DOSE RATE: BKG - 35uR CONTACT POINT - 1.2mR; 19" ABOVE CONTACT - 188uR

Comments: SILT LOAM: DRY; LOOSE; WEAK STRUCTURE; FRIABLE  
10YR6/2 LIGHT BROWNISH GRAY, SOME 10YR7/1 LIGHT GRAY  
DEPLECTIONS; 10YR5/6 YELLOWISH BROWN IRON ACCUMULATIONS

Recorded by: Amanda Jentzen 10/28/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

COC No.: \_\_\_\_\_

Task Team Members: AT/DD/IDL/EC/JG/RM

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Sample ID: SAEC 02 Station ID: JP-PAC-010 (PENETRATOR)  
JP-PAC-010 (SOIL)

Collection Date: 10/28/08 Collection Time: 1154

Property Name: JRG Sample Location: EASTERN SIDE OF  
CENTER TRENCH

Northing (units): 4303986.14 Easting (units): 6371668.96

Cover Depth (ft): 0.5' - 1.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.5' - 1.0'  
TROWER COMPOSITE

Soil Type: LOESS/CLAY (LO) Rad Screen Instrument: 449-A (SERIAL #212044)  
MR-B (SERIAL #209740)

Rad Screen Bkg. (cpm): 04cpm Rad Screen (cpm): 196cpm

DOSE RATE: BKG - 35uR; 18" ABOVE CONTACT - 188uR; CONTACT POINT: 1.2mR

Comments: SILT LOAM: DRY; LOOSE; WEAK STRUCTURE; FRIABLE  
10YR6/2 LIGHT BROWNISH GRAY; SOME 10YR7/1 LIGHT GRAY DEPLECTIONS  
10YR4/6 DARK YELLOWISH BROWN IRON ACCUMULATIONS (A LOT)

Recorded by: Amanda Jentzen 10/28/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

COC No.:

Task Team Members: AT/DDL/DL/EC/JG/RM

Sample ID: SATC03

Station ID: JP-PAC-010 (PENETRATOR)

Collection Date: 10/28/08

Collection Time: 1159

Property Name: JPC

Sample Location: EASTERN SIDE OF  
CENTER TRENCH

Northing (units): 4303906.14

Easting (units): 037068.96

Cover Depth (ft): 1.0' - 2.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
TROWEL COMPOSITE

Sample Depth: 1.0' - 2.0'

Soil Type: COARSESTOCK (LO)

Rad Screen Instrument: 44-9-A (SERIAL# 212044)  
MR-B (SERIAL# 209740)

Rad Screen Bkg. (cpm): 64 cpm

Rad Screen (cpm): 323 cpm

DOSE RATE: BKG - 35 mR; CONTACT POINT - 1.2 mR; 18" ABOVE CONTACT - 188 mR  
 Comments: SILT LOAM; DRY; LOOSE MEDIUM STIFF; WEAK TO MEDIUM  
 STRUCTURE; FRIABLE - 10YR 6/2 LIGHT BROWNISH GRAY SOME 10YR 7/1  
 LIGHT GRAY DEPLETIONS; 10YR 4/6 DARK YELLOWISH BROWN IRON  
 ACCUMULATIONS, INCREASE W/ DEPTH

Recorded by: Amanda Junt 10/28/08 QA by:

Date:

COC No.:

Task Team Members: AT/DDL/DL/EC/JG/RM

Sample ID: SATC04

Station ID: JP-PAC-010 (PENETRATOR)

Collection Date: 10/28/08

Collection Time: 1204

Property Name: JPC

Sample Location: EASTERN SIDE OF  
CENTER TRENCH

Northing (units): 4303906.14

Easting (units): 037068.96

Cover Depth (ft): 2.0' - 4.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER  
TROWEL COMPOSITE

Sample Depth: 2.0' - 4.0'

Soil Type: COARSESTOCK (LO)

Rad Screen Instrument: 44-9-A (SERIAL# 212044)  
MR-B (SERIAL# 209740)

Rad Screen Bkg. (cpm): 64 cpm

Rad Screen (cpm): 124 cpm

DOSE RATE: BKG - 35 mR; CONTACT POINT - 1.2 mR; 18" ABOVE CONTACT - 188 mR  
 Comments: SILT LOAM - SOME FS ABOVE TO ~ 3.25 FT BGS  
 3.25' - 4.0' SILT LOAM DRY, MEDIUM STRUCTURE - LOOSE TO MEDIUM  
 STIFF; CRUMBLY; 10YR 4/6 DARK YELLOWISH BROWN IRON  
 ACCUMULATIONS; SOME 10YR 7/1 LIGHT GRAY DEPLETIONS + SOME  
 10YR 6/2 LIGHT BROWNISH GRAY

Recorded by: Amanda Junt 10/28/08 QA by:

Date:

COC No.: \_\_\_\_\_

Task Team Members: AT / DDL / DLL / EC / JG / RM

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Sample ID: SPAC05 Station ID: JP-PAC-008 (PENETRATOR)

Collection Date: 10/28/08 SOIL: JP-PAC-008; Kd - JP-KAC-008

Collection Time: 1421

Property Name: JPG Sample Location: WESTERN SIDE OF CENTER TRENCH

Northing (units): 4304197.96 Easting (units): 637040.18

Cover Depth (ft): 0.0 - 0.25 Sample Type: SOIL

Sample Collection Method: TROWEL Sample Depth: 0.0 - 0.25

Soil Type: ~~COMPUSITE~~ ~~COMPUSITE~~ Rad Screen Instrument: 44-9-A (Serial # 212044)

AVONBURG (AVA) WR-B (Serial # 209740)

Rad Screen Bkg. (cpm): 150 cpm Rad Screen (cpm): 9433 cpm

DOSE - Bkg: 25 uR; 18" - 100 uR; CONTACT POINT - 800 uR

Comments: SILT; 42 uR CORROSION FROM PENETRATOR; DRY; LOOSE; 10YR/2 LIGHT BROWNISH GRAY; WEAK STRUCTURE; FRIABLE; MANY FINE ROOTS

Recorded by: Amanda Just 10/28/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_

COC No.: \_\_\_\_\_

Task Team Members: AT / DDL / DLL / EC / JG / RM

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Sample ID: SPAC01 Station ID: JP-PAC-008 (PENETRATOR)

Collection Date: 10/28/08 SOIL: JP-PAC-008; Kd - JP-KAC-008

Collection Time: 1429

Property Name: JPG Sample Location: WEST OF CENTER TRENCH

Northing (units): 4304197.96 Easting (units): 637040.18

Cover Depth (ft): 0.25 - 0.5 Sample Type: SOIL

Sample Collection Method: HANDS AUGER Sample Depth: 0.25 - 0.5

Soil Type: ~~COMPUSITE~~ ~~COMPUSITE~~ Rad Screen Instrument: 44-9-A (Serial # 212044)

AVONBURG (AVA) WR-B (Serial # 209740)

Rad Screen Bkg. (cpm): 150 cpm Rad Screen (cpm): 6064 cpm

DOSE RATE - Bkg: 25 uR; CONTACT POINT - 800 uR

Comments: SILT; DRY; LOOSE; FRIABLE; FEW FINE ROOTS

10YR/2 GRAY BROWN

Recorded by: Amanda Just 10/28/08 QA by: \_\_\_\_\_ Date: \_\_\_\_\_



COC No.:  
 Task Team Members: AT /DDL/DLL/EC/SG/RM

Sample ID: SATC02 Station ID: JP-PAC-008 (PENETRATOR)  
 JP-PAC-008 (SOIL); JP-KAC-008 (Kd)  
 Collection Date: 10/28/08 Collection Time: 11:56 AM AMT 1436  
 Property Name: JPG Sample Location: WEST OF CENTER TRENCH  
 Northing (units): 4304197.96 Easting (units): 0371040.18  
 Cover Depth (ft): 0.5'-1.0' Sample Type: SOIL  
 Sample Collection Method: HAND AUGER Sample Depth: 0.5'-1.0'  
 Soil Type: ~~COARSE SAND~~ <sup>TRUSS COMPOSITE</sup> ~~CONCRETE~~ <sup>AND WHOLE</sup> Rad Screen Instrument: 449-A (SERIAL # 212044)  
 MONBORG (AVA) UR-B (SERIAL # 209740)  
 Rad Screen Bkg. (cpm): 150 cpm Rad Screen (cpm): 1197 cpm  
 DOSE RATE: BKG-25uR; 18" ABOVE CONTACT-100uR; CONTACT POINT 800uR  
 Comments: SILT LOAM DRY; LOOSE; FRIABLE; WEAK STRUCTURE  
 10YR7/1 LIGHT GRAY; DEPLETIONS

Recorded by: Amanda Justa 10/28/08 QA by: Date:

COC No.:  
 Task Team Members: AT /DDL/DLL/EC/SG/RM

Sample ID: SATC03 Station ID: JP-PAC-008 (PENETRATOR)  
 JP-PAC-008 (SOIL); JP-KAC-008 (Kd)  
 Collection Date: 10/28/08 Collection Time: 11:41 AM AMT 1441  
 Property Name: JPG Sample Location: WEST OF CENTER TRENCH  
 Northing (units): 4304197.96 Easting (units): 0371040.18  
 Cover Depth (ft): 1.0'-2.0' Sample Type: SOIL  
 Sample Collection Method: HAND AUGER Sample Depth: 1.0'-2.0'  
 Soil Type: ~~COARSE SAND~~ <sup>TRUSS COMPOSITE</sup> ~~CONCRETE~~ <sup>AND WHOLE</sup> Rad Screen Instrument: 449-A (SERIAL # 212044)  
 MONBORG (AVA) UR-B (SERIAL # 209740)  
 Rad Screen Bkg. (cpm): 150 cpm Rad Screen (cpm): 88 cpm

DOSE RATE: BKG-25uR; 18" ABOVE CONTACT-100uR; CONTACT POINT 800uR  
 Comments: SILT LOAM DRY; LOOSE; FRIABLE; WEAK STRUCTURE  
 10YR7/1 LIGHT GRAY; DEPLETIONS (IRON)

Recorded by: Amanda Justa 10/28/08 QA by: Date:

COC No.:

Task Team Members: AT/DDU/DDU/EC/JG/IRM

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Sample ID: SAIC04 Station ID: JP-PAC-008 (PENETRATOR)  
 JP-PNAC-008 (SOIL) ; JP-KAC-008 (Kd)

Collection Date: 10/29/08 Collection Time: 1445-1455

Property Name: JPG Sample Location: WEST OF CENTER TRENCH

Northing (units): 4304197.96 Easting (units): 037040.18

Cover Depth (ft): 2.0-4.0' Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 2.0-4.0'  
 TROWEL COMPOSITE

Soil Type: AVONBURG (AVA) Rad Screen Instrument: 44-9-A (SERIAL# 212044)  
 MR-B (SERIAL# 209740)

Rad Screen Bkg. (cpm): 156cpm Rad Screen (cpm): 74cpm

DOSE RATE - BKG-25uR CONTACT POINT - 800uR  
 Comments: SILT, MEDIUM DENSE, FRIABLE LAY; WEAK STRUCTURE  
 10YR7/2 LIGHT BROWN GRAY, DILUTIONS, TRACE IRON  
 ACCUMULATIONS FROM 3.5-4.0' 10YR5/6 YELLOWISH BROWN

Recorded by: Amanda Just 10/29/08 QA by: Date:

COC No.:

Task Team Members: AT/DDU/DDU/EC/JG/IRM

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Sample ID: SAIC01 Station ID: JP-PAC-005 (PENETRATOR)  
 JP-PNAC-005 (SOIL) ; JP-KAC-005 (Kd)

Collection Date: 10/29/08 Collection Time: 1519

Property Name: JPG Sample Location: WEST OF CENTER TRENCH

Northing (units): 4304221.02 Easting (units): 037028.76

Cover Depth (ft): 0.0-0.5 Sample Type: SOIL

Sample Collection Method: HAND AUGER Sample Depth: 0.0-0.5'  
 TROWEL COMPOSITE

Soil Type: AVONBURG (AVA) Rad Screen Instrument: 44-9-A (SERIAL# 212044)  
 MR-B (SERIAL# 209740)

Rad Screen Bkg. (cpm): 78cpm Rad Screen (cpm): 046cpm

DOSE: PKG 40uR; 19" ABOVE CONTACT - 100uR; CONTACT POINT - 1mR  
 Comments: SILT; DRY; LOOSE; FRIABLE; MANY FINE ROOTS THROUGHOUT  
 WEAK STRUCTURE; 10YR4/3 BROWN; A LOT OF ORGANICS - WOOD, GRASS/LEAVES

Recorded by: Amanda Just 10/29/08 QA by: Date:

COC No.:

Task Team Members: AT/DLL/DDL/EC/JG/MR

Sample ID: SAEC02

Station ID: JP-PAC-005 (PENETRATOR)

JP-PNAC-005 (SOIL); JP-KAC-005 (Kd)

Collection Date: 10/28/08

Collection Time: 1524

Property Name: JPG

Sample Location: WEST OF CENTER TRENCH

Northing (units): 4304221.02

Easting (units): 037628.70

Cover Depth (ft): 0.5' - 1.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER

Sample Depth: 0.5' - 1.0'

Soil Type: AVONBURG (AVA)  
TROWEL COMPOSITERad Screen Instrument: 44-9-A (SERIAL # 212044)  
MR-B (SERIAL # 209740)

Rad Screen Bkg. (cpm): 78 cpm

Rad Screen (cpm): 387 cpm

DOSE: Bkg. 40 uR; 10' ABOVE CONTACT - 100 uR; CONTACT POINT - 1 mR

Comments: SILT LOAM, DRY; LOOSE; WEAK STRUCTURE, FRIABLE  
10YR5/3 BROWN; SOME MANGANESE ACCUMULATIONS

Recorded by: Amanda Jantz 10/28/08 QA by:

Date:

COC No.:

Task Team Members: AT/DLL/DDL/EC/JG/MR

Sample ID: SAEC03

Station ID: JP-PAC-005 (PENETRATOR)

JP-PNAC-005 (SOIL); JP-KAC-005 (Kd)

Collection Date: 10/28/08

Collection Time: 1533

Property Name: JPG

Sample Location: WEST OF CENTER TRENCH

Northing (units): 4304221.02

Easting (units): 037628.70

Cover Depth (ft): 0.5' - 1.0'

Sample Type: SOIL

Sample Collection Method: HAND AUGER

Sample Depth: 1.0' - 2.0'

Soil Type: AVONBURG (AVA)  
TROWEL COMPOSITERad Screen Instrument: 44-9-A (SERIAL # 212044)  
MR-B (SERIAL # 209740)

Rad Screen Bkg. (cpm): 78 cpm

Rad Screen (cpm): 99 cpm

DOSE RATE <sup>Bkg</sup> 40 uR; 10' ABOVE CONTACT - 100 uR; CONTACT POINT - 1 mRComments: SILT LOAM, DRY; LOOSE; SOME FINE SUBROUNDED GRAVEL  
10YR5/3 BROWN; FRIABLE; MANGANESE ACCUMULATIONS THROUGHOUT

Recorded by: Amanda Jantz 10/28/08 QA by:

Date:

COC No.:	
Task Team Members: AT/DOL/DU/EL/JG/RM	
Sample ID: SAFC04	Station ID: JP-PAC-005 (Penetrator)
Collection Date: 10/28/08	Collection Time: 1539
Property Name: JPG	Sample Location: WEST OF CENTER TRENCH
Northing (units): 4304221.02	Easting (units): 037628.76
Cover Depth (ft): 2.0-4.0'	Sample Type: SOTL
Sample Collection Method: HAND AUGER	Sample Depth: 2.0'-4.0'
Soil Type: ANONBURG (ANA)	Rad Screen Instrument: 449-A (SERIAL# 20044) MR-B (SERIAL# 209740)
Rad Screen Bkg. (cpm): 78cpm	Rad Screen (cpm): 62cpm
DOSE RATE: BKG - 40μR 18" ABOVE CONTACT - 100μR CONTACT POINT 1mR	
Comments: SILT LOAM; DRY; MEDIUM STIFF; FRIBBLE; TRACE 1/2" SUBROUND CORN/2	
10426/3 LIGHT BROWNISH GRAY W/ SOME MANGANESE ACCUMULATIONS	
AT 3.25 FT YELLOWISH BROWN 10425/6 IRON ACCUMULATIONS	
Recorded by: Amanda Juch 10/28/08	QA by: Date:
COC No.:	
Task Team Members:	
Sample ID:	Station ID:
Collection Date:	Collection Time:
Property Name:	Sample Location:
Northing (units):	Easting (units):
Cover Depth (ft):	Sample Type:
Sample Collection Method:	Sample Depth:
Soil Type:	Rad Screen Instrument:
Rad Screen Bkg. (cpm):	Rad Screen (cpm):
Comments:	
Recorded by:	QA by: Date:

COC No.:	
Task Team Members:	
Sample ID:	Station ID:
Collection Date:	Collection Time:
Property Name:	Sample Location:
Northing (units):	Easting (units):
Cover Depth (ft):	Sample Type:
Sample Collection Method:	Sample Depth:
Soil Type:	Rad Screen Instrument:
Rad Screen Bkg. (cpm):	Rad Screen (cpm):
Comments:	
Recorded by:	QA by: Date:
COC No.:	
Task Team Members:	
Sample ID:	Station ID:
Collection Date:	Collection Time:
Property Name:	Sample Location:
Northing (units):	Easting (units):
Cover Depth (ft):	Sample Type:
Sample Collection Method:	Sample Depth:
Soil Type:	Rad Screen Instrument:
Rad Screen Bkg. (cpm):	Rad Screen (cpm):
Comments:	
Recorded by:	QA by: Date:

<b>HTW DRILLING LOG</b>							HOLE NO. <b>JP-KCR-011</b>	
1. COMPANY NAME <b>SAIC</b>			2. DRILLING SUBCONTRACTOR <b>SAIC</b>			SHEET 1 OF 1 SHEETS		
3. PROJECT <b>JPG Kd Soil Sampling</b>				4. LOCATION <b>N. SHOULDER OF E ROAD NEXT TO WELL.</b>				
5. NAME OF DRILLER <b>PETER BOELE</b>				6. MANUFACTURER'S DESIGNATION OF DRILL <b>GEOPROBE 6620D</b>				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		6 1/4" Hollow Stem Auger 2" Macaulay Sampler		8. HOLE LOCATION <b>JPG-DU-01</b>		9. SURFACE ELEVATION <b>NM</b>		
12. OVERBURDEN THICKNESS <b>16 ft +</b>				15. DEPTH GROUNDWATER ENCOUNTERED <b>NR</b>				
13. DEPTH DRILLED INTO ROCK <b>0</b>				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>NR</b>				
14. TOTAL DEPTH OF HOLE <b>16 ft.</b>				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>NR</b>				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES <b>NA</b>		
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)		
<b>YES</b>		—		—		<b>% Moisture Kd STUDY</b>		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. SIGNATURE OF INSPECTOR <b>Charles L. Klinger</b>		
<b>VERTICAL</b>		<b>YES</b>		—		<b>CH</b>		
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	12	0'-12' NOT LOGGED -		RECOVERING SOIL FROM	DESIGNATED SAMPLE			INTERVAL.
	13	CH, FAT CLAY, BROWN, (104R 4/3), MIN NODULES 1-3 mm, 10% COARSE FRAG.		SEE RAD. TEL LOG FOR BACKGROUND AND SOIL SCREENING RESULTS	RECOVER 3.5' 4.0'	SAMPLED FROM 12' TO 15.5' bgs.	NA	COLLECTED SAMPLE JP-KCR-011 @ 1149 FOR Kd STUDY AND % MOISTURE
	14							
	15							
	16	END OF BORING @		16 Fibgs.				
	17							
	18							
	19							
	20							

FORM  
MRK JUN 89 55

PROJECT **JPG Kd Soil Sampling**

HOLE NO.  
**JP-KCR-011**

<b>HTW DRILLING LOG</b>						HOLE NO. <b>JP-KGR-005</b>	
1. COMPANY NAME <b>JAIC</b>			2. DRILLING SUBCONTRACTOR <b>SALC</b>			SHEET 1 OF 1 SHEETS	
3. PROJECT <b>JPG Kd Soil Sampling</b>				4. LOCATION <b>ADJACENT TO ORIGINAL BORING</b>			
5. NAME OF DRILLER <b>PETER BOELE</b>				6. MANUFACTURER'S DESIGNATION OF DRILL <b>GEOPROBE 6620D</b>			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION		9. SURFACE ELEVATION		10. DATE STARTED	
6 1/4" Hollow Stem Auger 2" Macrauger Sampler		<b>JPG-DU-02</b>		<b>NR</b>		11. DATE COMPLETED <b>03/27/12</b>	
12. OVERBURDEN THICKNESS <b>8.5 ft</b>				15. DEPTH GROUNDWATER ENCOUNTERED <b>NR</b>			
13. DEPTH DRILLED INTO ROCK <b>0</b>				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>NR</b>			
14. TOTAL DEPTH OF HOLE <b>8.5 ft</b>				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>NR</b>			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES <b>NA</b>	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
<b>YES</b>		<b>—</b>		<b>—</b>		<b>2.5' Moisture</b>	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
<b>VERTICAL</b>		<b>YES</b>		<b>—</b>		<b>—</b>	
23. SIGNATURE OF INSPECTOR		<b>Charles L. Kline</b>					
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		0-6' NOT LOGGED - RECORDED SOIL FROM DESIGNATED SAMPLE INTERVAL.					
	6	CL - LEAN CLAY, VERY MOIST, BROWN (10R 4/4)	SEE RAD. TECH. LOG FOR SOIL AND BACKGROUND SCREENING RESULTS	RECOVERY 2.5' / 2.5'	SAMPLE COLLECTED FROM THIS INTERVAL	N/A	COLLECTED SAMPLE JP-KGR-005 FOR Kd STUDY AND % MOISTURE
	7						
	8						
	9	END OF BORING - @ 8.5 ft logs - REFUSAL					
	10						
	11						
	12						
	13						
	14						

FORM  
MRK JUN 89 55

PROJECT  
**JPG Kd Soil Sampling**

HOLE NO.  
**JP-KGR-005**

<b>HTW DRILLING LOG</b>						HOLE NO. <b>JP-KCR-012</b>	
1. COMPANY NAME <b>JAIC</b>			2. DRILLING SUBCONTRACTOR <b>JAIC</b>			SHEET 1 OF 1 SHEETS	
3. PROJECT <b>JPG Kd Soil Sampling</b>				4. LOCATION <b>ADJACENT TO ORIGINAL BORING</b>			
5. NAME OF DRILLER <b>PETER BOELE</b>				6. MANUFACTURER'S DESIGNATION OF DRILL <b>GEOPRUBE 6620D</b>			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION		9. SURFACE ELEVATION		10. DATE STARTED	
6 1/4" Hollow Stem Auger 2" Macaulay Sampler		<b>JPG-DU-09</b>		<b>NR</b>		11. DATE COMPLETED <b>03/28/12</b>	
12. OVERBURDEN THICKNESS <b>14 ft +</b>				15. DEPTH GROUNDWATER ENCOUNTERED <b>NR</b>			
13. DEPTH DRILLED INTO ROCK <b>Ø</b>				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>NR</b>			
14. TOTAL DEPTH OF HOLE <b>14 ft</b>				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>NR</b>			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES <b>NA</b>	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
<b>YES</b>		<b>—</b>		<b>—</b>		<b>1/2 Moisture</b>	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. SIGNATURE OF INSPECTOR	
<b>VERTICAL</b>		<b>YES</b>		<b>—</b>		<b>Charles L. Kinsey</b>	
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		<b>0-10' NOT LOGGED - RECOVERING SOIL FROM DESIGNATED SAMPLE INTERVAL.</b>					
	10	<b>CL-LEAN CLAY, DAMP, DARK GRAYISH BROWN (10YR 4/2) AND GRAY (10YR 5/1), 15% COARSE FRAGMENTS 3-10mm, SUBANGULAR.</b>	<b>SEE RAD. TECH. LOG FOR SOIL AND BACKGROUND SCREENING RESULTS</b>	<b>RECOVERY 4.0' 4.0'</b>	<b>SAMPLE LOGGED FROM THIS INTERVAL 10'-14'</b>	<b>N/A</b>	<b>LOGGED SAMPLE JP-KCR-012 E0945 FOR Kd STUDY AND 2 MOISTURE</b>
	11						
	12						
	13						
	14	<b>END OF BORING &amp; Kd flags</b>					
	15						
	16						
	17						
	18						

FORM  
MRK JUN 89 55

PROJECT **JPG Kd Soil Sampling**

HOLE NO.  
**JP-KCR-012**



<b>HTW DRILLING LOG</b>						HOLE NO. <b>JP-KAC-011</b>		
1. COMPANY NAME <b>SAIC</b>			2. DRILLING SUBCONTRACTOR <b>SAIC</b>			SHEET 1 OF 1 SHEETS		
3. PROJECT <b>JPG Kd Soil Sampling</b>				4. LOCATION <b>ADJACENT TO ORIGINAL BORING</b>				
5. NAME OF DRILLER <b>PETER BOELE</b>				6. MANUFACTURER'S DESIGNATION OF DRILL <b>GEOPROBE 6620D</b>				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION <b>JPG-DL-031</b>		9. SURFACE ELEVATION <b>NR</b>		10. DATE STARTED <b>03/28/12</b>		
						11. DATE COMPLETED <b>03/28/12</b>		
12. OVERBURDEN THICKNESS <b>15 ft +</b>				15. DEPTH GROUNDWATER ENCOUNTERED <b>NR</b>				
13. DEPTH DRILLED INTO ROCK <b>Ø</b>				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>NR</b>				
14. TOTAL DEPTH OF HOLE <b>15 ft</b>				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>NR</b>				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES <b>NA</b>		
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)		
<b>YES</b>		<b>—</b>		<b>—</b>		<b>% MOISTURE</b>		
						<b>Kd STUDY</b>		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		
<b>VERTICAL</b>		<b>YES</b>		<b>—</b>		<b>—</b>		
						23. SIGNATURE OF INSPECTOR <b>Charles L. Klunder</b>		
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		<b>0-12' NOT LOGGED - RECOVERING SOIL FROM DESIGNATED SAMPLE INTERVAL.</b>						
	12	<b>SW - SAND, WELL GRADED,</b>		<b>SEE</b>	<b>RECOVERY</b>	<b>SAMPLE</b>		<b>COLLECTED</b>
	13	<b>WITH CLAY, MOIST, BROWN</b>		<b>RAD. TECH,</b>	<b>3.0'</b>	<b>COLLECTED</b>		<b>SOIL SAMPLE</b>
	14	<b>(7.5% R 4/4), SUBANGULAR</b>		<b>LOG FOR</b>	<b>3.0'</b>	<b>FROM</b>	<b>N/A</b>	<b>JP-KAC-011</b>
	15	<b>TO SUBGRAND, FINE TO</b>		<b>SOIL AND</b>		<b>TA. 5</b>		<b>@ 1345</b>
		<b>VERY COARSE, MIXED</b>		<b>BACKGROUND</b>		<b>INTERVAL</b>		<b>FOR Kd</b>
		<b>LITHOLOGIES.</b>		<b>SCREENING</b>				<b>STUDY AND</b>
				<b>RESULTS</b>				<b>% MOISTURE</b>
	16	<b>END OF BORING @ 15 FLOGS.</b>						
	17							
	18							
	19							
	20							

FORM  
MRK JUN 89 55

PROJECT  
**JPG Kd Soil Sampling**

HOLE NO.  
**JP-KAC-011**

HTW DRILLING LOG						HOLE NO. JP-KAC-012	
1. COMPANY NAME <b>JAIC</b>			2. DRILLING SUBCONTRACTOR <b>SALC</b>			SHEET 1 OF 1 SHEETS	
3. PROJECT <b>JPG Kd Soil Sampling</b>				4. LOCATION <b>ADJACENT TO ORIGINAL BORING LOCATION</b>			
5. NAME OF DRILLER <b>PETER BOELE</b>				6. MANUFACTURER'S DESIGNATION OF DRILL <b>GEOPROBE 6620D</b>			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION		9. SURFACE ELEVATION		10. DATE STARTED	
6 1/4" Hollow Stem Auger 2" Macrauger Sampler		<b>JPG-DU-04</b>		<b>NR 03/29/12</b>		<b>29 03/30/12</b>	
12. OVERBURDEN THICKNESS <b>15 ft +</b>				15. DEPTH GROUNDWATER ENCOUNTERED <b>NR</b>			
13. DEPTH DRILLED INTO ROCK <b>0</b>				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>NR</b>			
14. TOTAL DEPTH OF HOLE <b>15 ft</b>				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>NR</b>			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES <b>NA</b>	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
<b>YES</b>		<b>—</b>		<b>—</b>		<b>% Moisture Kd STUDY</b>	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. SIGNATURE OF INSPECTOR	
<b>VERTICAL</b>		<b>YES</b>		<b>—</b>		<b>Charles L. Kinnear</b>	
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		0'-12' NOT LOGGED - RECOVERING SOIL FROM DESIGNATED SAMPLE INTERVAL.					
	12	CH - Fat CLAY, damp, brown (1.542 4/4), coarse mn concentrations, 10% coarse fragments 2-5 mm	SEE RAD. TECH LOG FOR SOIL AND BACKGROUND RESULTS	RECOVERY 30' / 3.0'	SAMPLE CORRECTED FROM THIS INTERVAL	N/A	CORRECTED SAMPLE JP-KAC-012 @ 0945 FOR Kd AND % moisture
	13						
	14						
	15	END OF BORING @ 15 ft bgs.					
	16						
	17						
	18						
	19						
	20						

FORM  
MRK JUN 89 55

PROJECT  
**JPG Kd Soil Sampling**

HOLE NO.  
**JP-KAC-012**

<b>HTW DRILLING LOG</b>							HOLE NO. <b>JP-KAC-013</b>
1. COMPANY NAME <b>SAIC</b>			2. DRILLING SUBCONTRACTOR <b>SAIC</b>			SHEET 1 OF 1 SHEETS	
3. PROJECT <b>JPG Kd Soil Sampling</b>			4. LOCATION <b>ADJACENT TO ORIGINAL BORING</b>				
5. NAME OF DRILLER <b>PETER BOTLE</b>			6. MANUFACTURER'S DESIGNATION OF DRILL <b>GEOPROBE 6620D</b>				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <b>6 1/4" Hollow Stem Auger 2" Macaulay Sampler</b>			8. HOLE LOCATION <b>JPG-DU-06</b>				
			9. SURFACE ELEVATION <b>NR</b>				
			10. DATE STARTED <b>03/30/12</b>		11. DATE COMPLETED <b>03/30/12</b>		
12. OVERBURDEN THICKNESS <b>16 ft +</b>			15. DEPTH GROUNDWATER ENCOUNTERED <b>NR</b>				
13. DEPTH DRILLED INTO ROCK <b>0</b>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>NR</b>				
14. TOTAL DEPTH OF HOLE <b>16 ft</b>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>NR</b>				
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES <b>NA</b>			
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
<b>YES</b>		<b>—</b>	<b>—</b>	<b>% Moisture</b>	<b>Kd STUDY</b>	<b>—</b>	<b>Nm %</b>
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	23. SIGNATURE OF INSPECTOR <b>Charles L. Kinsman</b>			
<b>VERTICAL</b>		<b>YES</b>	<b>—</b>	<b>—</b>			

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		<b>0'-14' NOT LOGGED - RECOVERY OF SOIL FROM DESIGNATED SAMPLE INTERVAL.</b>					
	<b>14</b>	<b>CH - FAT CLAY, DAMP, BROWN, (7.5% R 5/4), MN LAMINATIONS, W/ LOS. SAND, MIXED LITHOLOGIES</b>	<b>SEE RAD. TEL. NOTES FOR SOIL AND BGL SCREENING RESULTS</b>	<b>RECOVERY 2.5' / 2.0'</b>	<b>SAMPLED FROM 14 TO 16'</b>	<b>N/A</b>	<b>COLLECTED SAMPLES JP-KAC-013 FOR Kd STUDY AND % MOISTURE</b>
	<b>15</b>	<b>SEE BELOW</b>					
	<b>16</b>	<b>END OF BORING @ 16 FTS</b>					<b>@ 1235</b>
	<b>17</b>	<b>SW - SAND, WELL GRADED, SATURATED, DARK YELLOWISH BROWN (10% R 4/4), MIXED LITHOLOGIES, SUB-ROUNDED TO SUBANGULAR</b>					
	<b>18</b>						
	<b>19</b>						
	<b>20</b>						
	<b>21</b>						
	<b>22</b>						

FORM  
MRK JUN 89 55

PROJECT **JPG Kd Soil Sampling**

HOLE NO.  
**JP-KAC-013**

**SUMMARY OF GROUNDWATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

**Groundwater Sampling Water Quality Measurements**

Quarterly Event	Sample ID	Water Quality Parameters					
		Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox (mV)
April 2008	MW-RS-1	10.80	7.62	0.999	47.8	0.58	-13
	MW-RS-2	12.10	8.36	0.559	9.4	1.30	-104
	MW-RS-3	11.10	7.50	0.999	17.1	0.16	-30
	MW-RS-4	13.01	6.77	0.296	49.2	0.26	138
	MW-RS-5	10.59	5.90	0.086	217.0	4.41	196
	MW-RS-6	10.46	6.84	0.808	25.6	0.00	177
	MW-RS-7	12.80	7.87	1.770	21.8	1.20	-57
	MW-RS-8	10.80	5.69	0.066	197.0	0.00	200
	MW-1 (April)	15.80	7.96	0.673	23.5	8.36	78
	MW-1 (May)	15.28	7.49	0.596	23.2	10.76	106
	MW-2 (April)	13.80	7.61	0.887	13.0	3.63	80
	MW-2 (May)	14.65	7.11	0.793	13.2	10.10	110
	MW-3 (April)	14.10	7.49	0.952	47.7	0.94	107
	MW-3 (May)	13.92	7.33	0.819	11.4	8.55	121
	MW-4 (April)	10.27	6.75	0.658	7.2	1.46	163
	MW-4 (May)	16.41	5.81	0.662	39.8	6.20	158
	MW-5 (April)	13.20	8.00	3.430	45.8	3.02	NR
	MW-5 (May)	14.97	6.74	6.750	24.9	6.94	120
	MW-6 (April)	13.29	7.08	0.440	28.9	3.13	190
	MW-6 (May)	15.32	7.37	0.611	22.2	9.39	127
	MW-7 (April)	13.20	7.70	0.999	19.0	0.00	-117
	MW-7 (May)	14.67	7.13	0.885	13.8	7.48	122
	MW-8 (April)	12.92	7.00	0.401	1.8	8.69	162
	MW-8 (May)	15.60	6.27	0.600	33.8	10.45	88
	MW-9 (April)	bailer used to sample well, no water quality measurements from Horiba					
	MW-9 (May)	well was dry, thus no sample collected					
	MW-10 (April)	14.10	7.70	0.999	26.4	1.91	84
	MW-10 (May)	14.82	6.77	0.869	25.3	4.09	129
	MW-11 (April)	18.50	8.44	0.795	10.1	8.88	65
	MW-11 (May)	13.99	7.34	0.384	37.0	12.13	103
	JPG-DU-011	12.00	7.71	3.130	16.1	0.78	-110

**SUMMARY OF GROUNDWATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

JPG-DU-01D	hydrasleeve used to sample well, no water quality measurements from Horiba					
JPG-DU-02I	11.40	7.98	0.702	0.0	0.00	-82
JPG-DU-02D	hydrasleeve used to sample well, no water quality measurements from Horiba					
JPG-DU-03I	13.80	7.98	1.290	18.4	2.15	-15
JPG-DU-03O	11.10	7.55	0.999	31.7	0.61	-32
JPG-DU-04I	12.40	7.77	1.130	49.0	0.92	-126
JPG-DU-04D	hydrasleeve used to sample well, no water quality measurements from Horiba					
JPG-DU-04O	11.70	8.01	1.160	42.3	0.69	-148
JPG-DU-05I	12.10	7.98	0.910	16.4	0.87	-28
JPG-DU-05D	hydrasleeve used to sample well, no water quality measurements from Horiba					
JPG-DU-06I	13.00	7.75	1.010	32.1	0.77	-176
JPG-DU-06D	14.00	7.00	16.300	61.2	0.34	-249
JPG-DU-06O	11.20	7.64	0.990	29.8	0.43	78
JPG-DU-07I	hydrasleeve used to sample well, no water quality measurements from Horiba					
JPG-DU-07D	hydrasleeve used to sample well, no water quality measurements from Horiba					
JPG-DU-08I	14.00	7.84	9.600	1.5	1.13	-29
JPG-DU-08D	hydrasleeve used to sample well, no water quality measurements from Horiba					
JPG-DU-09I	10.10	7.74	0.999	16.2	0.98	24
JPG-DU-09D	11.80	7.17	85.600	0.0	0.00	38
JPG-DU-09O	11.30	8.00	0.999	25.9	1.21	-105
JPG-DU-10O	14.60	7.82	1.080	30.2	0.00	-213
JPG-DU-10D	14.80	7.74	9.260	2.1	0.08	-248

**Notes:**

S.U.-Standard Units

mS/cm-millisiemens per centimeter

mV-millivolts

mg/L-milligrams per Liter

NTU-nephelometric turbidity units

For Wells MW-1 through MW-11, an April set of measurements and a May set of measurements are displayed. The reason is due to an error in collecting total/isotopic uranium samples in April (having a preservative in the sample bottle when there shouldn't be any) and then recollecting them in May.

Total/isotopic uranium samples are the only ones affected by the error.

NR - Not recorded

**SUMMARY OF GROUNDWATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

Quarterly Event	Sample ID	Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox (mV)
July 2008	MW-RS-1	17.30	6.97	0.874	74.4	0.00	-85
	MW-RS-2	14.50	7.71	0.450	14.5	0.47	-83
	MW-RS-3	16.80	7.10	0.957	5.8	0.00	-131
	MW-RS-4	21.30	7.21	0.521	43.3	0.00	-37
	MW-RS-5	19.10	7.45	0.378	641.0	1.47	-90
	MW-RS-6	15.77	7.09	0.832	47.9	0.00	82
	MW-RS-7	17.50	6.67	1.880	NR	1.09	-107
	MW-RS-8	17.00	5.78	0.162	40.2	0.00	-19
	MW-1	18.70	7.37	0.749	154.0	10.20	110
	MW-2	15.60	7.31	0.760	4.8	0.44	-49
	MW-3	14.70	7.17	0.820	22.8	0.00	16
	MW-4	19.00	7.28	0.852	16.7	0.35	-2
	MW-5	16.30	7.13	6.060	26.5	0.11	-18
	MW-6	18.01	7.51	0.794	244.0	5.19	56
	MW-7	14.60	7.28	0.990	6.7	0.00	-150
	MW-8	17.40	7.61	0.594	20.2	9.63	-2
	MW-9	bailer used to sample well, no water quality measurements from Horiba					
	MW-10	13.90	6.74	0.980	212.0	7.89	153
	MW-11	bailer used to sample well, no water quality measurements from Horiba					
	JPG-DU-01I	15.40	7.29	3.090	30.6	0.00	-122
	JPG-DU-01D	hydrasleeve used to sample well, no water quality measurements from Horiba					
	JPG-DU-02I	16.37	7.27	0.594	4.7	0.04	-142
	JPG-DU-02D	bailer used to sample well, no water quality measurements from Horiba					
	JPG-DU-03I	16.90	7.27	1.490	27.4	0.00	-102
	JPG-DU-03O	16.57	6.94	0.807	29.3	0.00	-45
	JPG-DU-04I	14.20	7.29	1.040	35.2	0.00	-188
	JPG-DU-04D	hydrasleeve used to sample well, no water quality measurements from Horiba					
	JPG-DU-04O	15.50	7.34	1.120	45.8	0.00	-157
	JPG-DU-05I	19.40	7.39	0.920	7.8	0.00	-150
	JPG-DU-05D	hydrasleeve used to sample well, no water quality measurements from Horiba					
	JPG-DU-06I	16.12	7.20	0.986	46.5	0.00	-158
	JPG-DU-06D	16.87	6.99	37.200	104.0	0.01	-170
	JPG-DU-06O	14.82	7.13	0.989	40.5	0.00	-30
	JPG-DU-07I	hydrasleeve used to sample well, no water quality measurements from Horiba					

**SUMMARY OF GROUNDWATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

JPG-DU-07D	hydrasleeve used to sample well, no water quality measurements from Horiba					
JPG-DU-08I	bailer used to sample well, no water quality measurements from Horiba					
JPG-DU-08D	bailer used to sample well, no water quality measurements from Horiba					
JPG-DU-09I	21.92	7.25	0.882	60.5	1.31	84
JPG-DU-09D	18.53	6.71	82.100	219.0	0.12	-5
JPG-DU-09O	20.50	7.54	0.920	41.7	0.00	-202
JPG-DU-10O	17.12	7.14	1.450	-5*	0.14	-167
JPG-DU-10D	21.16	7.18	9.780	37.9	0.05	-213

**Notes:**

S.U.-Standard Units

mS/cm-millisiemens per centimeter

mV-millivolts

mg/L-milligrams per Liter

NTU-nephelometric turbidity units (\* = negative turbidity values or turbidity values greater than 999 denote measurement as out of calibration range)

NR = not recorded

**SUMMARY OF GROUNDWATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

Quarterly Event	Sample ID	Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox (mV)
October 2008	MW-RS-1	17.70	7.19	0.999	27.0	0.00	-83
	MW-RS-2	16.40	7.75	0.593	3.0	0.57	-26
	MW-RS-3	21.80	6.70	0.999*	150.0	0.41*	-52
	MW-RS-4	18.80	7.04	0.708	800.0	0.00	-19
	MW-RS-5	bailer used to sample well, no water quality measurements from Horiba					
	MW-RS-6	17.60	6.8*	NR*	-6*	0.79	35
	MW-RS-7	19.40	7.26	1.850	990*	0.00	-133
	MW-RS-8	bailer used to sample well, no water quality measurements from Horiba					
	MW-1	14.40	6.82	0.908	7.0	8.70	23
	MW-2	16.60	6.50	0.750	17.5	0.04	-79
	MW-3	15.20	6.19	0.750	21.6	0.00	10
	MW-4	18.60	6.27	0.825	20.2	0.00	80
	MW-5	14.80	6.18	14.700	1.0	2.86	221
	MW-6	14.30	6.08	0.9*	220.0	6.23	216
	MW-7	15.10	6.43	0.933	18.2	0.00	-131
	MW-8	13.00	6.71	0.722	-6.4*	0.87	48
	MW-9	bailer used to sample well, no water quality measurements from Horiba					
	MW-10	13.00	6.84	0.787	8.9	0.57	-27
	MW-11	15.80	6.73	6.110	22.8	1.29	-3
	JPG-DU-01I	16.30	4.04	3.040	31.0	0.00	-119
	JPG-DU-01D	hydrasleeve used to sample well, no water quality measurements from Horiba					
	JPG-DU-02I	16.10	7.00	1.290	0.0	0.02	-181
	JPG-DU-02D	bailer used to sample well, no water quality measurements from Horiba					
	JPG-DU-03I	14.80	6.99	1.400	500.0	0.07	-137
	JPG-DU-03O	17.50	6.92	0.900	24.0	0.00	-72
	JPG-DU-04I	13.10	7.03	1.010	27.0	0.00	-182
	JPG-DU-04D	hydrasleeve used to sample well, no water quality measurements from Horiba					
	JPG-DU-04O	14.60	7.05	1.140	47.0	0.00	-138
	JPG-DU-05I	18.80	6.63	0.924	21.3	0.00	-183
	JPG-DU-05D	hydrasleeve used to sample well, no water quality measurements from Horiba					
	JPG-DU-06I	15.30	6.76	0.990	42.7	0.05	-209
	JPG-DU-06D	14.80	6.46	38.200	14.3	0.04	-197
	JPG-DU-06O	16.50	6.49	1.000	28.7	0.02	-49
	JPG-DU-07I	hydrasleeve used to sample well, no water quality measurements from Horiba					



**SUMMARY OF GROUNDWATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

JPG-DU-07D	bailer used to sample well, no water quality measurements from Horiba					
JPG-DU-08I	bailer used to sample well, no water quality measurements from Horiba					
JPG-DU-08D	bailer used to sample well, no water quality measurements from Horiba					
JPG-DU-09I	15.20	6.62	0.860	0.0	0.39	-11
JPG-DU-09D	14.10	6.37	75.900	4.0	0.09	-88
JPG-DU-09O	16.10	6.83	0.897	1.1	0.14	-195
JPG-DU-10O	15.30	6.99	1.200	-5*	0.26	-209
JPG-DU-10D	14.70	6.83	9.500	30.5	0.07	-235

**Notes:**

S.U.-Standard Units (\* = denote pH measurement as out of calibration range)

mS/cm-millisiemens per centimeter (\* = denote conductivity measurement as out of calibration range)

mV-millivolts

mg/L-milligrams per Liter (\* = denote dissolved oxygen measurement as out of calibration range)

NTU-nephelometric turbidity units (\* = negative turbidity values or turbidity values greater than 999 denote measurement as out of calibration range)

NR = not recorded

**SUMMARY OF GROUNDWATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

Quarterly Event	Sample ID	Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Redox (mV)
February 2009	MW-RS-1	9.56	7.23	0.829	26.4	0.00	-67
	MW-RS-2	11.41	7.79	0.419	15.4	1.20	147
	MW-RS-3	9.37	7.25	0.893	27.1	1.11	94
	MW-RS-4	6.07	6.35	0.076	26.6	7.14	230
	MW-RS-5	8.10	6.22	0.064	927.0	7.08	284
	MW-RS-6	9.37	6.22	0.082	87.2	9.76	285
	MW-RS-7	7.97	7.53	1.720	62.5	1.21	80
	MW-RS-8	6.68	5.35	0.070	99.8	7.37	260
	MW-1	10.70	7.43	0.697	7.4	7.73	107
	MW-2	13.98	7.28	0.780	9.0	1.91	91
	MW-3	13.05	7.31	0.640	17.0	1.88	60
	MW-4	9.13	7.26	0.721	1.1	3.37	244
	MW-5	10.07	7.17	10.600	0.0	0.02	0
	MW-6	12.72	7.63	0.450	584.0	5.16	84
	MW-7	13.42	7.28	0.805	16.3	0.00	-113
	MW-8	12.52	7.34	0.580	0.0	4.85	106
	MW-9	bailer used to sample well, no water quality measurements from Horiba					
	MW-10	10.26	7.41	0.805	26.9	1.98	107
	MW-11	13.75	7.62	1.210	0.0*	7.37	60
	JPG-DU-01I	9.19	7.46	3.010	3.5	0.00	-115
	JPG-DU-01D	hydrasleeve used to sample well, no water quality measurements from Horiba					
	JPG-DU-02I	9.59	7.45	0.534	3.8	0.11	-89
	JPG-DU-02D	bailer used to sample well, no water quality measurements from Horiba					
	JPG-DU-03I	11.53	7.55	1.370	28.3	2.14	-34
	JPG-DU-03O	11.40	7.16	0.731	23.1	0.11	-33
	JPG-DU-04I	11.84	7.12	1.000	0.0*	0.08	-175
	JPG-DU-04D	hydrasleeve used to sample well, no water quality measurements from Horiba					
	JPG-DU-04O	8.29	7.51	1.010	190.0	0.00	-128
	JPG-DU-05I	8.95	7.40	0.824	0.0*	0.35	-97
	JPG-DU-05D	bailer used to sample well, no water quality measurements from Horiba					
	JPG-DU-06I	13.97	6.74	0.960	0.0	0.00	-146
	JPG-DU-06D	13.59	6.45	39.700	0.0*	0.00	-130
	JPG-DU-06O	12.55	6.60	0.950	24.6	0.00	22
	JPG-DU-07I	bailer used to sample well, no water quality measurements from Horiba					

**SUMMARY OF GROUNDWATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

JPG-DU-07D	bailer used to sample well, no water quality measurements from Horiba					
JPG-DU-08I	bailer used to sample well, no water quality measurements from Horiba					
JPG-DU-08D	bailer used to sample well, no water quality measurements from Horiba					
JPG-DU-09I	12.81	6.86	0.712	2.0	2.06	34
JPG-DU-09D	11.41	6.93	87.000	41.3	0.02	17
JPG-DU-09O	13.57	7.02	0.725	6.9	0.31	-127
JPG-DU-10O	13.01	7.53	0.980	793.0	0.52	-145
JPG-DU-10D	8.34	7.40	8.820	0.0	0.01	-177

**Notes:**

S.U.-Standard Units

mS/cm-millisiemens per centimeter

mV-millivolts

mg/L-milligrams per Liter

NTU-nephelometric turbidity units (\* = flashing 0.0 turbidity value denotes measurement as out of calibration range)

**SUMMARY OF SURFACE WATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

Quarterly Event	Stream Survey ID	Sample ID	Water Quality Parameters					
			Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Redox (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
April 2008	BC-CA-03	JP-W-01	10.43	5.84	0.208	239	11.27	34.9
	BC-CA-06	JP-W-02	12.09	5.75	0.346	182	14.10	55.6
	BC-CA-09A	JP-W-03	13.39	7.14	0.263	203	13.49	77.3
	BC-SD-03	JP-W-04	20.12	6.05	0.316	236	8.67	26.1
	BC-TB-02	JP-W-05	15.04	5.88	0.331	200	13.90	49.8
	BC-CA-07	JP-W-06	12.41	5.96	0.290	286	12.41	45.2
	BC-SD-08	JP-W-07	23.70	6.43	0.285	261	10.18	44.4
	BC-SE-04	JP-W-08	13.47	7.01	0.241	191	13.00	190
	JPG-BC-11	JP-W-09	13.01	6.10	0.326	279	13.06	58.4
	JPG-DU-12	JP-W-10	13.04	6.31	0.289	288	11.79	59.7
	BC-SD-07	JP-W-11	23.01	6.08	0.303	221	11.48	55.7
	BC-SD-06	JP-W-12	16.49	6.43	0.471	143	9.99	17.1
	BC-SD-09	JP-W-13	17.60	5.99	0.335	262	8.07	4.1
	BC-TB-04	JP-W-14	20.06	6.04	0.253	209	10.50	83.0
	TBC-SD-01	JP-W-15	22.51	6.38	0.146	258	9.56	55.1
	TBC-SD-08	JP-W-16	18.21	5.25	0.185	232	8.45	31.4
	MF-SD-01	JP-W-17	21.99	6.24	0.167	283	11.26	16.3
	MF-SD-06L	JP-W-18	21.48	6.07	0.220	285	11.55	14.3
	MF-SD-09	JP-W-19	23.20	6.64	0.331	223	10.40	46.9
	MF-CA-01	JP-W-20	12.35	5.82	0.224	299	12.45	49.3

**Notes:**

S.U.-Standard Units

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mV-millivolts

mg/L-milligrams per Liter

NTU-nephelometric turbidity units

**SUMMARY OF SURFACE WATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

Quarterly Event	Stream Survey ID	Sample ID	Water Quality Parameters					
			Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Redox (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
July 2008	BC-CA-03	JP-W-24	21.55	7.02	0.346	292	6.71	0.0
	BC-CA-06	JP-W-25	22.23	6.95	0.352	245	7.71	0.0
	BC-CA-09A	JP-W-27	21.90	6.47	0.366	304	4.58	5.4
	BC-SD-03	JP-W-04	21.66	6.58	0.402	202	6.18	0.6
	BC-TB-02	JP-W-05	21.39	6.71	0.485	168	7.47	19.4
	BC-CA-07	JP-W-26	22.75	6.67	0.305	265	8.33	0.0
	BC-SD-08	JP-W-07	29.14	7.07	0.409	249	10.81	23.1
	BC-SE-04	JP-W-22	23.43	6.72	0.364	290	6.28	9.7
	JPG-BC-11	JP-W-09	18.01	6.42	0.484	237	10.29	28.7
	JPG-DU-12	JP-W-10	21.00	6.44	0.420	238	10.75	349
	BC-SD-07	JP-W-11	26.29	6.59	0.390	200	6.71	4.3
	BC-SD-06	JP-W-12	22.53	7.00	0.328	301	5.78	5.3
	BC-SD-09	JP-W-13	33.66	7.50	0.418	225	9.75	28.0
	BC-TB-04	JP-W-21	25.20	6.98	0.391	289	8.91	19.4
	TBC-SD-01	JP-W-15	33.84	7.37	0.317	280	10.41	8.1
	TBC-SD-08	JP-W-16	NM	NM	NM	NM	NM	NM
	MF-SD-01	JP-W-17	35.98	7.03	0.386	182	9.33	9.5
	MF-SD-06L	JP-W-28	24.80	6.79	0.386	286	5.10	24.8
	MF-SD-09	JP-W-19	27.26	7.06	0.441	299	6.63	5.4
	MF-CA-01	JP-W-23	21.36	6.24	0.521	178	6.62	0.0

**Notes:**

S.U.-Standard Units

mS/cm-millisiemens per centimeter

mV-millivolts

mg/L-milligrams per Liter

NTU-nephelometric turbidity units

NM-Water quality parameters not collected because primary sample location was dry and a representative alternate was not located.

**SUMMARY OF SURFACE WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

Quarterly Event	Stream Survey ID	Sample ID	Water Quality Parameters					
			Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Redox (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
October 2008	BC-CA-03	JP-W-24	15.80	5.98	0.398	363	7.73	0.9
	BC-CA-06	JP-W-02	NM	NM	NM	NM	NM	NM
	BC-CA-09A	JP-W-27	12.40	6.02	0.384	238	4.26	1.1
	BC-SD-03	JP-W-04	9.3	5.95	0.393	200	4.01	4.4
	BC-TB-02	JP-W-05	10.7	6.70	0.528	216	6.51	4.1
	BC-CA-07	JP-W-26	11.2	6.91	0.405	172	2.40	0.0
	BC-SD-08	JP-W-07	23.80	6.57	0.379	270	8.18	0.0
	BC-SE-04	JP-W-22	16.9	6.46	0.354	267	6.10	7.4
	JPG-BC-11	JP-W-09	16.0	6.31	0.411	265	6.01	11.9
	JPG-DU-12	JP-W-10	NM	NM	NM	NM	NM	NM
	BC-SD-07	JP-W-11	17.9	6.99	0.261	252	8.19	4.1
	BC-SD-06	JP-W-12	13.6	6.35	0.386	165	4.03	3.5
	BC-SD-09	JP-W-13	12.10	5.95	0.291	180	7.83	17.9
	BC-TB-04	JP-W-21	10.40	6.65	0.425	149	6.41	0.0
	TBC-SD-01	JP-W-15	21.00	6.82	0.366	270	6.81	0.0
	TBC-SD-08	JP-W-16	NM	NM	NM	NM	NM	NM
	MF-SD-01	JP-W-17	NM	NM	NM	NM	NM	NM
	MF-SD-06L	JP-W-28	16.90	6.41	0.269	317	7.13	2.6
	MF-SD-09	JP-W-19	17.20	6.08	0.453	321	6.00	0.0
	MF-CA-01	JP-W-23	8.1	6.11	0.504	89	3.79	0.0

**Notes:**

S.U.-Standard Units

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mg/L-milligrams per Liter

NTU-nephelometric turbidity units

NM-Water quality parameters not collected because primary sample location was dry and a representative alternate was not located.

**SUMMARY OF SURFACE WATER WATER QUALITY PARAMETERS  
JEFFERSON PROVING GROUND  
MADISON, INDIANA**

Quarterly Event	Stream Survey ID	Sample ID	Water Quality Parameters					
			Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Redox (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
February 2009	BC-CA-03	JP-W-01	7.45	5.96	0.22	251	10.48	2.6
	BC-CA-06	JP-W-02	6.59	6.91	0.21	226	12.01	0.0
	BC-CA-09A	JP-W-03	3.65	6.26	0.19	258	11.92	2.6
	BC-SD-03	JP-W-04	0.43	6.45	0.32	209	12.51	0.0
	BC-TB-02	JP-W-05	3.90	6.31	0.18	225	11.49	0.0
	BC-CA-07	JP-W-06	2.68	5.97	0.29	257	12.09	20.7
	BC-SD-08	JP-W-07	6.12	5.99	0.13	291	11.90	6.6
	BC-SE-04	JP-W-08	6.80	6.42	0.25	177	10.47	37.9
	JPG-BC-11	JP-W-09	9.30	6.41	0.26	250	10.19	2.1
	JPG-DU-12	JP-W-10	8.04	6.12	0.19	260	10.21	6.3
	BC-SD-07	JP-W-11	6.12	6.20	0.14	287	11.94	7.1
	BC-SD-06	JP-W-12	0.61	5.81	0.35	280	13.51	0.2
	BC-SD-09	JP-W-13	4.32	6.83	0.13	248	12.13	16.9
	BC-TB-04	JP-W-14	3.69	5.82	0.14	270	13.49	12.5
	TBC-SD-01	JP-W-15	3.87	5.98	0.08	293	12.40	10.9
	TBC-SD-08	JP-W-16	1.53	5.74	0.06	273	11.51	1.2
	MF-SD-01	JP-W-17	0.10	5.84	0.26	271	10.93	14.5
	MF-SD-06L	JP-W-18	0.78	6.16	0.15	222	12.42	9.0
	MF-SD-09	JP-W-19	5.20	5.80	0.14	277	11.64	3.5
	MF-CA-01	JP-W-20	3.75	5.70	0.23	244	11.68	8.3

**Notes:**

S.U.-Standard Units

mS/cm-millisiemens per centimeter

mV-millivolts

mg/L-milligrams per Liter

NTU-nephelometric turbidity units

**Stream Survey for Surface Water and Sediment Sample Locations - Big Creek**

April 2008 Sample ID	Sample Location Rationale	March 2008 Stream Survey Location ID	Description/Details	Notes	Surface Water/Sediment Sampling Notes
		BC-CA-01	Small entrance to cave. Sandy material at entrance. No flow out of entrance.		
		BC-CA-02	Small, narrow cave mouth with low flow from entrance. Rock has some fn gr deposits.		
		BC-CV-01	Location where culvert discharge enters Big Creek. Potentially surface drainage from DU area.		
		BC-CV-02	Culvert discharge to creek. Downstream limit to survey.		
		BC-SP-01	Spring on north bank of creek. Flow ~3 - 4 gpm. Just west of DU area		
		BC-SE-01	Possible seep or discharge from cave mouth. Flow ~ 1 gpm		
		BC-SP-02	South bank, flow ~ 5gpm spring location		
		BC-SE-02	Seep emerging from north bank near stump. Finer gr deposits u fn sand class. Flow 5-10gpm		
	Back-up Tributary sample location	BC-TB-01	Tributary entering from north of creek. Slow pool at mouth, sandy deposits on bedrock	Back-up tributary sample location if others are dry or based on results could be additional location.	
JP-W-01/JPG-D-01	DU Impact Area Cave	BC-CA-03	Cave mouth on north side of bank. Flow ~5gpm. Gully cut from mouth to creek indicating higher flows at times. Narrow flat passage. Feel cool air exiting mouth. Deposits at end of gully at stream are sandy. Just west of Big Creek 12	New cave? Future sample location based on results of present sampling.	Sandy sediment at cave mouth.
		BC-SD-01	Fast current enters upstream of large pool. Stream bends slightly to north current drops at bend. Fine gr. Deposition on north bank. Deposits are on top of bedrock		
		BC-SD-02	Fast current in channel on south side of stream. Deep pool on north bank upstream of rocky point and debris. Fn gr deposition in spots		
	DU Impact Area Cave - back-up	BC-CA-04	Passage way mid way up bedrock outcrop on north bank. No flow. Drainage away from passage, occasional flow. 4/11/08 Minor flow.	Cave JPG-BC-07	
		BC-SP-03	Small passage way with flow ~ 10gpm	New cave? Future sample location based on results of present sampling. Second level back-up DU impact Area cave sample location.	
	DU Impact Area Cave	BC-CA-05	~ 3x2 passageway on south side of stream. Passage becomes narrow quickly. Can hear large volume of water running. Just upstream, there is another passageway flowing ~ 15-20 gpm	Possibly cave JPG-BC-09	
JP-W-02/JPG-D-02	DU Impact Area Cave	BC-CA-06	Passageway with flow on south side of bank. Flow 20gpm.	Possibly Cave JPG-BC-08	Sediment at mouth are coarse sand. Finer grain material just inside cave mouth.
JP-W-04/JPG-D-04	Stream SW/Sed location mid way in DU Impact Area, between cave sample locations, downstream of gamma survey elevated measurements.	BC-SD-03	Tree stump forms current break. Water eddies in downstream of stump. Ufn sand, silt deposition		Fine grain deposition with some sand.
JP-W-05/JPG-D-05	Tributary location draining "trench area" on southern side of Big Creek	BC-TB-02	Tributary to Big Creek, entering south side of stream. Good Flow. Sediments are sandy, bedrock		Sediment and water samples collected ~50 feet upstream of where tributary enters Big Creek. Fine grain sand deposited in pool formed by tree on west bank.
JP-W-06/JPG-D-06	DU Impact Area Cave	BC-CA-07	Small passageway ~ 1/2 way up outcrop. Flowing ~5gpm South side of stream. Sediments are sandy	Possibly Cave JPG-BC-019	Sandy sediment just inside cave mouth.
		BC-CA-08	U-shaped outcrop, cutting away from stream. Several small tubular passageways along outcrop. No flow. Possible sinkhole at location		
		BC-SE-03	Groundwater seep. Currently low flow. Evidence of erosion, very wide channel. Possible higher flows. South side of stream. Sandy sediments and bedrock		



**Stream Survey for Surface Water and Sediment Sample Locations - Big Creek**

April 2008 Sample ID	Sample Location Rationale	March 2008 Stream Survey Location ID	Description/Details	Notes	Surface Water/Sediment Sampling Notes
		BC-TB-03	Tributary to creek on south bank. Low flow. Sandy sediments. May be spring followed uphill to bedrock outcrop		
JP-W-07/JPG-D-07	Farthest downstream location in area of JPG boundary.	BC-SD-08	Downstream of bridge on west perimeter road, fast current, some slower pools. Deep pools. Bedrock and sand. Upstream of bridge ~ 50 yards on north bank, bedrock is undercut from stream. Fine gr deposition at undercut. Rest of channel is too deep to wade. Sediment visible at edge of channel are sandy with bedrock. Where stream undercuts rock, channel bends to north		Sediment collected ~ 40 feet upstream of bridge on north bank. Sediments noted during the stream survey were no longer under water and were dry.
		BC-SD-04	Small point with eddy behind. Fine grained deposition near bank, becomes bedrock further midstream channel. Photo 16.		
JP-W-08/JPG-D-08	Replace DU impact Cave	BC-SE-04	Groundwater seep on north bank. Mainly sandy deposits where seep enters big creek. Flow ~5 gpm on 4/8/08. Photo 19.	Replacement for cave locations that are dry.	Prior to collecting the water sample, sediment needed to be excavated to provide sufficient depth to fill sampling device.
		BC-SD-05	channel obstructed by rock bar on north bank. Flow slows with deposition on north bank. Finer grained material closer to bank becoming sandy into channel. Outside DU impact area. Photo 20.		
		BC-SE-05	Area of two groundwater seeps. ~25 feet upstream of deposition areas BC-SD-05. Flow was several gpm on 4/8/08. Fine grained deposition near seeps. Photo 21.		
	DU Impact Area Cave	BC-CA-09	Narrow passage with very low flow. Sandy Deposits at cave mouth. Cave extends towards west back towards DU impact Area. Photo 22. Second passage upstream of first with flow. Better flow.		No flow during sampling event
JP-W-03/JP-D-03	DU Impact Area Cave	BC-CA-09A	Partially collapsed passage ~ 15 feet from stream. Flow at cave mouth is dispersed by rocks and roots. Flow continues toward stream where it cascades off bedrock into stream. Flow ~ 1.5 gpm. Sandy silt deposits. ~100 feet upstream of BC-CA-09.		Silt and sand deposition.
JP-W-12/JPG-D-12	Stream SW/Sed location in area upstream of DU Impact Area above horseshoe bend and above penetrators in horseshoe bend. Background/upstream location.	BC-SD-06	SE side of stream bank, outside DU Impact Area. Flow eddies behind point. Channel deep and slow. Fine grained deposition at SE bank. Photo 23.		Sandy silt deposition.
		BC-TB-05	Low flow trib to BC. Water pooled ~100 feet from stream. Source of water either spring or seep? Can't see if flow continues away from stream. Rocky channel. Photo 24.		
		BC-SP-04	Spring at outcrop. Flow ~2-3 gpm on 4/8/08. Very fine grained sand/silt where flow enters creek. Photo 25.		
		BC-TB-06	Low flow trib. To BC on bedrock with sandy deposits. Gully depth and sandy deposits on walls indicate higher flows at times. Photo		
		BC-TB-07	Trib. Flow ~5-10 gpm on 4/8/08. Sandy/rocky bottom with fine grained deposits on walls of gully formed by tributary. Photo 27.		
		BC-SP-05	Spring forming ~70 feet from stream channel. Flow originates under flat passgae between bedrock. Possible cave. Area has potential sinkholes. Photo 28.		
			Need GPS location. Dry during 4/11/08	Cave JPG-BC-10, Northern side of Big Creek, ~1200 feet ustream of Center Recovery Road, locate during the April stream survey.	
JP-W-09/JPG-D-09	DU Impact Area Cave			Cave JPG-BC-11, weir located	Finer grain deposition just inside cave mouth on east and west walls. Rest of passage is sand with fallen rock.
JP-W-10/JPG-D-10	DU Impact Area Cave			Cave JPG-DU-12, weir located	Sediments are sandy.
JP-W-11/JPG-D-11	Stream SW/Sed location in area immediately downstream of DU Impact Area.	BC-SD-07	Sand bar, sediments are sandy. Upstream of sand bar is Wilson Dam. Downstream of bar is fast narrow channel on bedrock. Need GPS location	Need GPS location.	Sandy sediment collected on north side of island.

Stream Survey for Surface Water and Sediment Sample Locations - Big Creek

April 2008 Sample ID	Sample Location Rationale	March 2008 Stream Survey Location ID	Description/Details	Notes	Surface Water/Sediment Sampling Notes
JP-W-13/JPG-D-13	Stream SW/Sed location in area upstream of DU Impact Area where Big Creek intersects E Road/Wonju Road. Background/upstream location.	BC-SD-09		Need GPS location.	Water and soil collected ~ 30 feet downstream of bridge on east bank.
JP-W-14/JPG-D-14	Tributary location draining "trench area" on Northern side of Big Creek	BC-TB-04	Tributary to creek flowing n/s. Rocky bottom with sand. Photo 17. Sand is very fine to medium at bank of tributary, more coarse in channel.		Sandy sediment collected where tributary enters Big Creek.

**Stream Survey for Surface Water and Sediment Sample Locations - Middle Fork Creek**

April 2008 Sample ID	Sample Location Rationale	March 2008 Stream Survey Location ID	Description/Details	Notes	Surface Water/Sediment Sampling Notes
JP-W-17/JPG-D-17	Upstream/background sample	MF-SD-01	Downstream of small debris obstruction. Stream bends to north, slack water on bend, fine grained material at bank. Possible UXO ~3' into channel. East of Bridge on east recovery.		A lot of vegetation has grown since March survey
		MF-CV-01	Culvert Crossing under road. Water slow pool upstream of culvert.		
		MF-CV-01U	Surface drainage enters pool on east side of culvert on North Bank. Upper limit of pool formed by culvert		
		MF-SD-02	Debris dam, slow, pooled water upstream		
		MF-SD-02U	Upper Limit of pool behind debris dam		
		MF-SD-03L	Debris dam with slow pooled water behind		
		MF-SD-03U	Upper limit of pooled water behind debris dam		
		MF-SD-04L	Debris dam with slow pooled water behind		
		MF-SD-04U	Upper Limit of pool behind debris dam. Good amount of aquatic vegetation		
		MF-CV-01L	Lower Limit of slow water formed around culvert. Stream bends to west at location. Water becoming shallower. Rock visible on stream		
		MF-SD-05U	Creek flow split by gravel/sand bar. Flow east of bar, shallow/narrow, rocky. West of bar, large deep pool. Slow pooled water. Pool ~ 25' wide. Location at upper limit of pool. Area where flow is split by gravel bar, has rock on coarse sediment. Water flowing at location. Pooled areas to west are frozen, water shallow. Large amount of leaf and organic debris		
		MF-SD-05L	Lower limit of pool. Pool ~75' long. Bedrock shelf at lower limit of pool. Small tributary entering at bedrock shelf on east bank		
JP-W-18/JPG-D-18	downstream location after creek exits DU impact area	MF-SD-06L	Lower limit of pool formed by debris/beaver dam. Water deep and slow. Probable sediment deposit. Bottom at dam has aquatic vegetation. Sediment appears to be fine sand. Water Cloudy		Dam breached. Impounded water seen during March survey is gone. Channel is bedrock and gravel. Finer grain deposition near banks. Collected on NW bank.
		MF-SD-06U	Upper limit of pool. Sediment upstream of location appears coarser grained. Downstream of DU area.		
		MF-SD-07	Downstream of debris dam. Water deep and slow. Slack water eddy on east band of stream. Stream bottom rocky and sandy to next beaver dam. Channel on bedrock. Eddie area has a lot of organic material. Sediment below organics is fr gr. Unable to determine thickness of organic layer/sediment		
		MF-SD-08L	Lower limit of deep slow pool formed by beaver dam. Pool wide with trees and brush on perimeter. Channel appears deep. Possible deposition around vegetation and at eddies to west and east of dam. Water cloudy, probable sediment		
		MF-SD-08U	Approximate limit of pool, water shallow upstream. Rocky/sandy bottom upstream to MF-SD-05L		
		MF-SP-01	Just west of western perimeter on south bank, spring at bedrock outcrop. Stream in area and several hundred yards downstream is fast current on bedrock		
JP-W-19/JPG-D-19	Prior to exiting JPG facility	MF-SD-09	Just east of western perimeter along north bank. Pockets of fr gr deposition among sandy deposits. Channel in area is slower due to culvert at road. Pockets of fr gr material are much lighter in color than sandy deposits. Channel is sand with bedrock. Sediment (fr gr) are right at bank. Tree overhanging bank at location		Collected sediment at north bank.
JP-W-20/JPG-D-20	Cave sampling location "downgradient (regionally) from DU Impact Area	MF-CA-01	Sandy sediments and good flow. Need GPS location.	JPG-MF-01, located ~3500 feet downstream of Morgan Road on Northern side of creek. Reported to have spring. Need GPS location.	Very fine to fine grain sand at mouth of cave.
	Back-up cave spring location.			JPG-MF-02, located ~900 feet upstream of Morgan Road on Northern side of creek. Reported to have spring, but during visit by SAIC in September 2006 there was no flow and looked to not have flow very often.	

Stream Survey for Surface Water and Sediment Sample Locations - North Tributary

April 2008 Sample ID	Sample Location Rationale	March 2008 Stream Survey Location ID	Description/Details	Notes	Surface Water/Sediment Sampling Notes
			Deep pool on downstream side of culvert. At a stream gauge, overall bottom is rocky and sandy. Sand is med. Coarse gr. Sediment is coarse gr with rock. (no GPS, photo 25 & 26??)		
JP-W-15/JPG-D-15	Downstream location immediately downstream of DU Impact Area.	TBC-SD-01	Downstream of stream gauge. East bank of stream, stream bends to west at location. Fine gr. Material at bank		Fine grain deposition on southeast bank downstream of culvert.
		TBC-SD-02	Slower pool. Upstream of pool current fast, narrow channel. Channel widens current drops. Bottom generally sandy, pockets of fine gr. Material at coordinates. East bank		
		TBC-SD-03	Small pool formed by eddy on east bank. Channel narrow, sand. Pool has fn gr sediment. Dry during lower flow?		
			Area upstream of TBC-SD-03 (one possible location to examine on way downstream) flow is disrupted by several beaver dams. Many slow deep pools with possible sediment deposition. Bottom in area of dams has large amounts of leaf/organic debris. May not be suitable for sediment sampling.		
		TBC-TB-01	Small tributary to creek. Enters from east sediment is sandy		
		TBC-SD-04	Small eddy pool on east bank of stream. Channel sandy, narrow. Deposition on east bank fn gr - u fn sand. Downstream of beaver dams.		
		TBC-SD-05	Stream makes hard turn south. West bank in area of large tree, undercut, slow. Fn gr deposition ~2.5' from bank into channel		
			Everything upstream of TBC-SD-03 is disrupted by a series of beaver dams. May be fn gr deposition in deep pools. Large amounts of leaf/organic debris on stream bottom. May not be suitable sediment sample.		
		TBC-TB-02	Tributary to creek entering channel from east. Sediments are sandy with rock. Below beaver dam		
		TBC-BD	Large beaver dam in photo. Water impounded behind dam to at least east road. Coordinates are eastern side of dam		
		TBC-SE-01	Groundwater seep on west bank. Flow coming from under area of tree root. Some silty sediment. Organic material in area		
		TBC-SE-02	Groundwater seep on west bank. Small circular hole with low flow. Silty sediment		
		TBC-SD-06	West bank, slow moving current, with gradual bend in channel. Fn gr deposition on bend		
		TBC-SD-06	just inside of DU limit will probably need too use this for upstream of DU sample. Survey limit beyond point is swampy due to beaver dams. Too much organic material		
		TBC-SD-07	Flow split by gravel/sand bar. Fn gr deposits on west side of bar		
JP-W-16/JPG-D-16	Upstream of DU Impact Area. Upstream/background sample.	TBC-SD-08		Further search area to north of end of gamma survey and locate SW sediment location north of DU Impact boundary on the North Tributary. If suitable location cannot be located north of March Gamma Survey extent then collect samples several hundred feet upstream of boundary using dipper and attempt to collect non-organic derived sediments.	Nearing tributary headwaters. Flow is minimal to swampy. Some small pockets with fine grain deposition. Mainly organic deposition. May not have flow during drier times. Prior to collecting water sample, sediment was excavated to provide sufficient depth to fill sampling device.

Surface Water Samples	Sediment Samples	Stream Survey Location I.D.	Sample Location Rationale
JP-W-01	JP-D-01	BC-CA-03	DU Impact Area Cave
JP-W-02	JP-D-02	BC-CA-06	DU Impact Area Cave
JP-W-03	JP-D-03	BC-CA-09A	DU Impact Area Cave
JP-W-04	JP-D-04	BC-SD-03	Within DU Impact Area
JP-W-05	JP-D-05	BC-TB-02	Intermittent Tributary to Big Creek, originates and flows within DU Area
JP-W-06	JP-D-06	BC-CA-07	DU Impact Area Cave
JP-W-07	JP-D-07	BC-SD-08	Downstream boundary of JPG
JP-W-08	JP-D-08	BC-SE-04	DU Impact Area Cave replacement.
JP-W-09	JP-D-09	JPG-BC-11	DU Impact Area Cave
JP-W-10	JP-D-10	JPG-DU-12	DU Impact Area Cave
JP-W-11	JP-D-11	BC-SD-07	Downstream boundary of DU Impact area
JP-W-12	JP-D-12	BC-SD-06	Upstream of boundary of DU Impact area, background
JP-W-13	JP-D-13	BC-SD-09	Upstream of boundary of DU Impact area, background
JP-W-14	JP-D-14	BC-TB-04	Intermittent Tributary to Big Creek, originates and flows within DU Area
JP-W-15	JP-D-15	TBC-SD-01	Downstream boundary of DU Impact area
JP-W-16	JP-D-16	TBC-SD-08	Upstream of boundary of DU Impact area, background
JP-W-17	JP-D-17	MF-SD-01	Upstream of boundary of DU Impact area, background
JP-W-18	JP-D-18	MF-SD-06L	Downstream boundary of DU Impact area
JP-W-19	JP-D-19	MF-SD-09	Downstream boundary of JPG
JP-W-20	JP-D-20	MF-CA-01	Cave location on Middle Fork

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## **DATA PRESENTATION TABLES**

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Summary of Soil Sampling Field Records																
COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (cpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study	Leachability Soil
10/23/2008	Background - Avonburg and Cobbsfork	JP-SAC-001	SAIC01	3, p27-29	10/23/2008	NR	NR	63	0' to 0.5'	59	1419	11				
10/23/2008	Background - Avonburg and Cobbsfork	JP-SAC-001	SAIC02	3, p27-29	10/23/2008	NR	NR	63	0.5' to 1'	62	1423	11				JP-KAC-010
10/23/2008	Background - Avonburg and Cobbsfork	JP-SAC-001	SAIC03	3, p27-29	10/23/2008	NR	NR	63	1' to 2'	62	1428	11				JP-KAC-010
10/23/2008	Background - Avonburg and Cobbsfork	JP-SAC-001	SAIC04	3, p27-29	10/23/2008	NR	NR	63	2' to 4'	62	1430	11				JP-KAC-010
10/23/2008	Background - Avonburg and Cobbsfork	JP-SAC-002	SAIC01	3, p23-25	10/23/2008	NR	NR	53	0' to 0.5'	64	1242	10				
10/23/2008	Background - Avonburg and Cobbsfork	JP-SAC-002	SAIC02	3, p23-25	10/23/2008	NR	NR	53	0.5' to 1'	49	1244	10				
10/23/2008	Background - Avonburg and Cobbsfork	JP-SAC-002	SAIC03	3, p23-25	10/23/2008	NR	NR	53	1' to 2'	51	1247	10				
10/23/2008	Background - Avonburg and Cobbsfork	JP-SAC-002	SAIC04	3, p23-25	10/23/2008	NR	NR	53	2' to 4'	58	1249	10				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-003	SAIC01	2, p63-64	10/21/2008	NR	NR	56	0' to 0.5'	70	1141	9				JP-LAC-001
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-003	SAIC02	2, p63-64	10/21/2008	NR	NR	56	0.5' to 1'	50	1144	9				JP-LAC-001
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-003	SAIC03	2, p63-64	10/21/2008	NR	NR	56	1' to 2'	55	1147	9				JP-LAC-001
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-003	SAIC04	2, p63-64	10/21/2008	NR	NR	56	2' to 4'	39	1200	9				JP-LAC-001
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-004	SAIC01	2, p89-90	10/22/2008	4315444 57	639453 08	52	0' to 0.5'	49	1430	9				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-004	SAIC02	2, p89-90	10/22/2008	4315444 57	639453 08	52	0.5' to 1'	51	1432	9				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-004	SAIC03	2, p89-90	10/22/2008	4315444 57	639453 08	52	1' to 2'	66	1436	9				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-004	SAIC04	2, p89-90	10/22/2008	4315444 57	639453 08	52	2' to 4'	62	1440	9				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-005	SAIC01	2, p85-86	10/22/2008	NR	NR	52	0' to 0.5'	51	1217	10				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-005	SAIC02	2, p85-86	10/22/2008	NR	NR	52	0.5' to 1'	37	1220	10				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-005	SAIC03	2, p85-86	10/22/2008	NR	NR	52	1' to 2'	46	1221	10				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-005	SAIC04	2, p85-86	10/22/2008	NR	NR	52	2' to 4'	70	1223	10				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-006	SAIC01	2, p87-88	10/22/2008	NR	NR	44	0' to 0.5'	52	1328	9				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-006	SAIC02	2, p87-88	10/22/2008	NR	NR	44	0.5' to 1'	60	1333	9				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-006	SAIC03	2, p87-88	10/22/2008	NR	NR	44	1' to 2'	58	1340	9				
10/22/2008	Background - Avonburg and Cobbsfork	JP-SAC-006	SAIC04	2, p87-88	10/22/2008	NR	NR	44	2' to 4'	71	1343	9				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-007	SAIC01	2, p67-68	10/21/2008	NR	NR	46	0' to 0.5'	60	1410	9				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-007	SAIC02	2, p67-68	10/21/2008	NR	NR	46	0.5' to 1'	27	1412	9				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-007	SAIC03	2, p67-68	10/21/2008	NR	NR	46	1' to 2'	41	1415	9				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-007	SAIC04	2, p67-68	10/21/2008	NR	NR	46	2' to 4'	62	1417	9				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-008	SAIC01	2, p65-66	10/21/2008	NR	NR	49	0' to 0.5'	54	1252	9.5				JP-KAC-009
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-008	SAIC02	2, p65-66	10/21/2008	NR	NR	49	0.5' to 1'	60	1257	9.5				JP-KAC-009
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-008	SAIC03	2, p65-66	10/21/2008	NR	NR	49	1' to 2'	68	1301	9.5				JP-KAC-009
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-008	SAIC04	2, p65-66	10/21/2008	NR	NR	49	2' to 4'	56	1306	9.5				JP-KAC-009
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-009	SAIC01	2, p69-70	10/21/2008	NR	NR	60	0' to 0.5'	66	1507	10				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-009	SAIC02	2, p69-70	10/21/2008	NR	NR	60	0.5' to 1'	81	1508	10				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-009	SAIC03	2, p69-70	10/21/2008	NR	NR	60	1' to 2'	54	1510	10				
10/21/2008	Background - Avonburg and Cobbsfork	JP-SAC-009	SAIC04	2, p69-70	10/21/2008	NR	NR	60	2' to 4'	50	1517	10				
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-001	SAIC01	2, p59-60	10/21/2008	NR	NR	45	0' to 0.5'	60	0947	10				JP-LCR-001
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-001	SAIC02	2, p59-60	10/21/2008	NR	NR	45	0.5' to 1'	65	0950	10				JP-LCR-001
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-001	SAIC03	2, p59-60	10/21/2008	NR	NR	45	1' to 2'	65	0953	10				JP-LCR-001
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-001	SAIC04	2, p59-60	10/21/2008	NR	NR	45	2' to 4'	64	0957	10				JP-LCR-001
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-002	SAIC01	3, p29-31	10/23/2008	NR	NR	47	0' to 0.5'	59	1529	11				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-002	SAIC02	3, p29-31	10/23/2008	NR	NR	47	0.5' to 1'	71	1532	11				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-002	SAIC03	3, p29-31	10/23/2008	NR	NR	47	1' to 2'	74	1537	11				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-002	SAIC04	3, p29-31	10/23/2008	NR	NR	47	2' to 4'	68	1539	11				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-003	SAIC01	3, p25-27	10/23/2008	NR	NR	56	0' to 0.5'	61	1347	10				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-003	SAIC02	3, p25-27	10/23/2008	NR	NR	56	0.5' to 1'	71	1349	10				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-003	SAIC03	3, p25-27	10/23/2008	NR	NR	56	1' to 2'	66	1352	10				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-003	SAIC04	3, p25-27	10/23/2008	NR	NR	56	2' to 4'	65	1401	10				
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-004	SAIC01	2, p61-62	10/21/2008	NR	NR	54	0' to 0.5'	62	1010	9				JP-KCR-009
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-004	SAIC02	2, p61-62	10/21/2008	NR	NR	54	0.5' to 1'	73	1015	9				JP-KCR-009
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-004	SAIC03	2, p61-62	10/21/2008	NR	NR	54	1' to 2'	61	1020	9				JP-KCR-009
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-004	SAIC04	2, p61-62	10/21/2008	NR	NR	54	2' to 4'	61	1047	9				JP-KCR-009
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-005	SAIC01	3, p19-21	10/23/2008	NR	NR	49	0' to 0.5'	68	1023	10				JP-KCR-010
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-005	SAIC02	3, p19-21	10/23/2008	NR	NR	49	0.5' to 1'	55	1027	10				JP-KCR-010
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-005	SAIC03	3, p19-21	10/23/2008	NR	NR	49	1' to 2'	69	1034	10				JP-KCR-010
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-005	SAIC04	3, p19-21	10/23/2008	NR	NR	49	2' to 4'	62	1039	10				JP-KCR-010
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-006	SAIC01	3, p21-23	10/23/2008	NR	NR	62	0' to 0.5'	56	1142	12				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-006	SAIC02	3, p21-23	10/23/2008	NR	NR	62	0.5' to 1'	60	1144	12				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-006	SAIC03	3, p21-23	10/23/2008	NR	NR	62	1' to 2'	68	1145	12				
10/23/2008	Background - Cincinnati and Rossmoyne	JP-SCR-006	SAIC04	3, p21-23	10/23/2008	NR	NR	62	2' to 4'	71	1152	12				
10/22/2008	Background - Cincinnati and Rossmoyne	JP-SCR-007	SAIC01	2, p91-92	10/22/2008	NR	NR	63	0' to 0.5'	65	1553	11				
10/22/2008	Background - Cincinnati and Rossmoyne	JP-SCR-007	SAIC02	2, p91-92	10/22/2008	NR	NR	63	0.5' to 1'	79	1554	11				
10/22/2008	Background - Cincinnati and Rossmoyne	JP-SCR-007	SAIC03	2, p91-92	10/22/2008	NR	NR	63	1' to 2'	69	1557	11				
10/22/2008	Background - Cincinnati and Rossmoyne	JP-SCR-007	SAIC04	2, p91-92	10/22/2008	NR	NR	63	2' to 4'	58	1558	11				
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-008	SAIC01	2, p73-74	10/21/2008	NR	NR	58	0' to 0.5'	69	1720	10				
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-008	SAIC02	2, p73-74	10/21/2008	NR	NR	58	0.5' to 1'	81	1723	10				
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-008	SAIC03	2, p73-74	10/21/2008	NR	NR	58	1' to 2'	69	1725	10				
10/21/2008	Background - Cincinnati and Rossmoyne	JP-SCR-008	SAIC04	2, p73-74	10/21/2008	NR	NR	58	2' to 4'	73	1730	10				
10/22/2008	Background - Cincinnati and Rossmoyne	JP-SCR-009	SAIC01	2, p79-80	10/22/2008	NR	NR	42	0' to 0.5'	70	1002	11				
10/22/2008	Background - Cincinnati and Rossmoyne	JP-SCR-009	SAIC02	2, p79-80	10/22/2008	NR	NR	42	0.5' to 1'	77	1004	11				
10/22/2008	Background - Cincinnati and Rossmoyne	JP-SCR-009	SAIC03	2, p79-80	10/22/2008	NR	NR	42	1' to 2'	75	1006	11				
10/22/2008	Background - Cincinnati and Rossmoyne	JP-SCR-009	SAIC04	2, p79-80	10/22/2008	NR	NR	42	2' to 4'	64	1010	11				
10/23/2008	Background - Grayford and Ryker	JP-SGR-001	SAIC01	2, p99-100	10/23/2008	NR	NR	50	0' to 0.5'	75	0947	10				
10/23/2008	Background - Grayford and Ryker	JP-SGR-001	SAIC02	2, p99-100	10/23/2008	NR	NR	50	0.5' to 1'	70	0949	10				
10/23/2008	Background - Grayford and Ryker	JP-SGR-001	SAIC03	2, p99-100	10/23/2008	NR	NR	50	1' to 2'	77	0953	10				
10/23/2008	Background - Grayford and Ryker	JP-SGR-001	SAIC04	2, p99-100	10/23/2008	NR	NR	50	2' to 4'	70	1056	10				
10/23/2008	Background - Grayford and Ryker	JP-SGR-002	SAIC01	2, p97-98	10/23/2008	NR	NR	46	0' to 0.5'	54	0839	9				
10/23/2008	Background - Grayford and Ryker	JP-SGR-002	SAIC02	2, p97-98	10/23/2008	NR	NR	46	0.5' to 1							

## Summary of Soil Sampling Field Records

COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (gpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study	Leachability Soil
10/22/2008	Background - Grayford and Ryker	JP-SGR-004	SAIC02	2, p83-84	10/22/2008	NR	NR	42	0' to 1'	61	1149	10				JP-LGR-001
10/22/2008	Background - Grayford and Ryker	JP-SGR-004	SAIC03	2, p83-84	10/22/2008	NR	NR	42	1' to 2'	67	1151	11				JP-LGR-001
10/22/2008	Background - Grayford and Ryker	JP-SGR-004	SAIC04	2, p83-84	10/22/2008	NR	NR	42	2' to 4'	74	1200	11				JP-LGR-001
10/22/2008	Background - Grayford and Ryker	JP-SGR-005	SAIC01	2, p93-94	10/22/2008	NR	NR	53	0' to 0.5'	75	1631	11				
10/22/2008	Background - Grayford and Ryker	JP-SGR-005	SAIC02	2, p93-94	10/22/2008	NR	NR	53	0.5' to 1'	65	1632	11				
10/22/2008	Background - Grayford and Ryker	JP-SGR-005	SAIC03	2, p93-94	10/22/2008	NR	NR	53	1' to 2'	63	1635	11				
10/22/2008	Background - Grayford and Ryker	JP-SGR-005	SAIC04	2, p93-94	10/22/2008	NR	NR	53	2' to 4'	80	1638	11				
10/22/2008	Background - Grayford and Ryker	JP-SGR-006	SAIC01	2, p81-82	10/22/2008	NR	NR	66	0' to 0.5'	64	1028	11				
10/22/2008	Background - Grayford and Ryker	JP-SGR-006	SAIC02	2, p81-82	10/22/2008	NR	NR	66	0.5' to 1'	72	1033	11				
10/22/2008	Background - Grayford and Ryker	JP-SGR-006	SAIC03	2, p81-82	10/22/2008	NR	NR	66	1' to 2'	65	1034	11				
10/22/2008	Background - Grayford and Ryker	JP-SGR-006	SAIC04	2, p81-82	10/22/2008	NR	NR	66	2' to 4'	59	1036	11				
10/21/2008	Background - Grayford and Ryker	JP-SGR-007	SAIC01	2, p75-76	10/21/2008	NR	NR	56	0' to 0.5'	77	1744	11				JP-KGR-004
10/21/2008	Background - Grayford and Ryker	JP-SGR-007	SAIC02	2, p75-76	10/21/2008	NR	NR	56	0.5' to 1'	88	1747	11				JP-KGR-004
10/21/2008	Background - Grayford and Ryker	JP-SGR-007	SAIC03	2, p75-76	10/21/2008	NR	NR	56	1' to 2'	67	1751	11				JP-KGR-004
10/21/2008	Background - Grayford and Ryker	JP-SGR-007	SAIC04	2, p75-76	10/21/2008	NR	NR	56	2' to 4'	70	1754	11				JP-KGR-004
10/21/2008	Background - Grayford and Ryker	JP-SGR-008	SAIC01	2, p71-72	10/21/2008	NR	NR	39	0' to 0.5'	48	1620	10				JP-KGR-003
10/21/2008	Background - Grayford and Ryker	JP-SGR-008	SAIC02	2, p71-72	10/21/2008	NR	NR	39	0.5' to 1'	62	1622	10				JP-KGR-003
10/21/2008	Background - Grayford and Ryker	JP-SGR-008	SAIC03	2, p71-72	10/21/2008	NR	NR	39	1' to 2'	65	1629	10				JP-KGR-003
10/21/2008	Background - Grayford and Ryker	JP-SGR-008	SAIC04	2, p71-72	10/21/2008	NR	NR	39	2' to 4'	60	1634	10				JP-KGR-003
10/22/2008	Background - Grayford and Ryker	JP-SGR-009	SAIC01	2, p77-78	10/22/2008	NR	NR	74	0' to 0.5'	76	0912	9				
10/22/2008	Background - Grayford and Ryker	JP-SGR-009	SAIC02	2, p77-78	10/22/2008	NR	NR	74	0.5' to 1'	53	0914	9				
10/22/2008	Background - Grayford and Ryker	JP-SGR-009	SAIC03	2, p77-78	10/22/2008	NR	NR	74	1' to 2'	63	0916	9				
10/22/2008	Background - Grayford and Ryker	JP-SGR-009	SAIC04	2, p77-78	10/22/2008	NR	NR	74	2' to 4'	57	0930	9				
10/12/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-001	SAIC01	2, p5-7	10/12/2008	NR	NR	43	0' to 0.5'	58	1414	10				
10/12/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-001	SAIC02	2, p5-7	10/12/2008	NR	NR	43	0.5' to 1'	61	1416	10				
10/12/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-001	SAIC03	2, p5-7	10/12/2008	NR	NR	43	1' to 2'	50	1417	10				
10/12/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-001	SAIC04	2, p5-7	10/12/2008	NR	NR	43	2' to 4'	51	1420	10				
10/13/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-002	SAIC01	2, p22-24	10/13/2008	NR	NR	52	0' to 0.5'	45	1017	12				
10/13/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-002	SAIC02	2, p22-24	10/13/2008	NR	NR	52	0.5' to 1'	58	1019	12				
10/13/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-002	SAIC03	2, p22-24	10/13/2008	NR	NR	52	1' to 2'	57	1023	12				
10/13/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-002	SAIC04	2, p22-24	10/13/2008	NR	NR	52	2' to 4'	68	1026	12				
10/13/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-003	SAIC01	2, p20-22	10/13/2008	43083724	63729510	39	0' to 0.5'	47	0922	10				
10/13/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-003	SAIC02	2, p20-22	10/13/2008	43083724	63729510	39	0.5' to 1'	47	0923	10				
10/13/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-003	SAIC03	2, p20-22	10/13/2008	43083724	63729510	39	1' to 2'	52	0925	10				
10/13/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-003	SAIC04	2, p20-22	10/13/2008	43083724	63729510	39	2' to 4'	60	0930	10				
10/14/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-004	SAIC01	3, p7-8	10/14/2008	430843637	63629658	56	0' to 0.5'	61	1238	11				
10/14/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-004	SAIC02	3, p7-8	10/14/2008	430843637	63629658	56	0.5' to 1'	77	1238	11				
10/14/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-004	SAIC03	3, p7-8	10/14/2008	430843637	63629658	56	1' to 2'	56	1241	11				
10/14/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-004	SAIC04	3, p7-8	10/14/2008	430843637	63629658	56	2' to 4'	72	1243	11				
10/9/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-005	SAIC01	1, p45-47	10/9/2008	NR	NR	48	0' to 0.5'	69	1321	10				
10/9/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-005	SAIC02	1, p45-47	10/9/2008	NR	NR	48	0.5' to 1'	73	NR (1325)	10				
10/9/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-005	SAIC03	1, p45-47	10/9/2008	NR	NR	48	1' to 2'	NA	NA	NA				
10/9/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-005	SAIC04	1, p45-47	10/9/2008	NR	NR	48	2' to 4'	NA	NA	NA				
10/7/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-006	SAIC01	1, p3-4	10/7/2008	NR	NR	61	0' to 0.5'	67	1105	8				
10/7/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-006	SAIC02	1, p3-4	10/7/2008	NR	NR	61	0.5' to 1'	71	1105	8				
10/7/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-006	SAIC03	1, p3-4	10/7/2008	NR	NR	61	1' to 2'	65	1111	8				
10/7/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-006	SAIC04	1, p3-4	10/7/2008	NR	NR	61	2' to 4'	69	1116	8				
10/7/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-007	SAIC01	1, p5-6	10/7/2008	NR	NR	67	0' to 0.5'	87	1200	9				
10/7/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-007	SAIC02	1, p5-6	10/7/2008	NR	NR	67	0.5' to 1'	78	1205	9				
10/7/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-007	SAIC03	1, p5-6	10/7/2008	NR	NR	67	1' to 2'	NR (62)	1213	9				
10/7/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-007	SAIC04	1, p5-6	10/7/2008	NR	NR	67	2' to 4'	NR (82)	1218	9				
10/10/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-008	SAIC01	1, p56-57	10/10/2008	NR	NR	55	0' to 0.5'	79	0849	8				
10/10/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-008	SAIC02	1, p56-57	10/10/2008	NR	NR	55	0.5' to 1'	86	0851	8				
10/10/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-008	SAIC03	1, p56-57	10/10/2008	NR	NR	55	1' to 2'	80	0853	8				
10/10/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-008	SAIC04	1, p56-57	10/10/2008	NR	NR	55	2' to 4'	62	0855	8				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-009	SAIC01	1, p19-20	10/8/2008	NR	NR	57	0' to 0.5'	77	0856	11				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-009	SAIC02	1, p19-20	10/8/2008	NR	NR	57	0.5' to 1'	68	0858	11				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-009	SAIC03	1, p19-20	10/8/2008	NR	NR	57	1' to 2'	70	0904	11				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-009	SAIC04	1, p19-20	10/8/2008	NR	NR	57	2' to 4'	60	0908	11				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-010	SAIC01	1, p30-31	10/8/2008	NR	NR	50	0' to 0.5'	64	1356	10				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-010	SAIC02	1, p30-31	10/8/2008	NR	NR	50	0.5' to 1'	65	1358	10				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-010	SAIC03	1, p30-31	10/8/2008	NR	NR	50	1' to 2'	85	1401	10				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-010	SAIC04	1, p30-31	10/8/2008	NR	NR	50	2' to 4'	74	1403	10				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-011	SAIC01	1, p32-33	10/8/2008	NR	NR	64	0' to 0.5'	66	1445	11				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-011	SAIC02	1, p32-33	10/8/2008	NR	NR	64	0.5' to 1'	61	1447	11				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-011	SAIC03	1, p32-33	10/8/2008	NR	NR	64	1' to 2'	84	1452	11				
10/8/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-011	SAIC04	1, p32-33	10/8/2008	NR	NR	64	2' to 4'	70	1456	11				
10/10/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-012	SAIC01	1, p64-66	10/10/2008	NR	NR	60	0' to 0.5'	80	NR (1326)	11				
10/10/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-012	SAIC02	1, p64-66	10/10/2008	NR	NR	60	0.5' to 1'	80	NR (1327)	11				
10/10/2008	Category 1 - Outside DU Impact Area Penmeter	JP-SC1-012	SAIC03	1, p64-66	10/10/2008	NR	NR	60	1' to 2'	86	NR (1330)	11				

RAD screen not written in soil logbook for 1-2 BGS and 2-4' BGS intervals. It is assumed that the RAD screen was written accidentally in the RAD screen bkg section. Thus, the RAD screen values cells show NR but included in parenthesis for 1-2' BGS and 2-4' BGS intervals.

Summary of Soil Sampling Field Records

COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (cpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study	Leachability Soil
													For 0.5-1' BGS interval, the RAD screen is 80 cpm. No sample collection time written for any sampled interval in soil logbook 1 for "JP-SC1-012", but times shown on COC were used (in parentheses). Bedrock refusal at 1.8' BGS, thus no soil samples from 2-4' BGS interval.			
10/10/2008	Category 1 - Outside DU Impact Area Perimeter	JP-SC1-012	SAIC04	1: p64-66	10/10/2008	NR	NR	60	2' to 4'	NA	NA	NA				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-001	SAIC01	1: p16-18	10/7/2008	NR	NR	61	0' to 0.5'	75	1643	8	Station ID is written incorrectly in soil logbook 1 as "JP-SC6-001". It should be "JP-SC2-001" after checking COC. Also, soil data for 4-6' BGS interval was erroneously collected by accident (in parenthesis) and no soil sample was collected at this interval.			
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-001	SAIC02	1: p16-18	10/7/2008	NR	NR	61	0.5' to 1'	66	1644	8				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-001	SAIC03	1: p16-18	10/7/2008	NR	NR	61	1' to 2'	68	1646	8				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-001	SAIC04	1: p16-18	10/7/2008	NR	NR	61	2' to 4'	68	1648	8				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-001	SAIC01	1: p16-18	10/7/2008	NR	NR	61	4' to 6'	67	1650	6				
10/8/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-002	SAIC01	1: p34-35	10/8/2008	NR	NR	50	0' to 0.5'	55	1539	10				
10/8/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-002	SAIC02	1: p34-35	10/8/2008	NR	NR	50	0.5' to 1'	69	1541	10				
10/8/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-002	SAIC03	1: p34-35	10/8/2008	NR	NR	50	1' to 2'	75	1544	10				
10/8/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-002	SAIC04	1: p34-35	10/8/2008	NR	NR	50	2' to 4'	48	1546	10				
10/12/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-003	SAIC01	1: p96-97	10/12/2008	NR	NR	44	0' to 0.5'	62	1007	8				
10/12/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-003	SAIC02	1: p96-97	10/12/2008	NR	NR	44	0.5' to 1'	59	1010	8				
10/12/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-003	SAIC03	1: p96-97	10/12/2008	NR	NR	44	1' to 2'	60	1012	8				
10/12/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-003	SAIC04	1: p96-97	10/12/2008	NR	NR	44	2' to 4'	55	1019	8				
10/9/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-004	SAIC01	1: p43-44	10/9/2008	NR	NR	43	0' to 0.5'	63	1239	11	Station IDs not written out in their entirety on p 44 of soil logbook 1 (it is determined that these Station IDs are JP-SC2-004 after checking sample times against COC)			
10/9/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-004	SAIC02	1: p43-44	10/9/2008	NR	NR	43	0.5' to 1'	70	1241	11				
10/9/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-004	SAIC03	1: p43-44	10/9/2008	NR	NR	43	1' to 2'	72	1244	11				
10/9/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-004	SAIC04	1: p43-44	10/9/2008	NR	NR	43	2' to 4'	68	1248	11				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-005	SAIC01	1: p1-2	10/7/2008	4303090.51	636646.57	53	0' to 0.5'	72	0946	9				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-005	SAIC02	1: p1-2	10/7/2008	4303090.51	636646.57	53	0.5' to 1'	78	0949	9				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-005	SAIC03	1: p1-2	10/7/2008	4303090.51	636646.57	53	1' to 2'	64	0953	9				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-005	SAIC04	1: p1-2	10/7/2008	4303090.51	636646.57	53	2' to 4'	63	0959	9				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-006	SAIC01	1: p7-8	10/7/2008	NR	NR	72	0' to 0.5'	71	1307	8				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-006	SAIC02	1: p7-8	10/7/2008	NR	NR	72	0.5' to 1'	69	1311	8				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-006	SAIC03	1: p7-8	10/7/2008	NR	NR	72	1' to 2'	78	1320	8				
10/7/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-006	SAIC04	1: p7-8	10/7/2008	NR	NR	72	2' to 4'	69	1323	8				
10/10/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-007	SAIC01	1: p58-59	10/10/2008	NR	NR	57	0' to 0.5'	59	0933	10				
10/10/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-007	SAIC02	1: p58-59	10/10/2008	NR	NR	57	0.5' to 1'	65	0936	10				
10/10/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-007	SAIC03	1: p58-59	10/10/2008	NR	NR	57	1' to 2'	57	0939	10				
10/10/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-007	SAIC04	1: p58-59	10/10/2008	NR	NR	57	2' to 4'	63	0942	10				
10/13/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-008	SAIC01	2: p24-26	10/13/2008	NR	NR	53	0' to 0.5'	59	1056	11				
10/13/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-008	SAIC02	2: p24-26	10/13/2008	NR	NR	53	0.5' to 1'	42	1058	11				
10/13/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-008	SAIC03	2: p24-26	10/13/2008	NR	NR	53	1' to 2'	57	1100	11				
10/13/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-008	SAIC04	2: p24-26	10/13/2008	NR	NR	53	2' to 4'	58	1102	11				
10/12/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-009	SAIC01	2: 16-17	10/12/2008	NR	NR	61	0' to 0.5'	39	1752	8				
10/12/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-009	SAIC02	2: 16-17	10/12/2008	NR	NR	61	0.5' to 1'	52	1756	8				
10/12/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-009	SAIC03	2: 16-17	10/12/2008	NR	NR	61	1' to 2'	51	1757	8				
10/12/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-009	SAIC04	2: 16-17	10/12/2008	NR	NR	61	2' to 4'	52	1800	8				
10/14/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-010	SAIC01	3: 9-10	10/14/2008	NR	NR	43	0' to 0.5'	69	1315	11				
10/14/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-010	SAIC02	3: 9-10	10/14/2008	NR	NR	43	0.5' to 1'	66	1317	11				
10/14/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-010	SAIC03	3: 9-10	10/14/2008	NR	NR	43	1' to 2'	68	1319	11				
10/14/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-010	SAIC04	3: 9-10	10/14/2008	NR	NR	43	2' to 4'	73	1319	11				
10/8/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-011	SAIC01	1: p28-29	10/8/2008	NR	NR	58	0' to 0.5'	64	1307	8	Bedrock refusal at 3' BGS, thus, soil sample from 2-4' BGS interval was collected between 2' and 3' BGS			
10/8/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-011	SAIC02	1: p28-29	10/8/2008	NR	NR	58	0.5' to 1'	58	1313	8				
10/8/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-011	SAIC03	1: p28-29	10/8/2008	NR	NR	58	1' to 2'	72	1315	8				
10/8/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-011	SAIC04	1: p28-29	10/8/2008	NR	NR	58	2' to 4'	78	1317	8				
10/11/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-012	SAIC01	1: p77-78	10/11/2008	NR	NR	53	0' to 0.5'	63	0923	10				
10/11/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-012	SAIC02	1: p77-78	10/11/2008	NR	NR	53	0.5' to 1'	65	0927	10				
10/11/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-012	SAIC03	1: p77-78	10/11/2008	NR	NR	53	1' to 2'	74	0930	10				
10/11/2008	Category 2 - Immediately Inside DU Impact Area	JP-SC2-012	SAIC04	1: p77-78	10/11/2008	NR	NR	53	2' to 4'	59	0934	10				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-001	SAIC01	1: p25-27	10/8/2008	NR	NR	75	0' to 0.5'	67	1037	11				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-001	SAIC02	1: p25-27	10/8/2008	NR	NR	75	0.5' to 1'	67	1140	11				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-001	SAIC03	1: p25-27	10/8/2008	NR	NR	75	1' to 2'	77	1143	11				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-001	SAIC04	1: p25-27	10/8/2008	NR	NR	75	2' to 4'	58	1145	11				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-001	SAIC05	1: p25-27	10/8/2008	NR	NR	75	4' to 6'	81	1147	11				

Summary of Soil Sampling Field Records																
COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (cpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study Soil Bags ID	Leachability Soil Bags ID
10/9/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-002	SAIC01	1: p53-55	10/9/2008	NR	NR	52	0' to 0.5'	51	1707	12				
10/9/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-002	SAIC02	1: p53-55	10/9/2008	NR	NR	52	0.5' to 1'	77	1709	12				
10/9/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-002	SAIC03	1: p53-55	10/9/2008	NR	NR	52	1' to 2'	66	1711	12				
10/9/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-002	SAIC04	1: p53-55	10/9/2008	NR	NR	52	2' to 4'	56	1721	12				
10/9/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-002	SAIC05	1: p53-55	10/9/2008	NR	NR	52	4' to 6'	66	1714	12				
10/12/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-003	SAIC01	2: p3-5	10/12/2008	4306051.73	636938.36	40	0' to 0.5'	53	1304	10				
10/12/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-003	SAIC02	2: p3-5	10/12/2008	4306051.73	636938.36	40	0.5' to 1'	70	1306	10				
10/12/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-003	SAIC03	2: p3-5	10/12/2008	4306051.73	636938.36	40	1' to 2'	64	1309	10				
10/12/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-003	SAIC04	2: p3-5	10/12/2008	4306051.73	636938.36	40	2' to 4'	48	1313	10				
10/12/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-003	SAIC05	2: p3-5	10/12/2008	4306051.73	636938.36	40	4' to 6'	57	1323	10				
10/7/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-004	SAIC01	1: p13-15	10/7/2008	NR	NR	63	0' to 0.5'	77	1533	8				
10/7/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-004	SAIC02	1: p13-15	10/7/2008	NR	NR	63	0.5' to 1'	77	1534	8				
10/7/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-004	SAIC03	1: p13-15	10/7/2008	NR	NR	63	1' to 2'	60	1538	8				
10/7/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-004	SAIC04	1: p13-15	10/7/2008	NR	NR	63	2' to 4'	64	1540	8				
10/7/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-004	SAIC05	1: p13-15	10/7/2008	NR	NR	63	4' to 6'	60	1544	8				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-005	SAIC01	1: p36-38	10/8/2008	NR	NR	64	0' to 0.5'	99	1658	10				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-005	SAIC02	1: p36-38	10/8/2008	NR	NR	64	0.5' to 1'	62	1700	10				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-005	SAIC03	1: p36-38	10/8/2008	NR	NR	64	1' to 2'	58	1702	10				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-005	SAIC04	1: p36-38	10/8/2008	NR	NR	64	2' to 4'	60	1705	10				
10/8/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-005	SAIC05	1: p36-38	10/8/2008	NR	NR	64	4' to 6'	68	1708	10				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-006	SAIC01	2: p50-52	10/20/2008	NR	NR	45	0' to 0.5'	59	1332	9				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-006	SAIC02	2: p50-52	10/20/2008	NR	NR	45	0.5' to 1'	42	1336	9				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-006	SAIC03	2: p50-52	10/20/2008	NR	NR	45	1' to 2'	63	1339	9				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-006	SAIC04	2: p50-52	10/20/2008	NR	NR	45	2' to 4'	73	1343	9				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-006	SAIC05	2: p50-52	10/20/2008	NR	NR	45	4' to 6'	64	1348	9				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-007	SAIC01	2: p26-28	10/13/2008	NR	NR	49	0' to 0.5'	47	1152	10				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-007	SAIC02	2: p26-28	10/13/2008	NR	NR	49	0.5' to 1'	56	1154	10				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-007	SAIC03	2: p26-28	10/13/2008	NR	NR	49	1' to 2'	73	1200	10				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-007	SAIC04	2: p26-28	10/13/2008	NR	NR	49	2' to 4'	57	1203	10				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-007	SAIC05	2: p26-28	10/13/2008	NR	NR	49	4' to 6'	43	1206	10				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-008	SAIC01	2: p18-20	10/13/2008	NR	NR	49	0' to 0.5'	46	0635	9				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-008	SAIC02	2: p18-20	10/13/2008	NR	NR	49	0.5' to 1'	45	0640	9				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-008	SAIC03	2: p18-20	10/13/2008	NR	NR	49	1' to 2'	49	0644	9				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-008	SAIC04	2: p18-20	10/13/2008	NR	NR	49	2' to 4'	57	0649	9				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-008	SAIC05	2: p18-20	10/13/2008	NR	NR	49	4' to 6'	66	0652	9				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-009	SAIC01	2: p42-44	10/20/2008	NR	NR	44	0' to 0.5'	71	0930	10	No sample collection time written for 4-6 BGS sample in soil logbook 2, but time shown on COC is used (in parenthesis)			
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-009	SAIC02	2: p42-44	10/20/2008	NR	NR	44	0.5' to 1'	46	0932	10				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-009	SAIC03	2: p42-44	10/20/2008	NR	NR	44	1' to 2'	69	0935	10				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-009	SAIC04	2: p42-44	10/20/2008	NR	NR	44	2' to 4'	76	0938	10				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-009	SAIC05	2: p42-44	10/20/2008	NR	NR	44	4' to 6'	66	NR (941)	10				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-010	SAIC01	2: p57-58	10/20/2008	NR	NR	53	0' to 0.5'	56	1639	10	Bedrock refusal at 3.5' BGS, thus, no soil sample from 4-6 BGS interval			
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-010	SAIC02	2: p57-58	10/20/2008	NR	NR	53	0.5' to 1'	65	1641	10				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-010	SAIC03	2: p57-58	10/20/2008	NR	NR	53	1' to 2'	70	1652	10				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-010	SAIC04	2: p57-58	10/20/2008	NR	NR	53	2' to 4'	69	1700	10				
10/20/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-010	SAIC05	2: p57-58	10/20/2008	NR	NR	53	4' to 6'	NA	NA	NA				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-011	SAIC01	2: p33-34	10/13/2008	NR	NR	47	0' to 0.5'	64	1502	11	Bedrock refusal at 3.75' BGS, thus, no soil sample from 4-6 BGS interval			
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-011	SAIC02	2: p33-34	10/13/2008	NR	NR	47	0.5' to 1'	68	1504	11				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-011	SAIC03	2: p33-34	10/13/2008	NR	NR	47	1' to 2'	62	1505	11				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-011	SAIC04	2: p33-34	10/13/2008	NR	NR	47	2' to 4'	48	1507	11				
10/13/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-011	SAIC05	2: p33-34	10/13/2008	NR	NR	47	4' to 6'	NA	NA	NA				
10/10/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-012	SAIC01	1: p72-74	10/10/2008	NR	NR	63	0' to 0.5'	80	1655	11	Station ID is written incorrectly in soil logbook 1 as "JP-SC4-012" It should be "JP-SC3-012" after checking COC RAD background screen and dose rate not written in soil logbook 1 for 2-4' BGS and 4-6' BGS intervals (but included in parentheses)			
10/10/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-012	SAIC02	1: p72-74	10/10/2008	NR	NR	63	0.5' to 1'	73	1657	11				
10/10/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-012	SAIC03	1: p72-74	10/10/2008	NR	NR	63	1' to 2'	53	1659	11				
10/10/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-012	SAIC04	1: p72-74	10/10/2008	NR	NR	63	2' to 4'	72	1701	NR (11)				
10/10/2008	Category 3 - Midway to DU Impact Area Trenches	JP-SC3-012	SAIC05	1: p72-74	10/10/2008	NR	NR	63	4' to 6'	69	1703	NR (11)				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-001	SAIC01	1: p91-93	10/11/2008	NR	NR	53	0' to 0.5'	63	1635	9				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-001	SAIC02	1: p91-93	10/11/2008	NR	NR	53	0.5' to 1'	52	1637	9				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-001	SAIC03	1: p91-93	10/11/2008	NR	NR	53	1' to 2'	41	1639	9				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-001	SAIC04	1: p91-93	10/11/2008	NR	NR	53	2' to 4'	49	1641	9				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-001	SAIC05	1: p91-93	10/11/2008	NR	NR	53	4' to 6'	56	1648	9				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-002	SAIC01	2: p37-39	10/13/2008	NR	NR	46	0' to 0.5'	63	1731	10	Bedrock refusal at 3.5' BGS, thus, no soil sample from 4-6 BGS interval			
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-002	SAIC02	2: p37-39	10/13/2008	NR	NR	46	0.5' to 1'	59	1733	10				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-002	SAIC03	2: p37-39	10/13/2008	NR	NR	46	1' to 2'	57	1735	10				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-002	SAIC04	2: p37-39	10/13/2008	NR	NR	46	2' to 4'	62	1756	10				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-002	SAIC05	2: p37-39	10/13/2008	NR	NR	46	4' to 6'	NA	NA	NA				

Summary of Soil Sampling Field Records

COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northings	Easting	BK (cpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study	Leachability Soil
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-003	SAIC01	1: p62-64	10/10/2008	NR	NR	56	0' to 0.5'	80	1158	12				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-003	SAIC02	1: p62-64	10/10/2008	NR	NR	56	0.5' to 1'	87	1200	12				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-003	SAIC03	1: p62-64	10/10/2008	NR	NR	56	1' to 2'	82	1202	12				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-003	SAIC04	1: p62-64	10/10/2008	NR	NR	56	2' to 4'	69	1204	12				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-003	SAIC05	1: p62-64	10/10/2008	NR	NR	56	4' to 6'	73	1206	12				
10/7/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-004	SAIC01	1: p11-13, 16	10/7/2008	NR	NR	79	0' to 0.5'	60	1504	8				
10/7/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-004	SAIC02	1: p11-13, 16	10/7/2008	NR	NR	79	0.5' to 1'	65	1506	8				
10/7/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-004	SAIC03	1: p11-13, 16	10/7/2008	NR	NR	79	1' to 2'	58	1508	8				
10/7/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-004	SAIC04	1: p11-13, 16	10/7/2008	NR	NR	79	2' to 4'	68	1510	8				
10/7/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-004	SAIC05	1: p11-13, 16	10/7/2008	NR	NR	79	4' to 6'	65	1515	8				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-005	SAIC01	1: p68-70	10/10/2008	NR	NR	53	0' to 0.5'	64	1521	9				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-005	SAIC02	1: p68-70	10/10/2008	NR	NR	53	0.5' to 1'	68	1525	9				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-005	SAIC03	1: p68-70	10/10/2008	NR	NR	53	1' to 2'	67	1529	9				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-005	SAIC04	1: p68-70	10/10/2008	NR	NR	53	2' to 4'	66	1535	9				
10/10/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-005	SAIC05	1: p68-70	10/10/2008	NR	NR	53	4' to 6'	58	1540	9				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-006	SAIC01	1: 38-40	10/8/2008	NR	NR	51	0' to 0.5'	57	1721	8				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-006	SAIC02	1: 38-40	10/8/2008	NR	NR	51	0.5' to 1'	62	1723	8				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-006	SAIC03	1: 38-40	10/8/2008	NR	NR	51	1' to 2'	51	1725	8				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-006	SAIC04	1: 38-40	10/8/2008	NR	NR	51	2' to 4'	63	1730	8				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-006	SAIC05	1: 38-40	10/8/2008	NR	NR	51	4' to 6'	83	1732	8				
10/14/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-007	SAIC01	3: p13-15	10/14/2008	NR	NR	59	0' to 0.5'	69	1600	12				
10/14/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-007	SAIC02	3: p13-15	10/14/2008	NR	NR	59	0.5' to 1'	58	1601	12				
10/14/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-007	SAIC03	3: p13-15	10/14/2008	NR	NR	59	1' to 2'	66	1603	12				
10/14/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-007	SAIC04	3: p13-15	10/14/2008	NR	NR	59	2' to 4'	83	1608	12				
10/14/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-007	SAIC05	3: p13-15	10/14/2008	NR	NR	59	4' to 6'	76	1612	12				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-008	SAIC01	2: p35-37	10/13/2008	4307623.67	637118.97	47	0' to 0.5'	53	1614	10				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-008	SAIC02	2: p35-37	10/13/2008	4307623.67	637118.97	47	0.5' to 1'	52	1618	10				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-008	SAIC03	2: p35-37	10/13/2008	4307623.67	637118.97	47	1' to 2'	53	1622	10				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-008	SAIC04	2: p35-37	10/13/2008	4307623.67	637118.97	47	2' to 4'	68	1626	10				
10/13/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-008	SAIC05	2: p35-37	10/13/2008	4307623.67	637118.97	47	4' to 6'	56	1630	10				
10/12/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-009	SAIC01	2: p11-13	10/12/2008	NR	NR	51	0' to 0.5'	49	1625	10				
10/12/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-009	SAIC02	2: p11-13	10/12/2008	NR	NR	51	0.5' to 1'	57	1629	10				
10/12/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-009	SAIC03	2: p11-13	10/12/2008	NR	NR	51	1' to 2'	57	1632	10				
10/12/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-009	SAIC04	2: p11-13	10/12/2008	NR	NR	51	2' to 4'	54	1636	10				
10/12/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-009	SAIC05	2: p11-13	10/12/2008	NR	NR	51	4' to 6'	63	1641	10				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-010	SAIC01	1: p79-81	10/11/2008	NR	NR	40	0' to 0.5'	69	1033	11				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-010	SAIC02	1: p79-81	10/11/2008	NR	NR	40	0.5' to 1'	68	1036	11				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-010	SAIC03	1: p79-81	10/11/2008	NR	NR	40	1' to 2'	61	1038	11				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-010	SAIC04	1: p79-81	10/11/2008	NR	NR	40	2' to 4'	72	1041	11				
10/11/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-010	SAIC05	1: p79-81	10/11/2008	NR	NR	40	4' to 6'	83	1047	11				
													Soil data from 4-6' BGS is missing in soil logbook 1 at "JP-SC4-011". Also, no soil sample from this depth interval was collected and shown in COC. No bedrock refusal problems noted, thus it is assumed data was missed and not captured in the field.			
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-011	SAIC01	1: p23-25	10/8/2008	NR	NR	63	0' to 0.5'	57	1113	8				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-011	SAIC02	1: p23-25	10/8/2008	NR	NR	63	0.5' to 1'	77	1115	8				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-011	SAIC03	1: p23-25	10/8/2008	NR	NR	63	1' to 2'	64	1121	8				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-011	SAIC04	1: p23-25	10/8/2008	NR	NR	63	2' to 4'	68	1122	8				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-011	SAIC05	1: p23-25	10/8/2008	NR	NR	63	4' to 6'	NC	NC	NC				
													Station ID is written incorrectly as "JP-SC4-012" on page 72 of soil logbook 1. The correct data for "JP-SC4-012" is found on pages 21-23 in soil logbook 1.			
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-012	SAIC01	1: p21-23	10/8/2008	NR	NR	44	0' to 0.5'	57	0943	9				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-012	SAIC02	1: p21-23	10/8/2008	NR	NR	44	0.5' to 1'	41	0946	9				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-012	SAIC03	1: p21-23	10/8/2008	NR	NR	44	1' to 2'	60	0950	9				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-012	SAIC04	1: p21-23	10/8/2008	NR	NR	44	2' to 4'	56	0954	9				
10/8/2008	Category 4 - Immediately Outside DU Impact Area Trenches	JP-SC4-012	SAIC05	1: p21-23	10/8/2008	NR	NR	44	4' to 6'	51	1000	9				
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-001	SAIC01	1: p47-48	10/9/2008	4304615.45	638099.40	42	0' to 0.5'	57	1457	11				
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-001	SAIC02	1: p47-48	10/9/2008	4304615.45	638099.40	42	0.5' to 1'	59	1459	11				
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-001	SAIC03	1: p47-48	10/9/2008	4304615.45	638099.40	42	1' to 2'	53	1502	11				
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-001	SAIC04	1: p47-48	10/9/2008	4304615.45	638099.40	42	2' to 4'	63	1504	11				
													Station ID is written incorrectly as "JP-SC5-008" on page 88-89 of soil logbook 1. It should be "JP-SC5-002" after checking COC. No sample collection time written for 2-4' BGS sample in soil logbook 1, but time shown on COC is used (in parenthesis).			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-002	SAIC01	1: p87-89	10/11/2008	NR	NR	45	0' to 0.5'	65	1455	10.5				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-002	SAIC02	1: p87-89	10/11/2008	NR	NR	45	0.5' to 1'	65	1459	11				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-002	SAIC03	1: p87-89	10/11/2008	NR	NR	45	1' to 2'	54	1503	11				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-002	SAIC04	1: p87-89	10/11/2008	NR	NR	45	2' to 4'	60	NR (1503)	11				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-003	SAIC01	2: p1-2	10/12/2008	NR	NR	54	0' to 0.5'	48	1239	7				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-003	SAIC02	2: p1-2	10/12/2008	NR	NR	54	0.5' to 1'	54	1240	7				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-003	SAIC03	2: p1-2	10/12/2008	NR	NR	54	1' to 2'	48	1242	7				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-003	SAIC04	2: p1-2	10/12/2008	NR	NR	54	2' to 4'	47	1245	7				

## Summary of Soil Sampling Field Records

COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northings	Eastings	BK (gpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study Soil Bags ID	Leachability Soil Bags ID
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-004	SAIC01	3, p11-12	10/14/2008	NR	NR	49	0' to 0.5'	62	1346	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-004	SAIC02	3, p11-12	10/14/2008	NR	NR	49	0.5' to 1'	53	1350	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-004	SAIC03	3, p11-12	10/14/2008	NR	NR	49	1' to 2'	55	1352	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-004	SAIC04	3, p11-12	10/14/2008	NR	NR	49	2' to 4'	57	1354	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-005	SAIC01	3, p5-6	10/14/2008	NR	NR	55	0' to 0.5'	72	1039	11				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-005	SAIC02	3, p5-6	10/14/2008	NR	NR	55	0.5' to 1'	65	1040	11				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-005	SAIC03	3, p5-6	10/14/2008	NR	NR	55	1' to 2'	57	1042	11				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-005	SAIC04	3, p5-6	10/14/2008	NR	NR	55	2' to 4'	74	1044	11				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-006	SAIC01	3, p1-2	10/14/2008	4308870 92	637982 69	52	0' to 0.5'	76	0917	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-006	SAIC02	3, p1-2	10/14/2008	4308870 92	637982 69	52	0.5' to 1'	65	0919	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-006	SAIC03	3, p1-2	10/14/2008	4308870 92	637982 69	52	1' to 2'	79	0921	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-006	SAIC04	3, p1-2	10/14/2008	4308870 92	637982 69	52	2' to 4'	65	0923	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-007	SAIC01	3, p3-4	10/14/2008	NR	NR	50	0' to 0.5'	60	1006	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-007	SAIC02	3, p3-4	10/14/2008	NR	NR	50	0.5' to 1'	54	1007	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-007	SAIC03	3, p3-4	10/14/2008	NR	NR	50	1' to 2'	65	1009	10				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-007	SAIC04	3, p3-4	10/14/2008	NR	NR	50	2' to 4'	67	1012	10				
Station ID is written incorrectly as "JP-SC5-006" on pages 88-89 of soil logbook 1. The correct data for "JP-SC5-006" is found on pages 85-87 in soil logbook 1. No sample collection time written for 2-4' BGS sample in soil logbook 1, but time shown on COC is used (in parenthesis).																
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-008	SAIC01	1, p85-87	10/11/2008	NR	NR	50	0' to 0.5'	68	1354	12.5				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-008	SAIC02	1, p85-87	10/11/2008	NR	NR	50	0.5' to 1'	62	1365	12.5				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-008	SAIC03	1, p85-87	10/11/2008	NR	NR	50	1' to 2'	51	1368	12.5				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-008	SAIC04	1, p85-87	10/11/2008	NR	NR	50	2' to 4'	59	NR (1404)	12.5				
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-009	SAIC01	1, p49-50	10/9/2008	NR	NR	45	0' to 0.5'	51	1415	11				
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-009	SAIC02	1, p49-50	10/9/2008	NR	NR	45	0.5' to 1'	61	1417	11				
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-009	SAIC03	1, p49-50	10/9/2008	NR	NR	45	1' to 2'	71	1421	11				
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-009	SAIC04	1, p49-50	10/9/2008	NR	NR	45	2' to 4'	42	1423	11				
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-010	SAIC01	1, p66-67	10/10/2008	NR	NR	60	0' to 0.5'	83	1403	11				
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-010	SAIC02	1, p66-67	10/10/2008	NR	NR	60	0.5' to 1'	79	1405	11				
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-010	SAIC03	1, p66-67	10/10/2008	NR	NR	60	1' to 2'	72	1408	11				
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-010	SAIC04	1, p66-67	10/10/2008	NR	NR	60	2' to 4'	77	1410	11				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-011	SAIC01	1, p94-95	10/12/2008	NR	NR	68	0' to 0.5'	70	0839	10				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-011	SAIC02	1, p94-95	10/12/2008	NR	NR	68	0.5' to 1'	61	0841	10				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-011	SAIC03	1, p94-95	10/12/2008	NR	NR	68	1' to 2'	60	0845	10				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-011	SAIC04	1, p94-95	10/12/2008	NR	NR	68	2' to 4'	88	0851	10				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-012	SAIC01	2, p7-9	10/12/2008	NR	NR	52	0' to 0.5'	65	1516	10				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-012	SAIC02	2, p7-9	10/12/2008	NR	NR	52	0.5' to 1'	68	1518	10				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-012	SAIC03	2, p7-9	10/12/2008	NR	NR	52	1' to 2'	57	1520	NR				
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-012	SAIC04	2, p7-9	10/12/2008	NR	NR	52	2' to 4'	58	1523	10				
No sample collection time written for 1-2' BGS sample in soil logbook 2, but time shown on COC is used (in parenthesis).																
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-013	SAIC01	2, p44-46	10/20/2008	NR	NR	63	0' to 0.5'	71	1043	10				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-013	SAIC02	2, p44-46	10/20/2008	NR	NR	63	0.5' to 1'	63	1045	10				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-013	SAIC03	2, p44-46	10/20/2008	NR	NR	63	1' to 2'	68	NR (1047)	10				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-013	SAIC04	2, p44-46	10/20/2008	NR	NR	63	2' to 4'	69	1050	10				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-014	SAIC01	1, p81-83	10/11/2008	NR	NR	39	0' to 0.5'	58	1116	11				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-014	SAIC02	1, p81-83	10/11/2008	NR	NR	39	0.5' to 1'	58	1118	11				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-014	SAIC03	1, p81-83	10/11/2008	NR	NR	39	1' to 2'	58	1121	11				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-014	SAIC04	1, p81-83	10/11/2008	NR	NR	39	2' to 4'	60	1128	11				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-015	SAIC01	1, p75-76	10/11/2008	NR	NR	55	0' to 0.5'	39	0822	10				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-015	SAIC02	1, p75-76	10/11/2008	NR	NR	55	0.5' to 1'	52	0824	10				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-015	SAIC03	1, p75-76	10/11/2008	NR	NR	55	1' to 2'	53	0826	10				
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-015	SAIC04	1, p75-76	10/11/2008	NR	NR	55	2' to 4'	60	0829	10				
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-016	SAIC01	1, p70-72	10/10/2008	NR	NR	43	0' to 0.5'	78	1635	9				
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-016	SAIC02	1, p70-72	10/10/2008	NR	NR	43	0.5' to 1'	62	1638	9				
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-016	SAIC03	1, p70-72	10/10/2008	NR	NR	43	1' to 2'	77	1639	9				
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-016	SAIC04	1, p70-72	10/10/2008	NR	NR	43	2' to 4'	77	1641	9				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-017	SAIC01	2, p53-54	10/20/2008	NR	NR	46	0' to 0.5'	62	1531	11				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-017	SAIC02	2, p53-54	10/20/2008	NR	NR	46	0.5' to 1'	58	1533	11				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-017	SAIC03	2, p53-54	10/20/2008	NR	NR	46	1' to 2'	53	1535	11				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-017	SAIC04	2, p53-54	10/20/2008	NR	NR	46	2' to 4'	61	1538	11				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-018	SAIC01	3, 17-19	10/14/2008	NR	NR	71	0' to 0.5'	69	1634	11				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-018	SAIC02	3, 17-19	10/14/2008	NR	NR	71	0.5' to 1'	72	1636	11				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-018	SAIC03	3, 17-19	10/14/2008	NR	NR	71	1' to 2'	61	1638	11				
10/14/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-018	SAIC04	3, 17-19	10/14/2008	NR	NR	71	2' to 4'	75	1640	11				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-019	SAIC01	2, p48-50	10/20/2008	NR	NR	47	0' to 0.5'	65	1309	9				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-019	SAIC02	2, p48-50	10/20/2008	NR	NR	47	0.5' to 1'	65	1311	9				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-019	SAIC03	2, p48-50	10/20/2008	NR	NR	47	1' to 2'	61	1313	9				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-019	SAIC04	2, p48-50	10/20/2008	NR	NR	47	2' to 4'	66	1314	9				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-020	SAIC01	2, p46-48	10/20/2008	NR	NR	54	0' to 0.5'	66	1230	8				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-020	SAIC02	2, p46-48	10/20/2008	NR	NR	54	0.5' to 1'	66	1232	8				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-020	SAIC03	2, p46-48	10/20/2008	NR	NR	54	1' to 2'	79	1234	8				
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-020	SAIC04	2, p46-48	10/20/2008	NR	NR	54	2' to 4'	71	1235	8				
10/13/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-021	SAIC01	2, p31-32	10/13/2008	NR	NR	49	0' to 0.5'	47	1356	10				
10/13/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-021	SAIC02	2, p31-32	10/13/2008	NR	NR	49	0.5' to 1'	54	1358	10				
10/13/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-021	SAIC03	2, p31-32	10/13/2008	NR	NR	49	1' to 2'	49	1359	10				
10/13/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-021	SAIC04	2, p31-32	10/13/2008	NR	NR	49	2' to 4'	55	1402	10				

Summary of Soil Sampling Field Records															
COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (cpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study Soil Bags ID
10/13/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-022	SAIC01	2: p29-30	10/13/2008	NR	NR	53	0' to 0.5'	46	1226	10	No sample collection time written for 0.5-1' BGS sample in soil logbook 2, but time shown on COC is used (in parenthesis).		
10/13/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-022	SAIC02	2: p29-30	10/13/2008	NR	NR	53	0.5' to 1'	70	NR (1228)	10			
10/13/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-022	SAIC03	2: p29-30	10/13/2008	NR	NR	53	1' to 2'	58	1230	10			
10/13/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-022	SAIC04	2: p29-30	10/13/2008	NR	NR	53	2' to 4'	55	1232	10			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-023	SAIC01	2: p14-15	10/12/2008	NR	NR	41	0' to 0.5'	51	1709	8			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-023	SAIC02	2: p14-15	10/12/2008	NR	NR	41	0.5' to 1'	56	1711	8			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-023	SAIC03	2: p14-15	10/12/2008	NR	NR	41	1' to 2'	43	1715	8			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-023	SAIC04	2: p14-15	10/12/2008	NR	NR	41	2' to 4'	60	1723	8			
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-024	SAIC01	2: p40-41	10/20/2008	43079197.20	637932.51	63	0' to 0.5'	72	1010	12			
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-024	SAIC02	2: p40-41	10/20/2008	43079197.20	637932.51	63	0.5' to 1'	70	1012	12			
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-024	SAIC03	2: p40-41	10/20/2008	43079197.20	637932.51	63	1' to 2'	59	1014	12			
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-024	SAIC04	2: p40-41	10/20/2008	43079197.20	637932.51	63	2' to 4'	67	1016	12			
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-025	SAIC01	1: p60-61	10/10/2008	NR	NR	56	0' to 0.5'	78	1114	13			
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-025	SAIC02	1: p60-61	10/10/2008	NR	NR	56	0.5' to 1'	65	1116	13			
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-025	SAIC03	1: p60-61	10/10/2008	NR	NR	56	1' to 2'	68	1119	13			
10/10/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-025	SAIC04	1: p60-61	10/10/2008	NR	NR	56	2' to 4'	82	1122	13			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-026	SAIC01	1: p98-99	10/12/2008	NR	NR	49	0' to 0.5'	42	1113	11	Soil data from 2-4' BGS is deleted in soil logbook 1 because of bedrock refusal at 2' BGS (thus no soil sample from 2-4' BGS interval).		
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-026	SAIC02	1: p98-99	10/12/2008	NR	NR	49	0.5' to 1'	60	1116	11			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-026	SAIC03	1: p98-99	10/12/2008	NR	NR	49	1' to 2'	58	1121	11			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-026	SAIC04	1: p98-99	10/12/2008	NR	NR	49	2' to 4'	NA	NA	NA			
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-027	SAIC01	1: p51-53	10/9/2008	4504946.80	637816.60	42	0' to 0.5'	56	1545	10	Dose rates not written in soil logbook 1 for 2-4' BGS and 4-6' BGS intervals (but included in parenthesis and brackets). Also, soil data for 4-6' BGS interval was extraneously collected by accident (in parenthesis) and no soil sample was collected at this interval.		
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-027	SAIC02	1: p51-53	10/9/2008	4504946.80	637816.60	42	0.5' to 1'	60	1547	10			
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-027	SAIC03	1: p51-53	10/9/2008	4504946.80	637816.60	42	1' to 2'	52	1550	NR			
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-027	SAIC04	1: p51-53	10/9/2008	4504946.80	637816.60	42	2' to 4'	56	1553	NR (10)			
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-027	SAIC01	1: p51-53	10/9/2008	4504946.80	637816.60	42	4' to 6'	45	NA	101			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-028	SAIC01	1: p89-91	10/11/2008	NR	NR	43	0' to 0.5'	49	1550	9			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-028	SAIC02	1: p89-91	10/11/2008	NR	NR	43	0.5' to 1'	69	1555	9			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-028	SAIC03	1: p89-91	10/11/2008	NR	NR	43	1' to 2'	53	1600	9			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-028	SAIC04	1: p89-91	10/11/2008	NR	NR	43	2' to 4'	58	1603	9			
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-029	SAIC01	2: p55-56	10/20/2008	4306294.80	6378575.34	56	0' to 0.5'	55	1612	10			
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-029	SAIC02	2: p55-56	10/20/2008	4306294.80	6378575.34	56	0.5' to 1'	64	1613	10			
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-029	SAIC03	2: p55-56	10/20/2008	4306294.80	6378575.34	56	1' to 2'	75	1615	10			
10/20/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-029	SAIC04	2: p55-56	10/20/2008	4306294.80	6378575.34	56	2' to 4'	64	1617	10			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-030	SAIC01	2: p9-11	10/12/2008	NR	NR	48	0' to 0.5'	43	1548	8			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-030	SAIC02	2: p9-11	10/12/2008	NR	NR	48	0.5' to 1'	48	1551	8			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-030	SAIC03	2: p9-11	10/12/2008	NR	NR	48	1' to 2'	55	1553	8			
10/12/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-030	SAIC04	2: p9-11	10/12/2008	NR	NR	48	2' to 4'	43	1554	8			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-031	SAIC01	1: p83-85	10/11/2008	4305313.5	637319.90	58	0' to 0.5'	53	1245	10			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-031	SAIC02	1: p83-85	10/11/2008	4305313.5	637319.90	58	0.5' to 1'	53	1248	10			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-031	SAIC03	1: p83-85	10/11/2008	4305313.5	637319.90	58	1' to 2'	58	1254	10			
10/11/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-031	SAIC04	1: p83-85	10/11/2008	4305313.5	637319.90	58	2' to 4'	50	1300	10			
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-032	SAIC01	1: p41-42	10/9/2008	NR	NR	42	0' to 0.5'	39	0939	8			
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-032	SAIC02	1: p41-42	10/9/2008	NR	NR	42	0.5' to 1'	55	0943	8			
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-032	SAIC03	1: p41-42	10/9/2008	NR	NR	42	1' to 2'	45	0947	8			
10/9/2008	Category 5 - Other Nature and Extent Samples	JP-SC5-032	SAIC04	1: p41-42	10/9/2008	NR	NR	42	2' to 4'	52	1000	8			
10/25/2008	Category 6 - Trench Locations	JP-SC6-001	SAIC01	3: p41-43	10/25/2008	4303273.75	637660.06	50	0' to 0.5'	84	0900	9	Station ID is written incorrectly as "JP-SC6-001" on pages 16-18 of soil logbook 1. The correct data for "JP-SC6-001" is found on pages 41-43 in soil logbook 3.		
10/25/2008	Category 6 - Trench Locations	JP-SC6-001	SAIC02	3: p41-43	10/25/2008	4303273.75	637660.06	50	0.5' to 1'	65	0906	9			
10/25/2008	Category 6 - Trench Locations	JP-SC6-001	SAIC03	3: p41-43	10/25/2008	4303273.75	637660.06	50	1' to 2'	58	0911	9			
10/25/2008	Category 6 - Trench Locations	JP-SC6-001	SAIC04	3: p41-43	10/25/2008	4303273.75	637660.06	50	2' to 4'	55	0916	9			
10/25/2008	Category 6 - Trench Locations	JP-SC6-001	SAIC05	3: p41-43	10/25/2008	4303273.75	637660.06	50	4' to 6'	52	0920	9			

Summary of Soil Sampling Field Records															
COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (cpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study Soil Bags ID
													Station ID is written incorrectly on page 11 of soil logbook 1 as "JP-SC2-006" for 4-6" BGS interval. It should be "JP-SC6-002" after checking COC. Sample ID is written incorrectly as SAIC06 and it should be SAIC05 for 4-6" BGS interval		
10/7/2008	Category 6 - Trench Locations	JP-SC6-002	SAIC01	1: p9-11	10/7/2008	NR	NR	66	0' to 0.5'	66	1359	10			
10/7/2008	Category 6 - Trench Locations	JP-SC6-002	SAIC02	1: p9-11	10/7/2008	NR	NR	66	0.5' to 1'	77	1403	10			
10/7/2008	Category 6 - Trench Locations	JP-SC6-002	SAIC03	1: p9-11	10/7/2008	NR	NR	66	1' to 2'	68	1409	10			
10/7/2008	Category 6 - Trench Locations	JP-SC6-002	SAIC04	1: p9-11	10/7/2008	NR	NR	66	2' to 4'	76	1416	10			
10/7/2008	Category 6 - Trench Locations	JP-SC6-002	SAIC05	1: p9-11	10/7/2008	NR	NR	66	4' to 6'	57	1438	10			
10/25/2008	Category 6 - Trench Locations	JP-SC6-003	SAIC01	4: p6-8	10/25/2008	NR	NR	77	0' to 0.5'	143	1136		35 (general area - waist high) / 60 (contact area)		
10/25/2008	Category 6 - Trench Locations	JP-SC6-003	SAIC02	4: p6-8	10/25/2008	NR	NR	77	0.5' to 1'	144	1140		35 (general area - waist high) / 60 (contact area)		
10/25/2008	Category 6 - Trench Locations	JP-SC6-003	SAIC03	4: p6-8	10/25/2008	NR	NR	77	1' to 2'	112	1150		35 (general area - waist high) / 60 (contact area)		
10/25/2008	Category 6 - Trench Locations	JP-SC6-003	SAIC04	4: p6-8	10/25/2008	NR	NR	77	2' to 4'	73	1215		35 (general area - waist high) / 60 (contact area)		
10/25/2008	Category 6 - Trench Locations	JP-SC6-003	SAIC05	4: p6-8	10/25/2008	NR	NR	77	4' to 6'	63	1304		35 (general area - waist high) / 60 (contact area)		
													Station ID is written incorrectly on page 46 of soil logbook 3 as "JP-SC6-001" for 4-6" BGS interval. It should be "JP-SC6-004" after checking COC.		
10/25/2008	Category 6 - Trench Locations	JP-SC6-004	SAIC01	3: p44-46	10/25/2008	4303586 26	637659 54	70	0' to 0.5'	75	1014	12			
10/25/2008	Category 6 - Trench Locations	JP-SC6-004	SAIC02	3: p44-46	10/25/2008	4303586 26	637659 54	70	0.5' to 1'	74	1018	12			
10/25/2008	Category 6 - Trench Locations	JP-SC6-004	SAIC03	3: p44-46	10/25/2008	4303586 26	637659 54	70	1' to 2'	51	1021	12			
10/25/2008	Category 6 - Trench Locations	JP-SC6-004	SAIC04	3: p44-46	10/25/2008	4303586 26	637659 54	70	2' to 4'	93	1024	12			
10/25/2008	Category 6 - Trench Locations	JP-SC6-004	SAIC05	3: p44-46	10/25/2008	4303586 26	637659 54	70	4' to 6'	44	1028	12			
10/25/2008	Category 6 - Trench Locations	JP-SC6-005	SAIC01	4: p1-3	10/25/2008	NR	NR	56	0' to 0.5'	57	0847	9			
10/25/2008	Category 6 - Trench Locations	JP-SC6-005	SAIC02	4: p1-3	10/25/2008	NR	NR	56	0.5' to 1'	51	0850	9			
10/25/2008	Category 6 - Trench Locations	JP-SC6-005	SAIC03	4: p1-3	10/25/2008	NR	NR	56	1' to 2'	65	0853	9			
10/25/2008	Category 6 - Trench Locations	JP-SC6-006	SAIC04	4: p1-3	10/25/2008	NR	NR	56	2' to 4'	72	0900	9			
10/25/2008	Category 6 - Trench Locations	JP-SC6-006	SAIC05	4: p1-3	10/25/2008	NR	NR	56	4' to 6'	69	0907	9			
10/24/2008	Category 6 - Trench Locations	JP-SC6-006	SAIC01	3: p34-36	10/24/2008	NR	NR	64	0' to 0.5'	49	1111	11			
10/24/2008	Category 6 - Trench Locations	JP-SC6-006	SAIC02	3: p34-36	10/24/2008	NR	NR	64	0.5' to 1'	58	1113	11			
10/24/2008	Category 6 - Trench Locations	JP-SC6-006	SAIC03	3: p34-36	10/24/2008	NR	NR	64	1' to 2'	67	1116	11			
10/24/2008	Category 6 - Trench Locations	JP-SC6-006	SAIC04	3: p34-36	10/24/2008	NR	NR	64	2' to 4'	51	1118	11			
10/24/2008	Category 6 - Trench Locations	JP-SC6-006	SAIC05	3: p34-36	10/24/2008	NR	NR	64	4' to 6'	55	1120	11			
10/25/2008	Category 6 - Trench Locations	JP-SC6-007	SAIC01	3: p46-48	10/25/2008	4304084 85	637656 02	96	0' to 0.5'	154	1232	20			
10/25/2008	Category 6 - Trench Locations	JP-SC6-007	SAIC02	3: p46-48	10/25/2008	4304084 85	637656 02	96	0.5' to 1'	93	1242	20			
10/25/2008	Category 6 - Trench Locations	JP-SC6-007	SAIC03	3: p46-48	10/25/2008	4304084 85	637656 02	96	1' to 2'	79	1244	20			
10/25/2008	Category 6 - Trench Locations	JP-SC6-007	SAIC04	3: p46-48	10/25/2008	4304084 85	637656 02	96	2' to 4'	74	1250	20			
10/25/2008	Category 6 - Trench Locations	JP-SC6-007	SAIC05	3: p46-48	10/25/2008	4304084 85	637656 02	96	4' to 6'	65	1258	20			
10/25/2008	Category 6 - Trench Locations	JP-SC6-008	SAIC01	4: p3-5	10/25/2008	NR	NR	59	0' to 0.5'	86	1029	11			
10/25/2008	Category 6 - Trench Locations	JP-SC6-008	SAIC02	4: p3-5	10/25/2008	NR	NR	59	0.5' to 1'	75	1033	11			
10/25/2008	Category 6 - Trench Locations	JP-SC6-008	SAIC03	4: p3-5	10/25/2008	NR	NR	59	1' to 2'	64	1036	11			
10/25/2008	Category 6 - Trench Locations	JP-SC6-008	SAIC04	4: p3-5	10/25/2008	NR	NR	59	2' to 4'	77	1042	11			
10/25/2008	Category 6 - Trench Locations	JP-SC6-008	SAIC05	4: p3-5	10/25/2008	NR	NR	59	4' to 6'	69	1061	11			
10/24/2008	Category 6 - Trench Locations	JP-SC6-009	SAIC01	3: p31-33	10/24/2008	NR	NR	127	0' to 0.5'	61	0940	13			
10/24/2008	Category 6 - Trench Locations	JP-SC6-009	SAIC02	3: p31-33	10/24/2008	NR	NR	127	0.5' to 1'	77	0942	13			
10/24/2008	Category 6 - Trench Locations	JP-SC6-009	SAIC03	3: p31-33	10/24/2008	NR	NR	127	1' to 2'	79	0950	13			
10/24/2008	Category 6 - Trench Locations	JP-SC6-009	SAIC04	3: p31-33	10/24/2008	NR	NR	127	2' to 4'	58	0953	13			
10/24/2008	Category 6 - Trench Locations	JP-SC6-009	SAIC05	3: p31-33	10/24/2008	NR	NR	127	4' to 6'	64	0956	13			
10/24/2008	Category 6 - Trench Locations	JP-SC6-010	SAIC01	3: p36-38	10/24/2008	NR	NR	85	0' to 0.5'	52	1244	12			
10/24/2008	Category 6 - Trench Locations	JP-SC6-010	SAIC02	3: p36-38	10/24/2008	NR	NR	85	0.5' to 1'	61	1246	12			
10/24/2008	Category 6 - Trench Locations	JP-SC6-010	SAIC03	3: p36-38	10/24/2008	NR	NR	85	1' to 2'	53	1247	12			
10/24/2008	Category 6 - Trench Locations	JP-SC6-010	SAIC04	3: p36-38	10/24/2008	NR	NR	85	2' to 4'	69	1253	12			
10/24/2008	Category 6 - Trench Locations	JP-SC6-010	SAIC05	3: p36-38	10/24/2008	NR	NR	85	4' to 6'	79	1256	12			
10/25/2008	Category 6 - Trench Locations	JP-SC6-011	SAIC01	3: p49-51	10/25/2008	NR	NR	53	0' to 0.5'	71	1442	10			
10/25/2008	Category 6 - Trench Locations	JP-SC6-011	SAIC02	3: p49-51	10/25/2008	NR	NR	53	0.5' to 1'	69	1447	10			
10/25/2008	Category 6 - Trench Locations	JP-SC6-011	SAIC03	3: p49-51	10/25/2008	NR	NR	53	1' to 2'	51	1453	10			
10/25/2008	Category 6 - Trench Locations	JP-SC6-011	SAIC04	3: p49-51	10/25/2008	NR	NR	53	2' to 4'	53	1458	10			
10/25/2008	Category 6 - Trench Locations	JP-SC6-011	SAIC05	3: p49-51	10/25/2008	NR	NR	53	4' to 6'	54	1500	10			
													Bedrock refusal at 3.5' BGS, thus, no soil sample from 4-6" BGS interval		
10/24/2008	Category 6 - Trench Locations	JP-SC6-012	SAIC01	3: p39-40	10/24/2008	NR	NR	93	0' to 0.5'	51	1300	12			
10/24/2008	Category 6 - Trench Locations	JP-SC6-012	SAIC02	3: p39-40	10/24/2008	NR	NR	93	0.5' to 1'	68	1303	12			
10/24/2008	Category 6 - Trench Locations	JP-SC6-012	SAIC03	3: p39-40	10/24/2008	NR	NR	93	1' to 2'	68	1305	12			
10/24/2008	Category 6 - Trench Locations	JP-SC6-012	SAIC04	3: p39-40	10/24/2008	NR	NR	93	2' to 4'	70	1311	12			
10/24/2008	Category 6 - Trench Locations	JP-SC6-012	SAIC05	3: p39-40	10/24/2008	NR	NR	93	4' to 6'	NA	NA				
10/27/2008	Soil Under Penetrators - Avonburg and Cobbsfork	JP-PNAC-001	SAIC01	4: p16-18	10/27/2008	4303939 34	637645 69	59	0' to 0.5'	18,228	1143		70uR (waist high-general area) / 850uR (contact point)	JP-PAC-001	JP-KAC-001
10/27/2008	Soil Under Penetrators - Avonburg and Cobbsfork	JP-PNAC-001	SAIC02	4: p16-18	10/27/2008	4303939 34	637645 69	59	0.5' to 1'	5,125	1156		70uR (waist high-general area) / 850uR (contact point)	JP-PAC-001	JP-KAC-001
10/27/2008	Soil Under Penetrators - Avonburg and Cobbsfork	JP-PNAC-001	SAIC03	4: p16-18	10/27/2008	4303939 34	637645 69	59	1' to 2'	329	1202		70uR (waist high-general area) / 850uR (contact point)	JP-PAC-001	JP-KAC-001
10/27/2008	Soil Under Penetrators - Avonburg and Cobbsfork	JP-PNAC-001	SAIC04	4: p16-18	10/27/2008	4303939 34	637645 69	59	2' to 4'	334	1210		70uR (waist high-general area) / 850uR (contact point)	JP-PAC-001	JP-KAC-001
10/27/2008	Soil Under Penetrators - Avonburg and Cobbsfork	JP-PNAC-002	SAIC01	4: p18-20	10/27/2008	4303939 07	637648 64	94	0' to 0.5'	8,988	1239		60uR (waist high-general area) / 600uR (contact point)	JP-PAC-002	JP-KAC-002



Summary of Soil Sampling Field Records

COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (ppm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study	Leachability Soil
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-002	SAIC02	4, p18-20	10/27/2008	4303930 07	637648 64	94	0' to 1'	1,674	1249	60uR (waist high-general area) / 600uR (contact point)		JP-PAC-002	JP-KAC-002	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-002	SAIC03	4, p18-20	10/27/2008	4303930 07	637648 64	94	1' to 2'	171	1301	60uR (waist high-general area) / 600uR (contact point)		JP-PAC-002	JP-KAC-002	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-002	SAIC04	4, p18-20	10/27/2008	4303930 07	637648 64	94	2' to 4'	141	1309	60uR (waist high-general area) / 600uR (contact point)		JP-PAC-002	JP-KAC-002	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-003	SAIC01	4, p23-24	10/27/2008	4303995 44	637644 76	85	0' to 0.5'	14,854	1714	60uR (waist high-general area) / 700uR (contact point)		JP-PAC-003	JP-KAC-003	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-003	SAIC02	4, p23-24	10/27/2008	4303995 44	637644 76	85	0.5' to 1'	2,183	1721	60uR (waist high-general area) / 700uR (contact point)		JP-PAC-003	JP-KAC-003	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-003	SAIC03	4, p23-24	10/27/2008	4303995 44	637644 76	85	1' to 2'	359	1728	60uR (waist high-general area) / 700uR (contact point)		JP-PAC-003	JP-KAC-003	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-003	SAIC04	4, p23-24	10/27/2008	4303995 44	637644 76	85	2' to 4'	119	1733	60uR (waist high-general area) / 700uR (contact point)		JP-PAC-003	JP-KAC-003	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-004	SAIC01	4, p27-29	10/28/2008	4304002 36	637631 17	43	0' to 0.5'	10,424	1028	65uR (waist high-general area) / 900uR (contact point)		JP-PAC-004	JP-KAC-004	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-004	SAIC02	4, p27-29	10/28/2008	4304002 36	637631 17	43	0.5' to 1'	1,799	1032	65uR (waist high-general area) / 900uR (contact point)		JP-PAC-004	JP-KAC-004	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-004	SAIC03	4, p27-29	10/28/2008	4304002 36	637631 17	43	1' to 2'	235	1037	65uR (waist high-general area) / 900uR (contact point)		JP-PAC-004	JP-KAC-004	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-004	SAIC04	4, p27-29	10/28/2008	4304002 36	637631 17	43	2' to 4'	175	1044	65uR (waist high-general area) / 900uR (contact point)		JP-PAC-004	JP-KAC-004	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-005	SAIC01	4, p34-36	10/28/2008	4304221 02	637628 76	78	0' to 0.5'	646	1519	100uR (at 18 inches from location) / 40uR (at 3 feet from location) / 1mR (contact point)		JP-PAC-005	JP-KAC-005	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-005	SAIC02	4, p34-36	10/28/2008	4304221 02	637628 76	78	0.5' to 1'	387	1524	100uR (at 18 inches from location) / 40uR (at 3 feet from location) / 1mR (contact point)		JP-PAC-005	JP-KAC-005	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-005	SAIC03	4, p34-36	10/28/2008	4304221 02	637628 76	78	1' to 2'	99	1533	100uR (at 18 inches from location) / 40uR (at 3 feet from location) / 1mR (contact point)		JP-PAC-005	JP-KAC-005	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-005	SAIC04	4, p34-36	10/28/2008	4304221 02	637628 76	78	2' to 4'	62	1539	100uR (at 18 inches from location) / 40uR (at 3 feet from location) / 1mR (contact point)		JP-PAC-005	JP-KAC-005	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-006	SAIC05	4, p20-22	10/27/2008	4303865 54	637641 32	66	0' to 0.5'	15,098	1546	70uR (waist high-general area) / 600uR (contact point)	Penetrator at 2" BLS	JP-PAC-006		
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-006	SAIC01	4, p20-22	10/27/2008	4303865 54	637641 32	66	0.5' to 0.5'	7,431	1554	70uR (waist high-general area) / 600uR (contact point)		JP-PAC-006	JP-KAC-006	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-006	SAIC02	4, p20-22	10/27/2008	4303865 54	637641 32	66	0.5' to 1'	856	1602	70uR (waist high-general area) / 600uR (contact point)		JP-PAC-006	JP-KAC-006	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-006	SAIC03	4, p20-22	10/27/2008	4303865 54	637641 32	66	1' to 2'	144	1609	70uR (waist high-general area) / 600uR (contact point)		JP-PAC-006	JP-KAC-006	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-006	SAIC04	4, p20-22	10/27/2008	4303865 54	637641 32	66	2' to 4'	122	1615	70uR (waist high-general area) / 600uR (contact point)		JP-PAC-006	JP-KAC-006	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-007	SAIC05	4, p25-27	10/28/2008	4304012 87	637630 77	80	0' to 0.35'	3,775	0902	60uR (waist high-general area) / 800uR (contact point)	Penetrator at 0.35' BLS	JP-PAC-007		
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-007	SAIC01	4, p25-27	10/28/2008	4304012 87	637630 77	80	0.35' to 0.5'	22,986	0913	60uR (waist high-general area) / 800uR (contact point)		JP-PAC-007	JP-KAC-007	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-007	SAIC02	4, p25-27	10/28/2008	4304012 87	637630 77	80	0.5' to 1'	1,390	0922	60uR (waist high-general area) / 800uR (contact point)		JP-PAC-007	JP-KAC-007	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-007	SAIC03	4, p25-27	10/28/2008	4304012 87	637630 77	80	1' to 2'	200	0926	60uR (waist high-general area) / 800uR (contact point)		JP-PAC-007	JP-KAC-007	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-007	SAIC04	4, p25-27	10/28/2008	4304012 87	637630 77	80	2' to 4'	99	0933	60uR (waist high-general area) / 800uR (contact point)		JP-PAC-007	JP-KAC-007	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-008	SAIC05	4, p32-34	10/28/2008	4304197 96	637640 18	156	0' to 0.25'	9,433	1421	100uR (at 18 inches from location) / 25uR (at 3 feet from location) / 800uR (contact point)	Penetrator at 0.25' BLS	JP-PAC-008		
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-008	SAIC01	4, p32-34	10/28/2008	4304197 96	637640 18	156	0.25' to 0.5'	6,064	1429	100uR (at 18 inches from location) / 25uR (at 3 feet from location) / 800uR (contact point)		JP-PAC-008	JP-KAC-008	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-008	SAIC02	4, p32-34	10/28/2008	4304197 96	637640 18	156	0.5' to 1'	1,197	1436	100uR (at 18 inches from location) / 25uR (at 3 feet from location) / 800uR (contact point)		JP-PAC-008	JP-KAC-008	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-008	SAIC03	4, p32-34	10/28/2008	4304197 96	637640 18	156	1' to 2'	88	1441	100uR (at 18 inches from location) / 25uR (at 3 feet from location) / 800uR (contact point)		JP-PAC-008	JP-KAC-008	
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-008	SAIC04	4, p32-34	10/28/2008	4304197 96	637640 18	156	2' to 4'	74	1445	100uR (at 18 inches from location) / 25uR (at 3 feet from location) / 800uR (contact point)		JP-PAC-008	JP-KAC-008	
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-009	SAIC05	4, p14-16	10/27/2008	4303956 89	637647 69	62	0' to 0.3'	5,366	1009	50uR (waist high) / 450uR (contact point)	Total depth = 2.0' BLS; total depth at other end of penetrator = 4.5' BLS (bottom sample from 2.5 to 4.5')	JP-PAC-009		
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-009	SAIC01	4, p14-16	10/27/2008	4303956 89	637647 69	62	0.5' to 1'	1,713	1020	50uR (waist high) / 450uR (contact point)		JP-PAC-009		
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-009	SAIC02	4, p14-16	10/27/2008	4303956 89	637647 69	62	1' to 1.5'	144	1028	50uR (waist high) / 450uR (contact point)		JP-PAC-009		
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-009	SAIC03	4, p14-16	10/27/2008	4303956 89	637647 69	62	1.5' to 2.5'	132	1040	50uR (waist high) / 450uR (contact point)		JP-PAC-009		
10/27/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-009	SAIC04	4, p14-16	10/27/2008	4303956 89	637647 69	62	2.5' to 4.5'	162	1051	50uR (waist high) / 450uR (contact point)		JP-PAC-009		

Summary of Soil Sampling Field Records																
COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (cpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study Soil Bags ID	Leachability Soil Bags ID
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-010	SAIC05	4: p29-31	10/28/2008	4303986.14	637668.96	64	0' to 0.5'	2,938	1142	188uR (at 18 inches from location) / 35uR (at 3 feet from location) / 1.2mR (contact point)	Penetrator at 1.5' BLS	JP-PAC-010		
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-010	SAIC01	4: p29-31	10/28/2008	4303986.14	637668.96	64	0.15' to 0.5'	2,715	1150	188uR (at 18 inches from location) / 35uR (at 3 feet from location) / 1.2mR (contact point)		JP-PAC-010		
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-010	SAIC02	4: p29-31	10/28/2008	4303986.14	637668.96	64	0.5' to 1'	196	1154	188uR (at 18 inches from location) / 35uR (at 3 feet from location) / 1.2mR (contact point)		JP-PAC-010		
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-010	SAIC03	4: p29-31	10/28/2008	4303986.14	637668.96	64	1' to 2'	323	1159	188uR (at 18 inches from location) / 35uR (at 3 feet from location) / 1.2mR (contact point)		JP-PAC-010		
10/28/2008	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-010	SAIC04	4: p29-31	10/28/2008	4303986.14	637668.96	64	2' to 4'	124	1204	188uR (at 18 inches from location) / 35uR (at 3 feet from location) / 1.2mR (contact point)		JP-PAC-010		
10/26/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-001	SAIC01	3: p51-53	10/26/2008	4306351.53	638136.06	55	0' to 0.5'	88,873	1212	42			JP-KCR-001	
10/26/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-001	SAIC02	3: p51-53	10/26/2008	4306351.53	638136.06	55	0.5' to 1'	3,956	1247	42			JP-KCR-001	
10/26/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-001	SAIC03	3: p51-53	10/26/2008	4306351.53	638136.06	55	1' to 2'	2,406	1303	42			JP-KCR-001	
10/26/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-001	SAIC04	3: p51-53	10/26/2008	4306351.53	638136.06	55	2' to 4'	312	1325	42			JP-KCR-001	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-002	SAIC01	3: 55-57	10/27/2008	4305120.94	637661.30	172	0' to 0.5'	41,385	0940	22	Bedrock refusal at 2.5' BGS		JP-KCR-002	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-002	SAIC02	3: 55-57	10/27/2008	4305120.94	637661.30	172	0.5' to 1'	4,674	1001	22			JP-KCR-002	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-002	SAIC03	3: 55-57	10/27/2008	4305120.94	637661.30	172	1' to 2'	192	1013	22			JP-KCR-002	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-002	SAIC04	3: 55-57	10/27/2008	4305120.94	637661.30	172	2' to 2.5'	312	1025	22			JP-KCR-002	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-003	SAIC01	3: p57-58	10/27/2008	4305093.81	637653.25	44	0' to 0.5'	29,381	1154	22	Bedrock refusal at 1.75' BGS, thus, no soil sample from 2-4' BGS interval.		JP-KCR-003	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-003	SAIC02	3: p57-58	10/27/2008	4305093.81	637653.25	44	0.5' to 1'	4,950	1157	22			JP-KCR-003	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-003	SAIC03	3: p57-58	10/27/2008	4305093.81	637653.25	44	1' to 2'	756	1208	22			JP-KCR-003	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-004	SAIC01	3: 64-66	10/27/2008	4305125.41	637644.98	68	0' to 0.5'	13,766	1554	32	Bedrock refusal at 1.5' BGS, thus, no soil sample from 2-4' BGS interval.		JP-KCR-004	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-004	SAIC02	3: 64-66	10/27/2008	4305125.41	637644.98	68	0.5' to 1'	1,499	1615	32			JP-KCR-004	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-004	SAIC03	3: 64-66	10/27/2008	4305125.41	637644.98	68	1' to 2'	1,386	1625	32			JP-KCR-004	
10/26/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-005	SAIC01	3: p67-68	10/26/2008	4305104.64	637716.22	98	0' to 0.5'	7,623	1135	41	Bedrock refusal at 2'		JP-KCR-005	
10/26/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-005	SAIC02	3: p67-68	10/26/2008	4305104.64	637716.22	98	0.5' to 1'	537	1140	41			JP-KCR-005	
10/26/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-005	SAIC03	3: p67-68	10/26/2008	4305104.64	637716.22	98	1' to 2'	130	1150	41			JP-KCR-005	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-006	SAIC01	3: p59-61	10/27/2008	4305095.22	637654.33	68	0' to 0.125'	25,801	1335	24			JP-KCR-006	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-006	SAIC02	3: p59-61	10/27/2008	4305095.22	637654.33	68	0.125' to 0.625'	18,448	1349	24			JP-KCR-006	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-006	SAIC03	3: p59-61	10/27/2008	4305095.22	637654.33	68	0.625' to 1.125'	1,949	1407	24			JP-KCR-006	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-006	SAIC04	3: p59-61	10/27/2008	4305095.22	637654.33	68	1.125' to 2.125'	1,480	1410	24			JP-KCR-006	
10/27/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-006	SAIC05	3: p59-61	10/27/2008	4305095.22	637654.33	68	2.125' to 4.125'	860	1420	24			JP-KCR-006	
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-007	SAIC01	3: p66-67	10/28/2008	4305103.08	637661.74	69	0' to 0.25'	3,217	0906	18	Bedrock refusal at 1'		JP-KCR-007	
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-007	SAIC02	3: p66-67	10/28/2008	4305103.08	637661.74	69	0.25' to 0.75'	11,523	0817	18			JP-KCR-007	
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-007	SAIC03	3: p66-67	10/28/2008	4305103.08	637661.74	69	0.75' to 1.0'	504	0932	18			JP-KCR-007	
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-008	SAIC01	3: p62-63	10/28/2008	4305102.99	637691.65	65	0' to 0.25'	14,574	1015	36	Bedrock refusal at 1.75'		JP-KCR-008	
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-008	SAIC02	3: p62-63	10/28/2008	4305102.99	637691.65	65	0.25' to 0.75'	7,006	1025	36			JP-KCR-008	
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-008	SAIC03	3: p62-63	10/28/2008	4305102.99	637691.65	65	0.75' to 1.25'	687	1036	36			JP-KCR-008	
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-008	SAIC04	3: p62-63	10/28/2008	4305102.99	637691.65	65	1.25' to 2.25'	189	1043	36			JP-KCR-008	
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-009	SAIC01	3: p69-70	10/28/2008	4305114.71	637564.86	75	0' to 0.5'	23,744	1430	32	Bedrock refusal at 1.25'			
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-009	SAIC02	3: p69-70	10/28/2008	4305114.71	637564.86	75	0.5' to 1'	1,198	1439	32				
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-009	SAIC03	3: p69-70	10/28/2008	4305114.71	637564.86	75	1' to 1.25'	2,611	1444	32				
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-010	SAIC01	3: p69-71	10/28/2008	4305079.95	637644.26	74	0' to 0.5'	6,992	1522	40	Bedrock refusal at 2.8' BGS			
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-010	SAIC02	3: p69-71	10/28/2008	4305079.95	637644.26	74	0.5' to 1'	623	1526	40				
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-010	SAIC03	3: p69-71	10/28/2008	4305079.95	637644.26	74	1' to 2'	1,524	1532	40				
10/28/2008	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-010	SAIC04	3: p69-71	10/28/2008	4305079.95	637644.26	74	2' to 2.8'	607	1537	40				
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-001	SAIC01	4: p8-10	10/26/2008	4305256.36	637603.36	39 (7 ft from location)	0' to 0.5'	3,604	1200	12uR (waist high) / 1.25mR (contact point)	Bedrock refusal at 2.5' BGS.	JP-PGR-001	JP-KGR-001	
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-001	SAIC02	4: p8-10	10/26/2008	4305256.36	637603.36	39 (7 ft from location)	0.5' to 1'	209	1231	12uR (waist high) / 1.25mR (contact point)		JP-PGR-001	JP-KGR-001	
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-001	SAIC03	4: p8-10	10/26/2008	4305256.36	637603.36	39 (7 ft from location)	1' to 2'	92	1247	12uR (waist high) / 1.25mR (contact point)		JP-PGR-001	JP-KGR-001	
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-001	SAIC04	4: p8-10	10/26/2008	4305256.36	637603.36	39 (7 ft from location)	2' to 2.5'	87	1303	12uR (waist high) / 1.25mR (contact point)		JP-PGR-001	JP-KGR-001	
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-002	SAIC01	4: p10-11	10/26/2008	4305150.91	637533.42	61	0' to 0.5'	7,013	1507	50uR (general area-waist high) / 600uR (contact point)	Bedrock refusal at 2' BGS, thus, no soil sample from 2-4' BGS interval.	JP-PGR-002	JP-KGR-002	
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-002	SAIC02	4: p10-11	10/26/2008	4305150.91	637533.42	61	0.5' to 1'	352	1526	50uR (general area) / 600uR (contact point)		JP-PGR-002	JP-KGR-002	
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-002	SAIC03	4: p10-11	10/26/2008	4305150.91	637533.42	61	1' to 2'	124	1544	50uR (general area) / 600uR (contact point)		JP-PGR-002	JP-KGR-002	
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-003	SAIC01	3: p53-55	10/26/2008	4305198.59	637655.04	57	0' to 0.5'	4,803	1612	20	Bedrock refusal at 2.5' BGS.			
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-003	SAIC02	3: p53-55	10/26/2008	4305198.59	637655.04	57	0.5' to 1'	444	1625	20				
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-003	SAIC03	3: p53-55	10/26/2008	4305198.59	637655.04	57	1' to 2'	868	1635	20				
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-003	SAIC04	3: p53-55	10/26/2008	4305198.59	637655.04	57	2' to 2.5'	426	1647	20				
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-004	SAIC04	4: p12-13	10/26/2008	4305398.54	637713.13	50	0' to 0.5'	9,730	1643	30uR (general area-waist high) / 1mR (contact point)	Bedrock refusal at 2.5' BGS.	JP-PGR-004		
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-004	SAIC01	4: p12-13	10/26/2008	4305398.54	637713.13	50	0.5' to 1'	4,497	1652	30uR (general area-waist high) / 1mR (contact point)		JP-PGR-004		
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-004	SAIC02	4: p12-13	10/26/2008	4305398.54	637713.13	50	1' to 1.5'	2,184	1657	30uR (general area-waist high) / 1mR (contact point)		JP-PGR-004		

**Summary of Soil Sampling Field Records**

COC Listing Date	Soil Type Grouping	Site ID	Field Sample Number	Logbook Reference	Logbook Date	Northing	Easting	BK (cpm)	Depth	Count	Collection Time	Dose Rate	Comments	Penetrator ID	Kd Study Soil Bags ID	Leachability Soil Bags ID
10/26/2008	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-004	SAIC03	4, p12-13	10/26/2008	4305398 54	637713 13	50	1' 5" to 2' 5"	1,325	1715	30uR (general area-worst high) / 1mR (contact point)		JP-PGR-004		
03/29/2012	Background – Avonburg and Cobbsfork	JP-SAC-001	SAIC05						0' to 4'							
03/29/2012	Background – Avonburg and Cobbsfork	JP-SAC-002	SAIC05						0' to 4'							
03/27/2012	Background – Avonburg and Cobbsfork	JP-SAC-003	SAIC05						0' to 4'							
03/29/2012	Background – Avonburg and Cobbsfork	JP-SAC-004	SAIC05						0' to 4'							
03/28/2012	Background – Avonburg and Cobbsfork	JP-SAC-005	SAIC05						0' to 4'							
03/28/2012	Background – Avonburg and Cobbsfork	JP-SAC-005	SAIC060						0' to 4'							
03/27/2012	Background – Avonburg and Cobbsfork	JP-SAC-006	SAIC05						0' to 4'							
03/27/2012	Background – Avonburg and Cobbsfork	JP-SAC-007	SAIC05						0' to 4'							
03/27/2012	Background – Avonburg and Cobbsfork	JP-SAC-008	SAIC05						0' to 4'							
03/27/2012	Background – Avonburg and Cobbsfork	JP-SAC-009	SAIC05						0' to 4'							
03/29/2012	Background – Cincinnati and Rossmoyne	JP-SCR-001	SAIC05						0' to 3' 3"							
03/29/2012	Background – Cincinnati and Rossmoyne	JP-SCR-002	SAIC05						0' to 3'							
03/29/2012	Background – Cincinnati and Rossmoyne	JP-SCR-003	SAIC05						0' to 4'							
03/28/2012	Background – Cincinnati and Rossmoyne	JP-SCR-004	SAIC05						0' to 4'							
03/29/2012	Background – Cincinnati and Rossmoyne	JP-SCR-005	SAIC05						0' to 4'							
03/28/2012	Background – Cincinnati and Rossmoyne	JP-SCR-006	SAIC05						0' to 4'							
03/28/2012	Background – Cincinnati and Rossmoyne	JP-SCR-007	SAIC05						0' to 4'							
03/28/2012	Background – Cincinnati and Rossmoyne	JP-SCR-008	SAIC05						0' to 4'							
03/28/2012	Background – Cincinnati and Rossmoyne	JP-SCR-008	SAIC050						0' to 4'							
03/29/2012	Background – Cincinnati and Rossmoyne	JP-SCR-009	SAIC05						0' to 4'							
03/30/2012	Background – Grayford and Ryker	JP-SGR-001	SAIC05						0' to 4'							
03/30/2012	Background – Grayford and Ryker	JP-SGR-002	SAIC05						0' to 4'							
03/29/2012	Background – Grayford and Ryker	JP-SGR-003	SAIC05						0' to 2'							
03/30/2012	Soil Under Penetrators – Avonburg and Cobbsfork	JP-PNAC-001	SAIC05						0' to 4'							
03/30/2012	Soil Under Penetrators – Cincinnati and Rossmoyne	JP-PNCR-001	SAIC05						0' to 4'							
03/30/2012	Soil Under Penetrators – Grayford and Ryker	JP-PNGR-001	SAIC05						0' to 4'							

NA = Not applicable

NR = Not recorded in soil logbook

NC = Data not collected (see notes for possible explanation)

E = Extraneous data (i.e., data not required but was captured nonetheless)

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence
					U-234	U-235	U-238	U-238/U-234 Ratio		Weight Percent U-235
Background – Avonsburg and Cobbsfork										
JP-SAC-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.040 +/- 0.027	J	0.69 +/- 0.17	1.5 +/- 0.33	0.95 +/- 0.33
JP-SAC-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.046 +/- 0.030	J	0.70 +/- 0.18	1.5 +/- 0.35	0.89 +/- 0.32
JP-SAC-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.048 +/- 0.030	J	0.85 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.37
JP-SAC-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.046 +/- 0.029	J	0.77 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.38
JP-SAC-001	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0066	0.0052	J	0.77	0.77	ND
JP-SAC-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.027 +/- 0.022	J	0.67 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.38
JP-SAC-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.69 +/- 0.17	0.036 +/- 0.025	J	0.74 +/- 0.18	1.5 +/- 0.33	1.1 +/- 0.37
JP-SAC-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.032 +/- 0.025	J	0.74 +/- 0.19	1.6 +/- 0.36	0.91 +/- 0.32
JP-SAC-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.61 +/- 0.16	0.045 +/- 0.028	J	0.64 +/- 0.16	1.3 +/- 0.29	1.0 +/- 0.37
JP-SAC-002	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0067	0.0028	J	0.42	0.43	ND
JP-SAC-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.042 +/- 0.028	J	0.73 +/- 0.18	1.5 +/- 0.34	1.00 +/- 0.35
JP-SAC-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.048 +/- 0.031	J	0.71 +/- 0.18	1.5 +/- 0.34	1.00 +/- 0.36
JP-SAC-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.0080 +/- 0.011	U	0.72 +/- 0.18	1.5 +/- 0.33	0.98 +/- 0.35
JP-SAC-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.029 +/- 0.024	J	0.68 +/- 0.18	1.4 +/- 0.32	1.0 +/- 0.37
JP-SAC-003	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0062	0.0037	J	0.50	0.51	ND
JP-SAC-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.024 +/- 0.021	J	0.65 +/- 0.17	1.3 +/- 0.30	1.0 +/- 0.37
JP-SAC-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.036 +/- 0.026	J	0.68 +/- 0.17	1.4 +/- 0.31	1.0 +/- 0.37
JP-SAC-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.58 +/- 0.15	0.024 +/- 0.021	J	0.64 +/- 0.16	1.3 +/- 0.29	1.1 +/- 0.40
JP-SAC-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.025 +/- 0.020	J	0.64 +/- 0.16	1.4 +/- 0.31	0.91 +/- 0.32
JP-SAC-004	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0060	0.0042	J	0.55	0.55	ND
JP-SAC-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.060 +/- 0.037	J	0.86 +/- 0.21	1.8 +/- 0.40	1.0 +/- 0.35
JP-SAC-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.041 +/- 0.028	J	0.81 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.38
JP-SAC-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.027 +/- 0.022	J	0.90 +/- 0.22	1.8 +/- 0.40	1.1 +/- 0.37
JP-SAC-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.65 +/- 0.16	0.048 +/- 0.030	J	0.74 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.40
JP-SAC-005	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0063	0.0048	BN	0.67	0.68	ND
JP-SAC-005	SAIC05D	0' to 4'	ICP-MS	mg/kg	0.0063	0.0057	BN	0.79	0.79	ND
JP-SAC-005	SAIC05C	0' to 4'	ICP-MS	mg/kg	0.0063	0.0053	BN	0.73	0.74	ND
JP-SAC-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.69 +/- 0.18	0.036 +/- 0.026	J	0.69 +/- 0.18	1.4 +/- 0.32	1.0 +/- 0.36
JP-SAC-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.048 +/- 0.032	J	0.81 +/- 0.20	1.6 +/- 0.37	1.0 +/- 0.36
JP-SAC-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.028 +/- 0.023	J	0.83 +/- 0.20	1.6 +/- 0.35	1.2 +/- 0.41
JP-SAC-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.039 +/- 0.028	J	0.76 +/- 0.19	1.6 +/- 0.37	0.90 +/- 0.32
JP-SAC-006	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0063	0.0036	J	0.52	0.52	ND
JP-SAC-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.56 +/- 0.15	0.023 +/- 0.020	J	0.77 +/- 0.19	1.4 +/- 0.31	1.4 +/- 0.50
JP-SAC-007	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.61 +/- 0.15	0.014 +/- 0.014	J	0.65 +/- 0.16	1.3 +/- 0.29	1.1 +/- 0.38
JP-SAC-007	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.58 +/- 0.11	0.017 +/- 0.011	J	0.70 +/- 0.12	1.3 +/- 0.21	1.2 +/- 0.30
JP-SAC-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.033 +/- 0.025	J	0.79 +/- 0.20	1.5 +/- 0.34	1.2 +/- 0.43
JP-SAC-007	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.027 +/- 0.022	J	0.73 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.40
JP-SAC-007	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.66 +/- 0.12	0.030 +/- 0.016	J	0.76 +/- 0.13	1.4 +/- 0.23	1.1 +/- 0.29
JP-SAC-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.030 +/- 0.024	J	0.87 +/- 0.22	1.6 +/- 0.36	1.2 +/- 0.45
JP-SAC-007	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.037 +/- 0.026	J	0.83 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.40
JP-SAC-007	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.71 +/- 0.13	0.033 +/- 0.018	J	0.85 +/- 0.15	1.6 +/- 0.26	1.2 +/- 0.30
JP-SAC-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.039 +/- 0.027	J	0.79 +/- 0.20	1.6 +/- 0.37	0.98 +/- 0.35
JP-SAC-007	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.025 +/- 0.021	J	0.84 +/- 0.21	1.6 +/- 0.37	1.1 +/- 0.38
JP-SAC-007	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.79 +/- 0.14	0.030 +/- 0.017	J	0.82 +/- 0.14	1.6 +/- 0.26	1.0 +/- 0.26
JP-SAC-007	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0066	0.0040	J	0.53	0.54	ND
JP-SAC-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.73 +/- 0.19	0.054 +/- 0.035	J	0.81 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.40
JP-SAC-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.034 +/- 0.026	J	0.75 +/- 0.19	1.5 +/- 0.34	1.0 +/- 0.38
JP-SAC-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.014 +/- 0.017	U	0.93 +/- 0.23	1.7 +/- 0.39	1.2 +/- 0.42
JP-SAC-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.90 +/- 0.22	0.060 +/- 0.036	J	0.88 +/- 0.21	1.8 +/- 0.41	0.97 +/- 0.34
JP-SAC-008	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0065	0.0066		0.85	0.85	ND
JP-SAC-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.74 +/- 0.18	0.021 +/- 0.018	J	0.79 +/- 0.19	1.6 +/- 0.35	1.1 +/- 0.37
JP-SAC-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.045 +/- 0.029	J	0.82 +/- 0.20	1.5 +/- 0.34	1.2 +/- 0.44
JP-SAC-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.041 +/- 0.029	J	0.81 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.40

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)					DU Presence	
					U-234	U-235	U-238	Total Uranium	U-238/U-234 Ratio	Weight Percent U-235	
JP-SAC-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.97 +/- 0.24	0.044 +/- 0.030	J	0.83 +/- 0.20	1.8 +/- 0.41	0.85 +/- 0.29	
JP-SAC-009	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0061	U	0.0050	J	0.70	ND	
Background – Cincinnati and Rossmoyne											
JP-SCR-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.035 +/- 0.026	J	0.77 +/- 0.19	1.6 +/- 0.35	1.0 +/- 0.36	
JP-SCR-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.034 +/- 0.025	J	0.69 +/- 0.18	1.5 +/- 0.34	0.92 +/- 0.33	
JP-SCR-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.027 +/- 0.022	J	0.74 +/- 0.19	1.4 +/- 0.33	1.1 +/- 0.40	
JP-SCR-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.041 +/- 0.030	J	1.0 +/- 0.25	1.9 +/- 0.43	1.2 +/- 0.41	
JP-SCR-001	SAIC05	0' to 3.3'	ICP-MS	mg/kg	0.0062	U	0.0079		1.1	ND	
JP-SCR-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.51 +/- 0.13	0.029 +/- 0.023	J	0.54 +/- 0.14	1.1 +/- 0.25	1.1 +/- 0.40	
JP-SCR-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.010 +/- 0.012	J	0.75 +/- 0.18	1.5 +/- 0.33	1.0 +/- 0.36	
JP-SCR-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.87 +/- 0.21	0.068 +/- 0.039	J	1.0 +/- 0.25	2.0 +/- 0.44	1.2 +/- 0.41	
JP-SCR-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.91 +/- 0.23	0.035 +/- 0.028	J	0.77 +/- 0.20	1.7 +/- 0.39	0.85 +/- 0.31	
JP-SCR-002	SAIC05	0' to 3'	ICP-MS	mg/kg	0.0061	U	0.019	J	2.8	ND	
JP-SCR-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.025 +/- 0.020	J	0.80 +/- 0.20	1.6 +/- 0.37	0.99 +/- 0.34	
JP-SCR-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.019 +/- 0.018	J	0.69 +/- 0.18	1.4 +/- 0.32	1.0 +/- 0.36	
JP-SCR-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.73 +/- 0.19	0.035 +/- 0.027	J	0.66 +/- 0.17	1.4 +/- 0.33	0.91 +/- 0.34	
JP-SCR-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.48 +/- 0.13	0.019 +/- 0.019	J	0.53 +/- 0.14	1.0 +/- 0.24	1.1 +/- 0.42	
JP-SCR-003	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0062	U	0.0031	J	0.44	ND	
JP-SCR-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.044 +/- 0.031	J	0.71 +/- 0.18	1.6 +/- 0.35	0.89 +/- 0.32	
JP-SCR-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.87 +/- 0.21	0.046 +/- 0.030	J	0.96 +/- 0.23	1.9 +/- 0.42	1.1 +/- 0.38	
JP-SCR-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.97 +/- 0.24	0.052 +/- 0.034	J	0.84 +/- 0.21	1.9 +/- 0.42	0.86 +/- 0.30	
JP-SCR-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.1 +/- 0.26	0.034 +/- 0.025	J	1.00 +/- 0.24	2.1 +/- 0.47	0.91 +/- 0.31	
JP-SCR-004	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0061	U	0.0055	BN	0.79	ND	
JP-SCR-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.041 +/- 0.029	J	0.86 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.39	
JP-SCR-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.77 +/- 0.20	0.036 +/- 0.027	J	0.75 +/- 0.19	1.6 +/- 0.35	0.98 +/- 0.35	
JP-SCR-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.70 +/- 0.17	0.041 +/- 0.028	J	0.74 +/- 0.18	1.5 +/- 0.33	1.1 +/- 0.37	
JP-SCR-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.034 +/- 0.026	J	0.86 +/- 0.21	1.8 +/- 0.41	0.92 +/- 0.32	
JP-SCR-005	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0065	U	0.0070		0.98	ND	
JP-SCR-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.030 +/- 0.023	J	0.84 +/- 0.21	1.6 +/- 0.36	1.1 +/- 0.40	
JP-SCR-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.83 +/- 0.20	0.022 +/- 0.019	J	0.84 +/- 0.21	1.7 +/- 0.38	1.0 +/- 0.35	
JP-SCR-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.052 +/- 0.031	J	0.94 +/- 0.23	J	1.1 +/- 0.39	
JP-SCR-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.88 +/- 0.21	0.026 +/- 0.020	J	0.88 +/- 0.21	1.8 +/- 0.39	1.00 +/- 0.34	
JP-SCR-006	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0062	U	0.0058	BN	0.81	ND	
JP-SCR-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.83 +/- 0.20	0.046 +/- 0.030	J	0.93 +/- 0.23	1.8 +/- 0.40	1.1 +/- 0.39	
JP-SCR-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.039 +/- 0.027	J	0.93 +/- 0.23	1.9 +/- 0.42	1.00 +/- 0.34	
JP-SCR-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.042 +/- 0.029	J	1.0 +/- 0.25	2.0 +/- 0.45	1.1 +/- 0.38	
JP-SCR-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.035 +/- 0.026	J	0.83 +/- 0.21	1.6 +/- 0.35	1.2 +/- 0.42	
JP-SCR-007	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0068	U	0.0081	N	1.1	ND	
JP-SCR-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.70 +/- 0.17	0.051 +/- 0.031	J	0.79 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.39	
JP-SCR-008	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.71 +/- 0.18	J	0.012 +/- 0.014	U	0.72 +/- 0.18	J	1.4 +/- 0.32
JP-SCR-008	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.70 +/- 0.12	J	0.019 +/- 0.013	U	0.75 +/- 0.13	J	1.5 +/- 0.24
JP-SCR-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.72 +/- 0.18	J	0.038 +/- 0.025	J	0.72 +/- 0.18	J	1.5 +/- 0.33
JP-SCR-008	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.77 +/- 0.19		0.046 +/- 0.030	J	0.82 +/- 0.20		1.6 +/- 0.37
JP-SCR-008	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.75 +/- 0.13		0.041 +/- 0.019	J	0.76 +/- 0.13		1.6 +/- 0.25
JP-SCR-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.81 +/- 0.20		0.029 +/- 0.022	J	0.70 +/- 0.18		1.5 +/- 0.35
JP-SCR-008	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.61 +/- 0.16		0.032 +/- 0.024	J	0.75 +/- 0.19		1.4 +/- 0.31
JP-SCR-008	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.69 +/- 0.12		0.030 +/- 0.016	J	0.72 +/- 0.13		1.5 +/- 0.23
JP-SCR-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.70 +/- 0.18		0.047 +/- 0.030	J	0.75 +/- 0.19		1.5 +/- 0.34
JP-SCR-008	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.63 +/- 0.16		0.026 +/- 0.021	J	0.78 +/- 0.19		1.4 +/- 0.33
JP-SCR-008	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.66 +/- 0.12		0.033 +/- 0.017	J	0.76 +/- 0.13		1.5 +/- 0.23
JP-SCR-008	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0062	U	0.0066	N	0.88	ND	
JP-SCR-008	SAIC05D	0' to 4'	ICP-MS	mg/kg	0.0062	U	0.0070	N	0.91	ND	
JP-SCR-008	SAIC05C	0' to 4'	ICP-MS	mg/kg	0.0062	U	0.0068	N	0.90	ND	
JP-SCR-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.042 +/- 0.029	J	0.91 +/- 0.22	1.8 +/- 0.40	1.1 +/- 0.38	

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238			
JP-SCR-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.84 +/- 0.20	0.030 +/- 0.023	J	1.0 +/- 0.24	1.9 +/- 0.42	1.2 +/- 0.41
JP-SCR-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.96 +/- 0.23	0.055 +/- 0.033	J	1.0 +/- 0.24	2.0 +/- 0.45	1.0 +/- 0.36
JP-SCR-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.038 +/- 0.027	J	0.88 +/- 0.21	1.9 +/- 0.41	0.94 +/- 0.32
JP-SCR-009	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0065	U	0.0061	BN	0.84	ND
<b>Background – Grayford and Ryker</b>										
JP-SGR-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.52 +/- 0.14	0.036 +/- 0.026	J	0.60 +/- 0.15	1.2 +/- 0.27	1.2 +/- 0.43
JP-SGR-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.59 +/- 0.15	0.015 +/- 0.016	J	0.68 +/- 0.17	1.3 +/- 0.29	1.2 +/- 0.42
JP-SGR-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.030 +/- 0.025	J	0.74 +/- 0.19	1.4 +/- 0.32	1.1 +/- 0.41
JP-SGR-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.95 +/- 0.23	0.039 +/- 0.027	J	0.90 +/- 0.22	1.9 +/- 0.42	0.95 +/- 0.33
JP-SGR-001	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0064	U	0.0037	J	0.56	ND
JP-SGR-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.050 +/- 0.031	J	0.75 +/- 0.19	1.6 +/- 0.35	0.99 +/- 0.35
JP-SGR-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	1.1 +/- 0.26	0.047 +/- 0.030	J	1.0 +/- 0.24	2.2 +/- 0.47	0.94 +/- 0.31
JP-SGR-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1.8 +/- 0.42	0.059 +/- 0.035	J	1.9 +/- 0.43	3.8 +/- 0.81	1.0 +/- 0.33
JP-SGR-002	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0061	U	0.0050	J	0.75	ND
JP-SGR-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.71 +/- 0.17	0.029 +/- 0.022	J	0.74 +/- 0.18	1.5 +/- 0.33	1.0 +/- 0.36
JP-SGR-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.034 +/- 0.025	J	0.92 +/- 0.23	1.7 +/- 0.39	1.2 +/- 0.42
JP-SGR-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1.0 +/- 0.25	0.045 +/- 0.030	J	0.97 +/- 0.24	2.0 +/- 0.45	0.95 +/- 0.33
JP-SGR-003	SAIC05	0' to 2'	ICP-MS	mg/kg	0.0064	U	0.0084		1.2	ND
JP-SGR-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.025 +/- 0.020	J	0.68 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.39
JP-SGR-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.96 +/- 0.24	0.030 +/- 0.024	J	1.1 +/- 0.26	2.0 +/- 0.46	1.1 +/- 0.38
JP-SGR-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.042 +/- 0.029	J	0.85 +/- 0.21	1.6 +/- 0.37	1.2 +/- 0.41
JP-SGR-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.028 +/- 0.022	J	0.78 +/- 0.20	1.5 +/- 0.34	1.2 +/- 0.42
JP-SGR-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.055 +/- 0.033	J	0.93 +/- 0.22	1.7 +/- 0.39	1.2 +/- 0.42
JP-SGR-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.97 +/- 0.24	0.046 +/- 0.030	J	0.92 +/- 0.22	1.9 +/- 0.43	0.94 +/- 0.32
JP-SGR-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.051 +/- 0.032	J	1.1 +/- 0.26	2.1 +/- 0.46	1.2 +/- 0.40
JP-SGR-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.025 +/- 0.021	J	1.0 +/- 0.24	1.9 +/- 0.42	1.2 +/- 0.41
JP-SGR-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.016 +/- 0.016	J	0.84 +/- 0.21	1.6 +/- 0.36	1.1 +/- 0.40
JP-SGR-006	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	1.1 +/- 0.25	0.036 +/- 0.027	J	0.93 +/- 0.23	2.0 +/- 0.45	0.89 +/- 0.31
JP-SGR-006	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.85 +/- 0.15	0.021 +/- 0.014	J	0.88 +/- 0.15	1.8 +/- 0.28	1.0 +/- 0.26
JP-SGR-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.90 +/- 0.22	0.043 +/- 0.028	J	0.93 +/- 0.22	1.9 +/- 0.41	1.0 +/- 0.35
JP-SGR-006	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.028 +/- 0.022	J	0.95 +/- 0.23	1.8 +/- 0.40	1.2 +/- 0.41
JP-SGR-006	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.85 +/- 0.15	0.034 +/- 0.017	J	0.94 +/- 0.16	1.8 +/- 0.29	1.1 +/- 0.27
JP-SGR-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.87 +/- 0.21	0.039 +/- 0.028	J	0.96 +/- 0.23	1.9 +/- 0.41	1.1 +/- 0.38
JP-SGR-006	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.060 +/- 0.035	J	0.96 +/- 0.23	1.8 +/- 0.41	1.2 +/- 0.40
JP-SGR-006	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.84 +/- 0.15	0.047 +/- 0.022	J	0.96 +/- 0.16	1.8 +/- 0.29	1.1 +/- 0.28
JP-SGR-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.64 +/- 0.16	0.054 +/- 0.033	J	0.75 +/- 0.19	1.4 +/- 0.33	1.2 +/- 0.42
JP-SGR-006	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.040 +/- 0.027	J	0.73 +/- 0.18	1.5 +/- 0.33	1.1 +/- 0.39
JP-SGR-006	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.65 +/- 0.12	0.046 +/- 0.021	J	0.74 +/- 0.13	1.4 +/- 0.23	1.1 +/- 0.29
JP-SGR-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.93 +/- 0.22	0.046 +/- 0.030	J	0.94 +/- 0.23	1.9 +/- 0.42	1.0 +/- 0.35
JP-SGR-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.97 +/- 0.23	0.045 +/- 0.029	J	0.97 +/- 0.23	2.0 +/- 0.44	1.0 +/- 0.34
JP-SGR-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.95 +/- 0.23	0.048 +/- 0.030	J	1.1 +/- 0.26	2.1 +/- 0.46	1.1 +/- 0.39
JP-SGR-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.046 +/- 0.030	J	0.96 +/- 0.23	1.9 +/- 0.43	1.0 +/- 0.35
JP-SGR-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.020 +/- 0.019	J	0.72 +/- 0.18	1.4 +/- 0.31	1.1 +/- 0.39
JP-SGR-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.037 +/- 0.026	J	0.86 +/- 0.21	1.7 +/- 0.37	1.1 +/- 0.39
JP-SGR-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.038 +/- 0.026	J	0.89 +/- 0.22	1.6 +/- 0.37	1.3 +/- 0.44
JP-SGR-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.1 +/- 0.26	0.076 +/- 0.041	J	0.99 +/- 0.24	2.2 +/- 0.48	0.91 +/- 0.31
JP-SGR-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.79 +/- 0.19	0.053 +/- 0.032	J	0.76 +/- 0.19	1.6 +/- 0.36	0.96 +/- 0.33
JP-SGR-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.053 +/- 0.033	J	0.96 +/- 0.24	1.9 +/- 0.42	1.1 +/- 0.39
JP-SGR-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.049 +/- 0.031	J	0.84 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.37
JP-SGR-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.030 +/- 0.023	J	0.82 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.38
<b>Category 1 – Outside DU Impact Area Perimeter</b>										
JP-SC1-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.032 +/- 0.024	J	0.86 +/- 0.21	1.6 +/- 0.35	1.3 +/- 0.45
JP-SC1-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.034 +/- 0.025	J	0.79 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.37
JP-SC1-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.035 +/- 0.026	J	0.85 +/- 0.21	1.5 +/- 0.34	1.4 +/- 0.49

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238			
JP-SC1-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.057 +/- 0.035	J	0.81 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.39
JP-SC1-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.045 +/- 0.029	J	0.84 +/- 0.20	1.6 +/- 0.36	1.2 +/- 0.41
JP-SC1-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.059 +/- 0.035	J	0.79 +/- 0.19	1.7 +/- 0.37	0.96 +/- 0.33
JP-SC1-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.91 +/- 0.22	0.040 +/- 0.027	J	0.86 +/- 0.21	1.8 +/- 0.40	0.94 +/- 0.32
JP-SC1-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.033 +/- 0.024	J	0.74 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.40
JP-SC1-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.59 +/- 0.15	0.030 +/- 0.023	J	0.62 +/- 0.16	1.3 +/- 0.29	1.1 +/- 0.38
JP-SC1-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.64 +/- 0.16	0.023 +/- 0.021	J	0.68 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.38
JP-SC1-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.033 +/- 0.024	J	0.66 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.38
JP-SC1-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.87 +/- 0.21	0.037 +/- 0.026	J	0.83 +/- 0.20	1.7 +/- 0.39	0.96 +/- 0.33
JP-SC1-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.60 +/- 0.16	0.024 +/- 0.021	J	0.81 +/- 0.20	1.4 +/- 0.33	1.3 +/- 0.47
JP-SC1-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.032 +/- 0.024	J	0.75 +/- 0.19	1.4 +/- 0.33	1.1 +/- 0.41
JP-SC1-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.034 +/- 0.025	J	0.80 +/- 0.20	1.6 +/- 0.37	1.00 +/- 0.35
JP-SC1-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.0 +/- 0.24	0.015 +/- 0.016	J	1.0 +/- 0.24	2.0 +/- 0.45	0.99 +/- 0.34
JP-SC1-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.045 +/- 0.030	J	0.80 +/- 0.20	1.7 +/- 0.38	0.94 +/- 0.33
JP-SC1-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.75 +/- 0.18	0.034 +/- 0.024	J	0.82 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.38
JP-SC1-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.039 +/- 0.028	J	0.70 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.39
JP-SC1-006	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.057 +/- 0.035	J	0.71 +/- 0.18	1.5 +/- 0.34	0.97 +/- 0.34
JP-SC1-006	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.69 +/- 0.12	0.046 +/- 0.022	J	0.71 +/- 0.13	1.4 +/- 0.23	1.0 +/- 0.26
JP-SC1-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.68 +/- 0.18	0.043 +/- 0.029	J	0.67 +/- 0.17	1.4 +/- 0.32	0.98 +/- 0.36
JP-SC1-006	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.60 +/- 0.16	0.041 +/- 0.029	J	0.69 +/- 0.18	1.3 +/- 0.31	1.2 +/- 0.43
JP-SC1-006	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.63 +/- 0.12	0.042 +/- 0.021	J	0.68 +/- 0.12	1.4 +/- 0.22	1.1 +/- 0.28
JP-SC1-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.028 +/- 0.023	J	0.71 +/- 0.18	1.5 +/- 0.35	0.90 +/- 0.32
JP-SC1-006	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.044 +/- 0.030	J	0.77 +/- 0.19	1.5 +/- 0.35	1.1 +/- 0.38
JP-SC1-006	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.75 +/- 0.13	0.034 +/- 0.018	J	0.74 +/- 0.13	1.5 +/- 0.25	0.98 +/- 0.25
JP-SC1-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.029 +/- 0.023	J	0.71 +/- 0.18	1.5 +/- 0.33	0.98 +/- 0.35
JP-SC1-006	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.032 +/- 0.024	J	0.80 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.38
JP-SC1-006	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.73 +/- 0.13	0.030 +/- 0.017	J	0.75 +/- 0.13	1.5 +/- 0.24	1.0 +/- 0.25
JP-SC1-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.048 +/- 0.031	J	0.75 +/- 0.19	1.5 +/- 0.33	1.1 +/- 0.40
JP-SC1-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.017 +/- 0.017	J	0.82 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.41
JP-SC1-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.040 +/- 0.028	J	0.79 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.37
JP-SC1-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.77 +/- 0.20	0.073 +/- 0.042	J	0.76 +/- 0.19	1.6 +/- 0.36	0.99 +/- 0.36
JP-SC1-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.64 +/- 0.16	0.036 +/- 0.026	J	0.78 +/- 0.20	1.5 +/- 0.33	1.2 +/- 0.43
JP-SC1-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.035 +/- 0.025	J	0.85 +/- 0.21	1.6 +/- 0.36	1.2 +/- 0.42
JP-SC1-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.066 +/- 0.039	J	0.91 +/- 0.22	1.7 +/- 0.39	1.2 +/- 0.42
JP-SC1-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.040 +/- 0.028	J	0.80 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.40
JP-SC1-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.025 +/- 0.021	J	0.88 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.38
JP-SC1-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.79 +/- 0.19	0.031 +/- 0.023	J	0.76 +/- 0.19	1.6 +/- 0.35	0.96 +/- 0.33
JP-SC1-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.96 +/- 0.23	0.053 +/- 0.034	J	0.99 +/- 0.24	2.0 +/- 0.45	1.0 +/- 0.35
JP-SC1-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.90 +/- 0.22	0.025 +/- 0.020	J	0.86 +/- 0.21	1.8 +/- 0.40	0.95 +/- 0.32
JP-SC1-010	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.062 +/- 0.037	J	1.0 +/- 0.24	1.9 +/- 0.43	1.2 +/- 0.41
JP-SC1-010	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.028 +/- 0.023	J	0.90 +/- 0.22	1.7 +/- 0.38	1.2 +/- 0.42
JP-SC1-010	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.040 +/- 0.028	J	0.82 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.39
JP-SC1-010	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.040 +/- 0.027	J	0.81 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.38
JP-SC1-011	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.054 +/- 0.032	J	0.87 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.40
JP-SC1-011	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.90 +/- 0.22	0.052 +/- 0.032	J	0.78 +/- 0.19	1.7 +/- 0.38	0.87 +/- 0.30
JP-SC1-011	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1.0 +/- 0.25	0.065 +/- 0.038	J	1.0 +/- 0.24	2.1 +/- 0.47	0.97 +/- 0.33
JP-SC1-011	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.74 +/- 0.18	0.045 +/- 0.029	J	0.81 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.38
JP-SC1-012	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.063 +/- 0.036	J	0.72 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.41
JP-SC1-012	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.027 +/- 0.021	J	0.71 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.37
JP-SC1-012	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.024 +/- 0.020	J	0.76 +/- 0.19	1.5 +/- 0.33	1.1 +/- 0.37
<b>Category 2 – Immediately Inside DU Impact Area</b>										
JP-SC2-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.022 +/- 0.019	J	0.80 +/- 0.20	1.5 +/- 0.34	1.1 +/- 0.40
JP-SC2-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.030 +/- 0.022	J	0.84 +/- 0.20	1.6 +/- 0.35	1.2 +/- 0.41
JP-SC2-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.83 +/- 0.20	0.032 +/- 0.024	J	0.90 +/- 0.22	1.8 +/- 0.39	1.1 +/- 0.37

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Total and Isotopic Uranium Results for Soil and Sediment Samples											DU Presence	
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)						U-238/U-234 Ratio	
					U-234		U-235		U-238		Total Uranium	Weight Percent U-235
JP-SC2-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.90 +/- 0.22		0.048 +/- 0.032	J	0.93 +/- 0.23			
JP-SC2-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.86 +/- 0.21		0.018 +/- 0.017	J	0.94 +/- 0.23		1.8 +/- 0.40	1.1 +/- 0.37
JP-SC2-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.92 +/- 0.23		0.047 +/- 0.030	J	1.0 +/- 0.25		2.0 +/- 0.44	1.1 +/- 0.38
JP-SC2-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.76 +/- 0.19		0.025 +/- 0.021	J	0.92 +/- 0.23		1.7 +/- 0.39	1.2 +/- 0.43
JP-SC2-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.83 +/- 0.20		0.042 +/- 0.028	J	0.84 +/- 0.21		1.7 +/- 0.38	1.0 +/- 0.35
JP-SC2-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.64 +/- 0.16		0.039 +/- 0.026	J	0.57 +/- 0.15		1.3 +/- 0.28	0.88 +/- 0.32
JP-SC2-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.50 +/- 0.13		0.027 +/- 0.022	J	0.62 +/- 0.16		1.1 +/- 0.27	1.2 +/- 0.46
JP-SC2-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.47 +/- 0.13		0.011 +/- 0.013	J	0.52 +/- 0.14		1.00 +/- 0.23	1.1 +/- 0.41
JP-SC2-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.44 +/- 0.12	J	0.014 +/- 0.014	J	0.60 +/- 0.15	J	1.1 +/- 0.24	1.4 +/- 0.50
JP-SC2-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.89 +/- 0.21	J	0.031 +/- 0.023	J	0.74 +/- 0.18	J	1.7 +/- 0.37	0.83 +/- 0.29
JP-SC2-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.71 +/- 0.18	J	0.036 +/- 0.024	J	0.77 +/- 0.19	J	1.5 +/- 0.34	1.1 +/- 0.37
JP-SC2-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.19	J	0.044 +/- 0.028	J	0.78 +/- 0.19	J	1.6 +/- 0.36	1.0 +/- 0.35
JP-SC2-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.71 +/- 0.18		0.021 +/- 0.019	J	0.86 +/- 0.21		1.6 +/- 0.35	1.2 +/- 0.42
JP-SC2-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.63 +/- 0.16		0.027 +/- 0.022	J	0.72 +/- 0.18		1.4 +/- 0.31	1.1 +/- 0.41
JP-SC2-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.59 +/- 0.15		0.032 +/- 0.025	J	0.65 +/- 0.17		1.3 +/- 0.29	1.1 +/- 0.40
JP-SC2-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.77 +/- 0.19		0.033 +/- 0.025	J	0.77 +/- 0.19		1.6 +/- 0.35	1.00 +/- 0.35
JP-SC2-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.94 +/- 0.23		0.037 +/- 0.027	J	0.92 +/- 0.23		1.9 +/- 0.42	0.98 +/- 0.34
JP-SC2-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.74 +/- 0.18		0.021 +/- 0.019	J	0.73 +/- 0.18		1.5 +/- 0.34	0.99 +/- 0.35
JP-SC2-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.73 +/- 0.18		0.035 +/- 0.025	J	0.83 +/- 0.20		1.6 +/- 0.35	1.1 +/- 0.39
JP-SC2-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.71 +/- 0.18		0.043 +/- 0.029	J	0.86 +/- 0.21		1.6 +/- 0.36	1.2 +/- 0.43
JP-SC2-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.92 +/- 0.23		0.038 +/- 0.027	J	1.0 +/- 0.25		2.0 +/- 0.44	1.1 +/- 0.38
JP-SC2-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.79 +/- 0.20		0.030 +/- 0.025	J	1.1 +/- 0.25		1.9 +/- 0.42	1.3 +/- 0.46
JP-SC2-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.73 +/- 0.19		0.073 +/- 0.042	J	0.84 +/- 0.21		1.6 +/- 0.37	1.2 +/- 0.41
JP-SC2-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.77 +/- 0.19		0.033 +/- 0.025	J	0.87 +/- 0.21		1.7 +/- 0.38	1.1 +/- 0.40
JP-SC2-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.73 +/- 0.19		0.049 +/- 0.032	J	1.0 +/- 0.25		1.8 +/- 0.40	1.4 +/- 0.49
JP-SC2-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.75 +/- 0.19		0.051 +/- 0.033	J	0.91 +/- 0.22		1.7 +/- 0.39	1.2 +/- 0.42
JP-SC2-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	1.0 +/- 0.24		0.031 +/- 0.023	J	0.95 +/- 0.23		2.0 +/- 0.44	0.94 +/- 0.32
JP-SC2-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.19		0.049 +/- 0.032	J	0.88 +/- 0.21		1.7 +/- 0.38	1.1 +/- 0.39
JP-SC2-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.79 +/- 0.20		0.043 +/- 0.029	J	0.88 +/- 0.22		1.7 +/- 0.39	1.1 +/- 0.39
JP-SC2-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.67 +/- 0.17		0.020 +/- 0.019	J	0.74 +/- 0.19		1.4 +/- 0.33	1.1 +/- 0.39
JP-SC2-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.52 +/- 0.14		0.024 +/- 0.021	J	0.66 +/- 0.17		1.2 +/- 0.28	1.3 +/- 0.47
JP-SC2-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.61 +/- 0.16		0.044 +/- 0.031	J	0.84 +/- 0.21		1.5 +/- 0.34	1.4 +/- 0.50
JP-SC2-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.67 +/- 0.17		0.036 +/- 0.025	J	0.70 +/- 0.17		1.4 +/- 0.32	1.0 +/- 0.37
JP-SC2-010	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19		0.029 +/- 0.024	J	0.76 +/- 0.19		1.6 +/- 0.35	1.0 +/- 0.36
JP-SC2-010	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.81 +/- 0.20		0.051 +/- 0.032	J	0.78 +/- 0.19		1.6 +/- 0.37	0.96 +/- 0.34
JP-SC2-010	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.20		0.038 +/- 0.027	J	0.68 +/- 0.17		1.5 +/- 0.34	0.87 +/- 0.31
JP-SC2-010	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.72 +/- 0.18		0.024 +/- 0.021	J	0.84 +/- 0.21		1.6 +/- 0.35	1.2 +/- 0.41
JP-SC2-011	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.83 +/- 0.20		0.029 +/- 0.023	J	0.82 +/- 0.20		1.7 +/- 0.37	0.99 +/- 0.34
JP-SC2-011	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.75 +/- 0.19		0.019 +/- 0.018	J	0.79 +/- 0.19		1.6 +/- 0.35	1.1 +/- 0.36
JP-SC2-011	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.79 +/- 0.14		0.023 +/- 0.014	J	0.80 +/- 0.14		1.6 +/- 0.26	1.0 +/- 0.25
JP-SC2-011	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.80 +/- 0.20		0.046 +/- 0.029	J	0.86 +/- 0.21		1.7 +/- 0.38	1.1 +/- 0.37
JP-SC2-011	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.76 +/- 0.19		0.033 +/- 0.024	J	0.80 +/- 0.19		1.6 +/- 0.35	1.1 +/- 0.36
JP-SC2-011	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.78 +/- 0.13		0.038 +/- 0.018	J	0.82 +/- 0.14		1.6 +/- 0.26	1.1 +/- 0.26
JP-SC2-011	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.85 +/- 0.20		0.027 +/- 0.021	J	0.88 +/- 0.21		1.8 +/- 0.39	1.0 +/- 0.35
JP-SC2-011	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.82 +/- 0.20		0.040 +/- 0.027	J	0.81 +/- 0.20		1.7 +/- 0.37	0.99 +/- 0.34
JP-SC2-011	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.83 +/- 0.14		0.032 +/- 0.017	J	0.84 +/- 0.15		1.7 +/- 0.27	1.0 +/- 0.25
JP-SC2-011	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.94 +/- 0.23		0.023 +/- 0.020	J	0.86 +/- 0.21		1.8 +/- 0.41	0.92 +/- 0.32
JP-SC2-011	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.84 +/- 0.21		0.025 +/- 0.022	J	0.88 +/- 0.21		1.7 +/- 0.39	1.1 +/- 0.36
JP-SC2-011	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.88 +/- 0.15		0.024 +/- 0.015	J	0.87 +/- 0.15		1.8 +/- 0.28	0.99 +/- 0.24
JP-SC2-012	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.82 +/- 0.20		0.036 +/- 0.026	J	0.88 +/- 0.21		1.7 +/- 0.39	1.1 +/- 0.37
JP-SC2-012	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	1.1 +/- 0.27		0.056 +/- 0.036	J	1.1 +/- 0.27		2.3 +/- 0.51	1.0 +/- 0.35
JP-SC2-012	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.91 +/- 0.22		0.041 +/- 0.028	J	1.0 +/- 0.25		2.0 +/- 0.44	1.1 +/- 0.38
JP-SC2-012	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.75 +/- 0.19		0.034 +/- 0.025	J	0.69 +/- 0.17		1.5 +/- 0.33	0.91 +/- 0.32



**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Total and Isotopic Uranium Results for Soil and Sediment Samples										DU Presence
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				U-238/U-234 Ratio	
					U-234	U-235	U-238	Total Uranium	Weight Percent U-235	
Category 3 – Midway to DU Impact Area Trenches										
JP-SC3-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.042 +/- 0.028 J	0.95 +/- 0.23	1.8 +/- 0.41	1.1 +/- 0.39	
JP-SC3-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.87 +/- 0.21	0.042 +/- 0.028 J	0.90 +/- 0.22	1.8 +/- 0.40	1.0 +/- 0.35	
JP-SC3-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.92 +/- 0.22	0.014 +/- 0.015 J	0.91 +/- 0.22	1.8 +/- 0.41	0.98 +/- 0.33	
JP-SC3-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.89 +/- 0.21	0.063 +/- 0.035 J	1.0 +/- 0.24	2.0 +/- 0.43	1.1 +/- 0.38	
JP-SC3-001	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.83 +/- 0.20	0.046 +/- 0.029 J	0.83 +/- 0.20	1.7 +/- 0.38	1.00 +/- 0.34	
JP-SC3-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.027 +/- 0.023 J	0.90 +/- 0.23	1.6 +/- 0.37	1.3 +/- 0.46	
JP-SC3-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.033 +/- 0.024 J	0.78 +/- 0.19	1.6 +/- 0.36	0.95 +/- 0.33	
JP-SC3-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.89 +/- 0.22	0.022 +/- 0.019 J	0.90 +/- 0.22	1.8 +/- 0.40	1.0 +/- 0.35	
JP-SC3-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.88 +/- 0.22	0.046 +/- 0.030 J	0.75 +/- 0.19	1.7 +/- 0.38	0.85 +/- 0.30	
JP-SC3-002	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.55 +/- 0.15	0.018 +/- 0.018 J	0.63 +/- 0.17	1.2 +/- 0.28	1.1 +/- 0.43	
JP-SC3-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.70 +/- 0.18 J	0.027 +/- 0.022 J	0.75 +/- 0.19 J	1.5 +/- 0.34	1.1 +/- 0.38	
JP-SC3-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.032 +/- 0.024 J	0.71 +/- 0.18	1.5 +/- 0.33	0.97 +/- 0.34	
JP-SC3-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.053 +/- 0.033 J	0.74 +/- 0.19	1.6 +/- 0.35	0.98 +/- 0.35	
JP-SC3-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.69 +/- 0.18	0.022 +/- 0.019 J	0.73 +/- 0.18	1.5 +/- 0.33	1.1 +/- 0.38	
JP-SC3-003	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.69 +/- 0.17	0.011 +/- 0.015 U	0.68 +/- 0.17	1.4 +/- 0.31	0.98 +/- 0.34	
JP-SC3-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.69 +/- 0.18	0.040 +/- 0.028 J	0.64 +/- 0.17	1.4 +/- 0.31	0.93 +/- 0.34	
JP-SC3-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.60 +/- 0.15	0.040 +/- 0.027 J	0.76 +/- 0.19	1.4 +/- 0.32	1.3 +/- 0.45	
JP-SC3-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.047 +/- 0.030 J	0.71 +/- 0.18	1.5 +/- 0.33	0.98 +/- 0.34	
JP-SC3-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.035 +/- 0.025 J	0.61 +/- 0.16	1.3 +/- 0.30	0.90 +/- 0.32	
JP-SC3-004	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.024 +/- 0.021 J	0.81 +/- 0.20	1.5 +/- 0.34	1.2 +/- 0.42	
JP-SC3-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	2.3 +/- 0.54	0.19 +/- 0.092	14 +/- 3.1	16 +/- 3.5	6.0 +/- 2.0	
JP-SC3-005	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	2.7	0.24 +/- 0.18	16 +/- 5.4	19 +/- 5.4	5.9	
JP-SC3-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.060 +/- 0.034 J	1.2 +/- 0.28	2.0 +/- 0.44	1.6 +/- 0.53	
JP-SC3-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.025 +/- 0.021 J	1.1 +/- 0.25	2.0 +/- 0.43	1.2 +/- 0.42	
JP-SC3-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.033 +/- 0.024 J	0.85 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.39	
JP-SC3-005	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.041 +/- 0.028 J	0.94 +/- 0.23	1.7 +/- 0.39	1.2 +/- 0.43	
JP-SC3-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.010 +/- 0.014 U	0.66 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.38	
JP-SC3-006	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.045 +/- 0.031 J	0.76 +/- 0.19	1.4 +/- 0.33	1.2 +/- 0.45	
JP-SC3-006	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.62 +/- 0.11	0.016 +/- 0.013 J	0.70 +/- 0.13	1.4 +/- 0.22	1.1 +/- 0.29	
JP-SC3-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.049 +/- 0.032 J	0.68 +/- 0.17	1.4 +/- 0.32	1.0 +/- 0.38	
JP-SC3-006	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.64 +/- 0.17	0.036 +/- 0.026 J	0.70 +/- 0.18	1.4 +/- 0.31	1.1 +/- 0.39	
JP-SC3-006	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.65 +/- 0.12	0.041 +/- 0.020 J	0.69 +/- 0.12	1.4 +/- 0.22	1.1 +/- 0.27	
JP-SC3-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.050 +/- 0.032 J	0.74 +/- 0.19	1.5 +/- 0.34	1.0 +/- 0.38	
JP-SC3-006	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.034 +/- 0.025 J	0.78 +/- 0.19	1.5 +/- 0.33	1.2 +/- 0.43	
JP-SC3-006	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.67 +/- 0.12	0.040 +/- 0.020 J	0.76 +/- 0.13	1.5 +/- 0.24	1.1 +/- 0.28	
JP-SC3-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.89 +/- 0.22	0.030 +/- 0.025 J	0.89 +/- 0.22	1.8 +/- 0.41	1.0 +/- 0.35	
JP-SC3-006	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.031 +/- 0.024 J	0.87 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.37	
JP-SC3-006	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.85 +/- 0.15	0.031 +/- 0.017 J	0.88 +/- 0.15	1.8 +/- 0.28	1.0 +/- 0.25	
JP-SC3-006	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.041 +/- 0.029 J	0.87 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.39	
JP-SC3-006	SAIC05D	4' to 6'	Alpha Spec.	pCi/g	0.94 +/- 0.23	0.040 +/- 0.029 J	0.85 +/- 0.21	1.8 +/- 0.41	0.90 +/- 0.32	
JP-SC3-006	SAIC05C	4' to 6'	Alpha Spec.	pCi/g	0.85 +/- 0.15	0.041 +/- 0.021 J	0.86 +/- 0.15	1.8 +/- 0.28	1.0 +/- 0.25	
JP-SC3-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.023 +/- 0.020 J	0.60 +/- 0.16	1.3 +/- 0.29	0.96 +/- 0.35	
JP-SC3-007	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.60 +/- 0.16	0.017 +/- 0.018 U	0.65 +/- 0.17	1.3 +/- 0.29	1.1 +/- 0.39	
JP-SC3-007	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.61 +/- 0.11	0.020 +/- 0.013 U	0.62 +/- 0.11	1.3 +/- 0.20	1.0 +/- 0.26	
JP-SC3-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.021 +/- 0.020 J	0.73 +/- 0.19	1.6 +/- 0.35	0.91 +/- 0.32	
JP-SC3-007	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.024 +/- 0.021 J	0.86 +/- 0.21	1.6 +/- 0.36	1.2 +/- 0.42	
JP-SC3-007	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.76 +/- 0.14	0.022 +/- 0.014 J	0.79 +/- 0.14	1.6 +/- 0.25	1.0 +/- 0.26	
JP-SC3-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.025 +/- 0.022 J	0.87 +/- 0.22	1.7 +/- 0.38	1.1 +/- 0.38	
JP-SC3-007	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.019 +/- 0.018 J	0.71 +/- 0.18	1.5 +/- 0.33	0.99 +/- 0.35	
JP-SC3-007	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.76 +/- 0.13	0.021 +/- 0.014 J	0.77 +/- 0.14	1.6 +/- 0.25	1.0 +/- 0.26	
JP-SC3-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.026 +/- 0.021 J	0.80 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.38	
JP-SC3-007	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.69 +/- 0.17	0.028 +/- 0.022 J	0.75 +/- 0.19	1.5 +/- 0.33	1.1 +/- 0.38	
JP-SC3-007	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.71 +/- 0.13	0.027 +/- 0.015 J	0.77 +/- 0.14	1.5 +/- 0.24	1.1 +/- 0.27	

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238			
JP-SC3-007	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.034 +/- 0.025 J	0.80 +/- 0.20		1.6 +/- 0.36	1.0 +/- 0.36
JP-SC3-007	SAIC05D	4' to 6'	Alpha Spec.	pCi/g	0.82 +/- 0.21	0.061 +/- 0.038 J	0.93 +/- 0.23		1.8 +/- 0.41	1.1 +/- 0.41
JP-SC3-007	SAIC05C	4' to 6'	Alpha Spec.	pCi/g	0.80 +/- 0.14	0.042 +/- 0.021 J	0.86 +/- 0.15		1.7 +/- 0.27	1.1 +/- 0.27
JP-SC3-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.031 +/- 0.024 J	0.69 +/- 0.18		1.3 +/- 0.31	1.1 +/- 0.41
JP-SC3-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.61 +/- 0.16	0.056 +/- 0.035 J	0.69 +/- 0.18		1.4 +/- 0.31	1.1 +/- 0.41
JP-SC3-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.69 +/- 0.18	0.020 +/- 0.019 J	0.82 +/- 0.20		1.5 +/- 0.35	1.2 +/- 0.42
JP-SC3-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.051 +/- 0.032 J	0.77 +/- 0.19		1.6 +/- 0.36	0.97 +/- 0.34
JP-SC3-008	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.64 +/- 0.17	0.043 +/- 0.030 J	0.76 +/- 0.19		1.4 +/- 0.33	1.2 +/- 0.43
JP-SC3-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.024 +/- 0.021 J	0.74 +/- 0.19		1.4 +/- 0.33	1.1 +/- 0.41
JP-SC3-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.77 +/- 0.20	0.031 +/- 0.026 J	0.86 +/- 0.21		1.7 +/- 0.38	1.1 +/- 0.39
JP-SC3-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.63 +/- 0.17	0.022 +/- 0.021 J	0.89 +/- 0.23		1.5 +/- 0.36	1.4 +/- 0.52
JP-SC3-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.028 +/- 0.024 J	0.84 +/- 0.21		1.7 +/- 0.39	0.99 +/- 0.35
JP-SC3-009	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.016 +/- 0.017 J	0.74 +/- 0.19		1.5 +/- 0.34	1.0 +/- 0.37
JP-SC3-010	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.033 +/- 0.026 J	0.91 +/- 0.22		1.7 +/- 0.38	1.2 +/- 0.42
JP-SC3-010	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.83 +/- 0.21	0.036 +/- 0.027 J	0.68 +/- 0.18		1.6 +/- 0.35	0.82 +/- 0.29
JP-SC3-010	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.90 +/- 0.22	0.039 +/- 0.028 J	0.81 +/- 0.20		1.8 +/- 0.39	0.89 +/- 0.31
JP-SC3-010	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.1 +/- 0.27	0.024 +/- 0.022 J	0.92 +/- 0.23		2.0 +/- 0.46	0.84 +/- 0.29
JP-SC3-011	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.043 +/- 0.029 J	0.71 +/- 0.18		1.5 +/- 0.33	0.98 +/- 0.35
JP-SC3-011	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.012 +/- 0.014 J	0.52 +/- 0.14		1.2 +/- 0.27	0.83 +/- 0.31
JP-SC3-011	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.57 +/- 0.15	0.031 +/- 0.024 J	0.62 +/- 0.16		1.2 +/- 0.28	1.1 +/- 0.40
JP-SC3-011	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.043 +/- 0.029 J	0.60 +/- 0.16		1.4 +/- 0.32	0.78 +/- 0.28
JP-SC3-012	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.92 +/- 0.22	0.066 +/- 0.038 J	0.99 +/- 0.24		2.0 +/- 0.44	1.1 +/- 0.37
JP-SC3-012	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.95 +/- 0.23	0.048 +/- 0.030 J	0.96 +/- 0.23		2.0 +/- 0.43	1.0 +/- 0.34
JP-SC3-012	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.66 +/- 0.16	0.024 +/- 0.019 J	0.75 +/- 0.18		1.4 +/- 0.32	1.1 +/- 0.40
JP-SC3-012	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.039 +/- 0.026 J	0.61 +/- 0.15		1.4 +/- 0.30	0.86 +/- 0.31
JP-SC3-012	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.62 +/- 0.16 J	0.047 +/- 0.030 J	0.66 +/- 0.17 J		1.3 +/- 0.30	1.1 +/- 0.38
<b>Category 4 – Immediately Outside DU Impact Area Trenches</b>										
JP-SC4-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.046 +/- 0.031 J	0.75 +/- 0.19		1.5 +/- 0.33	1.1 +/- 0.41
JP-SC4-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.59 +/- 0.15	0.029 +/- 0.023 J	0.65 +/- 0.17		1.3 +/- 0.29	1.1 +/- 0.40
JP-SC4-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.69 +/- 0.17	0.033 +/- 0.024 J	0.71 +/- 0.18		1.4 +/- 0.33	1.0 +/- 0.36
JP-SC4-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.70 +/- 0.18 J	0.023 +/- 0.020 J	0.70 +/- 0.18 J		1.4 +/- 0.32	1.0 +/- 0.35
JP-SC4-001	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.83 +/- 0.21	0.049 +/- 0.032 J	0.89 +/- 0.22		1.8 +/- 0.40	1.1 +/- 0.38
JP-SC4-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.64 +/- 0.16	0.037 +/- 0.026 J	0.70 +/- 0.18		1.4 +/- 0.31	1.1 +/- 0.39
JP-SC4-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.045 +/- 0.031 J	0.76 +/- 0.19		1.4 +/- 0.33	1.2 +/- 0.44
JP-SC4-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.032 +/- 0.025 J	0.62 +/- 0.16		1.3 +/- 0.30	0.95 +/- 0.35
JP-SC4-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.034 +/- 0.026 J	0.66 +/- 0.17		1.4 +/- 0.32	0.94 +/- 0.34
JP-SC4-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.97 +/- 0.23	0.045 +/- 0.029 J	0.83 +/- 0.20		1.9 +/- 0.41	0.86 +/- 0.29
JP-SC4-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.031 +/- 0.024 J	1.0 +/- 0.24		1.7 +/- 0.39	1.4 +/- 0.50
JP-SC4-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.88 +/- 0.21	0.045 +/- 0.029 J	0.93 +/- 0.23		1.9 +/- 0.41	1.1 +/- 0.37
JP-SC4-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.59 +/- 0.15	0.031 +/- 0.023 J	0.71 +/- 0.18		1.3 +/- 0.30	1.2 +/- 0.43
JP-SC4-003	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.038 +/- 0.028 J	0.91 +/- 0.23		1.6 +/- 0.36	1.4 +/- 0.49
JP-SC4-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.57 +/- 0.15	0.027 +/- 0.022 J	0.79 +/- 0.20		1.4 +/- 0.31	1.4 +/- 0.50
JP-SC4-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.048 +/- 0.031 J	0.78 +/- 0.19		1.6 +/- 0.36	1.0 +/- 0.35
JP-SC4-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.82 +/- 0.21	0.030 +/- 0.024 J	0.93 +/- 0.23		1.8 +/- 0.40	1.1 +/- 0.40
JP-SC4-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.074 +/- 0.041 J	0.77 +/- 0.19		1.6 +/- 0.37	0.96 +/- 0.34
JP-SC4-004	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.036 +/- 0.026 J	0.81 +/- 0.20		1.6 +/- 0.36	1.0 +/- 0.37
JP-SC4-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.035 +/- 0.026 J	0.70 +/- 0.18		1.4 +/- 0.32	1.1 +/- 0.38
JP-SC4-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.016 +/- 0.017 J	0.79 +/- 0.20		1.6 +/- 0.36	1.0 +/- 0.36
JP-SC4-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.60 +/- 0.15	0.048 +/- 0.030 J	0.74 +/- 0.19		1.4 +/- 0.31	1.2 +/- 0.45
JP-SC4-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.035 +/- 0.025 J	0.66 +/- 0.17		1.4 +/- 0.31	1.0 +/- 0.37
JP-SC4-005	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.036 +/- 0.025 J	0.80 +/- 0.20		1.6 +/- 0.36	1.1 +/- 0.37
JP-SC4-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.030 +/- 0.023 J	0.87 +/- 0.21		1.7 +/- 0.37	1.1 +/- 0.40
JP-SC4-006	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.036 +/- 0.026 J	0.91 +/- 0.22		1.8 +/- 0.40	1.1 +/- 0.36
JP-SC4-006	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.80 +/- 0.14	0.033 +/- 0.017 J	0.89 +/- 0.15		1.7 +/- 0.27	1.1 +/- 0.27

## Total and Isotopic Uranium Results for Soil and Sediment Samples

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238	Total Uranium	
JP-SC4-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.051 +/- 0.033 J	0.83 +/- 0.20	1.6 +/- 0.35	1.2 +/- 0.41
JP-SC4-006	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.028 +/- 0.023 J	0.78 +/- 0.20	1.6 +/- 0.36	1.00 +/- 0.36
JP-SC4-006	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.74 +/- 0.13	0.035 +/- 0.019 J	0.80 +/- 0.14	1.6 +/- 0.25	1.1 +/- 0.27
JP-SC4-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.025 +/- 0.022 J	0.94 +/- 0.23	1.8 +/- 0.40	1.1 +/- 0.38
JP-SC4-006	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.059 +/- 0.035 J	0.88 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.39
JP-SC4-006	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.81 +/- 0.14	0.035 +/- 0.019 J	0.90 +/- 0.16	1.8 +/- 0.28	1.1 +/- 0.27
JP-SC4-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.027 +/- 0.022 J	0.71 +/- 0.18	1.5 +/- 0.34	0.90 +/- 0.32
JP-SC4-006	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.034 +/- 0.025 J	0.83 +/- 0.20	1.7 +/- 0.37	1.0 +/- 0.36
JP-SC4-006	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.80 +/- 0.14	0.030 +/- 0.016 J	0.76 +/- 0.13	1.6 +/- 0.25	0.96 +/- 0.24
JP-SC4-006	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.044 +/- 0.029 J	0.84 +/- 0.20	1.7 +/- 0.38	1.0 +/- 0.36
JP-SC4-006	SAIC05D	4' to 6'	Alpha Spec.	pCi/g	0.75 +/- 0.18	0.039 +/- 0.026 J	0.75 +/- 0.18	1.6 +/- 0.34	1.0 +/- 0.34
JP-SC4-006	SAIC05C	4' to 6'	Alpha Spec.	pCi/g	0.78 +/- 0.13	0.041 +/- 0.019 J	0.79 +/- 0.14	1.6 +/- 0.25	1.0 +/- 0.25
JP-SC4-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.018 +/- 0.019 J	0.71 +/- 0.18	1.4 +/- 0.33	1.0 +/- 0.37
JP-SC4-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.026 +/- 0.023 J	0.70 +/- 0.18	1.5 +/- 0.34	0.89 +/- 0.32
JP-SC4-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.040 +/- 0.028 J	0.73 +/- 0.19	1.5 +/- 0.33	1.1 +/- 0.39
JP-SC4-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.73 +/- 0.19	0.031 +/- 0.025 J	0.80 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.39
JP-SC4-007	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.051 +/- 0.032 J	0.76 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.40
JP-SC4-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.043 +/- 0.029 J	0.74 +/- 0.19	1.5 +/- 0.35	0.97 +/- 0.34
JP-SC4-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.049 +/- 0.032 J	0.66 +/- 0.17	1.4 +/- 0.32	0.94 +/- 0.34
JP-SC4-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.020 +/- 0.019 J	0.87 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.39
JP-SC4-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.049 +/- 0.031 J	0.87 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.39
JP-SC4-008	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.010 +/- 0.014 U	0.74 +/- 0.19	1.6 +/- 0.35	0.91 +/- 0.32
JP-SC4-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.058 +/- 0.036 J	0.67 +/- 0.17	1.4 +/- 0.33	0.95 +/- 0.34
JP-SC4-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.61 +/- 0.16	0.033 +/- 0.025 J	0.82 +/- 0.20	1.5 +/- 0.33	1.3 +/- 0.48
JP-SC4-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.048 +/- 0.031 J	0.68 +/- 0.17	1.4 +/- 0.33	0.96 +/- 0.34
JP-SC4-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.042 +/- 0.029 J	0.85 +/- 0.21	1.7 +/- 0.37	1.1 +/- 0.38
JP-SC4-009	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.041 +/- 0.029 J	0.83 +/- 0.21	1.6 +/- 0.36	1.1 +/- 0.40
JP-SC4-010	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.025 +/- 0.020 J	0.77 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.38
JP-SC4-010	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.60 +/- 0.16	0.041 +/- 0.028 J	0.62 +/- 0.16	1.3 +/- 0.29	1.0 +/- 0.37
JP-SC4-010	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.029 +/- 0.023 J	0.86 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.38
JP-SC4-010	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.57 +/- 0.15	0.030 +/- 0.023 J	0.71 +/- 0.18	1.3 +/- 0.30	1.2 +/- 0.44
JP-SC4-010	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.56 +/- 0.15	0.024 +/- 0.021 J	0.64 +/- 0.16	1.2 +/- 0.28	1.1 +/- 0.42
JP-SC4-011	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.042 +/- 0.029 J	0.80 +/- 0.20	1.7 +/- 0.37	0.98 +/- 0.35
JP-SC4-011	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.051 +/- 0.032 J	0.69 +/- 0.18	1.6 +/- 0.36	0.82 +/- 0.29
JP-SC4-011	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1.0 +/- 0.24	0.056 +/- 0.033 J	0.87 +/- 0.21	1.9 +/- 0.43	0.86 +/- 0.29
JP-SC4-011	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.0 +/- 0.25	0.045 +/- 0.029 J	1.0 +/- 0.25	2.1 +/- 0.46	0.98 +/- 0.33
JP-SC4-012	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.036 +/- 0.028 J	0.85 +/- 0.21	1.6 +/- 0.35	1.3 +/- 0.46
JP-SC4-012	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.030 +/- 0.023 J	0.77 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.39
JP-SC4-012	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.68 +/- 0.12	0.032 +/- 0.018 J	0.81 +/- 0.14	1.5 +/- 0.24	1.2 +/- 0.30
JP-SC4-012	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.035 +/- 0.026 J	0.75 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.39
JP-SC4-012	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.69 +/- 0.18	0.046 +/- 0.030 J	0.70 +/- 0.18	1.4 +/- 0.33	1.0 +/- 0.36
JP-SC4-012	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.69 +/- 0.12	0.040 +/- 0.020 J	0.72 +/- 0.13	1.5 +/- 0.23	1.1 +/- 0.27
JP-SC4-012	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.46 +/- 0.13	0.016 +/- 0.017 J	0.55 +/- 0.15	1.0 +/- 0.24	1.2 +/- 0.46
JP-SC4-012	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.60 +/- 0.15	0.014 +/- 0.015 J	0.56 +/- 0.14	1.2 +/- 0.27	0.92 +/- 0.33
JP-SC4-012	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.52 +/- 0.098	0.015 +/- 0.011 J	0.56 +/- 0.10	1.1 +/- 0.18	1.1 +/- 0.28
JP-SC4-012	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.025 +/- 0.021 J	0.73 +/- 0.18	1.4 +/- 0.31	1.1 +/- 0.41
JP-SC4-012	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.70 +/- 0.17	0.038 +/- 0.026 J	0.67 +/- 0.17	1.4 +/- 0.32	0.96 +/- 0.34
JP-SC4-012	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.66 +/- 0.12	0.030 +/- 0.016 J	0.70 +/- 0.12	1.4 +/- 0.22	1.1 +/- 0.26
JP-SC4-012	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.030 +/- 0.023 J	0.84 +/- 0.21	1.6 +/- 0.36	1.1 +/- 0.40
JP-SC4-012	SAIC05D	4' to 6'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.035 +/- 0.027 J	0.82 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.38
JP-SC4-012	SAIC05C	4' to 6'	Alpha Spec.	pCi/g	0.75 +/- 0.13	0.032 +/- 0.017 J	0.83 +/- 0.15	1.6 +/- 0.26	1.1 +/- 0.28
<b>Category 5 – Other Nature and Extent Samples</b>									
JP-SC5-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.90 +/- 0.22	0.039 +/- 0.026 J	0.89 +/- 0.22	1.8 +/- 0.41	1.00 +/- 0.34
JP-SC5-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.039 +/- 0.028 J	0.76 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.40

## Total and Isotopic Uranium Results for Soil and Sediment Samples

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238			
JP-SC5-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.037 +/- 0.026	J	0.87 +/- 0.21	1.7 +/- 0.37	1.2 +/- 0.41
JP-SC5-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.016 +/- 0.017	J	0.84 +/- 0.21	1.7 +/- 0.39	0.97 +/- 0.34
JP-SC5-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.035 +/- 0.025	J	0.81 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.37
JP-SC5-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.029 +/- 0.023	J	0.73 +/- 0.18	1.4 +/- 0.33	1.1 +/- 0.38
JP-SC5-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.79 +/- 0.19	0.032 +/- 0.023	J	0.81 +/- 0.20	1.6 +/- 0.36	1.0 +/- 0.36
JP-SC5-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.039 +/- 0.027	J	0.73 +/- 0.18	1.5 +/- 0.34	0.97 +/- 0.34
JP-SC5-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.57 +/- 0.15	0.038 +/- 0.027	J	0.72 +/- 0.18	1.3 +/- 0.30	1.3 +/- 0.46
JP-SC5-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.64 +/- 0.16	0.011 +/- 0.013	J	0.75 +/- 0.19	1.4 +/- 0.32	1.2 +/- 0.42
JP-SC5-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.65 +/- 0.16	0.034 +/- 0.025	J	0.73 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.40
JP-SC5-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.032 +/- 0.025	J	0.74 +/- 0.19	1.5 +/- 0.34	1.0 +/- 0.36
JP-SC5-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.026 +/- 0.021	J	0.66 +/- 0.17	1.4 +/- 0.31	0.97 +/- 0.35
JP-SC5-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.54 +/- 0.14	0.042 +/- 0.028	J	0.59 +/- 0.15	1.2 +/- 0.27	1.1 +/- 0.40
JP-SC5-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.031 +/- 0.024	J	0.74 +/- 0.19	1.6 +/- 0.35	0.95 +/- 0.34
JP-SC5-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.95 +/- 0.23	0.016 +/- 0.017	J	0.85 +/- 0.21	1.8 +/- 0.41	0.90 +/- 0.31
JP-SC5-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.033 +/- 0.025	J	0.60 +/- 0.15	1.3 +/- 0.30	0.85 +/- 0.30
JP-SC5-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.020 +/- 0.019	J	0.70 +/- 0.18	1.4 +/- 0.31	1.1 +/- 0.38
JP-SC5-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.057 +/- 0.034	J	0.73 +/- 0.18	1.5 +/- 0.34	0.98 +/- 0.35
JP-SC5-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.052 +/- 0.033	J	0.90 +/- 0.22	1.7 +/- 0.39	1.2 +/- 0.43
JP-SC5-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.73 +/- 0.19	0.036 +/- 0.027	J	0.86 +/- 0.21	1.6 +/- 0.37	1.2 +/- 0.42
JP-SC5-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.023 +/- 0.022	J	0.81 +/- 0.20	1.6 +/- 0.37	1.0 +/- 0.37
JP-SC5-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.016 +/- 0.017	J	0.83 +/- 0.21	1.6 +/- 0.35	1.2 +/- 0.41
JP-SC5-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.045 +/- 0.030	J	0.77 +/- 0.19	1.6 +/- 0.35	1.1 +/- 0.37
JP-SC5-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.034 +/- 0.025	J	0.78 +/- 0.19	1.5 +/- 0.34	1.2 +/- 0.42
JP-SC5-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.041 +/- 0.028	J	0.84 +/- 0.21	1.7 +/- 0.39	0.99 +/- 0.35
JP-SC5-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.022 +/- 0.019	J	0.81 +/- 0.20	1.6 +/- 0.36	1.0 +/- 0.36
JP-SC5-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.057 +/- 0.034	J	0.82 +/- 0.20	1.5 +/- 0.34	1.3 +/- 0.47
JP-SC5-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.74 +/- 0.18	0.030 +/- 0.023	J	0.88 +/- 0.21	1.7 +/- 0.37	1.2 +/- 0.41
JP-SC5-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.047 +/- 0.031	J	0.76 +/- 0.19	1.6 +/- 0.36	0.98 +/- 0.34
JP-SC5-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.027 +/- 0.022	J	0.76 +/- 0.19	1.5 +/- 0.33	1.1 +/- 0.40
JP-SC5-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.033 +/- 0.026	J	0.79 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.39
JP-SC5-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.030 +/- 0.022	J	1.4 +/- 0.33	2.2 +/- 0.48	1.8 +/- 0.62
JP-SC5-009	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.83 +/- 0.20	0.022 +/- 0.019	J	1.2 +/- 0.28	2.1 +/- 0.45	1.5 +/- 0.49
JP-SC5-009	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.79 +/- 0.14	0.025 +/- 0.014	J	1.3 +/- 0.21	2.1 +/- 0.33	1.6 +/- 0.39
JP-SC5-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.96 +/- 0.23	0.041 +/- 0.027	J	0.98 +/- 0.23	2.0 +/- 0.44	1.0 +/- 0.35
JP-SC5-009	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.89 +/- 0.22	0.044 +/- 0.029	J	0.93 +/- 0.22	1.9 +/- 0.41	1.0 +/- 0.36
JP-SC5-009	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.92 +/- 0.16	0.042 +/- 0.020	J	0.95 +/- 0.16	1.9 +/- 0.30	1.0 +/- 0.25
JP-SC5-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.98 +/- 0.24	0.033 +/- 0.026	J	1.0 +/- 0.25	2.0 +/- 0.45	1.0 +/- 0.36
JP-SC5-009	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.87 +/- 0.21	0.037 +/- 0.027	J	1.0 +/- 0.24	1.9 +/- 0.43	1.2 +/- 0.40
JP-SC5-009	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.92 +/- 0.16	0.035 +/- 0.019	J	1.0 +/- 0.17	2.0 +/- 0.31	1.1 +/- 0.27
JP-SC5-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.87 +/- 0.21	0.046 +/- 0.029	J	0.92 +/- 0.22	1.8 +/- 0.40	1.1 +/- 0.36
JP-SC5-009	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.92 +/- 0.22	0.021 +/- 0.020	J	0.89 +/- 0.22	1.8 +/- 0.41	0.97 +/- 0.33
JP-SC5-009	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.89 +/- 0.15	0.029 +/- 0.016	J	0.90 +/- 0.15	1.8 +/- 0.29	1.0 +/- 0.25
JP-SC5-010	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.75 +/- 0.18	0.046 +/- 0.029	J	0.81 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.37
JP-SC5-010	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.035 +/- 0.026	J	0.92 +/- 0.23	1.9 +/- 0.42	0.99 +/- 0.34
JP-SC5-010	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.023 +/- 0.020	J	0.69 +/- 0.17	1.4 +/- 0.31	1.1 +/- 0.38
JP-SC5-010	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.58 +/- 0.15	0.019 +/- 0.018	J	0.69 +/- 0.17	1.3 +/- 0.29	1.2 +/- 0.43
JP-SC5-011	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.036 +/- 0.026	J	0.92 +/- 0.23	1.6 +/- 0.37	1.4 +/- 0.48
JP-SC5-011	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.042 +/- 0.027	J	0.77 +/- 0.19	1.5 +/- 0.33	1.2 +/- 0.41
JP-SC5-011	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.68 +/- 0.17	0.036 +/- 0.025	J	0.77 +/- 0.19	1.5 +/- 0.33	1.1 +/- 0.39
JP-SC5-011	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.058 +/- 0.033	J	0.92 +/- 0.22	1.8 +/- 0.39	1.1 +/- 0.39
JP-SC5-012	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.95 +/- 0.23	0.070 +/- 0.039	J	0.97 +/- 0.23	2.0 +/- 0.44	1.0 +/- 0.35
JP-SC5-012	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.041 +/- 0.028	J	0.89 +/- 0.22	1.9 +/- 0.41	0.96 +/- 0.33
JP-SC5-012	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.062 +/- 0.036	J	0.82 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.38
JP-SC5-012	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.018 +/- 0.017	J	0.71 +/- 0.18	1.4 +/- 0.33	1.0 +/- 0.35

## Total and Isotopic Uranium Results for Soil and Sediment Samples

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238			
JP-SC5-013	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.038 +/- 0.027	J	0.68 +/- 0.17	1.5 +/- 0.33	0.90 +/- 0.32
JP-SC5-013	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.037 +/- 0.026	J	0.61 +/- 0.16	1.3 +/- 0.29	0.98 +/- 0.36
JP-SC5-013	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.014 +/- 0.016	U	0.67 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.39
JP-SC5-013	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.032 +/- 0.024	J	0.56 +/- 0.15	1.3 +/- 0.29	0.86 +/- 0.31
JP-SC5-014	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.97 +/- 0.23	0.058 +/- 0.035	J	1.0 +/- 0.25	2.1 +/- 0.45	1.1 +/- 0.36
JP-SC5-014	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.98 +/- 0.23	0.040 +/- 0.027	J	1.2 +/- 0.28	2.2 +/- 0.48	1.2 +/- 0.40
JP-SC5-014	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.59 +/- 0.15	0.038 +/- 0.026	J	0.73 +/- 0.18	1.4 +/- 0.31	1.2 +/- 0.44
JP-SC5-014	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.1 +/- 0.25	0.056 +/- 0.033	J	1.3 +/- 0.30	2.4 +/- 0.52	1.2 +/- 0.40
JP-SC5-015	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.017 +/- 0.018	U	0.71 +/- 0.18	1.5 +/- 0.33	0.96 +/- 0.34
JP-SC5-015	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.035 +/- 0.026	J	0.81 +/- 0.20	1.6 +/- 0.37	1.0 +/- 0.36
JP-SC5-015	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.69 +/- 0.17	0.032 +/- 0.024	J	0.70 +/- 0.18	1.4 +/- 0.32	1.0 +/- 0.36
JP-SC5-015	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.030 +/- 0.023	J	0.75 +/- 0.19	1.5 +/- 0.34	1.0 +/- 0.36
JP-SC5-016	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.023 +/- 0.020	J	1.0 +/- 0.24	1.7 +/- 0.39	1.4 +/- 0.48
JP-SC5-016	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.012 +/- 0.016	U	0.80 +/- 0.20	1.6 +/- 0.36	1.00 +/- 0.35
JP-SC5-016	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.69 +/- 0.17	0.033 +/- 0.024	J	0.78 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.40
JP-SC5-016	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.050 +/- 0.032	J	0.99 +/- 0.24	1.8 +/- 0.40	1.3 +/- 0.47
JP-SC5-017	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.038 +/- 0.028	J	0.74 +/- 0.19	1.4 +/- 0.32	1.2 +/- 0.43
JP-SC5-017	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.046 +/- 0.030	J	0.76 +/- 0.19	1.5 +/- 0.33	1.2 +/- 0.41
JP-SC5-017	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.73 +/- 0.19	0.053 +/- 0.033	J	0.78 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.38
JP-SC5-017	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.93 +/- 0.23	0.040 +/- 0.028	J	0.92 +/- 0.23	1.9 +/- 0.42	0.99 +/- 0.34
JP-SC5-018	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.042 +/- 0.030	J	0.76 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.41
JP-SC5-018	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.033 +/- 0.025	J	0.78 +/- 0.20	1.5 +/- 0.34	1.2 +/- 0.42
JP-SC5-018	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.66 +/- 0.17	0.026 +/- 0.021	J	0.71 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.38
JP-SC5-018	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.026 +/- 0.021	J	0.81 +/- 0.20	1.5 +/- 0.35	1.2 +/- 0.41
JP-SC5-019	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.059 +/- 0.034	J	0.64 +/- 0.16	1.4 +/- 0.32	0.87 +/- 0.31
JP-SC5-019	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.034 +/- 0.026	J	0.68 +/- 0.17	1.4 +/- 0.32	1.0 +/- 0.37
JP-SC5-019	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.044 +/- 0.030	J	0.80 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.39
JP-SC5-019	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.046 +/- 0.031	J	1.00 +/- 0.24	1.9 +/- 0.42	1.2 +/- 0.43
JP-SC5-020	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.032 +/- 0.025	J	0.70 +/- 0.18	1.5 +/- 0.35	0.88 +/- 0.31
JP-SC5-020	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.74 +/- 0.19	0.033 +/- 0.026	J	0.74 +/- 0.19	1.5 +/- 0.34	1.00 +/- 0.36
JP-SC5-020	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.60 +/- 0.16	0.039 +/- 0.029	J	0.78 +/- 0.20	1.4 +/- 0.32	1.3 +/- 0.48
JP-SC5-020	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.071 +/- 0.040	J	0.80 +/- 0.20	1.7 +/- 0.39	0.94 +/- 0.33
JP-SC5-021	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.62 +/- 0.16	0.021 +/- 0.020	J	0.70 +/- 0.18	1.3 +/- 0.31	1.1 +/- 0.40
JP-SC5-021	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.026 +/- 0.021	J	0.69 +/- 0.17	1.4 +/- 0.32	0.98 +/- 0.35
JP-SC5-021	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.048 +/- 0.031	J	0.80 +/- 0.20	1.6 +/- 0.35	1.1 +/- 0.40
JP-SC5-021	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.025 +/- 0.022	J	0.78 +/- 0.19	1.6 +/- 0.37	0.93 +/- 0.33
JP-SC5-022	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.89 +/- 0.22	0.041 +/- 0.030	J	0.81 +/- 0.20	1.7 +/- 0.39	0.91 +/- 0.32
JP-SC5-022	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.65 +/- 0.17	0.021 +/- 0.020	J	0.85 +/- 0.21	1.5 +/- 0.35	1.3 +/- 0.48
JP-SC5-022	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.032 +/- 0.024	J	0.69 +/- 0.18	1.4 +/- 0.32	0.98 +/- 0.35
JP-SC5-022	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.041 +/- 0.028	J	0.85 +/- 0.21	1.7 +/- 0.37	1.1 +/- 0.38
JP-SC5-023	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.61 +/- 0.16	0.022 +/- 0.021	J	0.63 +/- 0.16	1.3 +/- 0.29	1.0 +/- 0.37
JP-SC5-023	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.61 +/- 0.16	0.032 +/- 0.024	J	0.67 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.39
JP-SC5-023	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.61 +/- 0.16	0.045 +/- 0.030	J	0.67 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.39
JP-SC5-023	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.61 +/- 0.16	0.038 +/- 0.027	J	0.73 +/- 0.18	1.4 +/- 0.31	1.2 +/- 0.43
JP-SC5-024	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.032 +/- 0.024	J	0.74 +/- 0.19	1.5 +/- 0.34	1.0 +/- 0.37
JP-SC5-024	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.90 +/- 0.22	0.024 +/- 0.021	J	0.75 +/- 0.19	1.7 +/- 0.38	0.83 +/- 0.29
JP-SC5-024	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.027 +/- 0.022	J	0.81 +/- 0.20	1.5 +/- 0.35	1.1 +/- 0.41
JP-SC5-024	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.039 +/- 0.027	J	0.91 +/- 0.22	1.8 +/- 0.40	1.1 +/- 0.37
JP-SC5-025	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.065 +/- 0.037	J	0.85 +/- 0.21	1.7 +/- 0.39	1.0 +/- 0.37
JP-SC5-025	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.037 +/- 0.026	J	0.93 +/- 0.23	1.8 +/- 0.40	1.1 +/- 0.38
JP-SC5-025	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.89 +/- 0.22	0.027 +/- 0.022	J	0.91 +/- 0.22	1.8 +/- 0.41	1.0 +/- 0.36
JP-SC5-025	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.041 +/- 0.028	J	0.88 +/- 0.21	1.8 +/- 0.39	1.0 +/- 0.35
JP-SC5-026	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.041 +/- 0.027	J	0.69 +/- 0.17	1.4 +/- 0.32	1.0 +/- 0.36
JP-SC5-026	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.55 +/- 0.14	0.031 +/- 0.023	J	0.49 +/- 0.13	1.1 +/- 0.25	0.89 +/- 0.32

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238			
JP-SC5-026	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.50 +/- 0.13	0.019 +/- 0.019	U	0.52 +/- 0.14	1.0 +/- 0.24	1.0 +/- 0.38
JP-SC5-027	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.029 +/- 0.022	J	0.86 +/- 0.21	1.7 +/- 0.39	1.0 +/- 0.36
JP-SC5-027	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.80 +/- 0.19	0.028 +/- 0.023	J	0.87 +/- 0.21	1.7 +/- 0.38	1.1 +/- 0.37
JP-SC5-027	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.94 +/- 0.23	0.045 +/- 0.030	J	1.0 +/- 0.25	2.0 +/- 0.44	1.1 +/- 0.37
JP-SC5-027	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.042 +/- 0.029	J	0.78 +/- 0.20	1.7 +/- 0.38	0.92 +/- 0.32
JP-SC5-028	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.64 +/- 0.16	0.034 +/- 0.024	J	0.70 +/- 0.17	1.4 +/- 0.31	1.1 +/- 0.39
JP-SC5-028	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.64 +/- 0.16	0.034 +/- 0.024	J	0.85 +/- 0.20	1.5 +/- 0.34	1.3 +/- 0.46
JP-SC5-028	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.74 +/- 0.18	0.031 +/- 0.024	J	0.76 +/- 0.19	1.5 +/- 0.34	1.0 +/- 0.36
JP-SC5-028	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.72 +/- 0.18	0.042 +/- 0.028	J	0.75 +/- 0.19	1.5 +/- 0.34	1.0 +/- 0.37
JP-SC5-029	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.052 +/- 0.033	J	0.95 +/- 0.23	1.8 +/- 0.40	1.2 +/- 0.43
JP-SC5-029	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.027 +/- 0.022	J	1.7 +/- 0.39	2.6 +/- 0.57	2.0 +/- 0.66
JP-SC5-029	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.057 +/- 0.034	J	0.85 +/- 0.21	1.8 +/- 0.39	0.99 +/- 0.34
JP-SC5-029	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.70 +/- 0.17	0.051 +/- 0.031	J	0.78 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.39
JP-SC5-030	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.67 +/- 0.17	0.014 +/- 0.015	J	0.75 +/- 0.18	1.4 +/- 0.32	1.1 +/- 0.39
JP-SC5-030	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.61 +/- 0.15	0.017 +/- 0.016	J	0.69 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.40
JP-SC5-030	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.63 +/- 0.11	0.015 +/- 0.011	J	0.72 +/- 0.12	1.4 +/- 0.22	1.1 +/- 0.28
JP-SC5-030	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.69 +/- 0.17	0.024 +/- 0.021	J	0.74 +/- 0.18	1.5 +/- 0.33	1.1 +/- 0.38
JP-SC5-030	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.76 +/- 0.19	0.030 +/- 0.023	J	0.81 +/- 0.20	1.6 +/- 0.36	1.1 +/- 0.38
JP-SC5-030	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.72 +/- 0.13	0.027 +/- 0.015	J	0.77 +/- 0.14	1.5 +/- 0.24	1.1 +/- 0.27
JP-SC5-030	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.74 +/- 0.18	0.024 +/- 0.019	J	0.71 +/- 0.18	1.5 +/- 0.33	0.97 +/- 0.34
JP-SC5-030	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.053 +/- 0.032	J	0.81 +/- 0.20	1.6 +/- 0.36	1.0 +/- 0.36
JP-SC5-030	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.75 +/- 0.13	0.032 +/- 0.016	J	0.75 +/- 0.13	1.5 +/- 0.24	1.00 +/- 0.25
JP-SC5-030	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.2 +/- 0.30	0.056 +/- 0.039	J	1.3 +/- 0.31	2.5 +/- 0.56	1.0 +/- 0.36
JP-SC5-030	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.040 +/- 0.027	J	0.88 +/- 0.21	1.7 +/- 0.39	1.1 +/- 0.37
JP-SC5-030	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.94 +/- 0.17	0.045 +/- 0.022	J	1.0 +/- 0.17	2.0 +/- 0.32	1.1 +/- 0.26
JP-SC5-031	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.033 +/- 0.024	J	0.74 +/- 0.18	1.5 +/- 0.34	0.98 +/- 0.34
JP-SC5-031	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.027 +/- 0.022	J	0.70 +/- 0.17	1.4 +/- 0.32	0.98 +/- 0.34
JP-SC5-031	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.73 +/- 0.13	0.030 +/- 0.016	J	0.72 +/- 0.13	1.5 +/- 0.24	0.98 +/- 0.24
JP-SC5-031	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.59 +/- 0.15	0.021 +/- 0.019	J	0.59 +/- 0.15	1.2 +/- 0.28	1.0 +/- 0.37
JP-SC5-031	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.53 +/- 0.14	0.052 +/- 0.032	J	0.59 +/- 0.15	1.2 +/- 0.27	1.1 +/- 0.41
JP-SC5-031	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.56 +/- 0.10	0.029 +/- 0.016	J	0.59 +/- 0.11	1.2 +/- 0.19	1.1 +/- 0.28
JP-SC5-031	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.56 +/- 0.15	0.023 +/- 0.020	J	0.57 +/- 0.15	1.2 +/- 0.27	1.0 +/- 0.37
JP-SC5-031	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.51 +/- 0.13	0.029 +/- 0.022	J	0.58 +/- 0.15	1.1 +/- 0.26	1.1 +/- 0.42
JP-SC5-031	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.53 +/- 0.099	0.026 +/- 0.015	J	0.57 +/- 0.11	1.1 +/- 0.18	1.1 +/- 0.28
JP-SC5-031	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.027 +/- 0.022	J	0.67 +/- 0.17	1.3 +/- 0.30	1.1 +/- 0.38
JP-SC5-031	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.65 +/- 0.16	0.033 +/- 0.024	J	0.62 +/- 0.16	1.3 +/- 0.30	0.96 +/- 0.34
JP-SC5-031	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.64 +/- 0.11	0.030 +/- 0.016	J	0.64 +/- 0.12	1.3 +/- 0.21	1.0 +/- 0.26
JP-SC5-032	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.38 +/- 0.11	0.034 +/- 0.026	J	0.30 +/- 0.091	0.71 +/- 0.18	0.80 +/- 0.33
JP-SC5-032	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.47 +/- 0.13	0.016 +/- 0.017	U	0.43 +/- 0.12	0.92 +/- 0.22	0.91 +/- 0.34
JP-SC5-032	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.60 +/- 0.16	0.033 +/- 0.025	J	0.56 +/- 0.15	1.2 +/- 0.28	0.93 +/- 0.35
JP-SC5-032	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.43 +/- 0.12	0.011 +/- 0.013	J	0.39 +/- 0.11	0.83 +/- 0.20	0.91 +/- 0.36
<b>Category 6 – Trench Locations</b>										
JP-SC6-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.040 +/- 0.028	J	0.88 +/- 0.22	1.7 +/- 0.38	1.1 +/- 0.39
JP-SC6-001	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	2.0	0.13 +/- 0.13	UJ	2.2 +/- 2.4	4.4 +/- 2.4	ND
JP-SC6-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.85 +/- 0.21	0.032 +/- 0.026	J	1.0 +/- 0.25	1.9 +/- 0.43	1.2 +/- 0.41
JP-SC6-001	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	0.89	-8.9E-04 +/- 0.14	UJ	1.1 +/- 0.49	2.0 +/- 0.51	1.2
JP-SC6-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.87 +/- 0.21	0.059 +/- 0.036	J	0.97 +/- 0.23	1.9 +/- 0.42	1.1 +/- 0.38
JP-SC6-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.83 +/- 0.21	0.032 +/- 0.026	J	0.93 +/- 0.23	1.8 +/- 0.40	1.1 +/- 0.39
JP-SC6-001	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.57 +/- 0.15	0.024 +/- 0.021	J	0.73 +/- 0.18	1.3 +/- 0.30	1.3 +/- 0.47
JP-SC6-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.049 +/- 0.032	J	1.2 +/- 0.28	2.0 +/- 0.45	1.6 +/- 0.53
JP-SC6-002	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.83 +/- 0.20	0.050 +/- 0.032	J	1.3 +/- 0.31	2.2 +/- 0.48	1.6 +/- 0.54
JP-SC6-002	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	0.79 +/- 0.14	0.050 +/- 0.023	J	1.2 +/- 0.21	2.1 +/- 0.33	1.6 +/- 0.38
JP-SC6-002	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	0.76	0.019 +/- 0.15	UJ	1.2 +/- 0.59	2.0 +/- 0.61	1.6
JP-SC6-002	SAIC01D	0' to 0.5'	Gamma Spec.	pCi/g	0.93	0.19 +/- 0.15		1.5 +/- 0.37	2.6 +/- 0.40	1.6

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238	Total Uranium	
JP-SC6-002	SAIC01C	0' to 0.5'	Gamma Spec.	pCi/g	0.85	0.11 +/- 0.11	1.4 +/- 0.31	2.4 +/- 0.33	1.7
JP-SC6-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.065 +/- 0.038 J	0.98 +/- 0.24	1.9 +/- 0.43	1.1 +/- 0.39
JP-SC6-002	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.043 +/- 0.029 J	0.91 +/- 0.23	1.8 +/- 0.40	1.1 +/- 0.40
JP-SC6-002	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.83 +/- 0.15	0.051 +/- 0.023 J	0.95 +/- 0.16	1.8 +/- 0.29	1.1 +/- 0.28
JP-SC6-002	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	1.7	-1.0E-02 +/- 0.18 UJ	1.9 +/- 0.64	3.5 +/- 0.66	1.1
JP-SC6-002	SAIC02D	0.5' to 1'	Gamma Spec.	pCi/g	-2.5E-01	0.12 +/- 0.16 UJ	-2.8E-01 +/- 2.8 UJ	-4.1E-01 +/- 2.8	ND
JP-SC6-002	SAIC02C	0.5' to 1'	Gamma Spec.	pCi/g	0.70	0.065 +/- 0.12 UJ	1.8 +/- 0.62 UJ	2.5 +/- 0.63	ND
JP-SC6-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.029 +/- 0.022 J	0.77 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.37
JP-SC6-002	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.034 +/- 0.025 J	0.67 +/- 0.17	1.5 +/- 0.34	0.82 +/- 0.29
JP-SC6-002	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.77 +/- 0.13	0.031 +/- 0.016 J	0.71 +/- 0.13	1.5 +/- 0.24	0.93 +/- 0.23
JP-SC6-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.023 +/- 0.020 J	0.71 +/- 0.18	1.5 +/- 0.34	0.92 +/- 0.33
JP-SC6-002	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.047 +/- 0.030 J	0.86 +/- 0.21	1.8 +/- 0.39	1.00 +/- 0.34
JP-SC6-002	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.81 +/- 0.14	0.030 +/- 0.017 J	0.77 +/- 0.14	1.6 +/- 0.26	0.95 +/- 0.24
JP-SC6-002	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.89 +/- 0.22	0.046 +/- 0.030 J	0.87 +/- 0.21	1.8 +/- 0.41	0.98 +/- 0.34
JP-SC6-002	SAIC05D	4' to 6'	Alpha Spec.	pCi/g	0.89 +/- 0.22	0.058 +/- 0.035 J	0.86 +/- 0.21	1.8 +/- 0.40	0.96 +/- 0.33
JP-SC6-002	SAIC05C	4' to 6'	Alpha Spec.	pCi/g	0.89 +/- 0.15	0.051 +/- 0.023 J	0.86 +/- 0.15	1.8 +/- 0.29	0.97 +/- 0.24
JP-SC6-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	5.8 +/- 1.5	0.60 +/- 0.27	42 +/- 10	48 +/- 11	7.2 +/- 2.6
JP-SC6-003	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	6.1	1.0 +/- 0.32	44 +/- 7.1	51 +/- 7.1	7.1
JP-SC6-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	4.4 +/- 1.1	0.42 +/- 0.19	32 +/- 7.6	37 +/- 8.5	7.4 +/- 2.5
JP-SC6-003	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	5.8	0.58 +/- 0.29	42 +/- 7.8	48 +/- 7.8	7.1
JP-SC6-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	2.6 +/- 0.64	0.23 +/- 0.11	16 +/- 3.6	19 +/- 4.1	6.0 +/- 2.0
JP-SC6-003	SAIC03	1' to 2'	Gamma Spec.	pCi/g	3.6	0.40 +/- 0.34	21 +/- 6.1	25 +/- 6.1	5.9
JP-SC6-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.2 +/- 0.27	0.093 +/- 0.046	4.1 +/- 0.90	5.3 +/- 1.1	3.6 +/- 1.2
JP-SC6-003	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.031 +/- 0.024 J	1.1 +/- 0.25	1.8 +/- 0.40	1.5 +/- 0.53
JP-SC6-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	4.7 +/- 1.2	0.46 +/- 0.21	31 +/- 7.4	36 +/- 8.3	6.7 +/- 2.3
JP-SC6-004	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	3.9	0.41 +/- 0.25 UJ	26 +/- 7.4	30 +/- 7.4	6.6
JP-SC6-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.82 +/- 0.20	0.038 +/- 0.028 J	1.1 +/- 0.27	2.0 +/- 0.44	1.4 +/- 0.48
JP-SC6-004	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	1.6	0.17 +/- 0.15 U	2.2 +/- 0.63	3.9 +/- 0.64	1.4
JP-SC6-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.92 +/- 0.23	0.057 +/- 0.035 J	1.0 +/- 0.25	2.0 +/- 0.45	1.1 +/- 0.38
JP-SC6-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.72 +/- 0.19	0.051 +/- 0.034 J	0.93 +/- 0.23	1.7 +/- 0.39	1.3 +/- 0.46
JP-SC6-004	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.040 +/- 0.028 J	0.84 +/- 0.21	1.6 +/- 0.36	1.2 +/- 0.42
JP-SC6-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.065 +/- 0.037 J	0.74 +/- 0.19	1.5 +/- 0.34	1.0 +/- 0.37
JP-SC6-005	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1.6	0.028 +/- 0.12 UJ	1.7 +/- 2.5 UJ	3.4 +/- 2.5	ND
JP-SC6-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.021 +/- 0.019 J	0.75 +/- 0.19	1.5 +/- 0.35	1.0 +/- 0.36
JP-SC6-005	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	-1.1E-01	0.0090 +/- 0.12 UJ	-1.1E-01 +/- 2.4 UJ	-2.1E-01 +/- 2.4	ND
JP-SC6-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.037 +/- 0.027 J	0.80 +/- 0.20	1.6 +/- 0.37	1.0 +/- 0.35
JP-SC6-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.0 +/- 0.24	0.053 +/- 0.033 J	0.95 +/- 0.23	2.0 +/- 0.45	0.94 +/- 0.32
JP-SC6-005	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.83 +/- 0.20	0.021 +/- 0.020 J	0.84 +/- 0.21	1.7 +/- 0.38	1.0 +/- 0.35
JP-SC6-006	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.61 +/- 0.16	0.033 +/- 0.024 J	0.77 +/- 0.19	1.4 +/- 0.32	1.3 +/- 0.45
JP-SC6-006	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	0.0070	0.11 +/- 0.12 UJ	0.010 +/- 2.4 UJ	0.13 +/- 2.4	ND
JP-SC6-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.80 +/- 0.20	0.067 +/- 0.040 J	0.80 +/- 0.20	1.7 +/- 0.38	1.0 +/- 0.36
JP-SC6-006	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	-1.7E+00	0.073 +/- 0.12 UJ	-1.7E+00 +/- 2.3 R	--	1.0
JP-SC6-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.73 +/- 0.19	0.027 +/- 0.022 J	0.86 +/- 0.21	1.6 +/- 0.37	1.2 +/- 0.41
JP-SC6-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.83 +/- 0.20	0.041 +/- 0.028 J	0.76 +/- 0.19	1.6 +/- 0.36	0.92 +/- 0.32
JP-SC6-006	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.69 +/- 0.18	0.021 +/- 0.020 J	0.72 +/- 0.19	1.4 +/- 0.33	1.0 +/- 0.38
JP-SC6-007	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	8.3 +/- 2.2	0.67 +/- 0.31	60 +/- 15	69 +/- 16	7.1 +/- 2.6
JP-SC6-007	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	17	1.5 +/- 0.42	123 +/- 16	142 +/- 16	7.1
JP-SC6-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	1.8 +/- 0.43	0.16 +/- 0.077	9.9 +/- 2.2	12 +/- 2.6	5.4 +/- 1.8
JP-SC6-007	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	1.7	0.090 +/- 0.18 UJ	9.5 +/- 1.4	11 +/- 1.4	5.6
JP-SC6-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.066 +/- 0.039 J	1.2 +/- 0.30	2.1 +/- 0.46	1.6 +/- 0.55
JP-SC6-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.97 +/- 0.24	0.055 +/- 0.035 J	2.3 +/- 0.52	3.3 +/- 0.72	2.3 +/- 0.79
JP-SC6-007	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.91 +/- 0.23	0.034 +/- 0.026 J	0.96 +/- 0.24	1.9 +/- 0.43	1.1 +/- 0.37
JP-SC6-008	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	5.7 +/- 1.6	0.69 +/- 0.32	64 +/- 16	70 +/- 17	11 +/- 4.1
JP-SC6-008	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	0.92 +/- 0.23	0.042 +/- 0.029 J	0.91 +/- 0.22	1.9 +/- 0.42	0.99 +/- 0.34

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238	Total Uranium	
JP-SC6-008	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	1.0 +/- 0.22	0.047 +/- 0.029 J	0.92 +/- 0.22	1.9 +/- 0.42	0.90 +/- 0.29
JP-SC6-008	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	9.3	1.1 +/- 0.32	103 +/- 13	113 +/- 13	11
JP-SC6-008	SAIC01D	0' to 0.5'	Gamma Spec.	pCi/g	66	0.92 +/- 0.28	66 +/- 9.7 UJ	133 +/- 9.7	ND
JP-SC6-008	SAIC01C	0' to 0.5'	Gamma Spec.	pCi/g	38	1.0 +/- 0.21	79 +/- 7.8 UJ	118 +/- 7.8	ND
JP-SC6-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.90 +/- 0.22	0.030 +/- 0.025 J	1.6 +/- 0.36	2.5 +/- 0.55	1.7 +/- 0.58
JP-SC6-008	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	0.83 +/- 0.21	0.063 +/- 0.037 J	2.0 +/- 0.46	2.9 +/- 0.64	2.4 +/- 0.82
JP-SC6-008	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	0.86 +/- 0.15	0.040 +/- 0.021 J	1.7 +/- 0.28	2.7 +/- 0.41	2.0 +/- 0.48
JP-SC6-008	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	1.3	0.12 +/- 0.13 UJ	2.2 +/- 0.58	3.6 +/- 0.59	1.7
JP-SC6-008	SAIC02D	0.5' to 1'	Gamma Spec.	pCi/g	0.50	0.092 +/- 0.13 UJ	1.2 +/- 0.62	1.8 +/- 0.63	2.4
JP-SC6-008	SAIC02C	0.5' to 1'	Gamma Spec.	pCi/g	0.90	0.10 +/- 0.091 UJ	1.8 +/- 0.42	2.8 +/- 0.43	2.0
JP-SC6-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.018 +/- 0.017 J	0.88 +/- 0.21	1.7 +/- 0.37	1.1 +/- 0.39
JP-SC6-008	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.043 +/- 0.029 J	1.1 +/- 0.27	1.9 +/- 0.43	1.4 +/- 0.50
JP-SC6-008	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.14	0.024 +/- 0.015 J	0.97 +/- 0.17	1.8 +/- 0.28	1.2 +/- 0.30
JP-SC6-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.79 +/- 0.20	0.027 +/- 0.022 J	1.1 +/- 0.26	1.9 +/- 0.43	1.4 +/- 0.48
JP-SC6-008	SAIC04D	2' to 4'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.048 +/- 0.030 J	1.2 +/- 0.27	2.1 +/- 0.45	1.4 +/- 0.46
JP-SC6-008	SAIC04C	2' to 4'	Alpha Spec.	pCi/g	0.82 +/- 0.14	0.034 +/- 0.018 J	1.1 +/- 0.19	2.0 +/- 0.31	1.4 +/- 0.33
JP-SC6-008	SAIC05	4' to 6'	Alpha Spec.	pCi/g	5.1 +/- 1.3	0.44 +/- 0.21	38 +/- 9.2	44 +/- 10	7.5 +/- 2.6
JP-SC6-008	SAIC05D	4' to 6'	Alpha Spec.	pCi/g	0.77 +/- 0.19	0.038 +/- 0.028 J	0.82 +/- 0.20	1.6 +/- 0.37	1.1 +/- 0.38
JP-SC6-008	SAIC05C	4' to 6'	Alpha Spec.	pCi/g	0.86 +/- 0.19	0.045 +/- 0.028 J	0.84 +/- 0.20	1.7 +/- 0.37	0.98 +/- 0.32
JP-SC6-008	SAIC05	4' to 6'	Gamma Spec.	pCi/g	0.45	-8.0E-03 +/- 0.14 UJ	3.4 +/- 2.8 UJ	3.9 +/- 2.8	ND
JP-SC6-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.69 +/- 0.17	0.038 +/- 0.027 J	0.83 +/- 0.20	1.6 +/- 0.35	1.2 +/- 0.42
JP-SC6-009	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1.2	0.075 +/- 0.14	1.5 +/- 2.5 UJ	2.8 +/- 2.5	ND
JP-SC6-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.028 +/- 0.023 J	0.83 +/- 0.21	1.6 +/- 0.35	1.2 +/- 0.42
JP-SC6-009	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	1.3	-3.0E-03 +/- 0.14 UJ	1.5 +/- 0.58	2.8 +/- 0.59	1.2
JP-SC6-009	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.83 +/- 0.21	0.049 +/- 0.032 J	0.81 +/- 0.20	1.7 +/- 0.38	0.97 +/- 0.34
JP-SC6-009	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.86 +/- 0.21	0.041 +/- 0.029 J	0.94 +/- 0.23	1.8 +/- 0.41	1.1 +/- 0.38
JP-SC6-009	SAIC05	4' to 6'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.038 +/- 0.027 J	0.71 +/- 0.18	1.5 +/- 0.34	0.91 +/- 0.32
JP-SC6-010	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.70 +/- 0.18	0.022 +/- 0.019 J	0.81 +/- 0.20	1.5 +/- 0.34	1.1 +/- 0.40
JP-SC6-010	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1.4	-1.7E-02 +/- 0.15 UJ	1.6 +/- 2.7 UJ	3.0 +/- 2.7	ND
JP-SC6-010	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.74 +/- 0.18	0.059 +/- 0.035 J	0.70 +/- 0.18	1.5 +/- 0.34	0.95 +/- 0.34
JP-SC6-010	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	1.2	-1.7E-02 +/- 0.14 UJ	1.2 +/- 2.5 UJ	2.4 +/- 2.5	ND
JP-SC6-010	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.73 +/- 0.18	0.041 +/- 0.029 J	0.66 +/- 0.17	1.4 +/- 0.33	0.90 +/- 0.33
JP-SC6-010	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.78 +/- 0.19	0.021 +/- 0.019 J	0.79 +/- 0.20	1.6 +/- 0.36	1.0 +/- 0.35
JP-SC6-010	SAIC05	4' to 6'	Alpha Spec.	pCi/g	1.0 +/- 0.25	0.044 +/- 0.031 J	0.89 +/- 0.22	1.9 +/- 0.43	0.89 +/- 0.31
JP-SC6-011	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.98 +/- 0.24	0.065 +/- 0.039 J	2.3 +/- 0.53	3.3 +/- 0.73	2.3 +/- 0.79
JP-SC6-011	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	0.55	0.024 +/- 0.17 UJ	1.3 +/- 0.79 J	1.9 +/- 0.81	2.3
JP-SC6-011	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.90 +/- 0.23	0.056 +/- 0.035 J	1.0 +/- 0.25	2.0 +/- 0.44	1.1 +/- 0.39
JP-SC6-011	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	1.0	0.049 +/- 0.14 UJ	1.1 +/- 0.69 J	2.2 +/- 0.71	1.1
JP-SC6-011	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1.0 +/- 0.25	0.060 +/- 0.036 J	1.2 +/- 0.29	2.3 +/- 0.51	1.2 +/- 0.41
JP-SC6-011	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.84 +/- 0.21	0.069 +/- 0.039 J	0.86 +/- 0.21	1.8 +/- 0.40	1.0 +/- 0.36
JP-SC6-011	SAIC05	4' to 6'	Alpha Spec.	pCi/g	1.0 +/- 0.25	0.042 +/- 0.028 J	0.88 +/- 0.22	2.0 +/- 0.44	0.85 +/- 0.29
JP-SC6-012	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.026 +/- 0.023 J	0.72 +/- 0.18	1.5 +/- 0.35	0.93 +/- 0.33
JP-SC6-012	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	0.69	0.098 +/- 0.13 UJ	0.64 +/- 2.4 UJ	1.4 +/- 2.4	ND
JP-SC6-012	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	0.71 +/- 0.18	0.028 +/- 0.023 J	0.75 +/- 0.19	1.5 +/- 0.34	1.1 +/- 0.38
JP-SC6-012	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	-8.2E-01	-6.5E-02 +/- 0.13 UJ	-8.7E-01 +/- 2.7 UJ	-1.8E+00 +/- 2.7	ND
JP-SC6-012	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.78 +/- 0.20	0.010 +/- 0.014 U	0.82 +/- 0.21	1.6 +/- 0.37	1.1 +/- 0.39
JP-SC6-012	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.75 +/- 0.19	0.024 +/- 0.021 J	0.70 +/- 0.18	1.5 +/- 0.33	0.94 +/- 0.33
<b>Soil Under Penetrators - Avonsburg and Cobbsfork</b>									
JP-PNAC-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	6,750 +/- 1,730 J	675 +/- 298 J	66,320 +/- 16,200 J	73,740 +/- 17,500	9.8 +/- 3.5
JP-PNAC-001	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1,360	136 +/- 15	13,600 +/- 1,360	15,096 +/- 1,360	10
JP-PNAC-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	9.4 +/- 3.9 J	1.1 +/- 1.3 J	77 +/- 19 J	87 +/- 21	8.2 +/- 3.9
JP-PNAC-001	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	284	28 +/- 3.3	2,370 +/- 241	2,682 +/- 241	8.3
JP-PNAC-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	5.0 +/- 2.7 J	0.74 +/- 1.1 U	43 +/- 12 J	49 +/- 13	8.6 +/- 5.2
JP-PNAC-001	SAIC03	1' to 2'	Gamma Spec.	pCi/g	30	3.5 +/- 0.68	254 +/- 29	288 +/- 29	8.3



**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Total and Isotopic Uranium Results for Soil and Sediment Samples												DU Presence
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)						U-238/U-234 Ratio Weight Percent U-235	
					U-234		U-235		U-238			Total Uranium
JP-PNAC-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	29 +/- 8.5	J	5.1 +/- 3.1	J	240 +/- 54	J	274 +/- 61	8.3 +/- 3.1
JP-PNAC-001	SAIC04	2' to 4'	Gamma Spec.	pCi/g	1.5		1.9 +/- 0.48		122 +/- 17		125 +/- 17	84
JP-PNAC-001	SAIC05	0' to 4'	ICP-MS	mg/kg	0.0061	U	0.13		65	E	65	ND
JP-PNAC-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	9,020 +/- 2,290	J	983 +/- 404	J	66,950 +/- 16,400	J	76,950 +/- 18,100	7.4 +/- 2.6
JP-PNAC-002	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1,552		124 +/- 14		11,940 +/- 1,200		13,616 +/- 1,200	7.7
JP-PNAC-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	5.1 +/- 2.7	J	0.37 +/- 0.75	J	41 +/- 11	J	46 +/- 12	7.9 +/- 4.7
JP-PNAC-002	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	201		19 +/- 2.3		1,540 +/- 159		1,760 +/- 159	7.7
JP-PNAC-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	2.1 +/- 1.7	J	0 +/- 0.14	U	14 +/- 5.1	J	16 +/- 5.6	6.7 +/- 5.8
JP-PNAC-002	SAIC03	1' to 2'	Gamma Spec.	pCi/g	11		1.3 +/- 0.38		70 +/- 12		82 +/- 12	6.7
JP-PNAC-002	SAIC04	2' to 4'	Alpha Spec.	pCi/g	108 +/- 26	J	13 +/- 6.1		866 +/- 189	J	987 +/- 212	8.0 +/- 2.6
JP-PNAC-002	SAIC04	2' to 4'	Gamma Spec.	pCi/g	5.7		0.35 +/- 0.28	J	47 +/- 8.2		53 +/- 8.2	8.3
JP-PNAC-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	5,020 +/- 1,230	J	394 +/- 178		39,330 +/- 9,190	J	44,750 +/- 10,100	7.8 +/- 2.7
JP-PNAC-003	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1,786		136 +/- 15		13,740 +/- 1,380		15,662 +/- 1,380	7.7
JP-PNAC-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	18 +/- 4.3		2.1 +/- 0.95		130 +/- 29		150 +/- 33	7.4 +/- 2.4
JP-PNAC-003	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	306		31 +/- 3.6		2,350 +/- 239		2,687 +/- 239	7.7
JP-PNAC-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1.2 +/- 0.45		0.036 +/- 0.073	U	8.3 +/- 2.0		9.5 +/- 2.3	6.9 +/- 3.2
JP-PNAC-003	SAIC03	1' to 2'	Gamma Spec.	pCi/g	30		2.8 +/- 0.58		195 +/- 24		228 +/- 24	6.4
JP-PNAC-003	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.46 +/- 0.26	J	0.075 +/- 0.11	U	3.3 +/- 0.95		3.8 +/- 1.1	7.2 +/- 4.5
JP-PNAC-003	SAIC04	2' to 4'	Gamma Spec.	pCi/g	4.7		0.48 +/- 0.33	J	34 +/- 9.1		39 +/- 9.1	7.1
JP-PNAC-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	53 +/- 28	J	0 +/- 0.14	U	422 +/- 115	J	476 +/- 127	8.0 +/- 4.7
JP-PNAC-004	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1,007		91 +/- 9.4		7,700 +/- 775		8,798 +/- 775	7.6
JP-PNAC-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	30 +/- 7.8	J	2.6 +/- 1.4	J	272 +/- 65	J	305 +/- 71	9.1 +/- 3.2
JP-PNAC-004	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	131		14 +/- 1.8		1,190 +/- 123		1,335 +/- 123	9.1
JP-PNAC-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	487 +/- 133	J	59 +/- 37	J	4,150 +/- 927	J	4,700 +/- 1,030	8.5 +/- 3.0
JP-PNAC-004	SAIC03	1' to 2'	Gamma Spec.	pCi/g	8.6		0.91 +/- 0.15		71 +/- 7.8		81 +/- 7.8	8.3
JP-PNAC-004	SAIC04	2' to 4'	Alpha Spec.	pCi/g	2.7 +/- 0.83	J	0.20 +/- 0.19	J	22 +/- 5.0	J	25 +/- 5.5	8.1 +/- 3.1
JP-PNAC-004	SAIC04	2' to 4'	Gamma Spec.	pCi/g	6.7		0.91 +/- 0.38		56 +/- 9.8		63 +/- 9.8	8.3
JP-PNAC-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	20 +/- 5.2		2.5 +/- 1.2		177 +/- 41		199 +/- 45	8.9 +/- 3.1
JP-PNAC-005	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	410		47 +/- 5.0		3,720 +/- 377		4,176 +/- 377	9.1
JP-PNAC-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	8.5 +/- 2.2		0.78 +/- 0.46	J	66 +/- 15		75 +/- 16	7.7 +/- 2.6
JP-PNAC-005	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	230		22 +/- 2.7		1,770 +/- 183		2,022 +/- 183	7.7
JP-PNAC-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	2.7 +/- 0.81		0.30 +/- 0.23	J	23 +/- 5.2		26 +/- 5.8	8.6 +/- 3.3
JP-PNAC-005	SAIC03	1' to 2'	Gamma Spec.	pCi/g	15		1.4 +/- 0.49		125 +/- 18		141 +/- 18	8.3
JP-PNAC-005	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.45 +/- 0.26	J	0.079 +/- 0.12	U	3.3 +/- 0.95		3.8 +/- 1.1	7.3 +/- 4.7
JP-PNAC-005	SAIC04	2' to 4'	Gamma Spec.	pCi/g	6.3		0.80 +/- 0.28		45 +/- 9.3		52 +/- 9.3	7.1
JP-PNAC-006	SAIC01	0.15' to 0.5'	Alpha Spec.	pCi/g	10,720 +/- 2,850	J	1,100 +/- 472	J	91,590 +/- 23,400	J	103,410 +/- 25,400	8.5 +/- 3.2
JP-PNAC-006	SAIC01	0.15' to 0.5'	Gamma Spec.	pCi/g	3,904		198 +/- 21		25,820 +/- 2,580		29,922 +/- 2,580	6.6
JP-PNAC-006	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	19 +/- 6.2	J	2.2 +/- 2.0	J	148 +/- 35	J	169 +/- 39	7.9 +/- 3.2
JP-PNAC-006	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	340		31 +/- 3.5		2,610 +/- 266		2,980 +/- 266	7.7
JP-PNAC-006	SAIC03	1' to 2'	Alpha Spec.	pCi/g	6.7 +/- 3.2	J	1.5 +/- 1.5	J	43 +/- 12	J	52 +/- 13	6.5 +/- 3.5
JP-PNAC-006	SAIC03	1' to 2'	Gamma Spec.	pCi/g	31		2.4 +/- 0.56		207 +/- 25		240 +/- 25	6.7
JP-PNAC-006	SAIC04	2' to 4'	Alpha Spec.	pCi/g	15 +/- 5.4	J	1.1 +/- 1.3	J	113 +/- 27	J	130 +/- 30	7.4 +/- 3.2
JP-PNAC-006	SAIC04	2' to 4'	Gamma Spec.	pCi/g	8.5		0.88 +/- 0.36		65 +/- 11		75 +/- 11	7.7
JP-PNAC-006	SAIC05	0' to 0.15'	Alpha Spec.	pCi/g	13,810 +/- 3,620	J	1,430 +/- 586	J	110,200 +/- 28,100	J	125,440 +/- 30,600	8.0 +/- 2.9
JP-PNAC-006	SAIC05	0' to 0.15'	Gamma Spec.	pCi/g	3,619		221 +/- 23		27,840 +/- 2,790		31,680 +/- 2,790	7.7
JP-PNAC-007	SAIC01	0.35' to 0.5'	Alpha Spec.	pCi/g	15,920 +/- 5,540	J	1,550 +/- 852	J	138,500 +/- 46,200	J	155,970 +/- 48,600	8.7 +/- 4.2
JP-PNAC-007	SAIC01	0.35' to 0.5'	Gamma Spec.	pCi/g	1,189		107 +/- 12		10,810 +/- 1,090		12,106 +/- 1,090	9.1
JP-PNAC-007	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	238 +/- 73	J	33 +/- 24	J	1,920 +/- 436	J	2,190 +/- 487	8.1 +/- 3.1
JP-PNAC-007	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	48		6.5 +/- 1.2		553 +/- 62		607 +/- 62	12
JP-PNAC-007	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1,070 +/- 266	J	112 +/- 58	J	8,430 +/- 1,860	J	9,620 +/- 2,080	7.9 +/- 2.6
JP-PNAC-007	SAIC03	1' to 2'	Gamma Spec.	pCi/g	18		1.7 +/- 0.48		139 +/- 17		159 +/- 17	7.6
JP-PNAC-007	SAIC04	2' to 4'	Alpha Spec.	pCi/g	17 +/- 4.5	J	2.3 +/- 1.2	J	168 +/- 39	J	188 +/- 43	9.7 +/- 3.4
JP-PNAC-007	SAIC04	2' to 4'	Gamma Spec.	pCi/g	11		1.7 +/- 0.53		114 +/- 18		127 +/- 18	10.0
JP-PNAC-007	SAIC05	0' to 0.35'	Alpha Spec.	pCi/g	21,490 +/- 7,250	J	2,020 +/- 1,030	J	173,500 +/- 56,800	J	197,000 +/- 60,100	8.1 +/- 3.8

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238	Total Uranium	
JP-PNAC-007	SAIC05	0' to 0.35'	Gamma Spec.	pCi/g	3,236	247 +/- 25	25,850 +/- 2,580	29,333 +/- 2,580	8.0
JP-PNAC-008	SAIC01	0.25' to 0.5'	Alpha Spec.	pCi/g	2,840 +/- 715	356 +/- 161	22,080 +/- 5,130	25,280 +/- 5,710	7.8 +/- 2.7
JP-PNAC-008	SAIC01	0.25' to 0.5'	Gamma Spec.	pCi/g	2,466	162 +/- 17	18,970 +/- 1,890	21,598 +/- 1,890	7.7
JP-PNAC-008	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	53 +/- 14	5.2 +/- 2.5	404 +/- 100	463 +/- 110	7.6 +/- 2.7
JP-PNAC-008	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	387	36 +/- 4.1	2,960 +/- 301	3,382 +/- 301	7.7
JP-PNAC-008	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.26 +/- 0.19	0 +/- 0.14	1.4 +/- 0.52	1.6 +/- 0.57	5.3 +/- 4.4
JP-PNAC-008	SAIC03	1' to 2'	Gamma Spec.	pCi/g	496	32 +/- 3.5	2,610 +/- 264	3,137 +/- 264	5.3
JP-PNAC-008	SAIC04	2' to 4'	Alpha Spec.	pCi/g	0.32 +/- 0.21	0 +/- 0.14	2.7 +/- 0.82	3.1 +/- 0.88	8.7 +/- 6.3
JP-PNAC-008	SAIC04	2' to 4'	Gamma Spec.	pCi/g	2.4	0.35 +/- 0.24	21 +/- 7.3	24 +/- 7.3	9.1
JP-PNAC-008	SAIC05	0' to 0.25'	Alpha Spec.	pCi/g	4,400 +/- 1,130	373 +/- 183	34,130 +/- 8,190	38,900 +/- 9,040	7.8 +/- 2.7
JP-PNAC-008	SAIC05	0' to 0.25'	Gamma Spec.	pCi/g	4,651	262 +/- 28	35,780 +/- 3,580	40,693 +/- 3,580	7.7
JP-PNAC-009	SAIC01	0.5' to 1'	Alpha Spec.	pCi/g	83,940 +/- 34,100	7,090 +/- 3,640	629,400 +/- 253,000	720,430 +/- 264,000	7.5 +/- 4.3
JP-PNAC-009	SAIC01	0.5' to 1'	Gamma Spec.	pCi/g	1,240	80 +/- 8.5	8,830 +/- 885	10,149 +/- 885	7.1
JP-PNAC-009	SAIC02	1' to 1.5'	Alpha Spec.	pCi/g	19 +/- 6.5	2.0 +/- 1.9	159 +/- 37	180 +/- 41	8.2 +/- 3.4
JP-PNAC-009	SAIC02	1' to 1.5'	Gamma Spec.	pCi/g	51	5.2 +/- 0.88	424 +/- 47	480 +/- 47	8.3
JP-PNAC-009	SAIC03	1.5' to 2.5'	Alpha Spec.	pCi/g	26 +/- 7.9	1.5 +/- 1.6	176 +/- 40	204 +/- 46	6.8 +/- 2.6
JP-PNAC-009	SAIC03	1.5' to 2.5'	Gamma Spec.	pCi/g	19	1.3 +/- 0.47	126 +/- 18	146 +/- 18	6.7
JP-PNAC-009	SAIC04	2.5' to 4.5'	Alpha Spec.	pCi/g	116 +/- 28	13 +/- 6.3	1,070 +/- 235	1,200 +/- 258	9.2 +/- 3.0
JP-PNAC-009	SAIC04	2.5' to 4.5'	Gamma Spec.	pCi/g	53	4.3 +/- 0.51	479 +/- 48	537 +/- 48	9.0
JP-PNAC-009	SAIC05	0' to 0.3'	Alpha Spec.	pCi/g	12,990 +/- 3,080	1,390 +/- 507	104,500 +/- 24,200	118,880 +/- 26,800	8.0 +/- 2.7
JP-PNAC-009	SAIC05	0' to 0.3'	Gamma Spec.	pCi/g	2,298	169 +/- 18	19,150 +/- 1,910	21,617 +/- 1,910	8.3
JP-PNAC-010	SAIC01	0.15' to 0.5'	Alpha Spec.	pCi/g	5,990 +/- 1,660	710 +/- 337	50,530 +/- 13,100	57,230 +/- 14,200	8.4 +/- 3.2
JP-PNAC-010	SAIC01	0.15' to 0.5'	Gamma Spec.	pCi/g	1,864	126 +/- 14	15,450 +/- 1,550	17,440 +/- 1,550	8.3
JP-PNAC-010	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	6.9 +/- 1.7	0.69 +/- 0.39	58 +/- 13	66 +/- 14	8.4 +/- 2.8
JP-PNAC-010	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	59	6.5 +/- 1.1	490 +/- 53	555 +/- 53	8.3
JP-PNAC-010	SAIC03	1' to 2'	Alpha Spec.	pCi/g	117 +/- 46	11 +/- 14	839 +/- 206	967 +/- 231	7.2 +/- 3.3
JP-PNAC-010	SAIC03	1' to 2'	Gamma Spec.	pCi/g	247	21 +/- 2.5	1,760 +/- 180	2,027 +/- 180	7.1
JP-PNAC-010	SAIC04	2' to 4'	Alpha Spec.	pCi/g	4.2 +/- 1.1	0.36 +/- 0.25	35 +/- 7.8	40 +/- 8.7	8.4 +/- 3.0
JP-PNAC-010	SAIC04	2' to 4'	Gamma Spec.	pCi/g	21	2.1 +/- 0.44	171 +/- 21	194 +/- 21	8.3
JP-PNAC-010	SAIC05	0' to 0.15'	Alpha Spec.	pCi/g	11,690 +/- 3,560	1,230 +/- 608	105,600 +/- 30,600	118,520 +/- 32,600	9.0 +/- 3.8
JP-PNAC-010	SAIC05	0' to 0.15'	Gamma Spec.	pCi/g	1,125	170 +/- 18	14,710 +/- 1,480	16,005 +/- 1,480	13
<b>Soil Under Penetrators – Cincinnati and Rossmoyne</b>									
JP-PNCR-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	16,640 +/- 4,880	1,340 +/- 634	134,600 +/- 38,300	152,580 +/- 41,000	8.1 +/- 3.3
JP-PNCR-001	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	2,897	216 +/- 22	24,140 +/- 2,410	27,253 +/- 2,410	8.3
JP-PNCR-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	1,910 +/- 465	201 +/- 94	15,030 +/- 3,370	17,140 +/- 3,760	7.9 +/- 2.6
JP-PNCR-001	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	402	28 +/- 3.4	3,060 +/- 310	3,490 +/- 310	7.6
JP-PNCR-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	4.7 +/- 1.3	0.55 +/- 0.33	39 +/- 8.6	44 +/- 9.6	8.3 +/- 2.9
JP-PNCR-001	SAIC03	1' to 2'	Gamma Spec.	pCi/g	89	9.9 +/- 1.4	738 +/- 78	836 +/- 78	8.3
JP-PNCR-001	SAIC04	2' to 4'	Alpha Spec.	pCi/g	1.4 +/- 0.52	0.083 +/- 0.12	9.7 +/- 2.4	11 +/- 2.7	7.1 +/- 3.2
JP-PNCR-001	SAIC04	2' to 4'	Gamma Spec.	pCi/g	82	6.6 +/- 1.1	582 +/- 63	670 +/- 63	7.1
JP-PNCR-001	SAIC05	0' to 4'	ICP-MS	mg/kg	0.020	5.6	2,950	2,960	0.19
JP-PNCR-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	1,020 +/- 251	120 +/- 60	8,350 +/- 1,830	9,480 +/- 2,060	8.2 +/- 2.7
JP-PNCR-002	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	675	64 +/- 6.9	5,630 +/- 566	6,370 +/- 566	8.3
JP-PNCR-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	13 +/- 3.1	0.96 +/- 0.52	100 +/- 22	113 +/- 25	8.0 +/- 2.6
JP-PNCR-002	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	317	28 +/- 3.3	2,440 +/- 248	2,785 +/- 248	7.7
JP-PNCR-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.37 +/- 0.23	0 +/- 0.14	3.2 +/- 0.92	3.5 +/- 1.0	8.5 +/- 5.8
JP-PNCR-002	SAIC03	1' to 2'	Gamma Spec.	pCi/g	9.0	1.1 +/- 0.39	75 +/- 12	85 +/- 12	8.3
JP-PNCR-002	SAIC04	2' to 2.5'	Alpha Spec.	pCi/g	0.68 +/- 0.32	0 +/- 0.14	4.4 +/- 1.2	5.1 +/- 1.3	6.5 +/- 3.6
JP-PNCR-002	SAIC04	2' to 2.5'	Gamma Spec.	pCi/g	20	1.6 +/- 0.51	132 +/- 18	153 +/- 18	6.7
JP-PNCR-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	1,020 +/- 253	138 +/- 66	8,230 +/- 1,810	9,390 +/- 2,040	8.1 +/- 2.7
JP-PNCR-003	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	817	70 +/- 7.4	6,810 +/- 684	7,697 +/- 684	8.3
JP-PNCR-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	14 +/- 3.6	1.2 +/- 0.63	110 +/- 25	126 +/- 28	7.6 +/- 2.5
JP-PNCR-003	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	220	21 +/- 2.5	1,690 +/- 175	1,931 +/- 175	7.7
JP-PNCR-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1.4 +/- 0.52	0.040 +/- 0.082	6.9 +/- 1.8	8.4 +/- 2.1	5.0 +/- 2.3

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238	Total Uranium	
JP-PNCR-003	SAIC03	1' to 2'	Gamma Spec.	pCi/g	30	1.8 +/- 0.52	151 +/- 20	183 +/- 20	5.0
JP-PNCR-004	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	11,400 +/- 3,270 J	1,200 +/- 556 J	89,900 +/- 24,700 J	102,500 +/- 26,700	7.9 +/- 3.1
JP-PNCR-004	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1,264	127 +/- 13	12,250 +/- 1,230	13,641 +/- 1,230	9.7
JP-PNCR-004	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	769 +/- 195 J	65 +/- 39 J	5,200 +/- 1,140 J	6,030 +/- 1,310	6.8 +/- 2.3
JP-PNCR-004	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	193	40 +/- 4.5	3,870 +/- 391	4,103 +/- 391	20
JP-PNCR-004	SAIC03	1' to 2'	Alpha Spec.	pCi/g	2.0 +/- 0.66 J	0.23 +/- 0.20 J	15 +/- 3.6 J	18 +/- 4.0	7.7 +/- 3.1
JP-PNCR-004	SAIC03	1' to 2'	Gamma Spec.	pCi/g	88	8.5 +/- 1.2	671 +/- 71	767 +/- 71	7.6
JP-PNCR-005	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	919 +/- 231	77 +/- 44 J	6,760 +/- 1,500	7,760 +/- 1,680	7.4 +/- 2.5
JP-PNCR-005	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	702	58 +/- 6.3	5,020 +/- 506	5,780 +/- 506	7.1
JP-PNCR-005	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	2.9 +/- 0.86	0.37 +/- 0.26 J	22 +/- 5.1	26 +/- 5.7	7.7 +/- 2.9
JP-PNCR-005	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	67	5.8 +/- 0.99	514 +/- 56	587 +/- 56	7.7
JP-PNCR-005	SAIC03	1' to 2'	Alpha Spec.	pCi/g	0.68 +/- 0.33	0.033 +/- 0.081 U	3.7 +/- 1.1	4.4 +/- 1.2	5.4 +/- 3.1
JP-PNCR-005	SAIC03	1' to 2'	Gamma Spec.	pCi/g	19	1.7 +/- 0.54	107 +/- 20	128 +/- 20	5.5
JP-PNCR-006	SAIC01	0' to 0.125'	Alpha Spec.	pCi/g	347 +/- 99	27 +/- 22 J	2,710 +/- 611	3,080 +/- 682	7.8 +/- 2.8
JP-PNCR-006	SAIC01D	0' to 0.125'	Alpha Spec.	pCi/g	1,400 +/- 339	136 +/- 67	11,140 +/- 2,460	12,680 +/- 2,750	8.0 +/- 2.6
JP-PNCR-006	SAIC01C	0' to 0.125'	Alpha Spec.	pCi/g	430 +/- 95	37 +/- 21	3,200 +/- 593	3,636 +/- 662	7.4 +/- 2.1
JP-PNCR-006	SAIC01	0' to 0.125'	Gamma Spec.	pCi/g	464	41 +/- 4.6	3,570 +/- 362	4,075 +/- 362	7.7
JP-PNCR-006	SAIC01D	0' to 0.125'	Gamma Spec.	pCi/g	1,024	82 +/- 8.8	7,880 +/- 791	8,986 +/- 791	7.7
JP-PNCR-006	SAIC01C	0' to 0.125'	Gamma Spec.	pCi/g	744	49 +/- 4.1	4,316 +/- 329	5,110 +/- 329	5.8
JP-PNCR-006	SAIC02	0.125' to 0.625'	Alpha Spec.	pCi/g	1,710 +/- 422	240 +/- 106	14,310 +/- 3,220	16,260 +/- 3,580	8.4 +/- 2.8
JP-PNCR-006	SAIC02D	0.125' to 0.625'	Alpha Spec.	pCi/g	1,580 +/- 385	168 +/- 81	12,760 +/- 2,830	14,500 +/- 3,160	8.1 +/- 2.7
JP-PNCR-006	SAIC02C	0.125' to 0.625'	Alpha Spec.	pCi/g	1,639 +/- 284	194 +/- 64	13,435 +/- 2,126	15,271 +/- 2,369	8.2 +/- 1.9
JP-PNCR-006	SAIC02	0.125' to 0.625'	Gamma Spec.	pCi/g	867	75 +/- 7.8	7,230 +/- 725	8,172 +/- 725	8.3
JP-PNCR-006	SAIC02D	0.125' to 0.625'	Gamma Spec.	pCi/g	839	73 +/- 7.6	6,990 +/- 702	7,902 +/- 702	8.3
JP-PNCR-006	SAIC02C	0.125' to 0.625'	Gamma Spec.	pCi/g	853	74 +/- 5.4	7,106 +/- 504	8,033 +/- 504	8.3
JP-PNCR-006	SAIC03	0.625' to 1.125'	Alpha Spec.	pCi/g	12 +/- 3.0	1.1 +/- 0.57	90 +/- 20	104 +/- 22	7.3 +/- 2.4
JP-PNCR-006	SAIC03D	0.625' to 1.125'	Alpha Spec.	pCi/g	8.2 +/- 2.0	0.82 +/- 0.45 J	68 +/- 15	76 +/- 16	8.3 +/- 2.7
JP-PNCR-006	SAIC03C	0.625' to 1.125'	Alpha Spec.	pCi/g	9.5 +/- 1.7	0.94 +/- 0.35 J	76 +/- 12	86 +/- 13	7.9 +/- 1.9
JP-PNCR-006	SAIC03	0.625' to 1.125'	Gamma Spec.	pCi/g	224	19 +/- 2.3	1,600 +/- 163	1,843 +/- 163	7.1
JP-PNCR-006	SAIC03D	0.625' to 1.125'	Gamma Spec.	pCi/g	161	16 +/- 2.0	1,340 +/- 138	1,517 +/- 138	8.3
JP-PNCR-006	SAIC03C	0.625' to 1.125'	Gamma Spec.	pCi/g	192	17 +/- 1.5	1,449 +/- 105	1,658 +/- 105	7.5
JP-PNCR-006	SAIC04	1.125' to 2.125'	Alpha Spec.	pCi/g	2.5 +/- 0.75	0.28 +/- 0.22 J	19 +/- 4.2	21 +/- 4.7	7.6 +/- 2.9
JP-PNCR-006	SAIC04D	1.125' to 2.125'	Alpha Spec.	pCi/g	57 +/- 29 J	3.6 +/- 7.2 U	518 +/- 135 J	578 +/- 147	9.0 +/- 5.1
JP-PNCR-006	SAIC04C	1.125' to 2.125'	Alpha Spec.	pCi/g	2.5 +/- 0.75 J	0.29 +/- 0.22 U	19 +/- 4.2 J	22 +/- 4.7	7.6 +/- 2.8
JP-PNCR-006	SAIC04	1.125' to 2.125'	Gamma Spec.	pCi/g	79	8.0 +/- 1.3	606 +/- 65	693 +/- 65	7.7
JP-PNCR-006	SAIC04D	1.125' to 2.125'	Gamma Spec.	pCi/g	86	8.3 +/- 1.3	784 +/- 83	879 +/- 83	9.1
JP-PNCR-006	SAIC04C	1.125' to 2.125'	Gamma Spec.	pCi/g	83	8.2 +/- 0.88	675 +/- 51	765 +/- 51	8.2
JP-PNCR-006	SAIC05	2.125' to 4.125'	Alpha Spec.	pCi/g	2.5 +/- 0.77	0.073 +/- 0.11 U	19 +/- 4.4	22 +/- 4.9	7.6 +/- 2.9
JP-PNCR-006	SAIC05D	2.125' to 4.125'	Alpha Spec.	pCi/g	11 +/- 2.7 J	0.88 +/- 0.52 J	73 +/- 16 J	84 +/- 19	6.9 +/- 2.3
JP-PNCR-006	SAIC05C	2.125' to 4.125'	Alpha Spec.	pCi/g	3.1 +/- 0.74 J	0.11 +/- 0.10 J	23 +/- 4.2 J	26 +/- 4.7	7.3 +/- 2.2
JP-PNCR-006	SAIC05	2.125' to 4.125'	Gamma Spec.	pCi/g	67	5.9 +/- 0.98	515 +/- 55	588 +/- 55	7.7
JP-PNCR-006	SAIC05D	2.125' to 4.125'	Gamma Spec.	pCi/g	65	5.3 +/- 0.91	433 +/- 48	503 +/- 48	6.7
JP-PNCR-006	SAIC05C	2.125' to 4.125'	Gamma Spec.	pCi/g	66	5.5 +/- 0.66	468 +/- 36	539 +/- 36	7.1
JP-PNCR-007	SAIC01	0' to 0.25'	Alpha Spec.	pCi/g	4.5 +/- 1.2	0.43 +/- 0.29 J	34 +/- 7.5	39 +/- 8.4	7.5 +/- 2.6
JP-PNCR-007	SAIC01	0' to 0.25'	Gamma Spec.	pCi/g	88	9.1 +/- 1.3	676 +/- 72	773 +/- 72	7.7
JP-PNCR-007	SAIC02	0.25' to 0.75'	Alpha Spec.	pCi/g	809 +/- 204	77 +/- 44 J	6,120 +/- 1,350	7,000 +/- 1,520	7.6 +/- 2.5
JP-PNCR-007	SAIC02	0.25' to 0.75'	Gamma Spec.	pCi/g	848	70 +/- 7.2	6,490 +/- 652	7,408 +/- 652	7.7
JP-PNCR-007	SAIC03	0.75' to 1.0'	Alpha Spec.	pCi/g	1.7 +/- 0.58	0.22 +/- 0.19 J	17 +/- 3.8	19 +/- 4.2	9.9 +/- 4.1
JP-PNCR-007	SAIC03	0.75' to 1.0'	Gamma Spec.	pCi/g	44	5.2 +/- 0.80	439 +/- 48	488 +/- 48	10.0
JP-PNCR-008	SAIC01	0' to 0.25'	Alpha Spec.	pCi/g	2,490 +/- 629	240 +/- 120	19,990 +/- 4,630	22,720 +/- 5,120	8.0 +/- 2.8
JP-PNCR-008	SAIC01	0' to 0.25'	Gamma Spec.	pCi/g	1,307	118 +/- 12	10,890 +/- 1,090	12,315 +/- 1,090	8.3
JP-PNCR-008	SAIC02	0.25' to 0.75'	Alpha Spec.	pCi/g	598 +/- 156	58 +/- 35 J	4,230 +/- 941	4,890 +/- 1,060	7.1 +/- 2.4
JP-PNCR-008	SAIC02	0.25' to 0.75'	Gamma Spec.	pCi/g	620	50 +/- 5.4	4,420 +/- 446	5,089 +/- 446	7.1
JP-PNCR-008	SAIC03	0.75' to 1.25'	Alpha Spec.	pCi/g	4.3 +/- 1.2	0.53 +/- 0.33 J	35 +/- 7.8	40 +/- 8.7	8.1 +/- 2.9

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Total and Isotopic Uranium Results for Soil and Sediment Samples											
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence		
					U-234	U-235	U-238	Total Uranium	U-238/U-234 Ratio	Weight Percent U-235	
JP-PNCR-008	SAIC03	0.75' to 1.25'	Gamma Spec.	pCi/g	56	5.9 +/- 1.0	466 +/- 52	528 +/- 52		8.3	
JP-PNCR-008	SAIC04	1.25' to 2.25'	Alpha Spec.	pCi/g	0.59 +/- 0.29	0.069 +/- 0.10	4.3 +/- 1.1	4.9 +/- 1.3		7.2 +/- 4.0	
JP-PNCR-008	SAIC04	1.25' to 2.25'	Gamma Spec.	pCi/g	16	1.4 +/- 0.42	116 +/- 16	134 +/- 16		7.2	
JP-PNCR-009	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	838 +/- 211	58 +/- 36	5,880 +/- 1,310	6,780 +/- 1,480		7.0 +/- 2.4	
JP-PNCR-009	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	908	74 +/- 7.9	6,490 +/- 652	7,472 +/- 652		7.1	
JP-PNCR-009	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	6.7 +/- 1.7	0.71 +/- 0.40	61 +/- 14	69 +/- 15		9.2 +/- 3.1	
JP-PNCR-009	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	238	26 +/- 3.2	2,170 +/- 223	2,435 +/- 223		9.1	
JP-PNCR-009	SAIC03	1' to 1.25'	Alpha Spec.	pCi/g	7.5 +/- 1.9	0.99 +/- 0.50	55 +/- 12	63 +/- 14		7.3 +/- 2.4	
JP-PNCR-009	SAIC03	1' to 1.25'	Gamma Spec.	pCi/g	174	16 +/- 2.2	1,240 +/- 130	1,430 +/- 130		7.1	
JP-PNCR-010	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	1,760 +/- 436	198 +/- 95	14,540 +/- 3,270	16,500 +/- 3,630		8.3 +/- 2.8	
JP-PNCR-010	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	1,463	120 +/- 13	12,190 +/- 1,220	13,773 +/- 1,220		8.3	
JP-PNCR-010	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	5.5 +/- 1.4	0.47 +/- 0.31	41 +/- 9.1	47 +/- 10		7.4 +/- 2.6	
JP-PNCR-010	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	54	4.9 +/- 0.84	417 +/- 46	476 +/- 46		7.7	
JP-PNCR-010	SAIC03	1' to 2'	Alpha Spec.	pCi/g	2.0 +/- 0.65	0.18 +/- 0.17	15 +/- 3.4	17 +/- 3.8		7.3 +/- 2.9	
JP-PNCR-010	SAIC03	1' to 2'	Gamma Spec.	pCi/g	85	8.3 +/- 1.3	605 +/- 66	698 +/- 66		7.1	
JP-PNCR-010	SAIC04	2' to 2.8'	Alpha Spec.	pCi/g	4.9 +/- 1.3	0.29 +/- 0.23	36 +/- 8.0	41 +/- 9.0		7.4 +/- 2.6	
JP-PNCR-010	SAIC04	2' to 2.8'	Gamma Spec.	pCi/g	73	7.2 +/- 1.2	561 +/- 61	641 +/- 61		7.7	
Soil Under Penetrators – Grayford and Ryker											
JP-PNGR-001	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	7,820 +/- 2,020	J	586 +/- 271	57,570 +/- 14,200	J	65,980 +/- 15,600	7.4 +/- 2.6
JP-PNGR-001	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	508		41 +/- 4.9	3,630 +/- 370		4,179 +/- 370	7.1
JP-PNGR-001	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	8.7 +/- 2.2		0.77 +/- 0.42	61 +/- 13	J	70 +/- 15	6.9 +/- 2.3
JP-PNGR-001	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	56		4.9 +/- 0.95	401 +/- 46		462 +/- 46	7.1
JP-PNGR-001	SAIC03	1' to 2'	Alpha Spec.	pCi/g	1.6 +/- 0.55		0.18 +/- 0.17	11 +/- 2.6	J	13 +/- 2.9	6.9 +/- 2.9
JP-PNGR-001	SAIC03	1' to 2'	Gamma Spec.	pCi/g	9.3		0.65 +/- 0.43	62 +/- 12	J	72 +/- 12	6.7
JP-PNGR-001	SAIC04	2' to 2.5'	Alpha Spec.	pCi/g	5.5 +/- 1.4		0.45 +/- 0.29	46 +/- 10	J	52 +/- 11	8.4 +/- 2.9
JP-PNGR-001	SAIC04	2' to 2.5'	Gamma Spec.	pCi/g	20		2.1 +/- 0.60	168 +/- 24		190 +/- 24	8.3
JP-PNGR-001	SAIC05	0' to 4'	ICP-MS	mg/kg	0.32		92	47,400	E	47,500	0.19
JP-PNGR-002	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	2,170 +/- 529		196 +/- 96	17,870 +/- 4,020		20,230 +/- 4,460	8.2 +/- 2.7
JP-PNGR-002	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	292		27 +/- 3.1	2,440 +/- 248		2,760 +/- 248	8.3
JP-PNGR-002	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	3.3 +/- 0.95		0.32 +/- 0.25	26 +/- 5.9	J	30 +/- 6.6	7.9 +/- 2.9
JP-PNGR-002	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	19		1.9 +/- 0.53	144 +/- 20		165 +/- 20	7.7
JP-PNGR-002	SAIC03	1' to 2'	Alpha Spec.	pCi/g	5.3 +/- 1.4		0.50 +/- 0.31	41 +/- 9.2	J	47 +/- 10	7.8 +/- 2.7
JP-PNGR-002	SAIC03	1' to 2'	Gamma Spec.	pCi/g	33		3.0 +/- 0.72	251 +/- 31		287 +/- 31	7.7
JP-PNGR-003	SAIC01	0' to 0.5'	Alpha Spec.	pCi/g	2,940 +/- 722		343 +/- 153	20,740 +/- 4,750		24,020 +/- 5,360	7.1 +/- 2.4
JP-PNGR-003	SAIC01D	0' to 0.5'	Alpha Spec.	pCi/g	4,030 +/- 1,010		371 +/- 172	30,790 +/- 7,250		35,190 +/- 8,020	7.6 +/- 2.6
JP-PNGR-003	SAIC01C	0' to 0.5'	Alpha Spec.	pCi/g	3,309 +/- 587		355 +/- 114	23,758 +/- 3,973		27,469 +/- 4,456	7.2 +/- 1.8
JP-PNGR-003	SAIC01	0' to 0.5'	Gamma Spec.	pCi/g	423		35 +/- 3.9	3,020 +/- 306		3,478 +/- 306	7.1
JP-PNGR-003	SAIC01D	0' to 0.5'	Gamma Spec.	pCi/g	238		23 +/- 3.0	1,830 +/- 189		2,091 +/- 189	7.7
JP-PNGR-003	SAIC01C	0' to 0.5'	Gamma Spec.	pCi/g	331		27 +/- 2.4	2,159 +/- 161		2,517 +/- 161	6.5
JP-PNGR-003	SAIC02	0.5' to 1'	Alpha Spec.	pCi/g	30 +/- 7.4		2.8 +/- 1.4	219 +/- 51		252 +/- 57	7.3 +/- 2.5
JP-PNGR-003	SAIC02D	0.5' to 1'	Alpha Spec.	pCi/g	15 +/- 3.6		1.4 +/- 0.70	104 +/- 23	J	120 +/- 26	7.2 +/- 2.4
JP-PNGR-003	SAIC02C	0.5' to 1'	Alpha Spec.	pCi/g	17 +/- 3.2		1.7 +/- 0.62	124 +/- 21	J	143 +/- 24	7.1 +/- 1.8
JP-PNGR-003	SAIC02	0.5' to 1'	Gamma Spec.	pCi/g	65		5.9 +/- 0.89	465 +/- 51		536 +/- 51	7.1
JP-PNGR-003	SAIC02D	0.5' to 1'	Gamma Spec.	pCi/g	66		5.6 +/- 1.0	470 +/- 51		541 +/- 51	7.1
JP-PNGR-003	SAIC02C	0.5' to 1'	Gamma Spec.	pCi/g	66		5.7 +/- 0.67	467 +/- 36		539 +/- 36	7.1
JP-PNGR-003	SAIC03	1' to 2'	Alpha Spec.	pCi/g	23 +/- 5.7		2.0 +/- 0.99	168 +/- 38		193 +/- 43	7.3 +/- 2.4
JP-PNGR-003	SAIC03D	1' to 2'	Alpha Spec.	pCi/g	11 +/- 2.7		0.76 +/- 0.44	81 +/- 18	J	93 +/- 20	7.5 +/- 2.5
JP-PNGR-003	SAIC03C	1' to 2'	Alpha Spec.	pCi/g	13 +/- 2.4		0.96 +/- 0.40	97 +/- 16	J	111 +/- 18	7.5 +/- 1.9
JP-PNGR-003	SAIC03	1' to 2'	Gamma Spec.	pCi/g	67		5.9 +/- 0.94	481 +/- 52		554 +/- 52	7.1
JP-PNGR-003	SAIC03D	1' to 2'	Gamma Spec.	pCi/g	33		3.3 +/- 0.67	250 +/- 29		286 +/- 29	7.7
JP-PNGR-003	SAIC03C	1' to 2'	Gamma Spec.	pCi/g	50		4.2 +/- 0.55	306 +/- 26		360 +/- 26	6.1
JP-PNGR-003	SAIC04	2' to 2.5'	Alpha Spec.	pCi/g	9.4 +/- 2.3		0.67 +/- 0.40	62 +/- 14	J	72 +/- 16	6.6 +/- 2.2
JP-PNGR-003	SAIC04D	2' to 2.5'	Alpha Spec.	pCi/g	3.6 +/- 0.99		0.43 +/- 0.27	23 +/- 5.2	J	27 +/- 6.0	6.5 +/- 2.3
JP-PNGR-003	SAIC04C	2' to 2.5'	Alpha Spec.	pCi/g	4.5 +/- 0.91		0.50 +/- 0.22	28 +/- 4.9	J	33 +/- 5.6	6.3 +/- 1.7

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238	Total Uranium	
JP-PNGR-003	SAIC04	2' to 2.5'	Gamma Spec.	pCi/g	37	3.5 +/- 0.72	248 +/- 29	289 +/- 29	6.7
JP-PNGR-003	SAIC04D	2' to 2.5'	Gamma Spec.	pCi/g	20	1.9 +/- 0.52	131 +/- 18	153 +/- 18	6.7
JP-PNGR-003	SAIC04C	2' to 2.5'	Gamma Spec.	pCi/g	28	2.4 +/- 0.42	163 +/- 15	194 +/- 15	5.7
JP-PNGR-004	SAIC01	0.5' to 1'	Alpha Spec.	pCi/g	2,500 +/- 621	225 +/- 110	18,830 +/- 4,320	21,560 +/- 4,820	7.5 +/- 2.5
JP-PNGR-004	SAIC01	0.5' to 1'	Gamma Spec.	pCi/g	234	19 +/- 2.3	1,800 +/- 183	2,053 +/- 183	7.7
JP-PNGR-004	SAIC02	1' to 1.5'	Alpha Spec.	pCi/g	53 +/- 14	6.2 +/- 2.7	412 +/- 100	471 +/- 110	7.8 +/- 2.7
JP-PNGR-004	SAIC02	1' to 1.5'	Gamma Spec.	pCi/g	153	15 +/- 2.0	1,170 +/- 123	1,337 +/- 123	7.7
JP-PNGR-004	SAIC03	1.5' to 2.5'	Alpha Spec.	pCi/g	26 +/- 6.5	2.9 +/- 1.3	210 +/- 48	239 +/- 53	8.0 +/- 2.7
JP-PNGR-004	SAIC03	1.5' to 2.5'	Gamma Spec.	pCi/g	-1.7E-01	0.048 +/- 0.14	UJ -1.4E+00 +/- 2.8	R --	8.4
JP-PNGR-004	SAIC04	0' to 0.5'	Alpha Spec.	pCi/g	12,940 +/- 3,660	1,440 +/- 640	103,700 +/- 28,200	118,080 +/- 30,500	8.0 +/- 3.1
JP-PNGR-004	SAIC04	0' to 0.5'	Gamma Spec.	pCi/g	1,330	104 +/- 11	11,060 +/- 1,100	12,494 +/- 1,100	8.3
<b>Till Samples</b>									
JP-KAC-011	SAIC01	10' to 16'	Alpha Spec.	pCi/g	0.57 +/- 0.11	0.026 +/- 0.025	J 0.65 +/- 0.12	1.2 +/- 0.16	1.1 +/- 0.30
JP-KAC-011	SAIC01D	10' to 16'	Alpha Spec.	pCi/g	0.49 +/- 0.096	0.024 +/- 0.022	J 0.59 +/- 0.11	1.1 +/- 0.15	1.2 +/- 0.33
JP-KAC-011	SAIC01C	10' to 16'	Alpha Spec.	pCi/g	0.52 +/- 0.072	0.025 +/- 0.016	J 0.62 +/- 0.081	1.2 +/- 0.11	1.2 +/- 0.22
JP-KAC-011	SAIC01R	10' to 16'	ICP-MS	mg/kg	0.0058	U 0.0033	BN 0.46	0.46	ND
JP-KAC-012	SAIC01	10' to 18'	Alpha Spec.	pCi/g	0.48 +/- 0.11	0.031 +/- 0.028	J 0.72 +/- 0.13	1.2 +/- 0.17	1.5 +/- 0.44
JP-KAC-012	SAIC01R	10' to 18'	ICP-MS	mg/kg	0.0057	U 0.0056	J 0.75	0.76	ND
JP-KAC-013	SAIC01	10' to 16'	Alpha Spec.	pCi/g	0.59 +/- 0.11	0.032 +/- 0.026	J 0.55 +/- 0.10	1.2 +/- 0.15	0.93 +/- 0.24
JP-KAC-013	SAIC01R	10' to 16'	ICP-MS	mg/kg	0.0058	U 0.0031	J 0.45	0.45	ND
JP-KCR-011	SAIC01	10' to 16'	Alpha Spec.	pCi/g	1.0 +/- 0.16	0.041 +/- 0.031	J 1.2 +/- 0.17	2.2 +/- 0.24	1.1 +/- 0.25
JP-KCR-011	SAIC01R	10' to 16'	ICP-MS	mg/kg	0.0061	U 0.0093	1.3	1.3	ND
JP-KCR-012	SAIC01	8' to 14'	Alpha Spec.	pCi/g	0.20 +/- 0.060	0.015 +/- 0.018	J 0.31 +/- 0.076	0.53 +/- 0.098	1.5 +/- 0.59
JP-KCR-012	SAIC01R	8' to 14'	ICP-MS	mg/kg	0.0062	U 0.0085	N 0.90	0.91	ND
JP-KCR-012	SAIC01DR	8' to 14'	ICP-MS	mg/kg	0.0057	U 0.0082	N 1.1	1.2	ND
JP-KCR-012	SAIC01RC	8' to 14'	ICP-MS	mg/kg	0.0060	U 0.0074	N 1.0	1.1	ND
JP-KGR-005	SAIC01	6' to 10'	Alpha Spec.	pCi/g	0.45 +/- 0.098	0.025 +/- 0.025	U 0.63 +/- 0.12	1.1 +/- 0.16	1.4 +/- 0.41
JP-KGR-005	SAIC01R	6' to 10'	ICP-MS	mg/kg	0.0070	U 0.0066	J 0.92	0.93	ND
JP-KGR-005	SAIC01DR	6' to 10'	ICP-MS	mg/kg	0.0067	U 0.0038	J 0.54	0.55	ND
JP-KGR-005	SAIC01RC	6' to 10'	ICP-MS	mg/kg	0.0069	U 0.0052	J 0.73	0.74	ND
<b>Historical ERM Samples</b>									
SS-DU-001	SAIC0498	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	0.60 +/- 2.0	U 0.60 +/- 2.0	U ND
SS-DU-001	SAIC0499	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	2.0 +/- 1.0	2.0 +/- 1.0	ND
SS-DU-001	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	2.0 +/- 2.0	J 2.0 +/- 2.0	J ND
SS-DU-001	SAIC1099D	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	2.0 +/- 2.0	J 2.0 +/- 2.0	J ND
SS-DU-001	SAIC1099C	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	2.0 +/- 1.4	J 2.0 +/- 1.4	J ND
SS-DU-001	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	2.0 +/- 1.0	2.0 +/- 1.0	ND
SS-DU-001	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	1.0 +/- 2.0	U 1.0 +/- 2.0	U ND
SS-DU-001	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	2.0 +/- 2.0	2.0 +/- 2.0	ND
SS-DU-001	SAIC1001	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	2.0 +/- 2.0	2.0 +/- 2.0	ND
SS-DU-001	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	1.0 +/- 1.0	1.0 +/- 1.0	ND
SS-DU-001	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	1.0 +/- 2.0	U 1.0 +/- 2.0	U ND
SS-DU-001	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	0.31 +/- 0.17	U 0.31 +/- 0.17	U ND
SS-DU-001	SAIC01	Surface	Alpha Spec.	pCi/g	0.82 +/- 0.16	0.030 +/- 0.022	J 0.80 +/- 0.16	1.7 +/- 0.23	0.98 +/- 0.27
SS-DU-001	SAIC01D	Surface	Alpha Spec.	pCi/g	0.76 +/- 0.15	0.021 +/- 0.018	J 0.82 +/- 0.16	1.6 +/- 0.22	1.1 +/- 0.30
SS-DU-001	SAIC01C	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.11	0.025 +/- 0.014	J 0.81 +/- 0.11	1.6 +/- 0.16	1.0 +/- 0.20
SS-DU-001	SAIC02	Surface	Alpha Spec.	pCi/g	0.86 +/- 0.26	LT 0.017 +/- 0.060	U 0.84 +/- 0.26	J 1.7 +/- 0.37	ND
SS-DU-001	SAIC02D	Surface	Alpha Spec.	pCi/g	0.81 +/- 0.24	LT 0.077 +/- 0.077	U 0.89 +/- 0.26	J 1.8 +/- 0.36	ND
SS-DU-001	SAIC02C	Surface	Alpha Spec.	pCi/g	0.83 +/- 0.18	LT 0.040 +/- 0.047	U 0.87 +/- 0.18	J 1.7 +/- 0.26	ND
SS-DU-001	SAIC03	Surface	Alpha Spec.	pCi/g	0.95 +/- 0.28	J 0.11 +/- 0.097	U 0.71 +/- 0.24	LT 1.8 +/- 0.38	ND
SS-DU-001	SAIC03D	Surface	Alpha Spec.	pCi/g	1.0 +/- 0.32	J 0.099 +/- 0.094	U 1.1 +/- 0.33	LT 2.2 +/- 0.47	ND
SS-DU-001	SAIC03C	Surface	Alpha Spec.	pCi/g	0.99 +/- 0.21	J 0.10 +/- 0.067	U 0.85 +/- 0.19	LT 2.0 +/- 0.30	ND
SS-DU-001	SAIC04	Surface	Alpha Spec.	pCi/g	1.0 +/- 0.22	LT 0.023 +/- 0.023	J 0.92 +/- 0.20	LT 2.0 +/- 0.30	ND
SS-DU-001	SAIC05	Surface	Alpha Spec.	pCi/g	0.87 +/- 0.30	LT 0.037 +/- 0.079	U 1.1 +/- 0.33	LT 2.0 +/- 0.45	ND

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Total and Isotopic Uranium Results for Soil and Sediment Samples												
Field		Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)					DU Presence		
Sample ID	Sample Number				U-234		U-235		U-238	Total Uranium	U-238/U-234 Ratio Weight Percent U-235	
SS-DU-001	SAIC06	Surface	Alpha Spec.	pCi/g	0.93 +/- 0.21		0.050 +/- 0.038	J	0.95 +/- 0.21		1.9 +/- 0.30	1.0 +/- 0.32
SS-DU-001	SAIC07	Surface	Alpha Spec.	pCi/g	0.84 +/- 0.19		0.041 +/- 0.031	J	0.81 +/- 0.19		1.7 +/- 0.27	0.96 +/- 0.31
SS-DU-001	SAIC07D	Surface	Alpha Spec.	pCi/g	0.82 +/- 0.18		0.047 +/- 0.032	J	1.0 +/- 0.22		1.9 +/- 0.29	1.3 +/- 0.39
SS-DU-001	SAIC07C	Surface	Alpha Spec.	pCi/g	0.83 +/- 0.13		0.044 +/- 0.022	J	0.91 +/- 0.14		1.8 +/- 0.20	1.1 +/- 0.24
SS-DU-001	SAIC08	Surface	Alpha Spec.	pCi/g	0.82 +/- 0.19		0.090 +/- 0.052	J	0.88 +/- 0.20		1.8 +/- 0.28	1.1 +/- 0.35
SS-DU-001	SAIC09E	Surface	Alpha Spec.	pCi/g	1.0 +/- 0.33		0.018 +/- 0.036	U	0.97 +/- 0.32		2.0 +/- 0.54	0.95 +/- 0.44
SS-DU-001	SAIC10E	Surface	Alpha Spec.	pCi/g	0.82 +/- 0.20	J	0.032 +/- 0.022	J	0.72 +/- 0.18	J	1.6 +/- 0.35	0.87 +/- 0.30
SS-DU-001	SAIC11E	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.12		0.019 +/- 0.024	U	0.71 +/- 0.13		1.4 +/- 0.18	1.1 +/- 0.30
SS-DU-001	SAIC12E	Surface	Alpha Spec.	pCi/g	0.80 +/- 0.13		0.034 +/- 0.028	J	0.77 +/- 0.13		1.6 +/- 0.19	0.96 +/- 0.23
SS-DU-001	SAIC13E	Surface	Alpha Spec.	pCi/g	0.83 +/- 0.14		0.053 +/- 0.035	J	0.87 +/- 0.14		1.8 +/- 0.20	1.0 +/- 0.24
SS-DU-001	SAIC14E	Surface	Alpha Spec.	pCi/g	0.66 +/- 0.11		0.046 +/- 0.030	J	0.80 +/- 0.13		1.5 +/- 0.17	1.2 +/- 0.28
SS-DU-001	SAIC15E	Surface	Alpha Spec.	pCi/g	0.71 +/- 0.13		0.023 +/- 0.025	U	0.65 +/- 0.12		1.4 +/- 0.18	0.92 +/- 0.24
SS-DU-001	SAIC16E	Surface	Alpha Spec.	pCi/g	0.76 +/- 0.13		0.024 +/- 0.022	J	0.62 +/- 0.11		1.4 +/- 0.17	0.82 +/- 0.20
SS-DU-001	SAIC17E	Surface	Alpha Spec.	pCi/g	0.56 +/- 0.11		0.044 +/- 0.032	J	0.55 +/- 0.11		1.2 +/- 0.16	0.98 +/- 0.28
SS-DU-001	SAIC18E	Surface	Alpha Spec.	pCi/g	0.65 +/- 0.12		0.038 +/- 0.029	J	0.62 +/- 0.11		1.3 +/- 0.17	0.95 +/- 0.24
SS-DU-002	SAIC0498	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0	J	2.0 +/- 2.0	J ND
SS-DU-002	SAIC0499	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.60 +/- 2.0	U	0.60 +/- 2.0	U ND
SS-DU-002	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 1.0		2.0 +/- 1.0	ND
SS-DU-002	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 1.0		1.0 +/- 1.0	ND
SS-DU-002	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 2.0	U	1.0 +/- 2.0	U ND
SS-DU-002	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0		2.0 +/- 2.0	ND
SS-DU-002	SAIC1001	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0		2.0 +/- 2.0	ND
SS-DU-002	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0	J	2.0 +/- 2.0	J ND
SS-DU-002	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 2.0	U	1.0 +/- 2.0	U ND
SS-DU-002	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.15 +/- 0.13	U	0.15 +/- 0.13	U ND
SS-DU-002	SAIC01	Surface	Alpha Spec.	pCi/g	0.70 +/- 0.14		0.041 +/- 0.025	J	0.76 +/- 0.15		1.5 +/- 0.21	1.1 +/- 0.31
SS-DU-002	SAIC02	Surface	Alpha Spec.	pCi/g	0.59 +/- 0.21	LT	0.050 +/- 0.060	J	0.74 +/- 0.23	J	1.4 +/- 0.32	ND
SS-DU-002	SAIC03	Surface	Alpha Spec.	pCi/g	0.66 +/- 0.23	J	0.12 +/- 0.10	J	0.68 +/- 0.23	LT	1.5 +/- 0.34	ND
SS-DU-002	SAIC04	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.18	LT	0.035 +/- 0.031	J	0.88 +/- 0.20	LT	1.7 +/- 0.27	ND
SS-DU-002	SAIC05	Surface	Alpha Spec.	pCi/g	0.76 +/- 0.27	LT	0.054 +/- 0.077	U	0.86 +/- 0.29	LT	1.7 +/- 0.40	ND
SS-DU-002	SAIC05D	Surface	Alpha Spec.	pCi/g	0.84 +/- 0.28	LT	0.010 +/- 0.075	U	0.81 +/- 0.28	LT	1.7 +/- 0.40	ND
SS-DU-002	SAIC05C	Surface	Alpha Spec.	pCi/g	0.80 +/- 0.19	LT	0.031 +/- 0.054	U	0.83 +/- 0.20	LT	1.7 +/- 0.28	ND
SS-DU-002	SAIC06	Surface	Alpha Spec.	pCi/g	0.77 +/- 0.18		0.042 +/- 0.034	J	0.73 +/- 0.17		1.5 +/- 0.25	0.95 +/- 0.31
SS-DU-002	SAIC07	Surface	Alpha Spec.	pCi/g	0.83 +/- 0.18		0.048 +/- 0.031	J	0.85 +/- 0.19		1.7 +/- 0.26	1.0 +/- 0.32
SS-DU-002	SAIC08	Surface	Alpha Spec.	pCi/g	0.87 +/- 0.20		0.047 +/- 0.036	J	0.68 +/- 0.16		1.6 +/- 0.26	0.78 +/- 0.26
SS-DU-002	SAIC09E	Surface	Alpha Spec.	pCi/g	1.0 +/- 0.33		0.035 +/- 0.051	U	0.77 +/- 0.27		1.8 +/- 0.50	0.77 +/- 0.37
SS-DU-002	SAIC09ED	Surface	Alpha Spec.	pCi/g	0.80 +/- 0.28		0.054 +/- 0.064	J	0.87 +/- 0.29		1.7 +/- 0.48	1.1 +/- 0.53
SS-DU-002	SAIC09EC	Surface	Alpha Spec.	pCi/g	0.88 +/- 0.21		0.042 +/- 0.040	J	0.81 +/- 0.20		1.8 +/- 0.35	0.92 +/- 0.32
SS-DU-002	SAIC10E	Surface	Alpha Spec.	pCi/g	0.15 +/- 0.052		0.0040 +/- 0.0070	U	0.21 +/- 0.067		0.36 +/- 0.099	1.4 +/- 0.68
SS-DU-002	SAIC10DE	Surface	Alpha Spec.	pCi/g	0.75 +/- 0.18		0.017 +/- 0.016	J	0.85 +/- 0.20		1.6 +/- 0.36	1.1 +/- 0.39
SS-DU-002	SAIC10EC	Surface	Alpha Spec.	pCi/g	0.19 +/- 0.050		0.0061 +/- 0.0064	J	0.27 +/- 0.064		0.45 +/- 0.095	1.4 +/- 0.50
SS-DU-002	SAIC11E	Surface	Alpha Spec.	pCi/g	0.91 +/- 0.15		0.074 +/- 0.042	J	0.85 +/- 0.14		1.8 +/- 0.21	0.93 +/- 0.22
SS-DU-002	SAIC12E	Surface	Alpha Spec.	pCi/g	1.0 +/- 0.18		0.053 +/- 0.042	J	1.0 +/- 0.18		2.1 +/- 0.26	1.0 +/- 0.25
SS-DU-002	SAIC12DE	Surface	Alpha Spec.	pCi/g	0.99 +/- 0.17		0.045 +/- 0.039	J	0.89 +/- 0.16		1.9 +/- 0.24	0.90 +/- 0.22
SS-DU-002	SAIC12EC	Surface	Alpha Spec.	pCi/g	1.00 +/- 0.12		0.049 +/- 0.029	J	0.94 +/- 0.12		2.0 +/- 0.17	0.94 +/- 0.17
SS-DU-002	SAIC13E	Surface	Alpha Spec.	pCi/g	0.76 +/- 0.13		0.038 +/- 0.029	J	0.83 +/- 0.13		1.6 +/- 0.19	1.1 +/- 0.25
SS-DU-002	SAIC13DE	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.13		0.033 +/- 0.028	J	0.94 +/- 0.15		1.8 +/- 0.20	1.2 +/- 0.27
SS-DU-002	SAIC13EC	Surface	Alpha Spec.	pCi/g	0.78 +/- 0.092		0.035 +/- 0.020	J	0.88 +/- 0.098		1.7 +/- 0.14	1.1 +/- 0.18
SS-DU-002	SAIC14E	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.13		0.032 +/- 0.026	J	0.80 +/- 0.13		1.6 +/- 0.19	1.0 +/- 0.23
SS-DU-002	SAIC15E	Surface	Alpha Spec.	pCi/g	0.88 +/- 0.15		0.057 +/- 0.037	J	0.92 +/- 0.15		1.9 +/- 0.22	1.0 +/- 0.25
SS-DU-002	SAIC16E	Surface	Alpha Spec.	pCi/g	0.68 +/- 0.11		0.027 +/- 0.022	J	0.74 +/- 0.12		1.4 +/- 0.16	1.1 +/- 0.25
SS-DU-002	SAIC17E	Surface	Alpha Spec.	pCi/g	0.76 +/- 0.13		0.014 +/- 0.017	U	0.75 +/- 0.13		1.5 +/- 0.18	0.99 +/- 0.24
SS-DU-002	SAIC18E	Surface	Alpha Spec.	pCi/g	0.69 +/- 0.12		0.039 +/- 0.028	J	0.69 +/- 0.12		1.4 +/- 0.17	1.0 +/- 0.25
SS-DU-003	SAIC0498	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 2.0		1.0 +/- 2.0	ND

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Total and Isotopic Uranium Results for Soil and Sediment Samples														DU Presence
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)							U-238/U-234 Ratio Weight Percent U-235		
					U-234		U-235		U-238		Total Uranium			
SS-DU-003	SAIC0499	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 2.0	J	2.0 +/- 2.0	J	ND
SS-DU-003	SAIC0499D	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	3.0 +/- 2.0	J	3.0 +/- 2.0	J	ND
SS-DU-003	SAIC0499C	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.5 +/- 1.4	J	2.5 +/- 1.4	J	ND
SS-DU-003	SAIC1099	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.40 +/- 2.0	U	0.40 +/- 2.0	U	ND
SS-DU-003	SAIC0400	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.50 +/- 1.0		0.50 +/- 1.0		ND
SS-DU-003	SAIC1000	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 2.0	U	1.0 +/- 2.0	U	ND
SS-DU-003	SAIC0401	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 2.0		2.0 +/- 2.0		ND
SS-DU-003	SAIC1001	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	5.0 +/- 1.0		5.0 +/- 1.0		ND
SS-DU-003	SAIC0402	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 1.0		1.0 +/- 1.0		ND
SS-DU-003	SAIC1002	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 2.0	U	1.0 +/- 2.0	U	ND
SS-DU-003	SAIC0403	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.13 +/- 0.11	U	0.13 +/- 0.11	U	ND
SS-DU-003	SAIC01	Surface	Alpha Spec.	pCi/g	0.72 +/- 0.15			0.033 +/- 0.024	J	0.84 +/- 0.17		1.6 +/- 0.23		1.2 +/- 0.34
SS-DU-003	SAIC02	Surface	Alpha Spec.	pCi/g	0.49 +/- 0.18	LT		0.049 +/- 0.059	J	0.81 +/- 0.25	J	1.3 +/- 0.31		ND
SS-DU-003	SAIC03	Surface	Alpha Spec.	pCi/g	0.81 +/- 0.27	J		0.17 +/- 0.12	J	0.69 +/- 0.24	LT	1.7 +/- 0.38		ND
SS-DU-003	SAIC04	Surface	Alpha Spec.	pCi/g	0.42 +/- 0.11	LT		0.015 +/- 0.020	U	0.56 +/- 0.14	LT	1.00 +/- 0.18		ND
SS-DU-003	SAIC04D	Surface	Alpha Spec.	pCi/g	0.90 +/- 0.20			0.044 +/- 0.036	U	0.77 +/- 0.18		1.7 +/- 0.27		0.86 +/- 0.28
SS-DU-003	SAIC04C	Surface	Alpha Spec.	pCi/g	0.53 +/- 0.096			0.022 +/- 0.017	U	0.64 +/- 0.11		1.2 +/- 0.15		1.2 +/- 0.30
SS-DU-003	SAIC05	Surface	Alpha Spec.	pCi/g	0.58 +/- 0.22	LT		0.042 +/- 0.072	U	0.74 +/- 0.26	LT	1.4 +/- 0.35		ND
SS-DU-003	SAIC06	Surface	Alpha Spec.	pCi/g	0.75 +/- 0.18			0.020 +/- 0.024	J	0.76 +/- 0.18		1.5 +/- 0.25		1.0 +/- 0.34
SS-DU-003	SAIC06D	Surface	Alpha Spec.	pCi/g	0.61 +/- 0.15			0.030 +/- 0.030	U	0.69 +/- 0.17		1.3 +/- 0.23		1.1 +/- 0.39
SS-DU-003	SAIC06C	Surface	Alpha Spec.	pCi/g	0.67 +/- 0.11			0.024 +/- 0.019	U	0.72 +/- 0.12		1.4 +/- 0.17		1.1 +/- 0.26
SS-DU-003	SAIC07	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.18			0.075 +/- 0.042	J	0.74 +/- 0.17		1.6 +/- 0.25		0.94 +/- 0.30
SS-DU-003	SAIC08	Surface	Alpha Spec.	pCi/g	0.66 +/- 0.17			0.029 +/- 0.031	U	0.83 +/- 0.19		1.5 +/- 0.26		1.3 +/- 0.43
SS-DU-003	SAIC08D	Surface	Alpha Spec.	pCi/g	0.68 +/- 0.16			0.046 +/- 0.036	J	0.74 +/- 0.18		1.5 +/- 0.24		1.1 +/- 0.37
SS-DU-003	SAIC08C	Surface	Alpha Spec.	pCi/g	0.67 +/- 0.12			0.036 +/- 0.023	J	0.78 +/- 0.13		1.5 +/- 0.18		1.2 +/- 0.28
SS-DU-003	SAIC09E	Surface	Alpha Spec.	pCi/g	0.57 +/- 0.23			0.037 +/- 0.054	U	0.66 +/- 0.25		1.3 +/- 0.39		1.2 +/- 0.64
SS-DU-003	SAIC10E	Surface	Alpha Spec.	pCi/g	0.67 +/- 0.17	J		0.042 +/- 0.028	J	0.77 +/- 0.19	J	1.5 +/- 0.34		1.1 +/- 0.41
SS-DU-003	SAIC11E	Surface	Alpha Spec.	pCi/g	0.73 +/- 0.13			0.034 +/- 0.028	J	0.83 +/- 0.14		1.6 +/- 0.19		1.1 +/- 0.28
SS-DU-003	SAIC12E	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.12			0.034 +/- 0.028	J	0.67 +/- 0.12		1.3 +/- 0.17		1.1 +/- 0.28
SS-DU-003	SAIC13E	Surface	Alpha Spec.	pCi/g	0.70 +/- 0.12			0.035 +/- 0.028	J	0.67 +/- 0.12		1.4 +/- 0.17		0.96 +/- 0.24
SS-DU-003	SAIC14E	Surface	Alpha Spec.	pCi/g	0.43 +/- 0.088			0.017 +/- 0.019	U	0.57 +/- 0.10		1.0 +/- 0.13		1.3 +/- 0.36
SS-DU-003	SAIC15E	Surface	Alpha Spec.	pCi/g	0.65 +/- 0.12			0.051 +/- 0.033	J	0.61 +/- 0.11		1.3 +/- 0.17		0.94 +/- 0.24
SS-DU-003	SAIC16E	Surface	Alpha Spec.	pCi/g	0.74 +/- 0.13			0.025 +/- 0.024	J	0.65 +/- 0.12		1.4 +/- 0.18		0.88 +/- 0.22
SS-DU-003	SAIC17E	Surface	Alpha Spec.	pCi/g	0.47 +/- 0.095			0.060 +/- 0.035	J	0.57 +/- 0.11		1.1 +/- 0.15		1.2 +/- 0.34
SS-DU-003	SAIC18E	Surface	Alpha Spec.	pCi/g	0.64 +/- 0.11			0.028 +/- 0.023	J	0.55 +/- 0.10		1.2 +/- 0.15		0.86 +/- 0.22
SS-DU-004	SAIC0498	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	140 +/- 10		140 +/- 10		ND
SS-DU-004	SAIC0499	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 2.0	J	2.0 +/- 2.0	J	ND
SS-DU-004	SAIC1099	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.030 +/- 2.0	U	0.030 +/- 2.0	U	ND
SS-DU-004	SAIC0400	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 2.0		2.0 +/- 2.0		ND
SS-DU-004	SAIC1000	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 2.0	U	1.0 +/- 2.0	U	ND
SS-DU-004	SAIC0401	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 2.0		2.0 +/- 2.0		ND
SS-DU-004	SAIC1001	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.40 +/- 2.0	U	0.40 +/- 2.0	U	ND
SS-DU-004	SAIC0402	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 1.0		1.0 +/- 1.0		ND
SS-DU-004	SAIC1002	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 2.0	U	1.0 +/- 2.0	U	ND
SS-DU-004	SAIC0403	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.097 +/- 0.14	U	0.097 +/- 0.14	U	ND
SS-DU-004	SAIC01	Surface	Alpha Spec.	pCi/g	0.61 +/- 0.13			0.036 +/- 0.023	J	0.73 +/- 0.14		1.4 +/- 0.19		1.2 +/- 0.34
SS-DU-004	SAIC02	Surface	Alpha Spec.	pCi/g	0.74 +/- 0.25	LT		0.019 +/- 0.066	U	0.76 +/- 0.25	J	1.5 +/- 0.36		ND
SS-DU-004	SAIC03	Surface	Alpha Spec.	pCi/g	0.81 +/- 0.27	J		0.16 +/- 0.11	J	0.80 +/- 0.27	LT	1.8 +/- 0.40		ND
SS-DU-004	SAIC04	Surface	Alpha Spec.	pCi/g	0.58 +/- 0.14	LT		0.032 +/- 0.033	U	0.70 +/- 0.17	LT	1.3 +/- 0.22		ND
SS-DU-004	SAIC05	Surface	Alpha Spec.	pCi/g	0.83 +/- 0.29	LT		0.063 +/- 0.085	U	0.73 +/- 0.27	LT	1.6 +/- 0.41		ND
SS-DU-004	SAIC06	Surface	Alpha Spec.	pCi/g	0.81 +/- 0.19			0.069 +/- 0.045	J	0.85 +/- 0.20		1.7 +/- 0.28		1.0 +/- 0.35
SS-DU-004	SAIC07	Surface	Alpha Spec.	pCi/g	0.80 +/- 0.18			0.055 +/- 0.033	J	0.89 +/- 0.19		1.7 +/- 0.26		1.1 +/- 0.34
SS-DU-004	SAIC08	Surface	Alpha Spec.	pCi/g	1.1 +/- 0.23			0.070 +/- 0.044	J	0.93 +/- 0.21		2.1 +/- 0.32		0.87 +/- 0.27
SS-DU-004	SAIC09E	Surface	Alpha Spec.	pCi/g	0.69 +/- 0.25			0	U	0.66 +/- 0.24		1.4 +/- 0.40		0.95 +/- 0.50

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)						DU Presence	
	U-234				U-235	U-238	Total Uranium	U-238/U-234 Ratio Weight Percent U-235				
SS-DU-004	SAIC10E	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.035 +/- 0.025	J	0.59 +/- 0.15	1.3 +/- 0.29	0.95 +/- 0.34		
SS-DU-004	SAIC11E	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.13	0.059 +/- 0.036	J	0.68 +/- 0.12	1.5 +/- 0.18	0.86 +/- 0.21		
SS-DU-004	SAIC11DE	Surface	Alpha Spec.	pCi/g	0.78 +/- 0.14	0.055 +/- 0.035	J	0.77 +/- 0.13	1.6 +/- 0.19	0.99 +/- 0.24		
SS-DU-004	SAIC11EC	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.095	0.057 +/- 0.025	J	0.72 +/- 0.088	1.6 +/- 0.13	0.92 +/- 0.16		
SS-DU-004	SAIC12E	Surface	Alpha Spec.	pCi/g	0.59 +/- 0.12	0.052 +/- 0.036	J	0.74 +/- 0.13	1.4 +/- 0.18	1.3 +/- 0.34		
SS-DU-004	SAIC13E	Surface	Alpha Spec.	pCi/g	0.53 +/- 0.10	0.029 +/- 0.024	J	0.57 +/- 0.11	1.1 +/- 0.15	1.1 +/- 0.29		
SS-DU-004	SAIC14E	Surface	Alpha Spec.	pCi/g	0.40 +/- 0.085	0.036 +/- 0.029	J	0.53 +/- 0.099	0.96 +/- 0.13	1.3 +/- 0.37		
SS-DU-004	SAIC14DE	Surface	Alpha Spec.	pCi/g	0.44 +/- 0.087	0.0080 +/- 0.012	U	0.43 +/- 0.086	0.88 +/- 0.12	0.98 +/- 0.28		
SS-DU-004	SAIC14EC	Surface	Alpha Spec.	pCi/g	0.42 +/- 0.061	0.012 +/- 0.011	U	0.47 +/- 0.065	0.90 +/- 0.090	1.1 +/- 0.23		
SS-DU-004	SAIC15E	Surface	Alpha Spec.	pCi/g	0.64 +/- 0.12	0.026 +/- 0.025	J	0.54 +/- 0.11	1.2 +/- 0.16	0.84 +/- 0.23		
SS-DU-004	SAIC15DE	Surface	Alpha Spec.	pCi/g	0.49 +/- 0.098	0.0090 +/- 0.014	U	0.45 +/- 0.094	0.95 +/- 0.14	0.93 +/- 0.27		
SS-DU-004	SAIC15EC	Surface	Alpha Spec.	pCi/g	0.55 +/- 0.076	0.013 +/- 0.012	U	0.49 +/- 0.071	1.1 +/- 0.10	0.89 +/- 0.18		
SS-DU-004	SAIC16E	Surface	Alpha Spec.	pCi/g	0.70 +/- 0.13	0.055 +/- 0.036	J	0.77 +/- 0.14	1.5 +/- 0.19	1.1 +/- 0.29		
SS-DU-004	SAIC16DE	Surface	Alpha Spec.	pCi/g	0.59 +/- 0.11	0.028 +/- 0.023	J	0.81 +/- 0.13	1.4 +/- 0.17	1.4 +/- 0.34		
SS-DU-004	SAIC16EC	Surface	Alpha Spec.	pCi/g	0.64 +/- 0.084	0.036 +/- 0.019	J	0.79 +/- 0.095	1.5 +/- 0.13	1.2 +/- 0.22		
SS-DU-004	SAIC17E	Surface	Alpha Spec.	pCi/g	0.58 +/- 0.11	0.023 +/- 0.022	J	0.61 +/- 0.11	1.2 +/- 0.16	1.1 +/- 0.28		
SS-DU-004	SAIC17DE	Surface	Alpha Spec.	pCi/g	0.57 +/- 0.11	0.013 +/- 0.019	U	0.59 +/- 0.11	1.2 +/- 0.16	1.0 +/- 0.28		
SS-DU-004	SAIC17EC	Surface	Alpha Spec.	pCi/g	0.58 +/- 0.078	0.017 +/- 0.014	U	0.60 +/- 0.078	1.2 +/- 0.11	1.0 +/- 0.20		
SS-DU-004	SAIC18E	Surface	Alpha Spec.	pCi/g	0.42 +/- 0.086	0.014 +/- 0.019	U	0.47 +/- 0.092	0.91 +/- 0.13	1.1 +/- 0.32		
SS-DU-004	SAIC18DE	Surface	Alpha Spec.	pCi/g	0.41 +/- 0.090	0.017 +/- 0.021	U	0.37 +/- 0.084	0.80 +/- 0.12	0.89 +/- 0.28		
SS-DU-004	SAIC18EC	Surface	Alpha Spec.	pCi/g	0.42 +/- 0.062	0.015 +/- 0.014	U	0.41 +/- 0.062	0.85 +/- 0.089	0.99 +/- 0.21		
Sediment Samples for Modeling												
JPG-D-04mod	SAIC01	Surface	ICP-MS	mg/kg	0.0067	U	0.0034	J	1.0	E	1.0	ND
JPG-D-04mod	SAIC02	Surface	ICP-MS	mg/kg	0.0064	U	0.0064	U	0.52	E	0.53	ND
JPG-D-04mod	SAIC03	Surface	ICP-MS	mg/kg	0.0063	U	0.0063	U	0.45	E	0.45	ND
JPG-D-04mod	SAIC04	Surface	ICP-MS	mg/kg	0.0063	U	0.0063	U	0.55	E	0.55	ND
JPG-DU-003mod	SAIC01	Surface	ICP-MS	mg/kg	0.0074	U	0.0061	J	0.95	E	0.95	ND
JPG-DU-003mod	SAIC01D	Surface	ICP-MS	mg/kg	0.0074	U	0.0064	J	1.0	E	1.0	ND
JPG-DU-003mod	SAIC01C	Surface	ICP-MS	mg/kg	0.0074	U	0.0063	J	0.98	E	0.98	ND
JPG-DU-003mod	SAIC02	Surface	ICP-MS	mg/kg	0.0082	U	0.0036	J	0.63	E	0.63	ND
JPG-DU-007mod	SAIC01	Surface	ICP-MS	mg/kg	0.0063	U	0.0044	J	0.85	E	0.86	ND
JPG-DU-007mod	SAIC02	Surface	ICP-MS	mg/kg	0.0066	U	0.0066	U	0.44	E	0.44	ND
JPG-DU-007mod	SAIC02D	Surface	ICP-MS	mg/kg	0.0065	U	0.0059	J	0.92	E	0.93	ND
JPG-DU-007mod	SAIC02C	Surface	ICP-MS	mg/kg	0.0066	U	0.0063	J	0.68	E	0.69	ND
Sediments												
JP-D-01	SAIC09	Surface	Alpha Spec.	pCi/g	0.41 +/- 0.18	0	U	0.31 +/- 0.15	0.72 +/- 0.26		0.77 +/- 0.51	
JP-D-01	SAIC10	Surface	Alpha Spec.	pCi/g	0.61 +/- 0.23	0.055 +/- 0.065	J	0.87 +/- 0.30	1.5 +/- 0.44		1.4 +/- 0.72	
JP-D-01	SAIC11	Surface	Alpha Spec.	pCi/g	0.49 +/- 0.13	0.024 +/- 0.021	J	0.70 +/- 0.18	1.2 +/- 0.28		1.4 +/- 0.53	
JP-D-01	SAIC12	Surface	Alpha Spec.	pCi/g	0.57 +/- 0.15	0.045 +/- 0.030	J	0.71 +/- 0.18	1.3 +/- 0.30		1.2 +/- 0.46	
JP-D-02	SAIC09	Surface	Alpha Spec.	pCi/g	0.70 +/- 0.25	0.051 +/- 0.061	J	0.83 +/- 0.28	1.6 +/- 0.44		1.2 +/- 0.58	
JP-D-02	SAIC10	Surface	Alpha Spec.	pCi/g	0.49 +/- 0.20	0.086 +/- 0.082	J	1.1 +/- 0.34	1.7 +/- 0.47		2.2 +/- 1.1	
JP-D-02	SAIC11	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.16	0.040 +/- 0.027	J	1.0 +/- 0.24	1.7 +/- 0.38		1.6 +/- 0.56	
JP-D-02	SAIC12	Surface	Alpha Spec.	pCi/g	0.44 +/- 0.12	0.0080 +/- 0.012		0.45 +/- 0.12	0.90 +/- 0.22		1.0 +/- 0.39	
JP-D-03	SAIC09	Surface	Alpha Spec.	pCi/g	0.65 +/- 0.24	0.053 +/- 0.064	J	0.57 +/- 0.22	1.3 +/- 0.38		0.89 +/- 0.47	
JP-D-03	SAIC10	Surface	Alpha Spec.	pCi/g	0.60 +/- 0.23	0.018 +/- 0.036	U	0.52 +/- 0.21	1.1 +/- 0.35		0.86 +/- 0.48	
JP-D-03	SAIC11	Surface	Alpha Spec.	pCi/g	0.81 +/- 0.20	0.052 +/- 0.033	J	1.7 +/- 0.39	2.5 +/- 0.56		2.1 +/- 0.70	
JP-D-03	SAIC12	Surface	Alpha Spec.	pCi/g	0.42 +/- 0.16	0.035 +/- 0.042		0.48 +/- 0.17	0.93 +/- 0.27		1.1 +/- 0.58	
JP-D-04	SAIC09	Surface	Alpha Spec.	pCi/g	0.60 +/- 0.23	0	U	0.49 +/- 0.20	1.1 +/- 0.35		0.81 +/- 0.47	
JP-D-04	SAIC09D	Surface	Alpha Spec.	pCi/g	0.33 +/- 0.15	0	U	0.54 +/- 0.21	0.87 +/- 0.29		1.6 +/- 1.0	
JP-D-04	SAIC09C	Surface	Alpha Spec.	pCi/g	0.41 +/- 0.13	0	U	0.51 +/- 0.15	0.95 +/- 0.22		1.3 +/- 0.53	
JP-D-04	SAIC10	Surface	Alpha Spec.	pCi/g	0.20 +/- 0.11	J 0 +/- 0.14	U	0.35 +/- 0.16	0.55 +/- 0.21		1.7 +/- 1.2	
JP-D-04	SAIC11	Surface	Alpha Spec.	pCi/g	0.47 +/- 0.13	0.021 +/- 0.019	J	0.65 +/- 0.16	1.1 +/- 0.26		1.4 +/- 0.50	
JP-D-04	SAIC12	Surface	Alpha Spec.	pCi/g	0.26 +/- 0.082	0.017 +/- 0.017	J	0.39 +/- 0.11	0.67 +/- 0.17		1.5 +/- 0.63	
JP-D-05	SAIC09	Surface	Alpha Spec.	pCi/g	0.25 +/- 0.13	J 0.018 +/- 0.035	U	1.2 +/- 0.36	1.4 +/- 0.42		4.7 +/- 2.9	



**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio Weight Percent U-235
					U-234	U-235	U-238			
JP-D-05	SAIC10	Surface	Alpha Spec.	pCi/g	0.21 +/- 0.12	J	0.051 +/- 0.061	J	0.91 +/- 0.30	1.2 +/- 0.36
JP-D-05	SAIC11	Surface	Alpha Spec.	pCi/g	1.2 +/- 0.28		0.081 +/- 0.042	J	6.1 +/- 1.3	7.4 +/- 1.6
JP-D-05	SAIC12	Surface	Alpha Spec.	pCi/g	0.80 +/- 0.20		0.046 +/- 0.030	J	3.6 +/- 0.81	4.5 +/- 0.97
JP-D-06	SAIC09	Surface	Alpha Spec.	pCi/g	0.36 +/- 0.16		0	U	0.43 +/- 0.18	0.79 +/- 0.26
JP-D-06	SAIC10	Surface	Alpha Spec.	pCi/g	0.41 +/- 0.18		0 +/- 0.14	U	0.33 +/- 0.15	0.74 +/- 0.26
JP-D-06	SAIC11	Surface	Alpha Spec.	pCi/g	0.49 +/- 0.13		0.018 +/- 0.019	U	0.47 +/- 0.13	0.98 +/- 0.23
JP-D-06	SAIC12	Surface	Alpha Spec.	pCi/g	0.40 +/- 0.11		0.024 +/- 0.020		0.47 +/- 0.12	0.89 +/- 0.21
JP-D-07	SAIC09	Surface	Alpha Spec.	pCi/g	0.11 +/- 0.083	J	0	U	0.14 +/- 0.093	0.25 +/- 0.13
JP-D-07	SAIC10	Surface	Alpha Spec.	pCi/g	0.15 +/- 0.098	J	0.018 +/- 0.036	U	0.25 +/- 0.13	0.41 +/- 0.18
JP-D-07	SAIC11	Surface	Alpha Spec.	pCi/g	0.48 +/- 0.13		0.021 +/- 0.019	J	0.47 +/- 0.13	0.97 +/- 0.23
JP-D-07	SAIC12	Surface	Alpha Spec.	pCi/g	0.75 +/- 0.19		0.038 +/- 0.028	J	0.81 +/- 0.20	1.6 +/- 0.36
JP-D-08	SAIC09	Surface	Alpha Spec.	pCi/g	0.78 +/- 0.27		0	U	0.66 +/- 0.24	1.4 +/- 0.41
JP-D-08	SAIC10	Surface	Alpha Spec.	pCi/g	0.36 +/- 0.17		0.037 +/- 0.054	U	0.59 +/- 0.23	0.99 +/- 0.32
JP-D-08	SAIC11	Surface	Alpha Spec.	pCi/g	0.50 +/- 0.13		0.0090 +/- 0.013	U	0.62 +/- 0.16	1.1 +/- 0.26
JP-D-08	SAIC11D	Surface	Alpha Spec.	pCi/g	0.45 +/- 0.12		0.031 +/- 0.023	J	0.48 +/- 0.13	0.96 +/- 0.22
JP-D-08	SAIC11C	Surface	Alpha Spec.	pCi/g	0.47 +/- 0.088		0.014 +/- 0.011	J	0.53 +/- 0.098	1.0 +/- 0.17
JP-D-08	SAIC12	Surface	Alpha Spec.	pCi/g	0.56 +/- 0.15		0.034 +/- 0.025	J	0.70 +/- 0.18	1.3 +/- 0.30
JP-D-09	SAIC09	Surface	Alpha Spec.	pCi/g	0.51 +/- 0.21		0.073 +/- 0.076	J	0.48 +/- 0.20	1.1 +/- 0.34
JP-D-09	SAIC10	Surface	Alpha Spec.	pCi/g	0.39 +/- 0.17		0.017 +/- 0.035	U	0.44 +/- 0.19	0.85 +/- 0.28
JP-D-09	SAIC11	Surface	Alpha Spec.	pCi/g	0.71 +/- 0.18		0.020 +/- 0.019	J	0.75 +/- 0.19	1.5 +/- 0.34
JP-D-09	SAIC12	Surface	Alpha Spec.	pCi/g	0.34 +/- 0.10		0.017 +/- 0.019		0.43 +/- 0.12	0.79 +/- 0.19
JP-D-10	SAIC09	Surface	Alpha Spec.	pCi/g	0.28 +/- 0.14		0.017 +/- 0.034	U	0.34 +/- 0.15	0.64 +/- 0.23
JP-D-10	SAIC10	Surface	Alpha Spec.	pCi/g	0.23 +/- 0.13	J	0.019 +/- 0.039	U	0.25 +/- 0.14	0.50 +/- 0.20
JP-D-10	SAIC11	Surface	Alpha Spec.	pCi/g	0.50 +/- 0.13		0.011 +/- 0.013	J	0.55 +/- 0.14	1.1 +/- 0.25
JP-D-10	SAIC11D	Surface	Alpha Spec.	pCi/g	0.39 +/- 0.11		0.0020 +/- 0.0080	U	0.44 +/- 0.12	0.83 +/- 0.20
JP-D-10	SAIC11C	Surface	Alpha Spec.	pCi/g	0.44 +/- 0.084		0.0045 +/- 0.0068	U	0.49 +/- 0.091	0.92 +/- 0.16
JP-D-10	SAIC12	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.16		0.052 +/- 0.033	J	0.87 +/- 0.21	1.6 +/- 0.35
JP-D-10	SAIC12D	Surface	Alpha Spec.	pCi/g	0.64 +/- 0.16		0.018 +/- 0.018	J	0.69 +/- 0.18	1.4 +/- 0.31
JP-D-10	SAIC12C	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.12		0.026 +/- 0.016	J	0.77 +/- 0.14	1.4 +/- 0.23
JP-D-11	SAIC09	Surface	Alpha Spec.	pCi/g	0.20 +/- 0.12	J	0.017 +/- 0.034	U	0.18 +/- 0.11	0.39 +/- 0.17
JP-D-11	SAIC10	Surface	Alpha Spec.	pCi/g	0.17 +/- 0.10	J	0.015 +/- 0.031	U	0.099 +/- 0.073	0.29 +/- 0.13
JP-D-11	SAIC11	Surface	Alpha Spec.	pCi/g	0.17 +/- 0.060		0.0040 +/- 0.0080	U	0.25 +/- 0.078	0.43 +/- 0.12
JP-D-11	SAIC12	Surface	Alpha Spec.	pCi/g	0.29 +/- 0.089		0.020 +/- 0.019	J	0.46 +/- 0.13	0.77 +/- 0.19
JP-D-12	SAIC09	Surface	Alpha Spec.	pCi/g	0.47 +/- 0.19		0	U	0.38 +/- 0.17	0.85 +/- 0.28
JP-D-12	SAIC10	Surface	Alpha Spec.	pCi/g	0.58 +/- 0.23		0.094 +/- 0.089	J	0.52 +/- 0.21	1.2 +/- 0.37
JP-D-12	SAIC10D	Surface	Alpha Spec.	pCi/g	0.53 +/- 0.21		0.035 +/- 0.050	U	0.76 +/- 0.27	1.3 +/- 0.39
JP-D-12	SAIC10C	Surface	Alpha Spec.	pCi/g	0.55 +/- 0.15		0.049 +/- 0.044	U	0.61 +/- 0.16	1.3 +/- 0.27
JP-D-12	SAIC11	Surface	Alpha Spec.	pCi/g	0.49 +/- 0.13		0.027 +/- 0.022	J	0.57 +/- 0.15	1.1 +/- 0.25
JP-D-12	SAIC12	Surface	Alpha Spec.	pCi/g	0.48 +/- 0.13		0.022 +/- 0.023		0.50 +/- 0.14	1.0 +/- 0.24
JP-D-13	SAIC09	Surface	Alpha Spec.	pCi/g	0.44 +/- 0.18		0.017 +/- 0.034	U	0.58 +/- 0.22	1.0 +/- 0.32
JP-D-13	SAIC10	Surface	Alpha Spec.	pCi/g	0.55 +/- 0.21		0.062 +/- 0.073	U	0.60 +/- 0.23	1.2 +/- 0.36
JP-D-13	SAIC11	Surface	Alpha Spec.	pCi/g	0.51 +/- 0.14		0.036 +/- 0.026	J	0.59 +/- 0.15	1.1 +/- 0.26
JP-D-13	SAIC12	Surface	Alpha Spec.	pCi/g	0.62 +/- 0.16		0.040 +/- 0.028	J	0.64 +/- 0.16	1.3 +/- 0.30
JP-D-14	SAIC09	Surface	Alpha Spec.	pCi/g	0.20 +/- 0.11	J	0	U	0.83 +/- 0.28	1.0 +/- 0.32
JP-D-14	SAIC10	Surface	Alpha Spec.	pCi/g	0.47 +/- 0.19		0.016 +/- 0.032	U	2.4 +/- 0.64	2.9 +/- 0.74
JP-D-14	SAIC11	Surface	Alpha Spec.	pCi/g	0.52 +/- 0.14		0.047 +/- 0.031	J	2.7 +/- 0.61	3.3 +/- 0.72
JP-D-14	SAIC12	Surface	Alpha Spec.	pCi/g	0.65 +/- 0.17		0.017 +/- 0.017		1.1 +/- 0.27	1.8 +/- 0.40
JP-D-15	SAIC09	Surface	Alpha Spec.	pCi/g	0.64 +/- 0.23		0.016 +/- 0.033	U	0.60 +/- 0.22	1.3 +/- 0.37
JP-D-15	SAIC10	Surface	Alpha Spec.	pCi/g	0.39 +/- 0.17		0.050 +/- 0.060	J	0.59 +/- 0.22	1.0 +/- 0.32
JP-D-15	SAIC11	Surface	Alpha Spec.	pCi/g	0.50 +/- 0.13		0.022 +/- 0.020	J	0.52 +/- 0.14	1.0 +/- 0.24
JP-D-15	SAIC12	Surface	Alpha Spec.	pCi/g	0.51 +/- 0.14		0.028 +/- 0.023		0.49 +/- 0.13	1.0 +/- 0.24
JP-D-15	SAIC12D	Surface	Alpha Spec.	pCi/g	0.41 +/- 0.11		0.031 +/- 0.024		0.46 +/- 0.12	0.90 +/- 0.21
JP-D-15	SAIC12C	Surface	Alpha Spec.	pCi/g	0.45 +/- 0.088		0.029 +/- 0.017		0.47 +/- 0.090	0.96 +/- 0.16
JP-D-16	SAIC09	Surface	Alpha Spec.	pCi/g	0.66 +/- 0.25		0.036 +/- 0.052	U	1.0 +/- 0.34	1.7 +/- 0.49

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)						DU Presence		
					U-234		U-235		U-238		Total Uranium	U-238/U-234 Ratio Weight Percent U-235	
JP-D-16	SAIC10	Surface	Alpha Spec.	pCi/g	0.54 +/- 0.21		0.052 +/- 0.063	J	0.76 +/- 0.27		1.4 +/- 0.40		1.4 +/- 0.74
JP-D-16	SAIC11	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.16		0.032 +/- 0.024	J	0.68 +/- 0.17		1.3 +/- 0.31		1.1 +/- 0.38
JP-D-16	SAIC12	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.20		0.040 +/- 0.028		0.72 +/- 0.18		1.6 +/- 0.35		0.91 +/- 0.33
JP-D-17	SAIC09	Surface	Alpha Spec.	pCi/g	0.51 +/- 0.20		0.035 +/- 0.051	U	0.57 +/- 0.22		1.1 +/- 0.34		1.1 +/- 0.62
JP-D-17	SAIC09D	Surface	Alpha Spec.	pCi/g	0.52 +/- 0.21		0.018 +/- 0.036	U	0.43 +/- 0.18		0.97 +/- 0.31		0.82 +/- 0.48
JP-D-17	SAIC09C	Surface	Alpha Spec.	pCi/g	0.51 +/- 0.15		0.024 +/- 0.029	U	0.48 +/- 0.14		1.0 +/- 0.23		0.94 +/- 0.38
JP-D-17	SAIC10	Surface	Alpha Spec.	pCi/g	0.65 +/- 0.24		-7.0E-03 +/- 0.015	U	0.46 +/- 0.19		1.1 +/- 0.34		0.71 +/- 0.40
JP-D-17	SAIC11	Surface	Alpha Spec.	pCi/g	0.69 +/- 0.18		0.034 +/- 0.026	J	0.67 +/- 0.17		1.4 +/- 0.32		0.97 +/- 0.35
JP-D-17	SAIC12	Surface	Alpha Spec.	pCi/g	0.52 +/- 0.14		0.022 +/- 0.019	J	0.49 +/- 0.13		1.0 +/- 0.24		0.96 +/- 0.36
JP-D-18	SAIC09	Surface	Alpha Spec.	pCi/g	0.58 +/- 0.22		0.035 +/- 0.051	U	0.55 +/- 0.21		1.2 +/- 0.36		0.96 +/- 0.52
JP-D-18	SAIC10	Surface	Alpha Spec.	pCi/g	0.70 +/- 0.26		0 +/- 0.14	U	0.58 +/- 0.23		1.3 +/- 0.39		0.83 +/- 0.44
JP-D-18	SAIC11	Surface	Alpha Spec.	pCi/g	0.69 +/- 0.17		0.048 +/- 0.031	J	0.60 +/- 0.16		1.3 +/- 0.30		0.87 +/- 0.32
JP-D-18	SAIC12	Surface	Alpha Spec.	pCi/g	0.66 +/- 0.17		0.050 +/- 0.031	J	0.66 +/- 0.17		1.4 +/- 0.31		1.0 +/- 0.36
JP-D-19	SAIC09	Surface	Alpha Spec.	pCi/g	0.96 +/- 0.32		0.056 +/- 0.067	J	0.98 +/- 0.33		2.0 +/- 0.55		1.0 +/- 0.48
JP-D-19	SAIC10	Surface	Alpha Spec.	pCi/g	0.62 +/- 0.23		0.070 +/- 0.073	J	0.84 +/- 0.29		1.5 +/- 0.44		1.4 +/- 0.69
JP-D-19	SAIC10D	Surface	Alpha Spec.	pCi/g	0.52 +/- 0.20		0.027 +/- 0.049	J	0.66 +/- 0.24		1.2 +/- 0.36		1.3 +/- 0.68
JP-D-19	SAIC10C	Surface	Alpha Spec.	pCi/g	0.56 +/- 0.15		0.040 +/- 0.041	J	0.74 +/- 0.18		1.3 +/- 0.28		1.3 +/- 0.48
JP-D-19	SAIC11	Surface	Alpha Spec.	pCi/g	0.65 +/- 0.17		0.039 +/- 0.027	J	0.79 +/- 0.20		1.5 +/- 0.34		1.2 +/- 0.43
JP-D-19	SAIC12	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.20		0.042 +/- 0.030	J	0.82 +/- 0.20		1.7 +/- 0.37		1.0 +/- 0.37
JP-D-20	SAIC09	Surface	Alpha Spec.	pCi/g	0.29 +/- 0.15		0.018 +/- 0.036	U	0.23 +/- 0.13	J	0.54 +/- 0.21		0.80 +/- 0.59
JP-D-20	SAIC10	Surface	Alpha Spec.	pCi/g	0.25 +/- 0.13	J	0 +/- 0.14	U	0.26 +/- 0.14	J	0.51 +/- 0.20		1.1 +/- 0.79
JP-D-20	SAIC11	Surface	Alpha Spec.	pCi/g	0.25 +/- 0.078		0.019 +/- 0.018	J	0.29 +/- 0.086		0.56 +/- 0.14		1.1 +/- 0.49
JP-D-20	SAIC12	Surface	Alpha Spec.	pCi/g	0.33 +/- 0.095		0.0060 +/- 0.011		0.30 +/- 0.088		0.64 +/- 0.16		0.90 +/- 0.37
ERM Sediments													
SD-DU-001	SAIC1098	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.20 +/- 1.0	U	0.20 +/- 1.0	U	ND
SD-DU-001	SAIC0499	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	2.0 +/- 2.0	J	2.0 +/- 2.0	J	ND
SD-DU-001	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	2.0 +/- 2.0	J	2.0 +/- 2.0	J	ND
SD-DU-001	SAIC1099D	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.90 +/- 1.0	U	0.90 +/- 1.0	U	ND
SD-DU-001	SAIC1099C	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.1 +/- 0.89	U	1.1 +/- 0.89	U	ND
SD-DU-001	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-001	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.0 +/- 2.0	U	1.0 +/- 2.0	U	ND
SD-DU-001	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-001	SAIC1001	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	3.0 +/- 1.0		3.0 +/- 1.0		ND
SD-DU-001	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.0 +/- 1.0		1.0 +/- 1.0		ND
SD-DU-001	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.0 +/- 2.0	U	1.0 +/- 2.0	U	ND
SD-DU-001	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.074 +/- 0.11	U	0.074 +/- 0.11	U	ND
SD-DU-001	SAIC01	Surface	Alpha Spec.	pCi/g	0.31 +/- 0.080		0.0060 +/- 0.014	U	0.29 +/- 0.076		0.61 +/- 0.11		0.94 +/- 0.34
SD-DU-001	SAIC01	Surface	Alpha Spec.	pCi/g	0.31 +/- 0.080		0.0060 +/- 0.014	U	0.29 +/- 0.076		0.61 +/- 0.11		0.94 +/- 0.34
SD-DU-001	SAIC02	Surface	Alpha Spec.	pCi/g	0.48 +/- 0.24	LT	0.080 +/- 0.11	U	0.43 +/- 0.22	J	0.99 +/- 0.34		ND
SD-DU-001	SAIC03	Surface	Alpha Spec.	pCi/g	0.36 +/- 0.17	J	0.041 +/- 0.073	U	0.22 +/- 0.13	J	0.62 +/- 0.23		0.61 +/- 0.46
SD-DU-001	SAIC04	Surface	Alpha Spec.	pCi/g	0.17 +/- 0.063	LT	0.027 +/- 0.026	J	0.16 +/- 0.062	LT	0.36 +/- 0.092		ND
SD-DU-001	SAIC05	Surface	Alpha Spec.	pCi/g	0.77 +/- 0.27	LT	0.12 +/- 0.11	J	0.60 +/- 0.23	LT	1.5 +/- 0.37		ND
SD-DU-001	SAIC06	Surface	Alpha Spec.	pCi/g	0.33 +/- 0.099		0.010 +/- 0.022	U	0.24 +/- 0.081		0.58 +/- 0.13		0.73 +/- 0.33
SD-DU-001	SAIC07	Surface	Alpha Spec.	pCi/g	0.69 +/- 0.16		0.050 +/- 0.033	J	0.61 +/- 0.15		1.4 +/- 0.22		0.88 +/- 0.30
SD-DU-001	SAIC08	Surface	Alpha Spec.	pCi/g	0.31 +/- 0.10		0.028 +/- 0.033	U	0.24 +/- 0.087		0.58 +/- 0.14		0.79 +/- 0.38
SD-DU-001	SAIC09E	Surface	Alpha Spec.	pCi/g	0.73 +/- 0.26		0.029 +/- 0.055	U	1.0 +/- 0.33		1.8 +/- 0.50		1.4 +/- 0.68
SD-DU-001	SAIC09ED	Surface	Alpha Spec.	pCi/g	0.53 +/- 0.20		0.049 +/- 0.059	J	0.63 +/- 0.23		1.2 +/- 0.36		1.2 +/- 0.63
SD-DU-001	SAIC09EC	Surface	Alpha Spec.	pCi/g	0.60 +/- 0.16		0.038 +/- 0.040	J	0.76 +/- 0.19		1.4 +/- 0.29		1.3 +/- 0.46
SD-DU-001	SAIC10E	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.16		0.040 +/- 0.027	J	0.74 +/- 0.18		1.4 +/- 0.32		1.2 +/- 0.42
SD-DU-001	SAIC10DE	Surface	Alpha Spec.	pCi/g	0.50 +/- 0.13		0.031 +/- 0.023	J	0.56 +/- 0.15		1.1 +/- 0.25		1.1 +/- 0.41
SD-DU-001	SAIC10EC	Surface	Alpha Spec.	pCi/g	0.55 +/- 0.10		0.035 +/- 0.017	J	0.63 +/- 0.11		1.2 +/- 0.20		1.1 +/- 0.29
SD-DU-001	SAIC11E	Surface	Alpha Spec.	pCi/g	0.90 +/- 0.14		0.081 +/- 0.041	J	0.93 +/- 0.14		1.9 +/- 0.20		1.0 +/- 0.22
SD-DU-001	SAIC12E	Surface	Alpha Spec.	pCi/g	0.47 +/- 0.10		0.014 +/- 0.020	U	0.52 +/- 0.11		1.0 +/- 0.15		1.1 +/- 0.33
SD-DU-001	SAIC13E	Surface	Alpha Spec.	pCi/g	0.58 +/- 0.11		0.024 +/- 0.021	J	0.60 +/- 0.11		1.2 +/- 0.16		1.0 +/- 0.27

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)						DU Presence		
					U-234		U-235	U-238		Total Uranium	U-238/U-234 Ratio	Weight Percent U-235	
SD-DU-001	SAIC14E	Surface	Alpha Spec.	pCi/g	0.59 +/- 0.11		0.048 +/- 0.032	J	0.67 +/- 0.12		1.3 +/- 0.17		1.1 +/- 0.29
SD-DU-001	SAIC15E	Surface	Alpha Spec.	pCi/g	0.19 +/- 0.059		0.014 +/- 0.018	U	0.20 +/- 0.081		0.41 +/- 0.087		1.1 +/- 0.47
SD-DU-001	SAIC16E	Surface	Alpha Spec.	pCi/g	0.81 +/- 0.14		0.053 +/- 0.037	J	0.96 +/- 0.16		1.8 +/- 0.22		1.2 +/- 0.28
SD-DU-001	SAIC17E	Surface	Alpha Spec.	pCi/g	0.75 +/- 0.12		0.052 +/- 0.032	J	0.72 +/- 0.12		1.5 +/- 0.17		0.96 +/- 0.22
SD-DU-001	SAIC18E	Surface	Alpha Spec.	pCi/g	0.53 +/- 0.100	J	0.046 +/- 0.030	J	0.44 +/- 0.089		1.0 +/- 0.14		0.83 +/- 0.23
SD-DU-002	SAIC1098	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.20 +/- 1.0	U	0.20 +/- 1.0	U	ND
SD-DU-002	SAIC0499	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.40 +/- 1.0	U	0.40 +/- 1.0	U	ND
SD-DU-002	SAIC0499D	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-002	SAIC0499C	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.2 +/- 0.71		1.2 +/- 0.71		ND
SD-DU-002	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.0 +/- 0.90		1.0 +/- 0.90		ND
SD-DU-002	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.0 +/- 1.0		1.0 +/- 1.0		ND
SD-DU-002	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	3.0 +/- 1.0		3.0 +/- 1.0		ND
SD-DU-002	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.0 +/- 2.0		1.0 +/- 2.0		ND
SD-DU-002	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.50 +/- 1.0	U	0.50 +/- 1.0	U	ND
SD-DU-002	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	3.0 +/- 1.0		3.0 +/- 1.0		ND
SD-DU-002	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.18 +/- 0.11	U	0.18 +/- 0.11	U	ND
SD-DU-002	SAIC01	Surface	Alpha Spec.	pCi/g	0.24 +/- 0.068		0.030 +/- 0.023	J	0.40 +/- 0.094		0.68 +/- 0.12		1.7 +/- 0.60
SD-DU-002	SAIC02	Surface	Alpha Spec.	pCi/g	0.23 +/- 0.14	J	0.015 +/- 0.070	U	0.29 +/- 0.15	J	0.54 +/- 0.22		1.3 +/- 1.0
SD-DU-002	SAIC03	Surface	Alpha Spec.	pCi/g	0.44 +/- 0.18	J	0.14 +/- 0.10	J	0.30 +/- 0.15		0.88 +/- 0.26		0.68 +/- 0.44
SD-DU-002	SAIC04	Surface	Alpha Spec.	pCi/g	0.47 +/- 0.14	LT	0.040 +/- 0.036	J	0.59 +/- 0.16	LT	1.1 +/- 0.22		ND
SD-DU-002	SAIC04D	Surface	Alpha Spec.	pCi/g	0.62 +/- 0.15		0.034 +/- 0.030	J	0.58 +/- 0.14		1.2 +/- 0.21		0.94 +/- 0.32
SD-DU-002	SAIC04C	Surface	Alpha Spec.	pCi/g	0.54 +/- 0.10		0.036 +/- 0.023	J	0.58 +/- 0.11		1.2 +/- 0.15		1.1 +/- 0.28
SD-DU-002	SAIC05	Surface	Alpha Spec.	pCi/g	0.55 +/- 0.22	LT	0.028 +/- 0.076	U	0.67 +/- 0.25	LT	1.2 +/- 0.34		ND
SD-DU-002	SAIC06	Surface	Alpha Spec.	pCi/g	0.19 +/- 0.074		0.027 +/- 0.028	J	0.13 +/- 0.058		0.35 +/- 0.098		0.67 +/- 0.40
SD-DU-002	SAIC06D	Surface	Alpha Spec.	pCi/g	0.23 +/- 0.083		0.020 +/- 0.024	J	0.24 +/- 0.084		0.50 +/- 0.12		1.0 +/- 0.51
SD-DU-002	SAIC06C	Surface	Alpha Spec.	pCi/g	0.21 +/- 0.055		0.023 +/- 0.018	J	0.17 +/- 0.048		0.41 +/- 0.076		0.79 +/- 0.31
SD-DU-002	SAIC07	Surface	Alpha Spec.	pCi/g	0.19 +/- 0.061		-1.0E-03 +/- 0.015	U	0.20 +/- 0.063		0.38 +/- 0.089		1.1 +/- 0.49
SD-DU-002	SAIC08	Surface	Alpha Spec.	pCi/g	0.26 +/- 0.093		0.033 +/- 0.035	U	0.29 +/- 0.099		0.58 +/- 0.14		1.1 +/- 0.56
SD-DU-002	SAIC09E	Surface	Alpha Spec.	pCi/g	0.25 +/- 0.13	J	0.035 +/- 0.051	U	0.33 +/- 0.16		0.61 +/- 0.23		1.3 +/- 0.97
SD-DU-002	SAIC10E	Surface	Alpha Spec.	pCi/g	0.76 +/- 0.19		0.033 +/- 0.024	J	0.81 +/- 0.20		1.6 +/- 0.36		1.1 +/- 0.37
SD-DU-002	SAIC11E	Surface	Alpha Spec.	pCi/g	0.58 +/- 0.11		0.054 +/- 0.034	J	0.66 +/- 0.12		1.3 +/- 0.17		1.1 +/- 0.30
SD-DU-002	SAIC12E	Surface	Alpha Spec.	pCi/g	0.37 +/- 0.084		0.031 +/- 0.025	J	0.50 +/- 0.100		0.90 +/- 0.13		1.3 +/- 0.41
SD-DU-002	SAIC13E	Surface	Alpha Spec.	pCi/g	0.60 +/- 0.11		0.013 +/- 0.019	U	0.56 +/- 0.11		1.2 +/- 0.16		0.93 +/- 0.25
SD-DU-002	SAIC14E	Surface	Alpha Spec.	pCi/g	0.38 +/- 0.085		0.016 +/- 0.021	U	0.36 +/- 0.082		0.76 +/- 0.12		0.94 +/- 0.30
SD-DU-002	SAIC15E	Surface	Alpha Spec.	pCi/g	0.48 +/- 0.10		0.034 +/- 0.028	J	0.70 +/- 0.13		1.2 +/- 0.17		1.5 +/- 0.41
SD-DU-002	SAIC15DE	Surface	Alpha Spec.	pCi/g	0.50 +/- 0.10		0.031 +/- 0.027	J	0.66 +/- 0.12		1.2 +/- 0.16		1.3 +/- 0.36
SD-DU-002	SAIC15EC	Surface	Alpha Spec.	pCi/g	0.49 +/- 0.071		0.032 +/- 0.019	J	0.68 +/- 0.088		1.2 +/- 0.11		1.4 +/- 0.27
SD-DU-002	SAIC16E	Surface	Alpha Spec.	pCi/g	0.22 +/- 0.062		0.033 +/- 0.025	J	0.36 +/- 0.080		0.62 +/- 0.10		1.6 +/- 0.57
SD-DU-002	SAIC16DE	Surface	Alpha Spec.	pCi/g	0.23 +/- 0.062		0.012 +/- 0.016	U	0.39 +/- 0.083		0.63 +/- 0.10		1.7 +/- 0.58
SD-DU-002	SAIC16EC	Surface	Alpha Spec.	pCi/g	0.23 +/- 0.044		0.018 +/- 0.013	U	0.37 +/- 0.058		0.62 +/- 0.074		1.7 +/- 0.41
SD-DU-002	SAIC17E	Surface	Alpha Spec.	pCi/g	0.59 +/- 0.11		0.025 +/- 0.024	J	0.60 +/- 0.11		1.2 +/- 0.16		1.0 +/- 0.27
SD-DU-002	SAIC17DE	Surface	Alpha Spec.	pCi/g	0.54 +/- 0.10		0.030 +/- 0.024	J	0.74 +/- 0.12		1.3 +/- 0.16		1.4 +/- 0.34
SD-DU-002	SAIC17EC	Surface	Alpha Spec.	pCi/g	0.56 +/- 0.074		0.028 +/- 0.017	J	0.66 +/- 0.081		1.3 +/- 0.11		1.2 +/- 0.21
SD-DU-002	SAIC18E	Surface	Alpha Spec.	pCi/g	0.41 +/- 0.085		0.017 +/- 0.018	U	0.46 +/- 0.091		0.89 +/- 0.13		1.1 +/- 0.32
SD-DU-002	SAIC18DE	Surface	Alpha Spec.	pCi/g	0.46 +/- 0.093		0.010 +/- 0.014	U	0.49 +/- 0.097		0.95 +/- 0.14		1.1 +/- 0.31
SD-DU-002	SAIC18EC	Surface	Alpha Spec.	pCi/g	0.43 +/- 0.063		0.013 +/- 0.011	U	0.47 +/- 0.066		0.92 +/- 0.092		1.1 +/- 0.22
SD-DU-003	SAIC1098	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.60 +/- 1.0	U	0.60 +/- 1.0	U	ND
SD-DU-003	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.70 +/- 2.0	U	0.70 +/- 2.0	U	ND
SD-DU-003	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	4.0 +/- 1.0		4.0 +/- 1.0		ND
SD-DU-003	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.0 +/- 1.0		1.0 +/- 1.0		ND
SD-DU-003	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	3.0 +/- 2.0	J	3.0 +/- 2.0	J	ND
SD-DU-003	SAIC1001	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.60 +/- 1.0	U	0.60 +/- 1.0	U	ND
SD-DU-003	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	0.40 +/- 1.0	U	0.40 +/- 1.0	U	ND
SD-DU-003	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	-- -- --	-- -- --	-- -- --	1.0 +/- 1.0		1.0 +/- 1.0		ND

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Total and Isotopic Uranium Results for Soil and Sediment Samples														
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)								DU Presence	
					U-234		U-235		U-238		Total Uranium	U-238/U-234 Ratio		
													Weight Percent U-235	
SD-DU-003	SAIC0403	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.21 +/- 0.15	U	0.21 +/- 0.15	U	ND
SD-DU-003	SAIC01	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.13			0.032 +/- 0.022	J	0.56 +/- 0.12		1.2 +/- 0.18		0.89 +/- 0.26
SD-DU-003	SAIC02	Surface	Alpha Spec.	pCi/g	0.84 +/- 0.25	LT		0.13 +/- 0.093	J	0.83 +/- 0.25	J	1.8 +/- 0.37		ND
SD-DU-003	SAIC03	Surface	Alpha Spec.	pCi/g	0.84 +/- 0.27	J		0.13 +/- 0.11	J	0.74 +/- 0.25	LT	1.7 +/- 0.38		ND
SD-DU-003	SAIC03D	Surface	Alpha Spec.	pCi/g	0.68 +/- 0.23	J		0.072 +/- 0.073	J	0.65 +/- 0.22		1.4 +/- 0.33		0.96 +/- 0.46
SD-DU-003	SAIC03C	Surface	Alpha Spec.	pCi/g	0.75 +/- 0.18	J		0.090 +/- 0.061	J	0.69 +/- 0.17		1.5 +/- 0.25		0.92 +/- 0.31
SD-DU-003	SAIC04	Surface	Alpha Spec.	pCi/g	0.55 +/- 0.14	LT		0.032 +/- 0.033	U	0.56 +/- 0.14	LT	1.1 +/- 0.20		ND
SD-DU-003	SAIC05	Surface	Alpha Spec.	pCi/g	0.66 +/- 0.25	LT		0.015 +/- 0.081	U	0.57 +/- 0.23	LT	1.2 +/- 0.35		ND
SD-DU-003	SAIC06	Surface	Alpha Spec.	pCi/g	0.67 +/- 0.17			0.050 +/- 0.039	J	0.60 +/- 0.16		1.3 +/- 0.24		0.90 +/- 0.33
SD-DU-003	SAIC07	Surface	Alpha Spec.	pCi/g	0.82 +/- 0.18			0.044 +/- 0.029	J	0.91 +/- 0.19		1.8 +/- 0.26		1.1 +/- 0.33
SD-DU-003	SAIC08	Surface	Alpha Spec.	pCi/g	1.2 +/- 0.27			0.048 +/- 0.042	U	0.94 +/- 0.22		2.2 +/- 0.35		0.78 +/- 0.25
SD-DU-003	SAIC08D	Surface	Alpha Spec.	pCi/g	1.0 +/- 0.23			0.025 +/- 0.028	U	0.90 +/- 0.21		2.0 +/- 0.31		0.87 +/- 0.28
SD-DU-003	SAIC08C	Surface	Alpha Spec.	pCi/g	1.1 +/- 0.18			0.032 +/- 0.023	U	0.92 +/- 0.15		2.1 +/- 0.23		0.83 +/- 0.19
SD-DU-003	SAIC09E	Surface	Alpha Spec.	pCi/g	0.51 +/- 0.20			0.018 +/- 0.035	U	0.64 +/- 0.24		1.2 +/- 0.35		1.3 +/- 0.69
SD-DU-003	SAIC10E	Surface	Alpha Spec.	pCi/g	0.65 +/- 0.16			0.033 +/- 0.023	J	0.77 +/- 0.19		1.5 +/- 0.32		1.2 +/- 0.41
SD-DU-003	SAIC11E	Surface	Alpha Spec.	pCi/g	0.71 +/- 0.12			0.018 +/- 0.024	U	0.56 +/- 0.11		1.3 +/- 0.16		0.79 +/- 0.20
SD-DU-003	SAIC11DE	Surface	Alpha Spec.	pCi/g	0.82 +/- 0.14			0.024 +/- 0.024	U	0.81 +/- 0.14		1.7 +/- 0.20		0.99 +/- 0.24
SD-DU-003	SAIC11EC	Surface	Alpha Spec.	pCi/g	0.76 +/- 0.091			0.021 +/- 0.017	U	0.66 +/- 0.086		1.4 +/- 0.13		0.87 +/- 0.15
SD-DU-003	SAIC12E	Surface	Alpha Spec.	pCi/g	0.80 +/- 0.14			0.034 +/- 0.029	J	0.84 +/- 0.14		1.7 +/- 0.20		1.1 +/- 0.25
SD-DU-003	SAIC13E	Surface	Alpha Spec.	pCi/g	0.85 +/- 0.14			0.076 +/- 0.040	J	0.80 +/- 0.13		1.7 +/- 0.20		0.94 +/- 0.22
SD-DU-003	SAIC14E	Surface	Alpha Spec.	pCi/g	0.67 +/- 0.12			0.051 +/- 0.032	J	0.64 +/- 0.11		1.4 +/- 0.17		0.96 +/- 0.24
SD-DU-003	SAIC15E	Surface	Alpha Spec.	pCi/g	0.69 +/- 0.12			0.040 +/- 0.029	J	0.75 +/- 0.13		1.5 +/- 0.18		1.1 +/- 0.27
SD-DU-003	SAIC16E	Surface	Alpha Spec.	pCi/g	0.39 +/- 0.079			0.0070 +/- 0.012	U	0.36 +/- 0.075		0.75 +/- 0.11		0.92 +/- 0.27
SD-DU-003	SAIC17E	Surface	Alpha Spec.	pCi/g	0.71 +/- 0.12			0.027 +/- 0.023	J	0.70 +/- 0.12		1.4 +/- 0.17		0.99 +/- 0.24
SD-DU-003	SAIC18E	Surface	Alpha Spec.	pCi/g	0.50 +/- 0.096			0.014 +/- 0.016	J	0.42 +/- 0.086		0.93 +/- 0.13		0.84 +/- 0.24
SD-DU-004	SAIC1098	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.40 +/- 1.0	U	0.40 +/- 1.0	U	ND
SD-DU-004	SAIC0499S	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 1.0		1.0 +/- 1.0		ND
SD-DU-004	SAIC1099	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 0.90		2.0 +/- 0.90		ND
SD-DU-004	SAIC0400	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-004	SAIC1000	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-004	SAIC0401	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	0.050 +/- 2.0	U	0.050 +/- 2.0	U	ND
SD-DU-004	SAIC1001	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 1.0	U	1.0 +/- 1.0	U	ND
SD-DU-004	SAIC0402	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	1.0 +/- 1.0		1.0 +/- 1.0		ND
SD-DU-004	SAIC1002	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-004	SAIC0403	Surface	Gamma Spec.*	pCi/g	--	--	--	--	--	-1.8E-02 +/- 0.27	U	-1.8E-02 +/- 0.27	U	ND
SD-DU-004	SAIC01	Surface	Alpha Spec.	pCi/g	0.39 +/- 0.094			0.033 +/- 0.024	J	0.41 +/- 0.098		0.84 +/- 0.14		1.1 +/- 0.36
SD-DU-004	SAIC01D	Surface	Alpha Spec.	pCi/g	0.14 +/- 0.049			0.012 +/- 0.014	J	0.26 +/- 0.071		0.41 +/- 0.087		1.8 +/- 0.81
SD-DU-004	SAIC01C	Surface	Alpha Spec.	pCi/g	0.19 +/- 0.043			0.017 +/- 0.012	J	0.31 +/- 0.057		0.53 +/- 0.074		1.6 +/- 0.47
SD-DU-004	SAIC02	Surface	Alpha Spec.	pCi/g	0.083 +/- 0.075	U		0.016 +/- 0.058	U	0.11 +/- 0.080	J	0.21 +/- 0.12		ND
SD-DU-004	SAIC03	Surface	Alpha Spec.	pCi/g	0.38 +/- 0.18	J		0.059 +/- 0.077	U	0.31 +/- 0.16	J	0.75 +/- 0.25		0.82 +/- 0.57
SD-DU-004	SAIC04	Surface	Alpha Spec.	pCi/g	0.15 +/- 0.062	LT		0.016 +/- 0.022	U	0.12 +/- 0.055	LT	0.28 +/- 0.086		ND
SD-DU-004	SAIC05	Surface	Alpha Spec.	pCi/g	0.38 +/- 0.18	LT		0 +/- 0.079	U	0.36 +/- 0.18	LT	0.74 +/- 0.27		ND
SD-DU-004	SAIC05D	Surface	Alpha Spec.	pCi/g	0.44 +/- 0.19	LT		0.017 +/- 0.074	U	0.42 +/- 0.19	LT	0.88 +/- 0.28		ND
SD-DU-004	SAIC05C	Surface	Alpha Spec.	pCi/g	0.41 +/- 0.13	LT		0.0091 +/- 0.054	U	0.39 +/- 0.13	LT	0.81 +/- 0.19		ND
SD-DU-004	SAIC06	Surface	Alpha Spec.	pCi/g	0.31 +/- 0.097			0.023 +/- 0.026	U	0.34 +/- 0.10		0.68 +/- 0.14		1.1 +/- 0.46
SD-DU-004	SAIC07	Surface	Alpha Spec.	pCi/g	1.2 +/- 0.26			0.035 +/- 0.030	U	1.1 +/- 0.24		2.4 +/- 0.35		0.93 +/- 0.28
SD-DU-004	SAIC08	Surface	Alpha Spec.	pCi/g	0.14 +/- 0.066			0.0050 +/- 0.027	U	0.16 +/- 0.071		0.30 +/- 0.10		1.2 +/- 0.76
SD-DU-004	SAIC09E	Surface	Alpha Spec.	pCi/g	0.12 +/- 0.083	J		0	U	0.12 +/- 0.083	J	0.24 +/- 0.12		0.99 +/- 0.98
SD-DU-004	SAIC10E	Surface	Alpha Spec.	pCi/g	0.10 +/- 0.040			0 +/- 0.14	U	0.12 +/- 0.046		0.22 +/- 0.069		1.2 +/- 0.67
SD-DU-004	SAIC11E	Surface	Alpha Spec.	pCi/g	0.21 +/- 0.063			0.057 +/- 0.036	J	0.22 +/- 0.065		0.49 +/- 0.097		1.1 +/- 0.46
SD-DU-004	SAIC12E	Surface	Alpha Spec.	pCi/g	0.32 +/- 0.089			0.016 +/- 0.023	U	0.41 +/- 0.10		0.75 +/- 0.14		1.3 +/- 0.47
SD-DU-004	SAIC13E	Surface	Alpha Spec.	pCi/g	0.11 +/- 0.041			0.013 +/- 0.015	J	0.16 +/- 0.049		0.28 +/- 0.066		1.4 +/- 0.68
SD-DU-004	SAIC14E	Surface	Alpha Spec.	pCi/g	0.13 +/- 0.045	J		0 +/- 0.0046	U	0.097 +/- 0.039	J	0.23 +/- 0.060		0.75 +/- 0.40
SD-DU-004	SAIC15E	Surface	Alpha Spec.	pCi/g	0.16 +/- 0.050			0.018 +/- 0.018	J	0.45 +/- 0.089		0.63 +/- 0.10		2.9 +/- 1.1

## Total and Isotopic Uranium Results for Soil and Sediment Samples

Total and Isotopic Uranium Results for Soil and Sediment Samples											DU Presence
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)						U-238/U-234 Ratio
					U-234		U-235		U-238		Total Uranium
SD-DU-004	SAIC16E	Surface	Alpha Spec.	pCi/g	0.17 +/- 0.053		0.021 +/- 0.021	U	0.18 +/- 0.055	0.37 +/- 0.079	1.1 +/- 0.46
SD-DU-004	SAIC17E	Surface	Alpha Spec.	pCi/g	0.10 +/- 0.044		0.0070 +/- 0.016	U	0.14 +/- 0.052	0.26 +/- 0.070	1.4 +/- 0.77
SD-DU-004	SAIC18E	Surface	Alpha Spec.	pCi/g	0.28 +/- 0.075		0.011 +/- 0.016	U	0.31 +/- 0.080	0.60 +/- 0.11	1.1 +/- 0.42
SD-DU-005	SAIC1098	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	3.0 +/- 1.0	3.0 +/- 1.0	ND
SD-DU-005	SAIC0499	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.20 +/- 2.0	U 0.20 +/- 2.0	U ND
SD-DU-005	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.80 +/- 1.0	U 0.80 +/- 1.0	U ND
SD-DU-005	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 1.0	2.0 +/- 1.0	ND
SD-DU-005	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 1.0	1.0 +/- 1.0	ND
SD-DU-005	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0	2.0 +/- 2.0	ND
SD-DU-005	SAIC1001	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 2.0	U 1.0 +/- 2.0	U ND
SD-DU-005	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.40 +/- 1.0	U 0.40 +/- 1.0	U ND
SD-DU-005	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 1.0	1.0 +/- 1.0	ND
SD-DU-005	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	-1.5E-02 +/- 0.28	U -1.5E-02 +/- 0.28	U ND
SD-DU-005	SAIC01	Surface	Alpha Spec.	pCi/g	0.25 +/- 0.066		0.0060 +/- 0.012	U	0.30 +/- 0.076	0.56 +/- 0.10	1.2 +/- 0.44
SD-DU-005	SAIC02	Surface	Alpha Spec.	pCi/g	0.32 +/- 0.15	LT	0.053 +/- 0.064	J	0.50 +/- 0.19	J 0.87 +/- 0.25	ND
SD-DU-005	SAIC02D	Surface	Alpha Spec.	pCi/g	0.30 +/- 0.14		0.013 +/- 0.061	U	0.48 +/- 0.18	J 0.79 +/- 0.24	1.6 +/- 0.96
SD-DU-005	SAIC02C	Surface	Alpha Spec.	pCi/g	0.31 +/- 0.10		0.032 +/- 0.044	U	0.49 +/- 0.13	J 0.83 +/- 0.17	1.6 +/- 0.67
SD-DU-005	SAIC03	Surface	Alpha Spec.	pCi/g	0.32 +/- 0.15	J	0.047 +/- 0.066	U	0.34 +/- 0.16	LT 0.71 +/- 0.23	ND
SD-DU-005	SAIC04	Surface	Alpha Spec.	pCi/g	0.26 +/- 0.084	LT	0.023 +/- 0.025	U	0.66 +/- 0.16	LT 0.94 +/- 0.18	ND
SD-DU-005	SAIC05	Surface	Alpha Spec.	pCi/g	0.28 +/- 0.16	J	-4.0E-03 +/- 0.084	U	0.24 +/- 0.15	J 0.52 +/- 0.24	0.86 +/- 0.73
SD-DU-005	SAIC06	Surface	Alpha Spec.	pCi/g	0.23 +/- 0.083		0.026 +/- 0.028	U	0.31 +/- 0.099	0.57 +/- 0.13	1.3 +/- 0.64
SD-DU-005	SAIC07	Surface	Alpha Spec.	pCi/g	0.23 +/- 0.070		0.0030 +/- 0.015	U	0.22 +/- 0.066	0.45 +/- 0.097	0.93 +/- 0.40
SD-DU-005	SAIC08	Surface	Alpha Spec.	pCi/g	0.28 +/- 0.094		0.028 +/- 0.028	J	0.32 +/- 0.10	0.63 +/- 0.14	1.2 +/- 0.53
SD-DU-005	SAIC09E	Surface	Alpha Spec.	pCi/g	0.26 +/- 0.14	J	0	U	0.32 +/- 0.15	0.58 +/- 0.22	1.2 +/- 0.86
SD-DU-005	SAIC10E	Surface	Alpha Spec.	pCi/g	0.22 +/- 0.070		0.020 +/- 0.019	J	0.38 +/- 0.11	0.63 +/- 0.16	1.7 +/- 0.72
SD-DU-005	SAIC11E	Surface	Alpha Spec.	pCi/g	0.14 +/- 0.049		0.015 +/- 0.017	J	0.23 +/- 0.063	0.38 +/- 0.082	1.6 +/- 0.72
SD-DU-005	SAIC12E	Surface	Alpha Spec.	pCi/g	0.10 +/- 0.042		0.0030 +/- 0.011	U	0.17 +/- 0.055	0.28 +/- 0.070	1.7 +/- 0.87
SD-DU-005	SAIC12DE	Surface	Alpha Spec.	pCi/g	0.13 +/- 0.048		0.019 +/- 0.021	U	0.18 +/- 0.057	0.32 +/- 0.077	1.4 +/- 0.70
SD-DU-005	SAIC12EC	Surface	Alpha Spec.	pCi/g	0.11 +/- 0.032		0.0064 +/- 0.0097	U	0.17 +/- 0.040	0.29 +/- 0.052	1.5 +/- 0.56
SD-DU-005	SAIC13E	Surface	Alpha Spec.	pCi/g	0.13 +/- 0.046		0.013 +/- 0.017	U	0.29 +/- 0.072	0.44 +/- 0.087	2.2 +/- 0.97
SD-DU-005	SAIC14E	Surface	Alpha Spec.	pCi/g	0.17 +/- 0.054		0.0070 +/- 0.014	U	0.45 +/- 0.092	0.63 +/- 0.11	2.6 +/- 1.00
SD-DU-005	SAIC15E	Surface	Alpha Spec.	pCi/g	0.13 +/- 0.048		0.010 +/- 0.014	U	0.22 +/- 0.063	0.37 +/- 0.080	1.7 +/- 0.76
SD-DU-005	SAIC16E	Surface	Alpha Spec.	pCi/g	0.36 +/- 0.080		0.0070 +/- 0.014	U	0.44 +/- 0.089	0.80 +/- 0.12	1.2 +/- 0.37
SD-DU-005	SAIC17E	Surface	Alpha Spec.	pCi/g	0.17 +/- 0.053		0.034 +/- 0.026	J	0.52 +/- 0.10	0.72 +/- 0.12	3.1 +/- 1.2
SD-DU-005	SAIC18E	Surface	Alpha Spec.	pCi/g	0.18 +/- 0.057		0.0080 +/- 0.014	U	0.40 +/- 0.086	0.59 +/- 0.10	2.2 +/- 0.82
SD-DU-005	SAIC18E	Surface	ICP-MS	mg/kg	0.0050	U	0.0026	J	0.90	J 0.90	ND
SD-DU-006	SAIC1098	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 1.0	2.0 +/- 1.0	ND
SD-DU-006	SAIC0499	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	3.0 +/- 2.0	J 3.0 +/- 2.0	J ND
SD-DU-006	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.60 +/- 1.0	U 0.60 +/- 1.0	U ND
SD-DU-006	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0	2.0 +/- 2.0	ND
SD-DU-006	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.20 +/- 1.0	U 0.20 +/- 1.0	U ND
SD-DU-006	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 1.0	2.0 +/- 1.0	ND
SD-DU-006	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 1.0	1.0 +/- 1.0	ND
SD-DU-006	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.20 +/- 1.0	U 0.20 +/- 1.0	U ND
SD-DU-006	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.082 +/- 0.091	U 0.082 +/- 0.091	U ND
SD-DU-006	SAIC01	Surface	Alpha Spec.	pCi/g	0.73 +/- 0.15		0.024 +/- 0.019	J	0.68 +/- 0.14	1.4 +/- 0.21	0.93 +/- 0.27
SD-DU-006	SAIC02	Surface	Alpha Spec.	pCi/g	0.26 +/- 0.13	LT	0 +/- 0.062	U	0.27 +/- 0.13	J 0.53 +/- 0.19	ND
SD-DU-006	SAIC03	Surface	Alpha Spec.	pCi/g	0.63 +/- 0.22	J	0.013 +/- 0.062	U	0.52 +/- 0.19	LT 1.2 +/- 0.30	ND
SD-DU-006	SAIC04	Surface	Alpha Spec.	pCi/g	0.74 +/- 0.18	LT	0.033 +/- 0.030	J	0.67 +/- 0.16	LT 1.4 +/- 0.24	ND
SD-DU-006	SAIC05	Surface	Alpha Spec.	pCi/g	0.46 +/- 0.23	LT	0.050 +/- 0.10	U	0.50 +/- 0.24	LT 1.0 +/- 0.35	ND
SD-DU-006	SAIC06	Surface	Alpha Spec.	pCi/g	0.84 +/- 0.20		0.018 +/- 0.024	U	0.75 +/- 0.18	1.6 +/- 0.27	0.89 +/- 0.30
SD-DU-006	SAIC07	Surface	Alpha Spec.	pCi/g	0.42 +/- 0.11		0.040 +/- 0.027	J	0.41 +/- 0.11	0.87 +/- 0.16	0.98 +/- 0.37
SD-DU-006	SAIC08	Surface	Alpha Spec.	pCi/g	0.79 +/- 0.20		0.046 +/- 0.039	J	0.63 +/- 0.16	1.5 +/- 0.26	0.80 +/- 0.29
SD-DU-006	SAIC09E	Surface	Alpha Spec.	pCi/g	0.45 +/- 0.19		0	U	0.32 +/- 0.15	0.77 +/- 0.26	0.73 +/- 0.46

## Total and Isotopic Uranium Results for Soil and Sediment Samples

Total and Isotopic Uranium Results for Soil and Sediment Samples													
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)						DU Presence		
					U-234		U-235		U-238		Total Uranium	U-238/U-234 Ratio	Weight Percent U-235
SD-DU-006	SAIC10E	Surface	Alpha Spec.	pCi/g	0.21 +/- 0.069		0.023 +/- 0.020	J	0.20 +/- 0.066		0.43 +/- 0.12		0.94 +/- 0.44
SD-DU-006	SAIC11E	Surface	Alpha Spec.	pCi/g	0.36 +/- 0.094		0.058 +/- 0.040	J	0.37 +/- 0.094		0.79 +/- 0.14		1.0 +/- 0.37
SD-DU-006	SAIC12E	Surface	Alpha Spec.	pCi/g	0.44 +/- 0.092		0.035 +/- 0.027	J	0.44 +/- 0.092		0.92 +/- 0.13		1.0 +/- 0.30
SD-DU-006	SAIC13E	Surface	Alpha Spec.	pCi/g	0.34 +/- 0.079		0.0060 +/- 0.015	U	0.31 +/- 0.075		0.65 +/- 0.11		0.91 +/- 0.31
SD-DU-006	SAIC13DE	Surface	Alpha Spec.	pCi/g	0.29 +/- 0.073		0.010 +/- 0.014	U	0.29 +/- 0.073		0.59 +/- 0.10		1.0 +/- 0.36
SD-DU-006	SAIC13EC	Surface	Alpha Spec.	pCi/g	0.31 +/- 0.054		0.0081 +/- 0.010	U	0.30 +/- 0.052		0.61 +/- 0.076		0.96 +/- 0.24
SD-DU-006	SAIC14E	Surface	Alpha Spec.	pCi/g	0.76 +/- 0.12		0.032 +/- 0.024	J	0.61 +/- 0.11		1.4 +/- 0.16		0.80 +/- 0.19
SD-DU-006	SAIC14DE	Surface	Alpha Spec.	pCi/g	0.66 +/- 0.11		0.023 +/- 0.021	J	0.47 +/- 0.093		1.2 +/- 0.15		0.72 +/- 0.18
SD-DU-006	SAIC14EC	Surface	Alpha Spec.	pCi/g	0.71 +/- 0.081		0.027 +/- 0.016	J	0.53 +/- 0.071		1.3 +/- 0.11		0.75 +/- 0.13
SD-DU-006	SAIC15E	Surface	Alpha Spec.	pCi/g	0.77 +/- 0.13		0.033 +/- 0.029	J	0.74 +/- 0.13		1.5 +/- 0.19		0.96 +/- 0.23
SD-DU-006	SAIC16E	Surface	Alpha Spec.	pCi/g	0.60 +/- 0.11		0.0070 +/- 0.014	U	0.58 +/- 0.11		1.2 +/- 0.16		0.97 +/- 0.25
SD-DU-006	SAIC17E	Surface	Alpha Spec.	pCi/g	0.48 +/- 0.097		0.030 +/- 0.025	J	0.49 +/- 0.098		1.0 +/- 0.14		1.0 +/- 0.29
SD-DU-006	SAIC18E	Surface	Alpha Spec.	pCi/g	0.53 +/- 0.10		0.025 +/- 0.024	U	0.45 +/- 0.092		1.0 +/- 0.14		0.84 +/- 0.24
SD-DU-007	SAIC1098	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.30 +/- 2.0	U	0.30 +/- 2.0	U	ND
SD-DU-007	SAIC0499	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.10 +/- 1.0	U	0.10 +/- 1.0	U	ND
SD-DU-007	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	3.0 +/- 1.0		3.0 +/- 1.0		ND
SD-DU-007	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0		2.0 +/- 2.0		ND
SD-DU-007	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0		2.0 +/- 2.0		ND
SD-DU-007	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0		2.0 +/- 2.0		ND
SD-DU-007	SAIC1001	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	3.0 +/- 2.0	J	3.0 +/- 2.0	J	ND
SD-DU-007	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 2.0		1.0 +/- 2.0		ND
SD-DU-007	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 2.0		2.0 +/- 2.0		ND
SD-DU-007	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.14 +/- 0.13	U	0.14 +/- 0.13	U	ND
SD-DU-007	SAIC01	Surface	Alpha Spec.	pCi/g	1.5 +/- 0.29		0.081 +/- 0.047	J	1.3 +/- 0.26		2.8 +/- 0.39		0.88 +/- 0.25
SD-DU-007	SAIC02	Surface	Alpha Spec.	pCi/g	0.39 +/- 0.18	LT	0 +/- 0.079	U	0.52 +/- 0.22	J	0.91 +/- 0.29		ND
SD-DU-007	SAIC03	Surface	Alpha Spec.	pCi/g	0.74 +/- 0.25	J	0.090 +/- 0.086	U	0.66 +/- 0.23	LT	1.5 +/- 0.35		ND
SD-DU-007	SAIC04	Surface	Alpha Spec.	pCi/g	0.74 +/- 0.17	LT	0.034 +/- 0.031	J	0.84 +/- 0.19	LT	1.6 +/- 0.26		ND
SD-DU-007	SAIC05	Surface	Alpha Spec.	pCi/g	0.45 +/- 0.20	LT	0.046 +/- 0.081	U	0.29 +/- 0.16	J	0.79 +/- 0.27		ND
SD-DU-007	SAIC06	Surface	Alpha Spec.	pCi/g	0.52 +/- 0.14		0.029 +/- 0.031	U	0.44 +/- 0.13		0.99 +/- 0.19		0.85 +/- 0.34
SD-DU-007	SAIC07	Surface	Alpha Spec.	pCi/g	0.91 +/- 0.20		0.046 +/- 0.032	J	0.75 +/- 0.17		1.7 +/- 0.26		0.82 +/- 0.26
SD-DU-007	SAIC08	Surface	Alpha Spec.	pCi/g	0.98 +/- 0.23		0.062 +/- 0.044	J	0.82 +/- 0.20		1.9 +/- 0.31		0.84 +/- 0.28
SD-DU-007	SAIC09E	Surface	Alpha Spec.	pCi/g	0.43 +/- 0.18		0.036 +/- 0.053	U	0.44 +/- 0.19		0.90 +/- 0.30		1.0 +/- 0.62
SD-DU-007	SAIC10E	Surface	Alpha Spec.	pCi/g	0.32 +/- 0.091	J	0.023 +/- 0.020	J	0.28 +/- 0.083	J	0.63 +/- 0.16		0.89 +/- 0.36
SD-DU-007	SAIC11E	Surface	Alpha Spec.	pCi/g	0.72 +/- 0.13		0.073 +/- 0.041	J	0.78 +/- 0.14		1.6 +/- 0.20		1.1 +/- 0.28
SD-DU-007	SAIC12E	Surface	Alpha Spec.	pCi/g	0.62 +/- 0.11		0.034 +/- 0.028	J	0.75 +/- 0.13		1.4 +/- 0.17		1.2 +/- 0.30
SD-DU-007	SAIC13E	Surface	Alpha Spec.	pCi/g	0.21 +/- 0.061		0 +/- 0.0049	U	0.20 +/- 0.059		0.41 +/- 0.085		0.92 +/- 0.38
SD-DU-007	SAIC14E	Surface	Alpha Spec.	pCi/g	0.38 +/- 0.081		0.012 +/- 0.018	U	0.33 +/- 0.073		0.72 +/- 0.11		0.86 +/- 0.27
SD-DU-007	SAIC15E	Surface	Alpha Spec.	pCi/g	0.72 +/- 0.13		0.026 +/- 0.025	J	0.77 +/- 0.13		1.5 +/- 0.19		1.1 +/- 0.26
SD-DU-007	SAIC16E	Surface	Alpha Spec.	pCi/g	0.61 +/- 0.11		0.028 +/- 0.026	J	0.68 +/- 0.12		1.3 +/- 0.16		1.1 +/- 0.28
SD-DU-007	SAIC17E	Surface	Alpha Spec.	pCi/g	0.43 +/- 0.092		0.048 +/- 0.032	J	0.54 +/- 0.10		1.0 +/- 0.14		1.3 +/- 0.36
SD-DU-007	SAIC18E	Surface	Alpha Spec.	pCi/g	0.37 +/- 0.082		0.028 +/- 0.023	J	0.32 +/- 0.075		0.72 +/- 0.11		0.85 +/- 0.28
SD-DU-008	SAIC1098	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.60 +/- 1.0	U	0.60 +/- 1.0	U	ND
SD-DU-008	SAIC0499	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.20 +/- 1.0	U	0.20 +/- 1.0	U	ND
SD-DU-008	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.40 +/- 1.0	U	0.40 +/- 1.0	U	ND
SD-DU-008	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.20 +/- 1.0		0.20 +/- 1.0		ND
SD-DU-008	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.10 +/- 1.0	U	0.10 +/- 1.0	U	ND
SD-DU-008	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 1.0		1.0 +/- 1.0		ND
SD-DU-008	SAIC1001	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-008	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	1.0 +/- 1.0		1.0 +/- 1.0		ND
SD-DU-008	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.10 +/- 1.0	U	0.10 +/- 1.0	U	ND
SD-DU-008	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- -- --	--	-- -- --	--	0.14 +/- 0.13	U	0.14 +/- 0.13	U	ND
SD-DU-008	SAIC01	Surface	Alpha Spec.	pCi/g	0.17 +/- 0.051		0.010 +/- 0.012	J	0.19 +/- 0.056		0.37 +/- 0.077		1.1 +/- 0.48
SD-DU-008	SAIC02	Surface	Alpha Spec.	pCi/g	0.40 +/- 0.17	LT	0.017 +/- 0.058	U	0.66 +/- 0.22	J	1.1 +/- 0.28		ND
SD-DU-008	SAIC03	Surface	Alpha Spec.	pCi/g	0.68 +/- 0.24	J	0.044 +/- 0.081	U	0.78 +/- 0.26	LT	1.5 +/- 0.36		ND

**Total and Isotopic Uranium Results for Soil and Sediment Samples**

Total and Isotopic Uranium Results for Soil and Sediment Samples													
Sample ID	Field Sample Number	Depth (feet BLS)	Analysis Method	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)							DU Presence	
					U-234		U-235		U-238		Total Uranium		U-238/U-234 Ratio
SD-DU-008	SAIC04	Surface	Alpha Spec.	pCi/g	0.14 +/- 0.061	LT	0.0060 +/- 0.022	U	0.17 +/- 0.066	LT	0.37 +/- 0.077		ND
SD-DU-008	SAIC05	Surface	Alpha Spec.	pCi/g	0.71 +/- 0.26	LT	0.053 +/- 0.076	U	0.77 +/- 0.27	LT	1.5 +/- 0.38		ND
SD-DU-008	SAIC06	Surface	Alpha Spec.	pCi/g	0.29 +/- 0.095		0.0050 +/- 0.024	U	0.27 +/- 0.090		0.57 +/- 0.13		0.93 +/- 0.43
SD-DU-008	SAIC07	Surface	Alpha Spec.	pCi/g	0.34 +/- 0.096		0.021 +/- 0.023	U	0.49 +/- 0.12		0.85 +/- 0.16		1.4 +/- 0.54
SD-DU-008	SAIC07D	Surface	Alpha Spec.	pCi/g	0.32 +/- 0.090		0.037 +/- 0.028	J	0.38 +/- 0.10		0.73 +/- 0.14		1.2 +/- 0.47
SD-DU-008	SAIC07C	Surface	Alpha Spec.	pCi/g	0.33 +/- 0.066		0.027 +/- 0.018	J	0.43 +/- 0.077		0.78 +/- 0.10		1.3 +/- 0.35
SD-DU-008	SAIC08	Surface	Alpha Spec.	pCi/g	0.26 +/- 0.094		0.0090 +/- 0.026	U	0.21 +/- 0.081		0.48 +/- 0.13		0.79 +/- 0.42
SD-DU-008	SAIC09E	Surface	Alpha Spec.	pCi/g	0.14 +/- 0.094	J	0	U	0.053 +/- 0.054	J	0.19 +/- 0.11		0.38 +/- 0.46
SD-DU-008	SAIC10E	Surface	Alpha Spec.	pCi/g	0.70 +/- 0.17	J	0.020 +/- 0.017	J	1.2 +/- 0.27	J	1.9 +/- 0.41		1.7 +/- 0.57
SD-DU-008	SAIC11E	Surface	Alpha Spec.	pCi/g	0.38 +/- 0.086		0.044 +/- 0.030	J	0.68 +/- 0.12		1.1 +/- 0.15		1.8 +/- 0.51
SD-DU-008	SAIC12E	Surface	Alpha Spec.	pCi/g	0.47 +/- 0.098		0.027 +/- 0.024	J	0.68 +/- 0.12		1.2 +/- 0.16		1.5 +/- 0.40
SD-DU-008	SAIC13E	Surface	Alpha Spec.	pCi/g	0.27 +/- 0.072		0.010 +/- 0.015	U	0.48 +/- 0.099		0.76 +/- 0.12		1.8 +/- 0.60
SD-DU-008	SAIC14E	Surface	Alpha Spec.	pCi/g	0.11 +/- 0.045	J	0.0070 +/- 0.021	U	0.21 +/- 0.061		0.33 +/- 0.079		1.9 +/- 0.95
SD-DU-008	SAIC15E	Surface	Alpha Spec.	pCi/g	0.45 +/- 0.096		0.041 +/- 0.030	J	0.82 +/- 0.14		1.3 +/- 0.17		1.8 +/- 0.49
SD-DU-008	SAIC16E	Surface	Alpha Spec.	pCi/g	0.12 +/- 0.043		0.0080 +/- 0.013	U	0.15 +/- 0.049		0.28 +/- 0.066		1.3 +/- 0.61
SD-DU-008	SAIC17E	Surface	Alpha Spec.	pCi/g	0.41 +/- 0.087		0.030 +/- 0.024	J	0.71 +/- 0.12		1.1 +/- 0.15		1.7 +/- 0.48
SD-DU-008	SAIC18E	Surface	Alpha Spec.	pCi/g	0.17 +/- 0.054		0.0070 +/- 0.014	U	0.20 +/- 0.058		0.38 +/- 0.080		1.2 +/- 0.50
SD-DU-009	SAIC1098	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-009	SAIC1099	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	2.0 +/- 0.80		2.0 +/- 0.80		ND
SD-DU-009	SAIC0400	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	1.0 +/- 1.0		1.0 +/- 1.0		ND
SD-DU-009	SAIC1000	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	1.0 +/- 2.0		1.0 +/- 2.0		ND
SD-DU-009	SAIC0401	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	2.0 +/- 2.0		2.0 +/- 2.0		ND
SD-DU-009	SAIC1001	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	2.0 +/- 1.0		2.0 +/- 1.0		ND
SD-DU-009	SAIC0402	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	0.60 +/- 1.0	U	0.60 +/- 1.0	U	ND
SD-DU-009	SAIC1002	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	1.0 +/- 2.0		1.0 +/- 2.0		ND
SD-DU-009	SAIC0403	Surface	Gamma Spec.*	pCi/g	-- --	--	-- --	--	0.18 +/- 0.11	U	0.18 +/- 0.11	U	ND

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
Groundwater – Site Characterization Wells										
JPG-DU-01I	SAIC09	Unfiltered	Alpha Spec.	04/10/2008	pCi/L	0.41 +/- 0.19	0	0.25 +/- 0.14 J	0.67 +/- 0.24	0.61 +/- 0.44
JPG-DU-01I	SAIC09F	Filtered	Alpha Spec.	04/10/2008	pCi/L	0.21 +/- 0.14 J	0.022 +/- 0.045 U	0.095 +/- 0.093 U	0.33 +/- 0.17	ND
JPG-DU-01I	SAIC10	Unfiltered	Alpha Spec.	07/20/2008	pCi/L	0.56 +/- 0.22	0.037 +/- 0.054 U	0.26 +/- 0.14 J	0.85 +/- 0.27	0.46 +/- 0.30
JPG-DU-01I	SAIC10F	Filtered	Alpha Spec.	07/20/2008	pCi/L	0.041 +/- 0.049 J	0.017 +/- 0.034 U	0.027 +/- 0.039 U	0.085 +/- 0.071	ND
JPG-DU-01I	SAIC11	Unfiltered	Alpha Spec.	10/23/2008	pCi/L	0.24 +/- 0.11	0	0.14 U	0.45 +/- 0.20	0.87 +/- 0.58
JPG-DU-01I	SAIC11F	Filtered	Alpha Spec.	10/23/2008	pCi/L	1.0 +/- 0.29	0.032 +/- 0.045 U	0.69 +/- 0.22	1.7 +/- 0.37	0.69 +/- 0.30
JPG-DU-01I	SAIC12	Unfiltered	Alpha Spec.	02/19/2009	pCi/L	0.16 +/- 0.089 J	0	0.14 U	0.33 +/- 0.18	0.99 +/- 0.76
JPG-DU-01I	SAIC12F	Filtered	Alpha Spec.	02/19/2009	pCi/L	0.13 +/- 0.082 J	0.0080 +/- 0.030	0.073 +/- 0.061 J	0.21 +/- 0.11	0.55 +/- 0.57
JPG-DU-01D	SAIC09	Unfiltered	Alpha Spec.	04/27/2008	pCi/L	-6.0E-03 +/- 0.012 U	0.011 +/- 0.038 U	0	ND	ND
JPG-DU-01D	SAIC09F	Filtered	Alpha Spec.	04/27/2008	pCi/L	0	0	0	ND	ND
JPG-DU-01D	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	0.015 +/- 0.030 U	0	0.14 U	-1.2E-02 +/- 0.017 U	ND
JPG-DU-01D	SAIC10F	Filtered	Alpha Spec.	08/01/2008	pCi/L	0.0030 +/- 0.032 U	-7.0E-03 +/- 0.014 U	0.0080 +/- 0.030 U	ND	ND
JPG-DU-01D	SAIC11	Unfiltered	Alpha Spec.	10/24/2008	pCi/L	0.0090 +/- 0.019 U	0	0.14 U	0.0090 +/- 0.019 U	ND
JPG-DU-01D	SAIC11F	Filtered	Alpha Spec.	10/24/2008	pCi/L	0.042 +/- 0.043 J	0	0.14 U	0	0.090 U
JPG-DU-01D	SAIC12	Unfiltered	Alpha Spec.	02/19/2009	pCi/L	0.037 +/- 0.043	0.013 +/- 0.026	0.016 +/- 0.031	0.066 +/- 0.059	0.43 +/- 0.98
JPG-DU-01D	SAIC12F	Filtered	Alpha Spec.	02/19/2009	pCi/L	0.32 +/- 0.14	0.026 +/- 0.038	0.12 +/- 0.075 J	0.46 +/- 0.16	0.37 +/- 0.28
JPG-DU-02I	SAIC09	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	0.13 +/- 0.11 J	-1.5E-02 +/- 0.029 U	0.14 +/- 0.10 J	0.26 +/- 0.15 J	1.1 +/- 1.2
JPG-DU-02I	SAIC09D	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	0.12 +/- 0.095 J	0	0.10 +/- 0.087 J	0.22 +/- 0.13 J	0.85 +/- 0.98
JPG-DU-02I	SAIC09C	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	0.12 +/- 0.10 J	-7.5E-03 +/-	0.12 +/- 0.095 J	0.24 +/- 0.14 J	0.95 +/- 1.1
JPG-DU-02I	SAIC09F	Filtered	Alpha Spec.	04/14/2008	pCi/L	0.18 +/- 0.12 J	0.0070 +/- 0.053 U	0.018 +/- 0.036 U	0.20 +/- 0.13 J	ND
JPG-DU-02I	SAIC09DF	Filtered	Alpha Spec.	04/14/2008	pCi/L	0.051 +/- 0.059 J	0.021 +/- 0.042 U	0.056 +/- 0.072 J	0.13 +/- 0.10 J	1.1 +/- 1.9
JPG-DU-02I	SAIC09FC	Filtered	Alpha Spec.	04/14/2008	pCi/L	0.076 +/- 0.088 J	0.016 +/- 0.048 U	0.026 +/- 0.054 J	0.16 +/- 0.12 J	0.33 +/- 0.80
JPG-DU-02I	SAIC10	Unfiltered	Alpha Spec.	07/31/2008	pCi/L	0.053 +/- 0.063 J	0	0.14 U	0.053 +/- 0.062 J	1.0 +/- 1.7
JPG-DU-02I	SAIC10F	Filtered	Alpha Spec.	07/31/2008	pCi/L	0.071 +/- 0.072 U	-8.0E-03 +/- 0.015 U	0.055 +/- 0.064 U	ND	ND
JPG-DU-02I	SAIC11	Unfiltered	Alpha Spec.	10/23/2008	pCi/L	0.085 +/- 0.062 J	0	0.14 U	0.046 +/- 0.042 J	0.13 +/- 0.15
JPG-DU-02I	SAIC11F	Filtered	Alpha Spec.	10/23/2008	pCi/L	0.080 +/- 0.061 J	0	0.14 U	0.063 +/- 0.050 J	0.14 +/- 0.16
JPG-DU-02I	SAIC12	Unfiltered	Alpha Spec.	02/19/2009	pCi/L	0.052 +/- 0.048 J	-5.0E-03 +/- 0.010	0.093 +/- 0.065 J	0.14 +/- 0.081	1.8 +/- 2.1
JPG-DU-02I	SAIC12F	Filtered	Alpha Spec.	02/19/2009	pCi/L	0.15 +/- 0.083 J	0.012 +/- 0.025	0.099 +/- 0.066 J	0.26 +/- 0.11	0.66 +/- 0.58
JPG-DU-02D	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	6.1 +/- 1.5	0.13 +/- 0.11 J	3.3 +/- 0.84	9.5 +/- 1.7	0.54 +/- 0.19
JPG-DU-02D	SAIC10	Unfiltered	Alpha Spec.	07/27/2008	pCi/L	8.8 +/- 2.1	0.25 +/- 0.17 J	4.3 +/- 1.1	13 +/- 2.4	0.49 +/- 0.17
JPG-DU-02D	SAIC10F	Filtered	Alpha Spec.	07/27/2008	pCi/L	8.1 +/- 1.9	0.17 +/- 0.12 J	3.7 +/- 0.93	12 +/- 2.1	0.46 +/- 0.16
JPG-DU-02D	SAIC11	Unfiltered	Alpha Spec.	10/24/2008	pCi/L	11 +/- 2.5	0.23 +/- 0.13 J	5.2 +/- 1.2	17 +/- 2.8	0.47 +/- 0.15
JPG-DU-02D	SAIC11F	Filtered	Alpha Spec.	10/24/2008	pCi/L	11 +/- 2.5	0.22 +/- 0.12 J	5.2 +/- 1.2	17 +/- 2.8	0.46 +/- 0.15
JPG-DU-02D	SAIC12	Unfiltered	Alpha Spec.	02/18/2009	pCi/L	15 +/- 3.3	0.27 +/- 0.14 J	5.6 +/- 1.3	21 +/- 3.5	0.38 +/- 0.12
JPG-DU-03O	SAIC09	Unfiltered	Alpha Spec.	04/09/2008	pCi/L	1.4 +/- 0.44	0.047 +/- 0.067 U	1.3 +/- 0.42	2.7 +/- 0.61	0.93 +/- 0.42
JPG-DU-03O	SAIC09F	Filtered	Alpha Spec.	04/09/2008	pCi/L	1.3 +/- 0.41	0.047 +/- 0.067 U	0.81 +/- 0.30	2.1 +/- 0.52	0.64 +/- 0.32
JPG-DU-03O	SAIC10	Unfiltered	Alpha Spec.	07/15/2008	pCi/L	0.99 +/- 0.32	0.034 +/- 0.050 U	0.70 +/- 0.25	1.7 +/- 0.41	0.71 +/- 0.34
JPG-DU-03O	SAIC10F	Filtered	Alpha Spec.	07/15/2008	pCi/L	0.97 +/- 0.32	0.053 +/- 0.063 J	0.61 +/- 0.23	1.6 +/- 0.40	0.63 +/- 0.32
JPG-DU-03O	SAIC11	Unfiltered	Alpha Spec.	10/13/2008	pCi/L	1.3 +/- 0.36	0.079 +/- 0.069 J	0.74 +/- 0.24	2.1 +/- 0.43	0.59 +/- 0.25
JPG-DU-03O	SAIC11D	Unfiltered	Alpha Spec.	10/13/2008	pCi/L	0.16 +/- 0.086 J	0	0.14 U	0.079 +/- 0.058 J	0.24 +/- 0.17
JPG-DU-03O	SAIC11C	Unfiltered	Alpha Spec.	10/13/2008	pCi/L	0.22 +/- 0.22 J	0.063 +/- 0.10 U	0.12 +/- 0.15 J	0.48 +/- 0.30	0.53 +/- 0.86
JPG-DU-03O	SAIC11F	Filtered	Alpha Spec.	10/13/2008	pCi/L	1.2 +/- 0.34	0.076 +/- 0.066 J	0.76 +/- 0.24	2.0 +/- 0.42	0.65 +/- 0.28
JPG-DU-03O	SAIC11DF	Filtered	Alpha Spec.	10/13/2008	pCi/L	0.99 +/- 0.29	0.040 +/- 0.048 U	0.55 +/- 0.19	1.6 +/- 0.34	0.55 +/- 0.25
JPG-DU-03O	SAIC11FC	Filtered	Alpha Spec.	10/13/2008	pCi/L	1.1 +/- 0.31	0.052 +/- 0.057 U	0.63 +/- 0.21	1.7 +/- 0.38	0.59 +/- 0.26
JPG-DU-03O	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	1.6 +/- 0.47	0.060 +/- 0.072 J	0.95 +/- 0.33	2.6 +/- 0.58	0.61 +/- 0.28
JPG-DU-03O	SAIC12F	Filtered	Alpha Spec.	02/17/2009	pCi/L	0.74 +/- 0.27	0.018 +/- 0.036	0.55 +/- 0.22	1.3 +/- 0.34	0.75 +/- 0.40
JPG-DU-03I	SAIC09	Unfiltered	Alpha Spec.	04/09/2008	pCi/L	2.0 +/- 0.58	0	1.4 +/- 0.44	3.4 +/- 0.73	0.68 +/- 0.30
JPG-DU-03I	SAIC09F	Filtered	Alpha Spec.	04/09/2008	pCi/L	2.0 +/- 0.58	0.089 +/- 0.093 J	1.7 +/- 0.52	3.9 +/- 0.78	0.86 +/- 0.35
JPG-DU-03I	SAIC10	Unfiltered	Alpha Spec.	07/31/2008	pCi/L	2.1 +/- 0.60	0.079 +/- 0.083 J	1.6 +/- 0.49	3.8 +/- 0.78	0.77 +/- 0.32
JPG-DU-03I	SAIC10F	Filtered	Alpha Spec.	07/31/2008	pCi/L	1.7 +/- 0.50	0.056 +/- 0.067 J	0.71 +/- 0.26	2.5 +/- 0.57	0.41 +/- 0.19



**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
JPG-DU-03I	SAIC11	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	0.22 +/- 0.11	0 0.14 U	0.074 +/- 0.058 J	0.30 +/- 0.18	0.33 +/- 0.31
JPG-DU-03I	SAIC11F	Filtered	Alpha Spec.	10/27/2008	pCi/L	0.17 +/- 0.097 J	-6.0E-03 +/- 0.011 U	0.12 +/- 0.083 J	0.29 +/- 0.13	0.71 +/- 0.62
JPG-DU-03I	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	0.56 +/- 0.23	0.051 +/- 0.072	0.21 +/- 0.12 J	0.81 +/- 0.27	0.37 +/- 0.27
JPG-DU-03I	SAIC12F	Filtered	Alpha Spec.	02/17/2009	pCi/L	0.59 +/- 0.20	0 0.14	0.24 +/- 0.11	0.83 +/- 0.27	0.40 +/- 0.23
JPG-DU-04O	SAIC09	Unfiltered	Alpha Spec.	04/15/2008	pCi/L	0.23 +/- 0.14 J	0.0080 +/- 0.058 U	0.25 +/- 0.15 J	0.49 +/- 0.21	1.1 +/- 0.92
JPG-DU-04O	SAIC09F	Filtered	Alpha Spec.	04/15/2008	pCi/L	0.40 +/- 0.19	0.022 +/- 0.045 U	0.22 +/- 0.13 J	0.64 +/- 0.24	0.54 +/- 0.42
JPG-DU-04O	SAIC10	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.17 +/- 0.11 J	0.019 +/- 0.038 U	0.17 +/- 0.11 J	0.35 +/- 0.16	0.99 +/- 0.90
JPG-DU-04O	SAIC10D	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.23 +/- 0.13 J	0 0.14 U	0.20 +/- 0.12 J	0.43 +/- 0.22	0.86 +/- 0.71
JPG-DU-04O	SAIC10C	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.19 +/- 0.12 J	0.018 +/- 0.086 U	0.18 +/- 0.11 J	0.38 +/- 0.19	0.94 +/- 0.82
JPG-DU-04O	SAIC10F	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.16 +/- 0.10 J	0.017 +/- 0.035 U	0.084 +/- 0.071 J	0.26 +/- 0.13	0.54 +/- 0.58
JPG-DU-04O	SAIC10DF	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.12 +/- 0.093 J	0 0.14 U	0.093 +/- 0.079 J	0.21 +/- 0.18	0.79 +/- 0.91
JPG-DU-04O	SAIC10FC	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.14 +/- 0.096 J	0.016 +/- 0.085 U	0.088 +/- 0.075 J	0.24 +/- 0.15	0.65 +/- 0.72
JPG-DU-04O	SAIC11	Unfiltered	Alpha Spec.	10/22/2008	pCi/L	0.21 +/- 0.10	0.012 +/- 0.024 U	0.15 +/- 0.083 J	0.37 +/- 0.13	0.72 +/- 0.52
JPG-DU-04O	SAIC11F	Filtered	Alpha Spec.	10/22/2008	pCi/L	0.053 +/- 0.049 J	0 0.14 U	0.091 +/- 0.064 J	0.14 +/- 0.16	1.7 +/- 2.0
JPG-DU-04O	SAIC12	Unfiltered	Alpha Spec.	02/19/2009	pCi/L	0.25 +/- 0.12	0 0.14	0.20 +/- 0.11 J	0.45 +/- 0.21	0.81 +/- 0.58
JPG-DU-04O	SAIC12F	Filtered	Alpha Spec.	02/19/2009	pCi/L	0.16 +/- 0.095 J	0.050 +/- 0.059	0.20 +/- 0.11 J	0.41 +/- 0.15	1.3 +/- 0.99
JPG-DU-04I	SAIC09	Unfiltered	Alpha Spec.	04/15/2008	pCi/L	3.3 +/- 0.86	0.062 +/- 0.074 J	1.6 +/- 0.47	5.0 +/- 0.98	0.47 +/- 0.18
JPG-DU-04I	SAIC09F	Filtered	Alpha Spec.	04/15/2008	pCi/L	3.1 +/- 0.80	0.081 +/- 0.085 J	1.5 +/- 0.44	4.6 +/- 0.92	0.48 +/- 0.19
JPG-DU-04I	SAIC10	Unfiltered	Alpha Spec.	07/15/2008	pCi/L	2.1 +/- 0.58	0.055 +/- 0.066 J	1.1 +/- 0.35	3.2 +/- 0.68	0.53 +/- 0.22
JPG-DU-04I	SAIC10F	Filtered	Alpha Spec.	07/15/2008	pCi/L	1.6 +/- 0.47	0.019 +/- 0.039 U	0.51 +/- 0.21	2.1 +/- 0.51	0.33 +/- 0.17
JPG-DU-04I	SAIC11	Unfiltered	Alpha Spec.	10/23/2008	pCi/L	1.6 +/- 0.43	0.047 +/- 0.049 J	0.78 +/- 0.24	2.5 +/- 0.49	0.48 +/- 0.19
JPG-DU-04I	SAIC11F	Filtered	Alpha Spec.	10/23/2008	pCi/L	1.4 +/- 0.37	-4.0E-03 +/- 0.0090 U	0.78 +/- 0.23	2.2 +/- 0.44	0.56 +/- 0.23
JPG-DU-04I	SAIC12	Unfiltered	Alpha Spec.	02/19/2009	pCi/L	1.1 +/- 0.31	0.0080 +/- 0.028	0.42 +/- 0.16	1.5 +/- 0.35	0.39 +/- 0.19
JPG-DU-04I	SAIC12F	Filtered	Alpha Spec.	02/19/2009	pCi/L	0.97 +/- 0.30	0.043 +/- 0.058	0.55 +/- 0.20	1.6 +/- 0.36	0.57 +/- 0.27
JPG-DU-04D	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.14 +/- 0.096 J	0.035 +/- 0.051 U	0.21 +/- 0.12 J	0.39 +/- 0.16	1.5 +/- 1.3
JPG-DU-04D	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0.12 +/- 0.091 J	0	0.057 +/- 0.059 J	0.18 +/- 0.11	0.46 +/- 0.58
JPG-DU-04D	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	1.2 +/- 0.38	0.038 +/- 0.054 U	0.58 +/- 0.23	1.8 +/- 0.44	0.49 +/- 0.25
JPG-DU-04D	SAIC10F	Filtered	Alpha Spec.	08/01/2008	pCi/L	0.21 +/- 0.12 J	0 0.14 U	0.15 +/- 0.10 J	0.36 +/- 0.21	0.71 +/- 0.63
JPG-DU-04D	SAIC11	Unfiltered	Alpha Spec.	10/24/2008	pCi/L	0.67 +/- 0.22	0 0.14 U	0.28 +/- 0.12	0.95 +/- 0.28	0.42 +/- 0.23
JPG-DU-04D	SAIC11F	Filtered	Alpha Spec.	10/24/2008	pCi/L	0.46 +/- 0.17	0.013 +/- 0.025 U	0.34 +/- 0.14	0.81 +/- 0.22	0.75 +/- 0.41
JPG-DU-04D	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	0.40 +/- 0.15	0.043 +/- 0.051	0.31 +/- 0.13	0.75 +/- 0.20	0.78 +/- 0.44
JPG-DU-04D	SAIC12F	Filtered	Alpha Spec.	02/17/2009	pCi/L	0.44 +/- 0.16	0 0.14	0.26 +/- 0.11	0.70 +/- 0.24	0.58 +/- 0.33
JPG-DU-05I	SAIC09	Unfiltered	Alpha Spec.	04/15/2008	pCi/L	2.9 +/- 0.77	0.089 +/- 0.093 J	1.3 +/- 0.42	4.3 +/- 0.88	0.47 +/- 0.19
JPG-DU-05I	SAIC09F	Filtered	Alpha Spec.	04/15/2008	pCi/L	2.9 +/- 0.76	0.084 +/- 0.088 J	1.7 +/- 0.51	4.7 +/- 0.92	0.60 +/- 0.24
JPG-DU-05I	SAIC10	Unfiltered	Alpha Spec.	07/31/2008	pCi/L	2.9 +/- 0.76	0.072 +/- 0.076 J	1.3 +/- 0.40	4.3 +/- 0.87	0.45 +/- 0.18
JPG-DU-05I	SAIC10F	Filtered	Alpha Spec.	07/31/2008	pCi/L	2.4 +/- 0.66	0.036 +/- 0.052 U	1.2 +/- 0.38	3.7 +/- 0.76	0.51 +/- 0.21
JPG-DU-05I	SAIC11	Unfiltered	Alpha Spec.	10/08/2008	pCi/L	2.1 +/- 0.54	0.048 +/- 0.051 J	1.2 +/- 0.33	3.3 +/- 0.63	0.55 +/- 0.21
JPG-DU-05I	SAIC11F	Filtered	Alpha Spec.	10/08/2008	pCi/L	2.6 +/- 0.66	0.0030 +/- 0.030 U	1.2 +/- 0.33	3.8 +/- 0.74	0.44 +/- 0.17
JPG-DU-05I	SAIC12	Unfiltered	Alpha Spec.	02/16/2009	pCi/L	1.6 +/- 0.46	0.052 +/- 0.062 J	0.86 +/- 0.29	2.5 +/- 0.54	0.54 +/- 0.24
JPG-DU-05I	SAIC12F	Filtered	Alpha Spec.	02/16/2009	pCi/L	1.7 +/- 0.45	0.026 +/- 0.037	0.61 +/- 0.21	2.3 +/- 0.49	0.36 +/- 0.16
JPG-DU-05D	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	1.8 +/- 0.51	0.10 +/- 0.090 J	0.78 +/- 0.27	2.7 +/- 0.59	0.43 +/- 0.19
JPG-DU-05D	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	1.5 +/- 0.44	0.017 +/- 0.035 U	0.82 +/- 0.28	2.3 +/- 0.52	0.55 +/- 0.25
JPG-DU-05D	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	1.6 +/- 0.48	0.051 +/- 0.071 U	0.94 +/- 0.32	2.6 +/- 0.58	0.58 +/- 0.26
JPG-DU-05D	SAIC11	Unfiltered	Alpha Spec.	10/24/2008	pCi/L	1.6 +/- 0.41	0.042 +/- 0.050 U	0.87 +/- 0.26	2.5 +/- 0.49	0.56 +/- 0.22
JPG-DU-05D	SAIC11F	Filtered	Alpha Spec.	10/24/2008	pCi/L	1.6 +/- 0.42	0.035 +/- 0.042 J	0.88 +/- 0.26	2.5 +/- 0.50	0.56 +/- 0.22
JPG-DU-05D	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	1.4 +/- 0.40	-6.0E-03 +/- 0.011	0.71 +/- 0.24	2.1 +/- 0.47	0.50 +/- 0.22
JPG-DU-05D	SAIC12F	Filtered	Alpha Spec.	02/17/2009	pCi/L	1.3 +/- 0.37	0.024 +/- 0.034	0.74 +/- 0.23	2.1 +/- 0.43	0.56 +/- 0.23
JPG-DU-06O	SAIC09	Unfiltered	Alpha Spec.	04/15/2008	pCi/L	1.4 +/- 0.42	0.11 +/- 0.10 J	1.2 +/- 0.38	2.6 +/- 0.58	0.87 +/- 0.39
JPG-DU-06O	SAIC09F	Filtered	Alpha Spec.	04/15/2008	pCi/L	1.3 +/- 0.42	0	0.80 +/- 0.29	2.1 +/- 0.51	0.61 +/- 0.30
JPG-DU-06O	SAIC10	Unfiltered	Alpha Spec.	07/16/2008	pCi/L	1.7 +/- 0.49	0.057 +/- 0.068 J	1.1 +/- 0.36	2.8 +/- 0.61	0.67 +/- 0.29
JPG-DU-06O	SAIC10F	Filtered	Alpha Spec.	07/16/2008	pCi/L	1.5 +/- 0.44	0.071 +/- 0.075 J	0.85 +/- 0.29	2.4 +/- 0.53	0.57 +/- 0.26

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
JPG-DU-06O	SAIC11	Unfiltered	Alpha Spec.	10/13/2008	pCi/L	1.6 +/- 0.44	0.046 +/- 0.054 U	1.0 +/- 0.30	2.7 +/- 0.53	0.63 +/- 0.25
JPG-DU-06O	SAIC11F	Filtered	Alpha Spec.	10/13/2008	pCi/L	1.6 +/- 0.43	0.038 +/- 0.045 J	1.1 +/- 0.32	2.8 +/- 0.54	0.70 +/- 0.28
JPG-DU-06O	SAIC12	Unfiltered	Alpha Spec.	02/18/2009	pCi/L	2.0 +/- 0.52	0.067 +/- 0.063 J	1.7 +/- 0.44	3.8 +/- 0.68	0.82 +/- 0.30
JPG-DU-06O	SAIC12F	Filtered	Alpha Spec.	02/18/2009	pCi/L	2.4 +/- 0.61	0.071 +/- 0.062 J	1.5 +/- 0.40	4.0 +/- 0.73	0.61 +/- 0.22
JPG-DU-06I	SAIC09	Unfiltered	Alpha Spec.	04/20/2008	pCi/L	1.0 +/- 0.33	0.018 +/- 0.036 U	0.67 +/- 0.24	1.7 +/- 0.41	0.65 +/- 0.32
JPG-DU-06I	SAIC09F	Filtered	Alpha Spec.	04/20/2008	pCi/L	1.1 +/- 0.35	0.019 +/- 0.038 U	0.55 +/- 0.22	1.6 +/- 0.41	0.51 +/- 0.26
JPG-DU-06I	SAIC10	Unfiltered	Alpha Spec.	07/30/2008	pCi/L	0.80 +/- 0.28	0.053 +/- 0.063 J	0.35 +/- 0.16	1.2 +/- 0.33	0.44 +/- 0.26
JPG-DU-06I	SAIC10F	Filtered	Alpha Spec.	07/30/2008	pCi/L	0.69 +/- 0.25	0 0.14 U	0.47 +/- 0.20	1.2 +/- 0.34	0.68 +/- 0.37
JPG-DU-06I	SAIC11	Unfiltered	Alpha Spec.	10/13/2008	pCi/L	0.80 +/- 0.25	0.039 +/- 0.046 J	0.33 +/- 0.14	1.2 +/- 0.29	0.42 +/- 0.22
JPG-DU-06I	SAIC11F	Filtered	Alpha Spec.	10/13/2008	pCi/L	0.75 +/- 0.24	0.013 +/- 0.025 U	0.48 +/- 0.18	1.2 +/- 0.30	0.65 +/- 0.31
JPG-DU-06I	SAIC12	Unfiltered	Alpha Spec.	02/18/2009	pCi/L	0.67 +/- 0.21	0.023 +/- 0.033	0.28 +/- 0.12	0.98 +/- 0.24	0.42 +/- 0.22
JPG-DU-06I	SAIC12F	Filtered	Alpha Spec.	02/18/2009	pCi/L	0.60 +/- 0.21	0.0080 +/- 0.029	0.46 +/- 0.17	1.1 +/- 0.27	0.78 +/- 0.40
JPG-DU-06D	SAIC09	Unfiltered	Alpha Spec.	04/21/2008	pCi/L	6.8 +/- 1.6	0.11 +/- 0.099 J	3.5 +/- 0.91	10 +/- 1.9	0.52 +/- 0.18
JPG-DU-06D	SAIC09F	Filtered	Alpha Spec.	04/21/2008	pCi/L	6.8 +/- 1.7	0.25 +/- 0.15 J	2.8 +/- 0.74	9.9 +/- 1.8	0.41 +/- 0.15
JPG-DU-06D	SAIC10	Unfiltered	Alpha Spec.	07/30/2008	pCi/L	2.0 +/- 0.55	0.052 +/- 0.062 J	0.83 +/- 0.28	2.9 +/- 0.62	0.42 +/- 0.18
JPG-DU-06D	SAIC10F	Filtered	Alpha Spec.	07/30/2008	pCi/L	3.1 +/- 0.80	0.17 +/- 0.12 J	1.2 +/- 0.38	4.5 +/- 0.89	0.40 +/- 0.16
JPG-DU-06D	SAIC11	Unfiltered	Alpha Spec.	10/13/2008	pCi/L	1.8 +/- 0.46	0.023 +/- 0.033 U	1.0 +/- 0.29	2.8 +/- 0.54	0.57 +/- 0.22
JPG-DU-06D	SAIC11F	Filtered	Alpha Spec.	10/13/2008	pCi/L	3.3 +/- 0.79	0.082 +/- 0.067 J	1.5 +/- 0.39	4.9 +/- 0.89	0.45 +/- 0.16
JPG-DU-06D	SAIC12	Unfiltered	Alpha Spec.	02/18/2009	pCi/L	0.75 +/- 0.23	0.047 +/- 0.050 J	0.34 +/- 0.14	1.1 +/- 0.28	0.45 +/- 0.23
JPG-DU-06D	SAIC12F	Filtered	Alpha Spec.	02/18/2009	pCi/L	0.71 +/- 0.23	0.0080 +/- 0.027	0.31 +/- 0.13	1.0 +/- 0.26	0.44 +/- 0.23
JPG-DU-07I	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	1.8 +/- 0.51	0.036 +/- 0.053 U	0.75 +/- 0.27	2.6 +/- 0.58	0.42 +/- 0.19
JPG-DU-07I	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	1.2 +/- 0.36	0.030 +/- 0.043 U	0.38 +/- 0.16	1.6 +/- 0.40	0.30 +/- 0.15
JPG-DU-07I	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	0.99 +/- 0.32	0.010 +/- 0.038 U	0.44 +/- 0.19	1.4 +/- 0.37	0.44 +/- 0.24
JPG-DU-07I	SAIC11	Unfiltered	Alpha Spec.	10/24/2008	pCi/L	1.0 +/- 0.30	0.037 +/- 0.044 J	0.61 +/- 0.20	1.7 +/- 0.36	0.60 +/- 0.27
JPG-DU-07I	SAIC11F	Filtered	Alpha Spec.	10/24/2008	pCi/L	1.2 +/- 0.34	0.053 +/- 0.055 U	0.48 +/- 0.17	1.8 +/- 0.39	0.39 +/- 0.17
JPG-DU-07I	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	1.3 +/- 0.34	-5.0E-03 +/- 0.010	0.62 +/- 0.20	1.9 +/- 0.40	0.50 +/- 0.21
JPG-DU-07I	SAIC12F	Filtered	Alpha Spec.	02/17/2009	pCi/L	0.65 +/- 0.21	0 0.14	0.25 +/- 0.11	0.90 +/- 0.27	0.39 +/- 0.21
JPG-DU-07D	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.057 +/- 0.059 J	-7.0E-03 +/- 0.014 U	0.028 +/- 0.041 U	0.078 +/- 0.073 U	ND
JPG-DU-07D	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0 U	0.019 +/- 0.038 U	0.030 +/- 0.044 U	ND U	ND
JPG-DU-07D	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	0.014 +/- 0.028 U	0 0.14 U	0.0080 +/- 0.030 U	ND U	ND
JPG-DU-07D	SAIC11	Unfiltered	Alpha Spec.	10/24/2008	pCi/L	0.088 +/- 0.059 J	-4.0E-03 +/- 0.0090 U	0.018 +/- 0.025 U	0.10 +/- 0.065	ND
JPG-DU-07D	SAIC11F	Filtered	Alpha Spec.	10/24/2008	pCi/L	0.016 +/- 0.029 U	0 0.14 U	0.016 +/- 0.029 U	ND U	ND
JPG-DU-07D	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	0.030 +/- 0.040	0.0020 +/- 0.027	0.028 +/- 0.033 J	0.060 +/- 0.058	0.93 +/- 1.7
JPG-DU-07D	SAIC12F	Filtered	Alpha Spec.	02/17/2009	pCi/L	0.062 +/- 0.052 J	0 0.14	0.051 +/- 0.047 J	0.11 +/- 0.15	0.82 +/- 1.0
JPG-DU-08I	SAIC09	Unfiltered	Alpha Spec.	04/24/2008	pCi/L	1.1 +/- 0.35	0.016 +/- 0.033 U	0.63 +/- 0.23	1.8 +/- 0.42	0.56 +/- 0.27
JPG-DU-08I	SAIC09F	Filtered	Alpha Spec.	04/24/2008	pCi/L	1.3 +/- 0.40	0.052 +/- 0.062 J	0.67 +/- 0.24	2.1 +/- 0.47	0.50 +/- 0.24
JPG-DU-08I	SAIC10	Unfiltered	Alpha Spec.	07/27/2008	pCi/L	1.8 +/- 0.51	-7.0E-03 +/- 0.014 U	0.73 +/- 0.26	2.5 +/- 0.58	0.40 +/- 0.18
JPG-DU-08I	SAIC10F	Filtered	Alpha Spec.	07/27/2008	pCi/L	1.4 +/- 0.43	0.017 +/- 0.035 U	0.42 +/- 0.18	1.9 +/- 0.46	0.29 +/- 0.15
JPG-DU-08I	SAIC11	Unfiltered	Alpha Spec.	10/24/2008	pCi/L	2.5 +/- 0.63	0 0.14 U	0.76 +/- 0.24	3.2 +/- 0.69	0.30 +/- 0.12
JPG-DU-08I	SAIC11F	Filtered	Alpha Spec.	10/24/2008	pCi/L	2.1 +/- 0.53	0.031 +/- 0.044 U	0.61 +/- 0.20	2.7 +/- 0.57	0.29 +/- 0.12
JPG-DU-08I	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	2.3 +/- 0.59	0.048 +/- 0.050 J	0.53 +/- 0.18	2.9 +/- 0.61	0.22 +/- 0.096
JPG-DU-08I	SAIC12F	Filtered	Alpha Spec.	02/17/2009	pCi/L	2.0 +/- 0.52	0.014 +/- 0.028	0.54 +/- 0.19	2.5 +/- 0.56	0.27 +/- 0.12
JPG-DU-08D	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	2.1 +/- 0.58	0.10 +/- 0.094 J	0.82 +/- 0.28	3.0 +/- 0.65	0.39 +/- 0.17
JPG-DU-08D	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	2.2 +/- 0.61	0.018 +/- 0.037 U	0.86 +/- 0.29	3.1 +/- 0.68	0.39 +/- 0.17
JPG-DU-08D	SAIC10	Unfiltered	Alpha Spec.	07/27/2008	pCi/L	1.6 +/- 0.47	0.074 +/- 0.077 J	0.67 +/- 0.25	2.3 +/- 0.53	0.42 +/- 0.20
JPG-DU-08D	SAIC10F	Filtered	Alpha Spec.	07/27/2008	pCi/L	1.6 +/- 0.46	-7.0E-03 +/- 0.015 U	0.44 +/- 0.19	2.0 +/- 0.50	0.28 +/- 0.15
JPG-DU-08D	SAIC11	Unfiltered	Alpha Spec.	10/24/2008	pCi/L	2.0 +/- 0.51	0.023 +/- 0.034 U	0.90 +/- 0.27	2.9 +/- 0.58	0.45 +/- 0.18
JPG-DU-08D	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	3.0 +/- 0.73	0.054 +/- 0.056	1.1 +/- 0.31	4.2 +/- 0.80	0.36 +/- 0.13
JPG-DU-09O	SAIC09	Unfiltered	Alpha Spec.	04/13/2008	pCi/L	1.8 +/- 0.53	0.046 +/- 0.067 U	1.8 +/- 0.54	3.7 +/- 0.76	1.0 +/- 0.43
JPG-DU-09O	SAIC09F	Filtered	Alpha Spec.	04/13/2008	pCi/L	1.8 +/- 0.55	0.084 +/- 0.11 U	1.4 +/- 0.46	3.3 +/- 0.72	0.79 +/- 0.35
JPG-DU-09O	SAIC10	Unfiltered	Alpha Spec.	07/20/2008	pCi/L	0.59 +/- 0.22	0.035 +/- 0.050 U	0.50 +/- 0.20	1.1 +/- 0.30	0.85 +/- 0.47

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
JPG-DU-090	SAIC10F	Filtered	Alpha Spec.	07/20/2008	pCi/L	0.64 +/- 0.25	0.058 +/- 0.069 J	0.75 +/- 0.28	1.5 +/- 0.37	1.2 +/- 0.62
JPG-DU-090	SAIC11	Unfiltered	Alpha Spec.	10/14/2008	pCi/L	1.0 +/- 0.29	0.068 +/- 0.060 J	0.80 +/- 0.24	1.9 +/- 0.38	0.78 +/- 0.33
JPG-DU-090	SAIC11F	Filtered	Alpha Spec.	10/14/2008	pCi/L	1.8 +/- 0.46	0.049 +/- 0.052 J	0.99 +/- 0.29	2.8 +/- 0.55	0.56 +/- 0.22
JPG-DU-090	SAIC12	Unfiltered	Alpha Spec.	02/18/2009	pCi/L	0.93 +/- 0.28	0.025 +/- 0.036	0.79 +/- 0.25	1.7 +/- 0.37	0.86 +/- 0.37
JPG-DU-090	SAIC12F	Filtered	Alpha Spec.	02/18/2009	pCi/L	0.88 +/- 0.27	0.012 +/- 0.025	0.80 +/- 0.25	1.7 +/- 0.37	0.92 +/- 0.40
JPG-DU-091	SAIC09	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	1.3 +/- 0.42	0.0070 +/- 0.052 U	0.40 +/- 0.19	1.7 +/- 0.46	0.30 +/- 0.17
JPG-DU-091	SAIC09D	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	1.4 +/- 0.43	0.023 +/- 0.047 U	0.33 +/- 0.17 J	1.7 +/- 0.47	0.25 +/- 0.15
JPG-DU-091	SAIC09C	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	1.3 +/- 0.43	0.016 +/- 0.049 U	0.36 +/- 0.18 J	1.7 +/- 0.47	0.27 +/- 0.16
JPG-DU-091	SAIC09F	Filtered	Alpha Spec.	04/14/2008	pCi/L	0.86 +/- 0.31	0	0.33 +/- 0.17 J	1.2 +/- 0.35	0.38 +/- 0.24
JPG-DU-091	SAIC09DF	Filtered	Alpha Spec.	04/14/2008	pCi/L	1.1 +/- 0.37	0.031 +/- 0.074 U	0.68 +/- 0.27	1.8 +/- 0.46	0.64 +/- 0.33
JPG-DU-091	SAIC09FC	Filtered	Alpha Spec.	04/14/2008	pCi/L	0.95 +/- 0.34	0.016 +/-	0.42 +/- 0.22	1.4 +/- 0.41	0.45 +/- 0.28
JPG-DU-091	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	0.84 +/- 0.29	0.018 +/- 0.037 U	0.50 +/- 0.20	1.4 +/- 0.36	0.59 +/- 0.32
JPG-DU-091	SAIC10F	Filtered	Alpha Spec.	08/01/2008	pCi/L	0.78 +/- 0.28	0.019 +/- 0.038 U	0.42 +/- 0.19	1.2 +/- 0.34	0.55 +/- 0.31
JPG-DU-091	SAIC11	Unfiltered	Alpha Spec.	10/22/2008	pCi/L	0.32 +/- 0.13	0.019 +/- 0.035 U	0.21 +/- 0.099	0.55 +/- 0.17	0.64 +/- 0.41
JPG-DU-091	SAIC11F	Filtered	Alpha Spec.	10/22/2008	pCi/L	0.46 +/- 0.17	0.024 +/- 0.035 U	0.24 +/- 0.11	0.72 +/- 0.20	0.52 +/- 0.31
JPG-DU-091	SAIC12	Unfiltered	Alpha Spec.	02/18/2009	pCi/L	0.43 +/- 0.16	0.0080 +/- 0.028	0.18 +/- 0.097 J	0.62 +/- 0.19	0.43 +/- 0.28
JPG-DU-091	SAIC12F	Filtered	Alpha Spec.	02/18/2009	pCi/L	0.45 +/- 0.17	0.028 +/- 0.041	0.20 +/- 0.11 J	0.67 +/- 0.21	0.43 +/- 0.29
JPG-DU-09D	SAIC09	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	1.4 +/- 0.43	0.021 +/- 0.042 U	0.67 +/- 0.25	2.1 +/- 0.50	0.47 +/- 0.23
JPG-DU-09D	SAIC09D	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	0.88 +/- 0.30	0.037 +/- 0.054 U	0.42 +/- 0.18	1.3 +/- 0.36	0.48 +/- 0.26
JPG-DU-09D	SAIC09C	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	1.1 +/- 0.37	0.027 +/- 0.048 U	0.51 +/- 0.22	1.6 +/- 0.43	0.48 +/- 0.26
JPG-DU-09D	SAIC09F	Filtered	Alpha Spec.	04/14/2008	pCi/L	1.5 +/- 0.44	0.041 +/- 0.059 U	0.48 +/- 0.21	2.0 +/- 0.49	0.33 +/- 0.17
JPG-DU-09D	SAIC09DF	Filtered	Alpha Spec.	04/14/2008	pCi/L	1.4 +/- 0.43	0	0.60 +/- 0.24	2.0 +/- 0.49	0.43 +/- 0.21
JPG-DU-09D	SAIC09FC	Filtered	Alpha Spec.	04/14/2008	pCi/L	1.4 +/- 0.43	0.021 +/-	0.54 +/- 0.22	2.0 +/- 0.49	0.37 +/- 0.19
JPG-DU-09D	SAIC10	Unfiltered	Alpha Spec.	07/31/2008	pCi/L	1.8 +/- 0.52	0.031 +/- 0.058 U	0.84 +/- 0.30	2.6 +/- 0.60	0.48 +/- 0.22
JPG-DU-09D	SAIC10F	Filtered	Alpha Spec.	07/31/2008	pCi/L	1.4 +/- 0.42	-7.0E-03 +/- 0.015 U	0.49 +/- 0.20	1.8 +/- 0.46	0.36 +/- 0.19
JPG-DU-09D	SAIC11	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	2.1 +/- 0.53	0.011 +/- 0.023 U	0.90 +/- 0.27	3.0 +/- 0.59	0.43 +/- 0.17
JPG-DU-09D	SAIC11F	Filtered	Alpha Spec.	10/27/2008	pCi/L	1.4 +/- 0.37	0.011 +/- 0.023 U	0.64 +/- 0.20	2.0 +/- 0.42	0.46 +/- 0.19
JPG-DU-09D	SAIC12	Unfiltered	Alpha Spec.	02/16/2009	pCi/L	0.66 +/- 0.22	0.013 +/- 0.025	0.33 +/- 0.14	1.0 +/- 0.26	0.51 +/- 0.26
JPG-DU-09D	SAIC12F	Filtered	Alpha Spec.	02/16/2009	pCi/L	0.68 +/- 0.23	0	0.26 +/- 0.12	0.93 +/- 0.29	0.38 +/- 0.22
JPG-DU-100	SAIC09	Unfiltered	Alpha Spec.	04/10/2008	pCi/L	1.6 +/- 0.47	0	0.76 +/- 0.28	2.4 +/- 0.55	0.47 +/- 0.22
JPG-DU-100	SAIC09F	Filtered	Alpha Spec.	04/10/2008	pCi/L	1.8 +/- 0.53	0.020 +/- 0.041 U	1.1 +/- 0.35	2.9 +/- 0.63	0.58 +/- 0.25
JPG-DU-100	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	0.78 +/- 0.28	0.020 +/- 0.040 U	0.64 +/- 0.25	1.4 +/- 0.38	0.83 +/- 0.44
JPG-DU-100	SAIC10F	Filtered	Alpha Spec.	08/01/2008	pCi/L	0.70 +/- 0.26	0.019 +/- 0.039 U	0.36 +/- 0.17	1.1 +/- 0.31	0.51 +/- 0.31
JPG-DU-100	SAIC11	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	1.5 +/- 0.39	0.044 +/- 0.052 U	0.71 +/- 0.23	2.2 +/- 0.46	0.49 +/- 0.21
JPG-DU-100	SAIC11F	Filtered	Alpha Spec.	10/27/2008	pCi/L	1.4 +/- 0.40	0.041 +/- 0.049 J	0.94 +/- 0.29	2.4 +/- 0.49	0.66 +/- 0.27
JPG-DU-100	SAIC12	Unfiltered	Alpha Spec.	02/18/2009	pCi/L	0.84 +/- 0.26	0.032 +/- 0.045	0.63 +/- 0.21	1.5 +/- 0.34	0.75 +/- 0.34
JPG-DU-100	SAIC12F	Filtered	Alpha Spec.	02/18/2009	pCi/L	0.84 +/- 0.26	0.014 +/- 0.037	0.54 +/- 0.19	1.4 +/- 0.32	0.64 +/- 0.29
JPG-DU-10D	SAIC09	Unfiltered	Alpha Spec.	04/10/2008	pCi/L	1.2 +/- 0.37	0.0070 +/- 0.048 U	0.57 +/- 0.23	1.7 +/- 0.44	0.49 +/- 0.25
JPG-DU-10D	SAIC09F	Filtered	Alpha Spec.	04/10/2008	pCi/L	0.97 +/- 0.33	0.041 +/- 0.059 U	0.87 +/- 0.31	1.9 +/- 0.45	0.89 +/- 0.44
JPG-DU-10D	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	0.62 +/- 0.24	0.036 +/- 0.053 U	0.39 +/- 0.18	1.0 +/- 0.30	0.63 +/- 0.37
JPG-DU-10D	SAIC10F	Filtered	Alpha Spec.	08/01/2008	pCi/L	0.79 +/- 0.28	0.029 +/- 0.054 U	0.32 +/- 0.16	1.1 +/- 0.33	0.40 +/- 0.24
JPG-DU-10D	SAIC11	Unfiltered	Alpha Spec.	10/22/2008	pCi/L	0.55 +/- 0.19	0.012 +/- 0.025 U	0.32 +/- 0.13	0.89 +/- 0.23	0.58 +/- 0.31
JPG-DU-10D	SAIC11F	Filtered	Alpha Spec.	10/22/2008	pCi/L	0.82 +/- 0.25	0.024 +/- 0.035 U	0.49 +/- 0.17	1.3 +/- 0.31	0.60 +/- 0.28
JPG-DU-10D	SAIC12	Unfiltered	Alpha Spec.	02/19/2009	pCi/L	0.63 +/- 0.22	0.014 +/- 0.028	0.38 +/- 0.15	1.0 +/- 0.27	0.60 +/- 0.32
JPG-DU-10D	SAIC12F	Filtered	Alpha Spec.	02/19/2009	pCi/L	0.78 +/- 0.25	0.0030 +/- 0.029	0.27 +/- 0.12	1.1 +/- 0.28	0.34 +/- 0.19
<b>Surface Water – Site Characterization Locations</b>										
JP-W-01	SAIC09	Unfiltered	Alpha Spec.	04/13/2008	pCi/L	0.015 +/- 0.060 U	0	0.036 +/- 0.052 U	ND	ND
JP-W-01	SAIC09F	Filtered	Alpha Spec.	04/13/2008	pCi/L	0.036 +/- 0.052 U	0	0.11 +/- 0.091 J	0.14 +/- 0.10	ND
JP-W-01	SAIC12	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	0.039 +/- 0.040 J	0.024 +/- 0.035	0.078 +/- 0.057 J	0.14 +/- 0.078	2.0 +/- 2.5
JP-W-01	SAIC12F	Filtered	Alpha Spec.	02/09/2009	pCi/L	0.067 +/- 0.056 J	0.012 +/- 0.025	0.12 +/- 0.074 J	0.20 +/- 0.096	1.8 +/- 1.9
JP-W-02	SAIC09	Unfiltered	Alpha Spec.	04/23/2008	pCi/L	0.065 +/- 0.066 U	0	0.099 +/- 0.078 J	0.16 +/- 0.10	ND

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
JP-W-02	SAIC09F	Filtered	Alpha Spec.	04/23/2008	pCi/L	0.055 +/- 0.063 J	0	0.046 +/- 0.054 J	0.10 +/- 0.083	ND
JP-W-02	SAIC12	Unfiltered	Alpha Spec.	02/06/2009	pCi/L	0.083 +/- 0.065 J	0.014 +/- 0.027	0.087 +/- 0.065 J	0.18 +/- 0.096	1.0 +/- 1.1
JP-W-02	SAIC12F	Filtered	Alpha Spec.	02/06/2009	pCi/L	0.075 +/- 0.059 J	0.013 +/- 0.027	0.11 +/- 0.075 J	0.20 +/- 0.099	1.4 +/- 1.5
JP-W-03	SAIC09	Unfiltered	Alpha Spec.	04/22/2008	pCi/L	0.070 +/- 0.065 J	0	0.13 +/- 0.089 J	0.20 +/- 0.11	1.8 +/- 2.1
JP-W-03	SAIC09F	Filtered	Alpha Spec.	04/22/2008	pCi/L	0.068 +/- 0.062 J	0.017 +/- 0.034 U	0.11 +/- 0.080 J	0.19 +/- 0.11	1.6 +/- 1.9
JP-W-03	SAIC12	Unfiltered	Alpha Spec.	02/05/2009	pCi/L	0.060 +/- 0.055 J	0.013 +/- 0.027	0.56 +/- 0.20	0.63 +/- 0.21	9.3 +/- 9.1
JP-W-03	SAIC12F	Filtered	Alpha Spec.	02/05/2009	pCi/L	0.12 +/- 0.085 J	0.016 +/- 0.033	0.61 +/- 0.23	0.74 +/- 0.24	5.3 +/- 4.4
JP-W-04	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.30 +/- 0.15 J	0	0.48 +/- 0.20	0.78 +/- 0.25	1.6 +/- 1.1
JP-W-04	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0.083 +/- 0.077 J	0	0.67 +/- 0.26	0.75 +/- 0.27	8.0 +/- 8.1
JP-W-04	SAIC10	Unfiltered	Alpha Spec.	07/17/2008	pCi/L	0.43 +/- 0.19	0 0.14 U	1.8 +/- 0.52	2.2 +/- 0.57	4.2 +/- 2.2
JP-W-04	SAIC10F	Filtered	Alpha Spec.	07/17/2008	pCi/L	0.28 +/- 0.14 J	0.018 +/- 0.037 U	1.6 +/- 0.46	1.9 +/- 0.49	5.5 +/- 3.2
JP-W-04	SAIC11	Unfiltered	Alpha Spec.	10/21/2008	pCi/L	0.20 +/- 0.097	-5.0E-03 +/- 0.0090 U	0.87 +/- 0.26	1.1 +/- 0.28	4.3 +/- 2.4
JP-W-04	SAIC11D	Unfiltered	Alpha Spec.	10/21/2008	pCi/L	0.20 +/- 0.099	0.012 +/- 0.024 U	0.88 +/- 0.26	1.1 +/- 0.28	4.3 +/- 2.5
JP-W-04	SAIC11C	Unfiltered	Alpha Spec.	10/21/2008	pCi/L	0.20 +/- 0.098	-2.9E-03 +/- 0.016 U	0.88 +/- 0.26	1.1 +/- 0.28	4.3 +/- 2.5
JP-W-04	SAIC11F	Filtered	Alpha Spec.	10/21/2008	pCi/L	0.16 +/- 0.084 J	-9.0E-03 +/- 0.013 U	0.82 +/- 0.25	0.97 +/- 0.26	5.2 +/- 3.2
JP-W-04	SAIC11DF	Filtered	Alpha Spec.	10/21/2008	pCi/L	0.19 +/- 0.096 J	0.049 +/- 0.052 J	0.31 +/- 0.13	0.54 +/- 0.17	1.7 +/- 1.1
JP-W-04	SAIC11FC	Filtered	Alpha Spec.	10/21/2008	pCi/L	0.17 +/- 0.090 J	-5.6E-03 +/- 0.033 J	0.42 +/- 0.19	0.67 +/- 0.21	2.5 +/- 1.7
JP-W-04	SAIC12	Unfiltered	Alpha Spec.	02/06/2009	pCi/L	0.11 +/- 0.071 J	0.040 +/- 0.053	0.34 +/- 0.14	0.49 +/- 0.16	3.2 +/- 2.5
JP-W-04	SAIC12F	Filtered	Alpha Spec.	02/06/2009	pCi/L	0.14 +/- 0.082 J	0.0080 +/- 0.028	0.33 +/- 0.14	0.48 +/- 0.16	2.4 +/- 1.8
JP-W-05	SAIC09	Unfiltered	Alpha Spec.	04/23/2008	pCi/L	0.79 +/- 0.28	0.095 +/- 0.090 J	5.2 +/- 1.3	6.1 +/- 1.3	6.5 +/- 2.8
JP-W-05	SAIC09F	Filtered	Alpha Spec.	04/23/2008	pCi/L	0.89 +/- 0.31	0.040 +/- 0.058 U	5.6 +/- 1.4	6.5 +/- 1.4	6.3 +/- 2.7
JP-W-05	SAIC10	Unfiltered	Alpha Spec.	07/16/2008	pCi/L	2.4 +/- 0.66	0.11 +/- 0.097 J	18 +/- 4.1	20 +/- 4.1	7.3 +/- 2.6
JP-W-05	SAIC10F	Filtered	Alpha Spec.	07/16/2008	pCi/L	2.8 +/- 0.75	0.29 +/- 0.17 J	19 +/- 4.4	22 +/- 4.4	6.8 +/- 2.4
JP-W-05	SAIC11	Unfiltered	Alpha Spec.	10/21/2008	pCi/L	2.6 +/- 0.64	0.27 +/- 0.14 J	17 +/- 3.7	20 +/- 3.8	6.5 +/- 2.2
JP-W-05	SAIC11F	Filtered	Alpha Spec.	10/21/2008	pCi/L	2.3 +/- 0.58	0.21 +/- 0.12 J	16 +/- 3.5	18 +/- 3.5	6.7 +/- 2.2
JP-W-05	SAIC12	Unfiltered	Alpha Spec.	02/06/2009	pCi/L	0.42 +/- 0.15	0.012 +/- 0.023	2.3 +/- 0.58	2.8 +/- 0.60	5.5 +/- 2.4
JP-W-05	SAIC12F	Filtered	Alpha Spec.	02/06/2009	pCi/L	0.44 +/- 0.16	0.087 +/- 0.071 J	2.4 +/- 0.60	2.9 +/- 0.63	5.4 +/- 2.5
JP-W-06	SAIC09	Unfiltered	Alpha Spec.	04/24/2008	pCi/L	0.14 +/- 0.092 J	0.016 +/- 0.033 U	0.33 +/- 0.15	0.49 +/- 0.18	2.3 +/- 1.8
JP-W-06	SAIC09F	Filtered	Alpha Spec.	04/24/2008	pCi/L	0.13 +/- 0.096 J	0	0.19 +/- 0.11 J	0.32 +/- 0.15	1.4 +/- 1.3
JP-W-06	SAIC12	Unfiltered	Alpha Spec.	02/06/2009	pCi/L	0.21 +/- 0.10	0.023 +/- 0.034 J	0.40 +/- 0.15	0.63 +/- 0.18	1.9 +/- 1.2
JP-W-06	SAIC12F	Filtered	Alpha Spec.	02/06/2009	pCi/L	0.21 +/- 0.11	0.013 +/- 0.027	0.35 +/- 0.15	0.58 +/- 0.18	1.6 +/- 1.1
JP-W-07	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.090 +/- 0.076 J	0.017 +/- 0.034 U	0.38 +/- 0.17	0.49 +/- 0.19	4.2 +/- 4.0
JP-W-07	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0.13 +/- 0.095 J	0.011 +/- 0.040 U	0.45 +/- 0.19	0.59 +/- 0.22	3.5 +/- 3.0
JP-W-07	SAIC10	Unfiltered	Alpha Spec.	07/20/2008	pCi/L	0.20 +/- 0.12 J	0 0.14 U	0.28 +/- 0.15 J	0.47 +/- 0.23	1.4 +/- 1.2
JP-W-07	SAIC10F	Filtered	Alpha Spec.	07/20/2008	pCi/L	0.15 +/- 0.099 J	0.018 +/- 0.037 U	0.44 +/- 0.19	0.61 +/- 0.22	3.0 +/- 2.4
JP-W-07	SAIC11	Unfiltered	Alpha Spec.	10/12/2008	pCi/L	0.023 +/- 0.018 J	0 0.14 U	0.059 +/- 0.030 J	0.082 +/- 0.14	2.6 +/- 2.4
JP-W-07	SAIC11F	Filtered	Alpha Spec.	10/12/2008	pCi/L	0.016 +/- 0.015 J	0.0040 +/- 0.0080 U	0.070 +/- 0.034	0.090 +/- 0.038	4.4 +/- 4.6
JP-W-07	SAIC12	Unfiltered	Alpha Spec.	02/10/2009	pCi/L	0.11 +/- 0.069 J	0 0.14	0.059 +/- 0.050 J	0.17 +/- 0.16	0.55 +/- 0.58
JP-W-07	SAIC12F	Filtered	Alpha Spec.	02/10/2009	pCi/L	0.033 +/- 0.047	-8.0E-03 +/- 0.016	0.098 +/- 0.083 J	0.12 +/- 0.097	3.0 +/- 4.9
JP-W-08	SAIC09	Unfiltered	Alpha Spec.	04/22/2008	pCi/L	0.27 +/- 0.14 J	0.017 +/- 0.035 U	0.36 +/- 0.16	0.65 +/- 0.22	1.4 +/- 0.93
JP-W-08	SAIC09F	Filtered	Alpha Spec.	04/22/2008	pCi/L	0.19 +/- 0.11 J	0.018 +/- 0.036 U	0.26 +/- 0.14 J	0.47 +/- 0.18	1.4 +/- 1.1
JP-W-08	SAIC12	Unfiltered	Alpha Spec.	02/04/2009	pCi/L	0.11 +/- 0.10 J	-1.1E-02 +/- 0.022	0.24 +/- 0.15	0.33 +/- 0.18	2.2 +/- 2.5
JP-W-08	SAIC12F	Filtered	Alpha Spec.	02/04/2009	pCi/L	0.17 +/- 0.10 J	-1.3E-02 +/- 0.019	0.27 +/- 0.13	0.42 +/- 0.17	1.6 +/- 1.3
JP-W-09	SAIC09	Unfiltered	Alpha Spec.	04/24/2008	pCi/L	0.088 +/- 0.074 J	0	0.23 +/- 0.13 J	0.32 +/- 0.15	2.6 +/- 2.7
JP-W-09	SAIC09F	Filtered	Alpha Spec.	04/24/2008	pCi/L	0.033 +/- 0.047 U	-8.0E-03 +/- 0.016	0.33 +/- 0.16	0.35 +/- 0.17	ND
JP-W-09	SAIC10	Unfiltered	Alpha Spec.	07/21/2008	pCi/L	0.16 +/- 0.10 J	0 0.14 U	0.20 +/- 0.12 J	0.36 +/- 0.21	1.3 +/- 1.1
JP-W-09	SAIC10F	Filtered	Alpha Spec.	07/21/2008	pCi/L	-5.3E+00 +/- 22 U	0 0.14 U	13 +/- 55 U	ND U	ND
JP-W-09	SAIC11	Unfiltered	Alpha Spec.	10/08/2008	pCi/L	0.13 +/- 0.076 J	0.012 +/- 0.024 U	0.16 +/- 0.085 J	0.30 +/- 0.12	1.2 +/- 0.99
JP-W-09	SAIC11F	Filtered	Alpha Spec.	10/08/2008	pCi/L	0.097 +/- 0.068 J	0 0.14 U	0.20 +/- 0.10 J	0.30 +/- 0.18	2.1 +/- 1.8
JP-W-09	SAIC12	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	0.13 +/- 0.088 J	-1.2E-02 +/- 0.018	0.22 +/- 0.12 J	0.34 +/- 0.15	1.7 +/- 1.4
JP-W-09	SAIC12F	Filtered	Alpha Spec.	02/09/2009	pCi/L	0.11 +/- 0.083 J	0.017 +/- 0.035	0.28 +/- 0.14 J	0.41 +/- 0.17	2.5 +/- 2.3

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
JP-W-10	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.031 +/- 0.044 U	0.019 +/- 0.039 U	0.49 +/- 0.21	0.54 +/- 0.21	ND
JP-W-10	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0.051 +/- 0.060 J	0	0.51 +/- 0.22	0.56 +/- 0.22	9.9 +/- 12
JP-W-10	SAIC10	Unfiltered	Alpha Spec.	07/16/2008	pCi/L	0.31 +/- 0.16 J	0.012 +/- 0.042 U	0.84 +/- 0.29	1.2 +/- 0.34	2.7 +/- 1.6
JP-W-10	SAIC10F	Filtered	Alpha Spec.	07/16/2008	pCi/L	0.26 +/- 0.14 J	0.038 +/- 0.055 U	0.81 +/- 0.29	1.1 +/- 0.32	3.1 +/- 2.0
JP-W-10	SAIC12	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	0.068 +/- 0.053 J	0	0.054 +/- 0.049 J	0.12 +/- 0.15	0.79 +/- 0.95
JP-W-10	SAIC12F	Filtered	Alpha Spec.	02/09/2009	pCi/L	0.010 +/- 0.020	0	0.049 +/- 0.045 J	0.059 +/- 0.14	4.9 +/- 11
JP-W-11	SAIC09	Unfiltered	Alpha Spec.	04/23/2008	pCi/L	0.17 +/- 0.11 J	0.036 +/- 0.053 U	0.40 +/- 0.18	0.60 +/- 0.22	2.4 +/- 1.9
JP-W-11	SAIC09F	Filtered	Alpha Spec.	04/23/2008	pCi/L	0.21 +/- 0.12 J	0	0.50 +/- 0.21	0.71 +/- 0.24	2.5 +/- 1.8
JP-W-11	SAIC10	Unfiltered	Alpha Spec.	07/17/2008	pCi/L	0.19 +/- 0.11 J	0.018 +/- 0.036 U	0.88 +/- 0.30	1.1 +/- 0.32	4.7 +/- 3.2
JP-W-11	SAIC10F	Filtered	Alpha Spec.	07/17/2008	pCi/L	0.25 +/- 0.13 J	0.036 +/- 0.053 U	0.84 +/- 0.29	1.1 +/- 0.32	3.3 +/- 2.1
JP-W-11	SAIC11	Unfiltered	Alpha Spec.	10/08/2008	pCi/L	0.10 +/- 0.067 J	0	0.73 +/- 0.23	0.83 +/- 0.28	7.3 +/- 5.4
JP-W-11	SAIC11F	Filtered	Alpha Spec.	10/08/2008	pCi/L	0.19 +/- 0.096	0.024 +/- 0.035 U	1.1 +/- 0.31	1.3 +/- 0.32	5.6 +/- 3.2
JP-W-11	SAIC12	Unfiltered	Alpha Spec.	02/10/2009	pCi/L	0.035 +/- 0.050	0	0.12 +/- 0.097 J	0.15 +/- 0.17	3.3 +/- 5.5
JP-W-11	SAIC12D	Unfiltered	Alpha Spec.	02/10/2009	pCi/L	0.044 +/- 0.049	0.013 +/- 0.026	0.14 +/- 0.080 J	0.19 +/- 0.097	3.1 +/- 3.9
JP-W-11	SAIC12C	Unfiltered	Alpha Spec.	02/10/2009	pCi/L	0.040 +/- 0.050	0.013 +/- 0.081	0.13 +/- 0.088 J	0.18 +/- 0.14	3.2 +/- 4.6
JP-W-11	SAIC12F	Filtered	Alpha Spec.	02/10/2009	pCi/L	0.21 +/- 0.13 J	0	0.11 +/- 0.090 J	0.33 +/- 0.21	0.54 +/- 0.53
JP-W-11	SAIC12DF	Filtered	Alpha Spec.	02/10/2009	pCi/L	0.094 +/- 0.063 J	0.0070 +/- 0.025	0.075 +/- 0.055 J	0.18 +/- 0.087	0.80 +/- 0.79
JP-W-11	SAIC12FC	Filtered	Alpha Spec.	02/10/2009	pCi/L	0.12 +/- 0.095 J	0.0068 +/- 0.080	0.086 +/- 0.073 J	0.20 +/- 0.15	0.73 +/- 0.85
JP-W-12	SAIC09	Unfiltered	Alpha Spec.	04/22/2008	pCi/L	0.082 +/- 0.069 J	0	0.068 +/- 0.062 J	0.15 +/- 0.093	0.83 +/- 1.0
JP-W-12	SAIC09F	Filtered	Alpha Spec.	04/22/2008	pCi/L	0.10 +/- 0.085 J	0	0.11 +/- 0.084 J	0.21 +/- 0.12	1.0 +/- 1.2
JP-W-12	SAIC10	Unfiltered	Alpha Spec.	07/29/2008	pCi/L	0.21 +/- 0.13 J	-8.0E-03 +/- 0.016 U	0.68 +/- 0.26	0.88 +/- 0.29	3.2 +/- 2.3
JP-W-12	SAIC10F	Filtered	Alpha Spec.	07/29/2008	pCi/L	0.12 +/- 0.086 J	0	0.70 +/- 0.25	0.82 +/- 0.30	6.0 +/- 5.0
JP-W-12	SAIC11	Unfiltered	Alpha Spec.	10/09/2008	pCi/L	0.40 +/- 0.15	0.029 +/- 0.041 U	2.4 +/- 0.60	2.8 +/- 0.62	6.1 +/- 2.7
JP-W-12	SAIC11F	Filtered	Alpha Spec.	10/09/2008	pCi/L	0.47 +/- 0.17	0.023 +/- 0.033 U	2.4 +/- 0.59	2.9 +/- 0.62	5.0 +/- 2.2
JP-W-12	SAIC12	Unfiltered	Alpha Spec.	02/05/2009	pCi/L	0.16 +/- 0.10 J	0	0.087 +/- 0.074 J	0.25 +/- 0.19	0.54 +/- 0.58
JP-W-12	SAIC12F	Filtered	Alpha Spec.	02/05/2009	pCi/L	0.082 +/- 0.064 J	0	0.058 +/- 0.053 J	0.14 +/- 0.16	0.71 +/- 0.85
JP-W-13	SAIC09	Unfiltered	Alpha Spec.	04/24/2008	pCi/L	0.10 +/- 0.082 J	0	0.13 +/- 0.093 J	0.24 +/- 0.12	1.3 +/- 1.3
JP-W-13	SAIC09F	Filtered	Alpha Spec.	04/24/2008	pCi/L	0.13 +/- 0.098 J	0	0.046 +/- 0.054 J	0.18 +/- 0.11	0.35 +/- 0.48
JP-W-13	SAIC10	Unfiltered	Alpha Spec.	07/20/2008	pCi/L	0.22 +/- 0.13 J	0	0.066 +/- 0.068 J	0.28 +/- 0.20	0.30 +/- 0.36
JP-W-13	SAIC10F	Filtered	Alpha Spec.	07/20/2008	pCi/L	0.19 +/- 0.12 J	0	0.14 +/- 0.098 J	0.33 +/- 0.20	0.75 +/- 0.70
JP-W-13	SAIC11	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.063 +/- 0.059 J	-5.0E-03 +/- 0.010 U	0.058 +/- 0.049 J	0.12 +/- 0.077	0.92 +/- 1.2
JP-W-13	SAIC11D	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.20 +/- 0.11 J	0.015 +/- 0.031 U	0.087 +/- 0.068 J	0.30 +/- 0.13	0.44 +/- 0.42
JP-W-13	SAIC11C	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.094 +/- 0.084 J	-3.1E-03 +/- 0.021 U	0.068 +/- 0.059 J	0.16 +/- 0.10	0.72 +/- 0.90
JP-W-13	SAIC11F	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.20 +/- 0.099 J	-5.0E-03 +/- 0.010 U	0.062 +/- 0.052 J	0.25 +/- 0.11	0.32 +/- 0.31
JP-W-13	SAIC11DF	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.095 +/- 0.063 J	-5.0E-03 +/- 0.0090 U	0.085 +/- 0.059 J	0.18 +/- 0.087	0.89 +/- 0.86
JP-W-13	SAIC11FC	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.12 +/- 0.081 J	-5.0E-03 +/- 0.0095 U	0.072 +/- 0.055 J	0.20 +/- 0.099	0.58 +/- 0.59
JP-W-13	SAIC12	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	0	0.018 +/- 0.036	0.065 +/- 0.066	0.083 +/- 0.12	ND
JP-W-13	SAIC12F	Filtered	Alpha Spec.	02/09/2009	pCi/L	0.031 +/- 0.037 J	0.013 +/- 0.026	0.021 +/- 0.030	0.065 +/- 0.054	0.68 +/- 1.3
JP-W-14	SAIC09	Unfiltered	Alpha Spec.	04/23/2008	pCi/L	0.53 +/- 0.23	0.062 +/- 0.075 J	3.9 +/- 1.0	4.4 +/- 1.0	7.2 +/- 3.6
JP-W-14	SAIC09F	Filtered	Alpha Spec.	04/23/2008	pCi/L	0.50 +/- 0.20	0.11 +/- 0.096 J	4.2 +/- 1.1	4.8 +/- 1.1	8.4 +/- 4.0
JP-W-14	SAIC12	Unfiltered	Alpha Spec.	02/08/2009	pCi/L	0.37 +/- 0.15	0.014 +/- 0.028	2.0 +/- 0.53	2.4 +/- 0.55	5.4 +/- 2.7
JP-W-14	SAIC12F	Filtered	Alpha Spec.	02/08/2009	pCi/L	0.28 +/- 0.13	0.068 +/- 0.064	2.0 +/- 0.53	2.4 +/- 0.55	7.2 +/- 3.8
JP-W-15	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.0090 +/- 0.033 U	0	0.061 +/- 0.062 J	0.070 +/- 0.070 U	ND
JP-W-15	SAIC09D	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	-6.0E-03 +/- 0.012 U	0	0	ND	ND
JP-W-15	SAIC09C	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	-4.2E-03 +/- 0.023 U	0	0.031 +/-	0.070	ND
JP-W-15	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0	0.011 +/- 0.041 U	0.046 +/- 0.054 J	0.057 +/- 0.068 U	ND
JP-W-15	SAIC09FD	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.035 +/- 0.050 U	0	0.035 +/- 0.050 U	ND	ND
JP-W-15	SAIC09FC	Filtered	Alpha Spec.	04/25/2008	pCi/L	0.018 +/-	0.0055 +/-	0.040 +/- 0.052 U	0.057	ND
JP-W-15	SAIC10	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.23 +/- 0.13 J	0	0.21 +/- 0.13 J	0.44 +/- 0.23	0.93 +/- 0.77
JP-W-15	SAIC10D	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.29 +/- 0.16 J	0.088 +/- 0.092 J	0.27 +/- 0.15 J	0.64 +/- 0.24	0.93 +/- 0.73
JP-W-15	SAIC10C	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.25 +/- 0.14 J	0.060 +/- 0.11 J	0.23 +/- 0.14 J	0.53 +/- 0.23	0.93 +/- 0.76

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
JP-W-15	SAIC10F	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.31 +/- 0.16 J	0 0.14 U	0.19 +/- 0.12 J	0.50 +/- 0.24	0.61 +/- 0.51
JP-W-15	SAIC10DF	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.15 +/- 0.10 J	0.019 +/- 0.037 U	0.16 +/- 0.11 J	0.33 +/- 0.15	1.1 +/- 1.0
JP-W-15	SAIC10FC	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.19 +/- 0.13 J	0.018 +/- 0.086 U	0.17 +/- 0.11 J	0.38 +/- 0.20	0.90 +/- 0.84
JP-W-15	SAIC11	Unfiltered	Alpha Spec.	10/12/2008	pCi/L	0.25 +/- 0.11	0.0070 +/- 0.027 U	0.32 +/- 0.13	0.57 +/- 0.18	1.3 +/- 0.81
JP-W-15	SAIC11F	Filtered	Alpha Spec.	10/12/2008	pCi/L	0.28 +/- 0.12	0.037 +/- 0.044 J	0.25 +/- 0.11	0.56 +/- 0.17	0.89 +/- 0.56
JP-W-15	SAIC12	Unfiltered	Alpha Spec.	02/08/2009	pCi/L	0.069 +/- 0.058	0.023 +/- 0.042	0.057 +/- 0.053	0.15 +/- 0.089	0.83 +/- 1.0
JP-W-15	SAIC12D	Unfiltered	Alpha Spec.	02/08/2009	pCi/L	0.023 +/- 0.039	0.013 +/- 0.026	0.053 +/- 0.049	0.089 +/- 0.068	2.3 +/- 4.5
JP-W-15	SAIC12C	Unfiltered	Alpha Spec.	02/08/2009	pCi/L	0.037 +/- 0.049	0.016 +/- 0.034	0.055 +/- 0.051	0.11 +/- 0.078	1.5 +/- 2.3
JP-W-15	SAIC12F	Filtered	Alpha Spec.	02/08/2009	pCi/L	0.052 +/- 0.060	0.018 +/- 0.036	0.043 +/- 0.051	0.11 +/- 0.086	0.83 +/- 1.4
JP-W-15	SAIC12DF	Filtered	Alpha Spec.	02/08/2009	pCi/L	0.030 +/- 0.035	0.024 +/- 0.035	0.029 +/- 0.035	0.083 +/- 0.061	0.97 +/- 1.6
JP-W-15	SAIC12FC	Filtered	Alpha Spec.	02/08/2009	pCi/L	0.036 +/- 0.048	0.021 +/- 0.035	0.033 +/- 0.043	0.093 +/- 0.074	0.94 +/- 1.7
JP-W-16	SAIC09	Unfiltered	Alpha Spec.	04/24/2008	pCi/L	0.051 +/- 0.059 U	0 U	0.042 +/- 0.050 J	0.093 +/- 0.077	ND
JP-W-16	SAIC09F	Filtered	Alpha Spec.	04/24/2008	pCi/L	-6.0E-03 +/- 0.012 U	0 U	0 U	ND U	ND
JP-W-16	SAIC12	Unfiltered	Alpha Spec.	02/08/2009	pCi/L	0.028 +/- 0.033	0 0.14	0.019 +/- 0.027	0.047 +/- 0.14	0.68 +/- 1.3
JP-W-16	SAIC12F	Filtered	Alpha Spec.	02/08/2009	pCi/L	0.031 +/- 0.036	0.013 +/- 0.026	0.047 +/- 0.048	0.091 +/- 0.065	1.5 +/- 2.3
JP-W-17	SAIC09	Unfiltered	Alpha Spec.	04/27/2008	pCi/L	0.038 +/- 0.052 U	0 U	0.073 +/- 0.067 J	0.11 +/- 0.085	ND
JP-W-17	SAIC09D	Unfiltered	Alpha Spec.	04/27/2008	pCi/L	0.029 +/- 0.042 U	0 U	0.044 +/- 0.052 J	0.073 +/- 0.067	ND
JP-W-17	SAIC09C	Unfiltered	Alpha Spec.	04/27/2008	pCi/L	0.033 +/- 0.047 U	0 U	0.055 +/- 0.060 J	0.088 +/- 0.076	ND
JP-W-17	SAIC09F	Filtered	Alpha Spec.	04/27/2008	pCi/L	-6.0E-03 +/- 0.013 U	-8.0E-03 +/- 0.016 U	0.016 +/- 0.032 U	ND U	ND
JP-W-17	SAIC09FD	Unfiltered	Alpha Spec.	04/27/2008	pCi/L	0.041 +/- 0.068 U	0.023 +/- 0.046 U	0.018 +/- 0.037 U	ND U	ND
JP-W-17	SAIC09FC	Filtered	Alpha Spec.	04/27/2008	pCi/L	-4.3E-03 +/- 0.041 U	-4.6E-03 +/- 0.031 U	0.017 +/- 0.035 U	ND U	ND
JP-W-17	SAIC10	Unfiltered	Alpha Spec.	07/20/2008	pCi/L	0.24 +/- 0.14 J	0.020 +/- 0.040 U	0.21 +/- 0.13 J	0.47 +/- 0.19	0.86 +/- 0.71
JP-W-17	SAIC10F	Filtered	Alpha Spec.	07/20/2008	pCi/L	0.20 +/- 0.12 J	0 0.14 U	0.26 +/- 0.14 J	0.46 +/- 0.23	1.3 +/- 1.1
JP-W-17	SAIC12	Unfiltered	Alpha Spec.	02/03/2009	pCi/L	0.013 +/- 0.046	0 0.14	0.085 +/- 0.087	0.098 +/- 0.17	6.5 +/- 24
JP-W-17	SAIC12F	Filtered	Alpha Spec.	02/03/2009	pCi/L	0.041 +/- 0.042 J	0 0.14	0.012 +/- 0.031	0.053 +/- 0.14	0.29 +/- 0.81
JP-W-18	SAIC09	Unfiltered	Alpha Spec.	04/27/2008	pCi/L	0.10 +/- 0.086 J	0 U	0.077 +/- 0.071 J	0.18 +/- 0.11	0.75 +/- 0.94
JP-W-18	SAIC09F	Filtered	Alpha Spec.	04/27/2008	pCi/L	0.062 +/- 0.064 J	-8.0E-03 +/- 0.016 U	0.077 +/- 0.071 J	0.13 +/- 0.097	1.2 +/- 1.7
JP-W-18	SAIC12	Unfiltered	Alpha Spec.	02/04/2009	pCi/L	0.071 +/- 0.073 J	0.022 +/- 0.044	0.053 +/- 0.062 J	0.15 +/- 0.11	0.75 +/- 1.5
JP-W-18	SAIC12F	Filtered	Alpha Spec.	02/04/2009	pCi/L	0.012 +/- 0.030	0 0.14	0.020 +/- 0.028	0.032 +/- 0.14	1.7 +/- 4.8
JP-W-19	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.19 +/- 0.13 J	0.021 +/- 0.043 U	0.14 +/- 0.10 J	0.35 +/- 0.17	0.71 +/- 0.71
JP-W-19	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0.23 +/- 0.14 J	0 U	0.12 +/- 0.092 J	0.35 +/- 0.16	0.51 +/- 0.51
JP-W-19	SAIC10	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.28 +/- 0.14 J	0 0.14 U	0.11 +/- 0.084 J	0.38 +/- 0.21	0.39 +/- 0.36
JP-W-19	SAIC10D	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.21 +/- 0.13 J	0 0.14 U	0.16 +/- 0.11 J	0.37 +/- 0.22	0.76 +/- 0.69
JP-W-19	SAIC10C	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.24 +/- 0.14 J	0 0.14 U	0.13 +/- 0.097 J	0.38 +/- 0.21	0.53 +/- 0.50
JP-W-19	SAIC10F	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.22 +/- 0.13 J	0.019 +/- 0.038 U	0.20 +/- 0.12 J	0.43 +/- 0.18	0.93 +/- 0.77
JP-W-19	SAIC10DF	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.32 +/- 0.16	0 0.14 U	0.20 +/- 0.12 J	0.52 +/- 0.24	0.63 +/- 0.49
JP-W-19	SAIC10FC	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.25 +/- 0.14	0.018 +/- 0.086 U	0.20 +/- 0.12 J	0.46 +/- 0.21	0.78 +/- 0.64
JP-W-19	SAIC11	Unfiltered	Alpha Spec.	10/12/2008	pCi/L	0.17 +/- 0.092 J	0 0.14 U	0.15 +/- 0.083 J	0.32 +/- 0.18	0.89 +/- 0.68
JP-W-19	SAIC11F	Filtered	Alpha Spec.	10/12/2008	pCi/L	0.28 +/- 0.13	0.013 +/- 0.027 U	0.14 +/- 0.084 J	0.44 +/- 0.15	0.50 +/- 0.37
JP-W-19	SAIC12	Unfiltered	Alpha Spec.	02/10/2009	pCi/L	0.059 +/- 0.049 J	-5.0E-03 +/- 0.010	0.054 +/- 0.050 J	0.11 +/- 0.071	0.92 +/- 1.1
JP-W-19	SAIC12F	Filtered	Alpha Spec.	02/10/2009	pCi/L	0.075 +/- 0.069 J	0.037 +/- 0.053	0.074 +/- 0.068 J	0.19 +/- 0.11	0.99 +/- 1.3
JP-W-20	SAIC09	Unfiltered	Alpha Spec.	04/27/2008	pCi/L	0.075 +/- 0.069 J	0 U	0.040 +/- 0.047 J	0.12 +/- 0.083	0.53 +/- 0.79
JP-W-20	SAIC09F	Filtered	Alpha Spec.	04/27/2008	pCi/L	0.077 +/- 0.070 J	0 U	0.014 +/- 0.028 U	0.091 +/- 0.075	ND
JP-W-20	SAIC12	Unfiltered	Alpha Spec.	02/04/2009	pCi/L	0.036 +/- 0.066	0 0.14	0.066 +/- 0.078 J	0.10 +/- 0.17	1.8 +/- 4.0
JP-W-20	SAIC12F	Filtered	Alpha Spec.	02/04/2009	pCi/L	0.028 +/- 0.057	0.035 +/- 0.071	0.11 +/- 0.12 J	0.18 +/- 0.15	4.0 +/- 9.2
JP-W-21	SAIC10	Unfiltered	Alpha Spec.	07/17/2008	pCi/L	0.24 +/- 0.14 J	0.021 +/- 0.043 U	1.7 +/- 0.52	2.0 +/- 0.54	7.1 +/- 4.6
JP-W-21	SAIC10F	Filtered	Alpha Spec.	07/17/2008	pCi/L	0.37 +/- 0.17	0 0.14 U	1.8 +/- 0.53	2.2 +/- 0.58	5.0 +/- 2.8
JP-W-21	SAIC11	Unfiltered	Alpha Spec.	10/20/2008	pCi/L	0.36 +/- 0.15	0.013 +/- 0.026 U	1.8 +/- 0.48	2.2 +/- 0.50	5.0 +/- 2.4
JP-W-21	SAIC11F	Filtered	Alpha Spec.	10/20/2008	pCi/L	0.48 +/- 0.18	0.049 +/- 0.058 U	2.2 +/- 0.57	2.7 +/- 0.60	4.6 +/- 2.1
JP-W-22	SAIC10	Unfiltered	Alpha Spec.	07/18/2008	pCi/L	0.33 +/- 0.16	0.019 +/- 0.038 U	1.8 +/- 0.52	2.2 +/- 0.54	5.4 +/- 3.0
JP-W-22	SAIC10F	Filtered	Alpha Spec.	07/18/2008	pCi/L	0.23 +/- 0.13 J	0.057 +/- 0.069 J	1.6 +/- 0.47	1.9 +/- 0.49	7.0 +/- 4.5

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
JP-W-22	SAIC11	Unfiltered	Alpha Spec.	10/09/2008	pCi/L	0.28 +/- 0.12	0.034 +/- 0.041 J	1.9 +/- 0.49	2.2 +/- 0.51	6.9 +/- 3.4
JP-W-22	SAIC11F	Filtered	Alpha Spec.	10/09/2008	pCi/L	0.27 +/- 0.12	-5.0E-03 +/- 0.0090 U	1.6 +/- 0.42	1.9 +/- 0.44	5.9 +/- 3.0
JP-W-23	SAIC10	Unfiltered	Alpha Spec.	07/28/2008	pCi/L	0.32 +/- 0.16	0.019 +/- 0.038 U	0.15 +/- 0.10 J	0.49 +/- 0.19	0.48 +/- 0.39
JP-W-23	SAIC10F	Filtered	Alpha Spec.	07/28/2008	pCi/L	0.27 +/- 0.14 J	0 0.14 U	0.33 +/- 0.16	0.60 +/- 0.25	1.2 +/- 0.86
JP-W-23	SAIC11	Unfiltered	Alpha Spec.	10/20/2008	pCi/L	0.083 +/- 0.061 J	0 0.14 U	0.093 +/- 0.065 J	0.18 +/- 0.16	1.1 +/- 1.1
JP-W-23	SAIC11F	Filtered	Alpha Spec.	10/20/2008	pCi/L	0.086 +/- 0.064 J	0.013 +/- 0.027 U	0.086 +/- 0.063 J	0.19 +/- 0.094	1.0 +/- 1.0
JP-W-24	SAIC10	Unfiltered	Alpha Spec.	07/28/2008	pCi/L	0.36 +/- 0.17	0.019 +/- 0.038 U	0.99 +/- 0.33	1.4 +/- 0.37	2.7 +/- 1.6
JP-W-24	SAIC10F	Filtered	Alpha Spec.	07/28/2008	pCi/L	0.15 +/- 0.10 J	0.018 +/- 0.037 U	1.1 +/- 0.34	1.2 +/- 0.36	7.1 +/- 5.3
JP-W-24	SAIC11	Unfiltered	Alpha Spec.	10/08/2008	pCi/L	0.15 +/- 0.084 J	0 0.14 U	0.62 +/- 0.20	0.78 +/- 0.26	4.1 +/- 2.6
JP-W-24	SAIC11F	Filtered	Alpha Spec.	10/08/2008	pCi/L	0.23 +/- 0.11	0.012 +/- 0.025 U	0.92 +/- 0.28	1.2 +/- 0.30	4.0 +/- 2.2
JP-W-25	SAIC10	Unfiltered	Alpha Spec.	07/28/2008	pCi/L	0.32 +/- 0.15	0.051 +/- 0.061 J	1.6 +/- 0.45	1.9 +/- 0.48	4.9 +/- 2.7
JP-W-25	SAIC10F	Filtered	Alpha Spec.	07/28/2008	pCi/L	0.34 +/- 0.17	0.040 +/- 0.057 U	1.3 +/- 0.40	1.6 +/- 0.43	3.7 +/- 2.2
JP-W-26	SAIC10	Unfiltered	Alpha Spec.	07/28/2008	pCi/L	0.38 +/- 0.17	0 0.14 U	1.4 +/- 0.43	1.8 +/- 0.49	3.8 +/- 2.1
JP-W-26	SAIC10F	Filtered	Alpha Spec.	07/28/2008	pCi/L	0.51 +/- 0.21	0.018 +/- 0.036 U	1.5 +/- 0.44	2.0 +/- 0.49	2.9 +/- 1.5
JP-W-26	SAIC11	Unfiltered	Alpha Spec.	10/20/2008	pCi/L	0.21 +/- 0.10	0.026 +/- 0.044 U	0.96 +/- 0.28	1.2 +/- 0.30	4.5 +/- 2.5
JP-W-26	SAIC11F	Filtered	Alpha Spec.	10/20/2008	pCi/L	0.13 +/- 0.079 J	0.013 +/- 0.026 U	1.1 +/- 0.32	1.3 +/- 0.33	8.3 +/- 5.4
JP-W-27	SAIC10	Unfiltered	Alpha Spec.	07/29/2008	pCi/L	0.12 +/- 0.091 J	0.019 +/- 0.039 U	0.29 +/- 0.15 J	0.43 +/- 0.18	2.4 +/- 2.1
JP-W-27	SAIC10F	Filtered	Alpha Spec.	07/29/2008	pCi/L	0.054 +/- 0.062 U	0.019 +/- 0.037 U	0.30 +/- 0.15	0.37 +/- 0.17	ND
JP-W-27	SAIC11	Unfiltered	Alpha Spec.	10/09/2008	pCi/L	0.076 +/- 0.056 J	0 0.14 U	0.13 +/- 0.077 J	0.21 +/- 0.17	1.8 +/- 1.6
JP-W-27	SAIC11F	Filtered	Alpha Spec.	10/09/2008	pCi/L	0.097 +/- 0.065 J	0 0.14 U	0.11 +/- 0.068 J	0.20 +/- 0.16	1.1 +/- 1.0
JP-W-28	SAIC10	Unfiltered	Alpha Spec.	07/29/2008	pCi/L	0.34 +/- 0.17 J	0.042 +/- 0.061 U	0.17 +/- 0.11 J	0.55 +/- 0.21	0.51 +/- 0.43
JP-W-28	SAIC10F	Filtered	Alpha Spec.	07/29/2008	pCi/L	0.38 +/- 0.18	0.041 +/- 0.059 U	0.23 +/- 0.13 J	0.65 +/- 0.23	0.61 +/- 0.45
JP-W-28	SAIC11	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.040 +/- 0.041 J	0 0.14 U	0.030 +/- 0.035 J	0.070 +/- 0.15	0.75 +/- 1.2
JP-W-28	SAIC11F	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.010 +/- 0.020 U	0 0.14 U	0.029 +/- 0.034 J	0.039 +/- 0.14	ND
<b>Rain Water and Groundwater – Contact Liquids for K<sub>d</sub> Study</b>										
JP-WKI-001	SAIC01	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	-9.0E-03 +/- 0.012 U	-1.0E-02 +/- 0.015 U	0.064 +/- 0.079 U	0.18 +/- 0.24 U	ND
JP-WKI-002	SAIC01	Unfiltered	Alpha Spec.	01/28/2010	pCi/L	0.10 +/-	0.10 +/-	0.10 +/-	ND	ND
JP-WLI-002	SAIC01	Unfiltered	Alpha Spec.	04/08/2010	pCi/L	0.0020 +/- 0.025 U	-5.0E-03 +/- 0.0071 U	0.0060 +/- 0.025 U	0.016 +/- 0.073 U	ND
Kd Groundwater Spr2012	SAIC01	Unfiltered	ICP-MS	03/29/2012	µg/L	0.050	0.028	4.0	4.1	ND
Kd Rainwater Spr2012	SAIC01	Unfiltered	ICP-MS	03/26/2012	µg/L	0.050	0.050	0.050	ND	ND
<b>Groundwater – ERM Wells</b>										
MW-DU-001	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-001	SAIC0498D	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-001	SAIC0498C	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-001	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0	U
MW-DU-001	SAIC1098D	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0	U
MW-DU-001	SAIC1098C	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0	U
MW-DU-001	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	U
MW-DU-001	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U
MW-DU-001	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	ND
MW-DU-001	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	U
MW-DU-001	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0	U
MW-DU-001	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U
MW-DU-001	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U
MW-DU-001	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0	U
MW-DU-001	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.31	ND
MW-DU-001	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	0.21	ND
MW-DU-001	SAIC02	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.30 +/- 0.16 J	0.043 +/- 0.084 U	0.28 +/- 0.16 J	0.62 +/- 0.24	0.93 +/- 0.73
MW-DU-001	SAIC03	Unfiltered	Alpha Spec.	05/26/2005	pCi/L	0.49 +/- 0.25 J	0.25 +/- 0.18 J	0.31 +/- 0.19 J	1.1 +/- 0.36	0.63 +/- 0.50
MW-DU-001	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	0.53 +/- 0.43 U	0.050 +/- 0.29 U	0.27 +/- 0.39 U	ND	ND
MW-DU-001	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.38 +/- 0.27 J	-2.0E-02 +/- 0.16 U	0.020 +/- 0.13 U	0.38 +/- 0.34	ND

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-DU-001	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.26 +/- 0.098 J	0.022 +/- 0.033 U	0.14 +/- 0.069	0.42 +/- 0.12	0.55 +/- 0.34
MW-DU-001	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	0.20 +/- 0.063	0.0080 +/- 0.021 U	0.29 +/- 0.078	0.50 +/- 0.10	1.4 +/- 0.58
MW-DU-001	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.24 +/- 0.074 J	-8.0E-03 +/- 0.022 U	0.15 +/- 0.055	0.38 +/- 0.095	0.64 +/- 0.31
MW-DU-001	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.18 +/- 0.12 J	0	0.21 +/- 0.13 J	0.39 +/- 0.17	1.1 +/- 1.0
MW-DU-001	SAIC10E	Unfiltered	Alpha Spec.	10/23/2008	pCi/L	0.18 +/- 0.094 J	0.012 +/- 0.024 U	1.1 +/- 0.31	1.3 +/- 0.32	6.0 +/- 3.5
MW-DU-001	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.30 +/- 0.13 J	0.051 +/- 0.059 J	0.20 +/- 0.11 J	0.62 +/- 0.32 J	0.67 +/- 0.47
MW-DU-001	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	0.11 +/- 0.085 J	-8.4E-03 +/- 0.0097 U	0.17 +/- 0.098 J	0.51 +/- 0.29 J	1.5 +/- 1.4
MW-DU-001	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.16 +/- 0.075	0.026 +/- 0.033 U	0.16 +/- 0.075	0.49 +/- 0.22 J	1.0 +/- 0.68
MW-DU-001	SAIC14E	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	0.23 +/- 0.097	-3.1E-03 +/- 0.0062 U	0.24 +/- 0.10	0.72 +/- 0.30	1.1 +/- 0.63
MW-DU-001	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	0.34 +/- 0.12	0.045 +/- 0.045 J	0.12 +/- 0.068 J	0.38 +/- 0.20	0.36 +/- 0.24
MW-DU-001	SAIC16E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	0.18 +/- 0.075	-2.3E-03 +/- 0.0045 U	0.14 +/- 0.066	0.42 +/- 0.20	0.80 +/- 0.51
MW-DU-001	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	0.20 +/- 0.082	0.010 +/- 0.020 U	0.14 +/- 0.069	0.42 +/- 0.21	0.72 +/- 0.47
MW-DU-001	SAIC18E	Unfiltered	Alpha Spec.	10/24/2012	pCi/L	0.19 +/- 0.094 J	0.0070 +/- 0.027 U	0.20 +/- 0.092	0.59 +/- 0.28	1.1 +/- 0.73
MW-1	SAIC09	Unfiltered	Alpha Spec.	04/21/2008	pCi/L	0.22 +/- 0.12 J	0.032 +/- 0.047 U	0.079 +/- 0.066 J	0.33 +/- 0.14	0.35 +/- 0.35
MW-1	SAIC09F	Filtered	Alpha Spec.	04/21/2008	pCi/L	0.18 +/- 0.11 J	0	0.091 +/- 0.077 J	0.27 +/- 0.14	0.50 +/- 0.52
MW-1	SAIC10	Unfiltered	Alpha Spec.	07/31/2008	pCi/L	0.19 +/- 0.12 J	0 0.14 U	0.25 +/- 0.14 J	0.43 +/- 0.22	1.3 +/- 1.1
MW-1	SAIC10F	Filtered	Alpha Spec.	07/31/2008	pCi/L	0.28 +/- 0.14 J	0 0.14 U	0.18 +/- 0.11 J	0.46 +/- 0.23	0.66 +/- 0.54
MW-1	SAIC11	Unfiltered	Alpha Spec.	10/23/2008	pCi/L	0.25 +/- 0.11	0 0.14 U	0.22 +/- 0.10	0.47 +/- 0.20	0.90 +/- 0.58
MW-1	SAIC11F	Filtered	Alpha Spec.	10/23/2008	pCi/L	0.22 +/- 0.10	-5.0E-03 +/- 0.010 U	0.19 +/- 0.096	0.41 +/- 0.14	0.87 +/- 0.59
MW-1	SAIC12	Unfiltered	Alpha Spec.	02/08/2009	pCi/L	0.13 +/- 0.076	-5.0E-03 +/- 0.010	0.14 +/- 0.082	0.26 +/- 0.11	1.1 +/- 0.93
MW-1	SAIC12F	Filtered	Alpha Spec.	02/08/2009	pCi/L	0.34 +/- 0.15	0 0.14	0.19 +/- 0.10	0.53 +/- 0.22	0.57 +/- 0.39
MW-DU-002	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-002	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0.80	U ND
MW-DU-002	SAIC1098D	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0.40	U ND
MW-DU-002	SAIC1098C	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0.60	U ND
MW-DU-002	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-002	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-002	SAIC1099D	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-002	SAIC1099C	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-002	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	ND
MW-DU-002	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	U ND
MW-DU-002	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0.68	ND
MW-DU-002	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-002	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U ND
MW-DU-002	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0	U ND
MW-DU-002	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.90	ND
MW-DU-002	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	1.0	ND
MW-DU-002	SAIC02	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	1.4 +/- 0.40 J	0.094 +/- 0.095 J	0.49 +/- 0.21 LT	2.0 +/- 0.46	ND
MW-DU-002	SAIC03	Unfiltered	Alpha Spec.	05/26/2005	pCi/L	0.90 +/- 0.34 LT	0.040 +/- 0.11 U	0.64 +/- 0.28 LT	1.6 +/- 0.45	ND
MW-DU-002	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	0.69 +/- 0.46 J	0 0.28 U	0.10 +/- 0.24 U	0.79 +/- 0.59	ND
MW-DU-002	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.86 +/- 0.41 LT	0.020 +/- 0.17 U	0.51 +/- 0.31 J	1.4 +/- 0.54	ND
MW-DU-002	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.86 +/- 0.21	0.020 +/- 0.030 U	0.46 +/- 0.14	1.3 +/- 0.25	0.53 +/- 0.21
MW-DU-002	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	0.64 +/- 0.14	0.035 +/- 0.024 J	0.37 +/- 0.092	1.0 +/- 0.17	0.58 +/- 0.19
MW-DU-002	SAIC08	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	0.82 +/- 0.19	0.024 +/- 0.028 U	0.39 +/- 0.11	1.2 +/- 0.22	0.48 +/- 0.17
MW-DU-002	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.95 +/- 0.32	0.020 +/- 0.040 U	0.69 +/- 0.26	1.7 +/- 0.41	0.73 +/- 0.37
MW-DU-002	SAIC10E	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	2.7 +/- 0.67	0.025 +/- 0.036 U	1.2 +/- 0.34	3.9 +/- 0.75	0.45 +/- 0.17
MW-DU-002	SAIC11E	Unfiltered	Alpha Spec.	04/15/2009	pCi/L	1.4 +/- 0.27	0.21 +/- 0.11 J	0.61 +/- 0.17	1.9 +/- 0.52 J	0.45 +/- 0.15
MW-DU-002	SAIC12E	Unfiltered	Alpha Spec.	10/28/2009	pCi/L	1.2 +/- 0.26	0.046 +/- 0.053 J	0.59 +/- 0.18	1.8 +/- 0.53 J	0.50 +/- 0.19
MW-DU-002	SAIC13E	Unfiltered	Alpha Spec.	04/08/2010	pCi/L	1.2 +/- 0.22	0.010 +/- 0.031 U	0.57 +/- 0.15	1.7 +/- 0.44 J	0.48 +/- 0.15
MW-DU-002	SAIC14E	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	1.6 +/- 0.28	0.021 +/- 0.035 U	0.70 +/- 0.18	2.1 +/- 0.52	0.45 +/- 0.14
MW-DU-002	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	0.33 +/- 0.12	0.017 +/- 0.034 U	0.24 +/- 0.097	0.72 +/- 0.29	0.72 +/- 0.39



**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-DU-002	SAIC16E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	3.3 +/- 0.45	0.072 +/- 0.059 J	1.2 +/- 0.23	3.6 +/- 0.70	0.36 +/- 0.087
MW-DU-002	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	0.81 +/- 0.17	0.030 +/- 0.034 J	0.34 +/- 0.11	1.0 +/- 0.32	0.42 +/- 0.16
MW-DU-002	SAIC18E	Unfiltered	Alpha Spec.	10/24/2012	pCi/L	1.2 +/- 0.31	0.023 +/- 0.046 U	0.57 +/- 0.21	1.7 +/- 0.62	0.48 +/- 0.21
MW-2	SAIC09	Unfiltered	Alpha Spec.	04/22/2008	pCi/L	1.4 +/- 0.41	0	0.68 +/- 0.25	2.0 +/- 0.48	0.51 +/- 0.24
MW-2	SAIC09F	Filtered	Alpha Spec.	04/22/2008	pCi/L	1.4 +/- 0.41	0.019 +/- 0.038 U	0.56 +/- 0.22	1.9 +/- 0.47	0.41 +/- 0.21
MW-2	SAIC10	Unfiltered	Alpha Spec.	07/22/2008	pCi/L	1.8 +/- 0.52	0.069 +/- 0.072 J	0.96 +/- 0.31	2.8 +/- 0.61	0.53 +/- 0.23
MW-2	SAIC10F	Filtered	Alpha Spec.	07/22/2008	pCi/L	1.9 +/- 0.54	0.074 +/- 0.077 J	0.87 +/- 0.30	2.9 +/- 0.62	0.45 +/- 0.20
MW-2	SAIC11	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	2.2 +/- 0.55	0.023 +/- 0.033 U	0.92 +/- 0.27	3.1 +/- 0.61	0.42 +/- 0.16
MW-2	SAIC11F	Filtered	Alpha Spec.	10/10/2008	pCi/L	2.0 +/- 0.51	0.055 +/- 0.053 J	0.75 +/- 0.23	2.8 +/- 0.57	0.37 +/- 0.15
MW-2	SAIC12	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	2.1 +/- 0.56	0.067 +/- 0.064 J	0.97 +/- 0.29	3.2 +/- 0.63	0.45 +/- 0.18
MW-2	SAIC12F	Filtered	Alpha Spec.	02/09/2009	pCi/L	1.6 +/- 0.45	0.056 +/- 0.058 J	1.2 +/- 0.34	2.8 +/- 0.57	0.71 +/- 0.28
MW-DU-003	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-003	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0	U ND
MW-DU-003	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-003	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0.70	U ND
MW-DU-003	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	ND
MW-DU-003	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	U ND
MW-DU-003	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-003	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-003	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U ND
MW-DU-003	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0	U ND
MW-DU-003	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.63	ND
MW-DU-003	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	0.79	ND
MW-DU-003	SAIC01D	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	0.78	ND
MW-DU-003	SAIC01C	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	0.79	ND
MW-DU-003	SAIC02	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.87 +/- 0.30 J	0.16 +/- 0.12 J	0.27 +/- 0.15 J	1.3 +/- 0.36	0.31 +/- 0.20
MW-DU-003	SAIC03	Unfiltered	Alpha Spec.	05/25/2005	pCi/L	0.53 +/- 0.25 LT	0.20 +/- 0.16 J	0.26 +/- 0.17 J	0.99 +/- 0.34	ND
MW-DU-003	SAIC03D	Unfiltered	Alpha Spec.	05/25/2005	pCi/L	0.94 +/- 0.34 LT	0.12 +/- 0.16 U	0.52 +/- 0.25 LT	1.6 +/- 0.45	ND
MW-DU-003	SAIC03C	Unfiltered	Alpha Spec.	05/25/2005	pCi/L	0.67 +/- 0.30 LT	0.16 +/- 0.16 U	0.34 +/- 0.21 LT	1.2 +/- 0.40	ND
MW-DU-003	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	0.39 +/- 0.35 J	-9.0E-02 +/- 0.29 U	0.35 +/- 0.31 J	0.65 +/- 0.55	0.90 +/- 1.1
MW-DU-003	SAIC05	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	0.69 +/- 0.36 J	0.050 +/- 0.17 U	0.47 +/- 0.28 J	1.2 +/- 0.49	0.68 +/- 0.54
MW-DU-003	SAIC05D	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	0.72 +/- 0.36 LT	0.030 +/- 0.16 U	0.91 +/- 0.41 LT	1.7 +/- 0.57	ND
MW-DU-003	SAIC05C	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	0.71 +/- 0.36 LT	0.039 +/- 0.17 U	0.61 +/- 0.34 LT	1.4 +/- 0.53	ND
MW-DU-003	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.35 +/- 0.11 J	0.013 +/- 0.028 U	0.16 +/- 0.071	0.52 +/- 0.13	0.45 +/- 0.25
MW-DU-003	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	0.70 +/- 0.15	0.042 +/- 0.029 J	0.46 +/- 0.11	1.2 +/- 0.19	0.66 +/- 0.21
MW-DU-003	SAIC08	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	0.55 +/- 0.15	0.059 +/- 0.058 U	0.33 +/- 0.12	0.94 +/- 0.20	0.60 +/- 0.27
MW-DU-003	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.44 +/- 0.19	0	0.15 +/- 0.098 J	0.59 +/- 0.21	0.33 +/- 0.26
MW-DU-003	SAIC10E	Unfiltered	Alpha Spec.	10/07/2008	pCi/L	0.65 +/- 0.21	-5.0E-03 +/- 0.010 U	0.25 +/- 0.11	0.89 +/- 0.24	0.38 +/- 0.21
MW-DU-003	SAIC10DE	Unfiltered	Alpha Spec.	10/07/2008	pCi/L	0.63 +/- 0.21	0.037 +/- 0.044 J	0.36 +/- 0.14	1.0 +/- 0.26	0.57 +/- 0.29
MW-DU-003	SAIC10EC	Unfiltered	Alpha Spec.	10/07/2008	pCi/L	0.64 +/- 0.21	-2.9E-03 +/- 0.027 J	0.29 +/- 0.13	0.96 +/- 0.25	0.45 +/- 0.25
MW-DU-003	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.65 +/- 0.18 J	0.041 +/- 0.052 U	0.34 +/- 0.12	1.0 +/- 0.37 J	0.52 +/- 0.23
MW-DU-003	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	0.53 +/- 0.17	0.041 +/- 0.055 U	0.31 +/- 0.13	0.95 +/- 0.39 J	0.58 +/- 0.31
MW-DU-003	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.70 +/- 0.16	0.0080 +/- 0.021 U	0.41 +/- 0.12	1.2 +/- 0.36 J	0.59 +/- 0.22
MW-DU-003	SAIC14E	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	0.75 +/- 0.17	0.027 +/- 0.038 U	0.39 +/- 0.12	1.2 +/- 0.36	0.52 +/- 0.20
MW-DU-003	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	0.85 +/- 0.20	0.047 +/- 0.051 U	0.38 +/- 0.13	1.1 +/- 0.39	0.45 +/- 0.19
MW-DU-003	SAIC16E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	0.42 +/- 0.12	-2.5E-03 +/- 0.0050 U	0.34 +/- 0.11	1.0 +/- 0.32	0.81 +/- 0.35
MW-DU-003	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	0.65 +/- 0.15	-2.4E-03 +/- 0.0048 U	0.30 +/- 0.10	0.89 +/- 0.30	0.46 +/- 0.19
MW-DU-003	SAIC18E	Unfiltered	Alpha Spec.	10/24/2012	pCi/L	0.73 +/- 0.26	-1.3E-02 +/- 0.019 U	0.39 +/- 0.20 J	1.2 +/- 0.59	0.53 +/- 0.33
MW-3	SAIC09	Unfiltered	Alpha Spec.	04/22/2008	pCi/L	0.54 +/- 0.21	0.010 +/- 0.037 U	0.24 +/- 0.13 J	0.79 +/- 0.25	0.43 +/- 0.29
MW-3	SAIC09F	Filtered	Alpha Spec.	04/22/2008	pCi/L	0.40 +/- 0.18	0.018 +/- 0.037 U	0.13 +/- 0.094 J	0.55 +/- 0.21	0.33 +/- 0.28
MW-3	SAIC10	Unfiltered	Alpha Spec.	07/22/2008	pCi/L	0.52 +/- 0.20	0	0.14 U	0.34 +/- 0.16	0.66 +/- 0.39

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-3	SAIC10D	Unfiltered	Alpha Spec.	07/22/2008	pCi/L	0.36 +/- 0.17	0.038 +/- 0.055 U	0.29 +/- 0.15 J	0.69 +/- 0.23	0.82 +/- 0.57
MW-3	SAIC10C	Unfiltered	Alpha Spec.	07/22/2008	pCi/L	0.42 +/- 0.18	0.033 +/- 0.095 U	0.32 +/- 0.15 J	0.76 +/- 0.26	0.75 +/- 0.49
MW-3	SAIC10F	Filtered	Alpha Spec.	07/22/2008	pCi/L	0.45 +/- 0.19	0.036 +/- 0.052 U	0.22 +/- 0.12 J	0.70 +/- 0.23	0.48 +/- 0.34
MW-3	SAIC10DF	Filtered	Alpha Spec.	07/22/2008	pCi/L	0.43 +/- 0.18	0.035 +/- 0.051 U	0.26 +/- 0.13 J	0.72 +/- 0.23	0.60 +/- 0.40
MW-3	SAIC10FC	Filtered	Alpha Spec.	07/22/2008	pCi/L	0.44 +/- 0.19	0.035 +/- 0.051 U	0.23 +/- 0.13 J	0.71 +/- 0.23	0.53 +/- 0.37
MW-3	SAIC11	Unfiltered	Alpha Spec.	10/07/2008	pCi/L	0.48 +/- 0.17	0.012 +/- 0.025 U	0.24 +/- 0.11	0.73 +/- 0.21	0.50 +/- 0.29
MW-3	SAIC11F	Filtered	Alpha Spec.	10/07/2008	pCi/L	0.50 +/- 0.18	0 0.14 U	0.21 +/- 0.10	0.71 +/- 0.24	0.41 +/- 0.25
MW-3	SAIC12	Unfiltered	Alpha Spec.	02/06/2009	pCi/L	0.41 +/- 0.16	-1.0E-02 +/- 0.014	0.32 +/- 0.13	0.72 +/- 0.21	0.78 +/- 0.44
MW-3	SAIC12D	Unfiltered	Alpha Spec.	02/06/2009	pCi/L	0.50 +/- 0.19	0.030 +/- 0.044	0.24 +/- 0.12	0.78 +/- 0.23	0.49 +/- 0.30
MW-3	SAIC12C	Unfiltered	Alpha Spec.	02/06/2009	pCi/L	0.45 +/- 0.17	-6.3E-03 +/- 0.029	0.28 +/- 0.13	0.74 +/- 0.22	0.62 +/- 0.38
MW-3	SAIC12F	Filtered	Alpha Spec.	02/06/2009	pCi/L	0.45 +/- 0.18	0.039 +/- 0.055	0.26 +/- 0.13	0.75 +/- 0.23	0.58 +/- 0.36
MW-3	SAIC12DF	Filtered	Alpha Spec.	02/06/2009	pCi/L	0.38 +/- 0.15	0 0.14	0.23 +/- 0.11	0.61 +/- 0.23	0.62 +/- 0.39
MW-3	SAIC12FC	Filtered	Alpha Spec.	02/06/2009	pCi/L	0.41 +/- 0.17	0.033 +/- 0.095	0.25 +/- 0.12	0.68 +/- 0.23	0.60 +/- 0.38
MW-DU-004	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-004	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	4.0	ND
MW-DU-004	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	ND
MW-DU-004	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	4.0	ND
MW-DU-004	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	1.1	ND
MW-DU-004	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	ND
MW-DU-004	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0	ND
MW-DU-004	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	ND
MW-DU-004	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	ND
MW-DU-004	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0	ND
MW-DU-004	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.74	ND
MW-DU-004	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--	0.43	ND
MW-DU-004	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.65 +/- 0.26 J	0.11 +/- 0.11 J	0.29 +/- 0.16 J	1.1 +/- 0.32	0.45 +/- 0.30
MW-DU-004	SAIC02D	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.51 +/- 0.22 J	0.039 +/- 0.083 U	0.37 +/- 0.19 J	0.92 +/- 0.30	0.73 +/- 0.49
MW-DU-004	SAIC02C	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.57 +/- 0.24 J	0.065 +/- 0.097 U	0.32 +/- 0.17 J	0.98 +/- 0.31	0.57 +/- 0.39
MW-DU-004	SAIC03	Unfiltered	Alpha Spec.	05/25/2005	pCi/L	0.58 +/- 0.27 LT	0.21 +/- 0.16 J	0.33 +/- 0.19 J	1.1 +/- 0.37	ND
MW-DU-004	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	1.4 +/- 0.64	0.040 +/- 0.27 U	0.89 +/- 0.51 J	2.3 +/- 0.86	0.65 +/- 0.48
MW-DU-004	SAIC05	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	0.54 +/- 0.33 J	0.070 +/- 0.17 U	0.15 +/- 0.21 U	0.76 +/- 0.43	ND
MW-DU-004	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.36 +/- 0.12 J	0 0.031 U	0.24 +/- 0.092	0.60 +/- 0.15	0.66 +/- 0.34
MW-DU-004	SAIC06D	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.33 +/- 0.11 J	0.030 +/- 0.030 J	0.26 +/- 0.092	0.62 +/- 0.15	0.79 +/- 0.38
MW-DU-004	SAIC06C	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.34 +/- 0.12 J	0.015 +/- 0.031 J	0.25 +/- 0.092	0.61 +/- 0.15	0.73 +/- 0.36
MW-DU-004	SAIC07	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.44 +/- 0.10	0.024 +/- 0.030 U	0.35 +/- 0.091	0.81 +/- 0.14	0.79 +/- 0.27
MW-DU-004	SAIC08	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	1.5 +/- 0.29	0.084 +/- 0.053 J	1.3 +/- 0.25	2.8 +/- 0.39	0.86 +/- 0.24
MW-DU-004	SAIC08D	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	1.5 +/- 0.34 M3	0.082 +/- 0.056 J	1.4 +/- 0.31	3.0 +/- 0.46	0.89 +/- 0.29
MW-DU-004	SAIC08C	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	1.5 +/- 0.31 M3	0.083 +/- 0.055 J	1.3 +/- 0.28	2.9 +/- 0.42	0.87 +/- 0.26
MW-DU-004	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.090 +/- 0.076 J	0.018 +/- 0.037 U	0.078 +/- 0.077 U	0.19 +/- 0.11	ND
MW-DU-004	SAIC10E	Unfiltered	Alpha Spec.	10/06/2008	pCi/L	1.3 +/- 0.35	0.092 +/- 0.071 J	1.0 +/- 0.29	2.4 +/- 0.46	0.79 +/- 0.31
MW-DU-004	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.42 +/- 0.14 J	0.013 +/- 0.027 U	0.37 +/- 0.13	1.1 +/- 0.39 J	0.88 +/- 0.43
MW-DU-004	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	0.28 +/- 0.12	0 0.014 U	0.31 +/- 0.13	0.92 +/- 0.38 J	1.1 +/- 0.66
MW-DU-004	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.30 +/- 0.098	0.016 +/- 0.026 U	0.23 +/- 0.085	0.70 +/- 0.25 J	0.77 +/- 0.38
MW-DU-004	SAIC14E	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	0.59 +/- 0.16	0.040 +/- 0.047 U	0.68 +/- 0.17	2.0 +/- 0.50	1.2 +/- 0.43
MW-DU-004	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	0.37 +/- 0.12	0 0.011 U	0.20 +/- 0.083	0.58 +/- 0.25	0.53 +/- 0.28
MW-DU-004	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	1.7 +/- 0.27	0.073 +/- 0.052 J	1.3 +/- 0.22	3.9 +/- 0.66	0.76 +/- 0.18
MW-DU-004	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	0.51 +/- 0.14	0.018 +/- 0.029 U	0.52 +/- 0.14	1.6 +/- 0.41	1.0 +/- 0.39
MW-DU-004	SAIC18E	Unfiltered	Alpha Spec.	10/24/2012	pCi/L	1.3 +/- 0.24	0.092 +/- 0.066 J	1.1 +/- 0.22	3.2 +/- 0.64	0.84 +/- 0.23
MW-4	SAIC09	Unfiltered	Alpha Spec.	04/15/2008	pCi/L	0.51 +/- 0.21	0.040 +/- 0.058 U	0.52 +/- 0.21	1.1 +/- 0.31	1.0 +/- 0.60
MW-4	SAIC09F	Filtered	Alpha Spec.	04/15/2008	pCi/L	0.49 +/- 0.21	0.043 +/- 0.062 U	0.54 +/- 0.23	1.1 +/- 0.32	1.1 +/- 0.67
MW-4	SAIC10	Unfiltered	Alpha Spec.	07/21/2008	pCi/L	0.99 +/- 0.33	0.054 +/- 0.064 J	0.67 +/- 0.25	1.7 +/- 0.41	0.67 +/- 0.33

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-4	SAIC10D	Unfiltered	Alpha Spec.	07/21/2008	pCi/L	0.80 +/- 0.28	0.035 +/- 0.051 U	0.64 +/- 0.24	1.5 +/- 0.37	0.80 +/- 0.41
MW-4	SAIC10C	Unfiltered	Alpha Spec.	07/21/2008	pCi/L	0.88 +/- 0.30	0.042 +/- 0.057 U	0.65 +/- 0.24	1.6 +/- 0.39	0.74 +/- 0.37
MW-4	SAIC10F	Filtered	Alpha Spec.	07/21/2008	pCi/L	0.73 +/- 0.26	0.034 +/- 0.049 U	0.80 +/- 0.27	1.6 +/- 0.38	1.1 +/- 0.54
MW-4	SAIC10DF	Filtered	Alpha Spec.	07/21/2008	pCi/L	0.80 +/- 0.28	0.035 +/- 0.050 U	0.64 +/- 0.24	1.5 +/- 0.37	0.80 +/- 0.41
MW-4	SAIC10FC	Filtered	Alpha Spec.	07/21/2008	pCi/L	0.76 +/- 0.27	0.034 +/- 0.050 U	0.71 +/- 0.26	1.5 +/- 0.37	0.93 +/- 0.47
MW-4	SAIC11	Unfiltered	Alpha Spec.	10/06/2008	pCi/L	1.0 +/- 0.30	0.025 +/- 0.036 U	1.1 +/- 0.31	2.1 +/- 0.43	1.1 +/- 0.44
MW-4	SAIC11F	Filtered	Alpha Spec.	10/06/2008	pCi/L	1.00 +/- 0.29	0.035 +/- 0.042 J	0.97 +/- 0.28	2.0 +/- 0.41	0.98 +/- 0.40
MW-4	SAIC12	Unfiltered	Alpha Spec.	02/06/2009	pCi/L	0.41 +/- 0.16	0.0080 +/- 0.029	0.41 +/- 0.16	0.82 +/- 0.23	1.00 +/- 0.55
MW-4	SAIC12F	Filtered	Alpha Spec.	02/06/2009	pCi/L	0.36 +/- 0.14	0.0070 +/- 0.027	0.32 +/- 0.13	0.69 +/- 0.20	0.89 +/- 0.51
MW-DU-005	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-005	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0 U	ND
MW-DU-005	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0 U	ND
MW-DU-005	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0 U	ND
MW-DU-005	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	ND
MW-DU-005	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0 U	ND
MW-DU-005	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0 U	ND
MW-DU-005	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0 U	ND
MW-DU-005	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0 U	ND
MW-DU-005	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0 U	ND
MW-DU-005	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.28	ND
MW-DU-005	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	0.33	ND
MW-DU-005	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.24 +/- 0.14 J	0.073 +/- 0.091 U	0.077 +/- 0.087 U	0.39 +/- 0.19	ND
MW-DU-005	SAIC03	Unfiltered	Alpha Spec.	05/26/2005	pCi/L	0.48 +/- 0.21 J	0.093 +/- 0.097 UJ	0.19 +/- 0.12 J	0.76 +/- 0.26	0.40 +/- 0.30
MW-DU-005	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	0.24 +/- 0.29 U	0.29 +/- 0.34 U	0.090 +/- 0.25 U	ND	ND
MW-DU-005	SAIC04D	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	0.50 +/- 0.37 J	0 0.27 U	0.31 +/- 0.29 J	0.81 +/- 0.54	0.62 +/- 0.74
MW-DU-005	SAIC04C	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	0.34 +/- 0.33 J	0.11 +/- 0.31 U	0.18 +/- 0.27 J	0.81 +/-	0.54 +/- 0.96
MW-DU-005	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.30 +/- 0.25 U	0.040 +/- 0.17 U	0.22 +/- 0.22 U	ND	ND
MW-DU-005	SAIC07	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.20 +/- 0.065	-9.0E-03 +/- 0.021 U	0.12 +/- 0.051	0.31 +/- 0.085	0.58 +/- 0.32
MW-DU-005	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.22 +/- 0.070 J	0.029 +/- 0.030 U	0.11 +/- 0.048	0.36 +/- 0.090	0.48 +/- 0.26
MW-DU-005	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.16 +/- 0.11 J	-7.0E-03 +/- 0.015 U	0.089 +/- 0.076 J	0.24 +/- 0.13	0.56 +/- 0.61
MW-DU-005	SAIC09DE	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.24 +/- 0.13 J	0	0.11 +/- 0.087 J	0.35 +/- 0.16	0.46 +/- 0.45
MW-DU-005	SAIC09EC	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.19 +/- 0.12 J	-3.5E-03 +/-	0.098 +/- 0.081 J	0.28 +/- 0.15	0.52 +/- 0.54
MW-DU-005	SAIC10E	Unfiltered	Alpha Spec.	10/21/2008	pCi/L	0.047 +/- 0.043 J	0 0.14 U	0.065 +/- 0.051 J	0.11 +/- 0.15	1.4 +/- 1.7
MW-DU-005	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.29 +/- 0.14 J	0.012 +/- 0.047 U	0.20 +/- 0.11 J	0.60 +/- 0.32 J	0.69 +/- 0.50
MW-DU-005	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	0.19 +/- 0.094	0.025 +/- 0.039 U	0.13 +/- 0.076 J	0.39 +/- 0.23 J	0.68 +/- 0.52
MW-DU-005	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.14 +/- 0.069 J	0 0.0093 U	0.086 +/- 0.055 J	0.26 +/- 0.16 J	0.63 +/- 0.52
MW-DU-005	SAIC14E	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	0.26 +/- 0.10	0.011 +/- 0.022 U	0.13 +/- 0.070 J	0.40 +/- 0.21	0.50 +/- 0.33
MW-DU-005	SAIC15E	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	0.24 +/- 0.093	0.015 +/- 0.029 U	0.19 +/- 0.081	0.58 +/- 0.24	0.81 +/- 0.47
MW-DU-005	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	0.35 +/- 0.11	0.036 +/- 0.039 U	0.21 +/- 0.083	0.65 +/- 0.25	0.61 +/- 0.30
MW-DU-005	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	0.23 +/- 0.091	0.011 +/- 0.021 U	0.098 +/- 0.060 J	0.30 +/- 0.18	0.43 +/- 0.32
MW-DU-005	SAIC18E	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	0.12 +/- 0.075 J	0.013 +/- 0.025 U	0.061 +/- 0.050 J	0.19 +/- 0.15	0.53 +/- 0.56
MW-5	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.16 +/- 0.10 J	0	0.17 +/- 0.11 J	0.33 +/- 0.15	1.1 +/- 0.97
MW-5	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0.11 +/- 0.078 J	0	0.066 +/- 0.060 J	0.17 +/- 0.098	0.63 +/- 0.74
MW-5	SAIC10	Unfiltered	Alpha Spec.	07/29/2008	pCi/L	0.18 +/- 0.11 J	0 0.14 U	0.11 +/- 0.083 J	0.29 +/- 0.19	0.58 +/- 0.58
MW-5	SAIC10F	Filtered	Alpha Spec.	07/29/2008	pCi/L	0.16 +/- 0.11 J	0 0.14 U	0.10 +/- 0.082 J	0.27 +/- 0.19	0.63 +/- 0.64
MW-5	SAIC11	Unfiltered	Alpha Spec.	10/21/2008	pCi/L	0.16 +/- 0.088 J	-5.0E-03 +/- 0.010 U	0.060 +/- 0.051 J	0.22 +/- 0.10	0.37 +/- 0.38
MW-5	SAIC11F	Filtered	Alpha Spec.	10/21/2008	pCi/L	0.091 +/- 0.064 J	0 0.14 U	0.028 +/- 0.033 J	0.12 +/- 0.15	0.31 +/- 0.42
MW-5	SAIC12	Unfiltered	Alpha Spec.	02/05/2009	pCi/L	0.14 +/- 0.082 J	-5.0E-03 +/- 0.010	0.12 +/- 0.075 J	0.26 +/- 0.11	0.85 +/- 0.72
MW-5	SAIC12F	Filtered	Alpha Spec.	02/05/2009	pCi/L	0.18 +/- 0.10 J	0.0030 +/- 0.033	0.059 +/- 0.054 J	0.25 +/- 0.12	0.32 +/- 0.35
MW-DU-006	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	4.0	ND
MW-DU-006	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	3.0	ND

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-DU-006	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	4.0	ND
MW-DU-006	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	4.0	ND
MW-DU-006	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	2.2	ND
MW-DU-006	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	3.2	ND
MW-DU-006	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	2.7	ND
MW-DU-006	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-006	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0.37	U ND
MW-DU-006	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	2.2	ND
MW-DU-006	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	2.4	ND
MW-DU-006	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	6.2	ND
MW-DU-006	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	2.5 +/- 0.59	0.14 +/- 0.12 J	2.2 +/- 0.54	4.8 +/- 0.81	0.87 +/- 0.30
MW-DU-006	SAIC03	Unfiltered	Alpha Spec.	05/26/2005	pCi/L	2.7 +/- 0.69	0.40 +/- 0.24 J	2.1 +/- 0.58	5.3 +/- 0.93	0.78 +/- 0.29
MW-DU-006	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	2.2 +/- 0.89	0.17 +/- 0.31 U	2.0 +/- 0.83	4.4 +/- 1.3	0.90 +/- 0.52
MW-DU-006	SAIC05	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	2.6 +/- 0.75	0.020 +/- 0.16 U	1.3 +/- 0.49	3.9 +/- 0.91	0.50 +/- 0.24
MW-DU-006	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	2.1 +/- 0.43	0.089 +/- 0.057 J	1.7 +/- 0.36	3.9 +/- 0.56	0.82 +/- 0.24
MW-DU-006	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	1.8 +/- 0.32	0.097 +/- 0.045 LT	1.6 +/- 0.30	3.5 +/- 0.44	0.92 +/- 0.24
MW-DU-006	SAIC08	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	2.4 +/- 0.42	0.13 +/- 0.055	2.0 +/- 0.37	4.5 +/- 0.56	0.85 +/- 0.22
MW-DU-006	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.76 +/- 0.28	0.012 +/- 0.042 U	0.79 +/- 0.28	1.6 +/- 0.40	1.0 +/- 0.54
MW-DU-006	SAIC10E	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	2.2 +/- 0.56	0.099 +/- 0.076 J	2.0 +/- 0.51	4.2 +/- 0.76	0.90 +/- 0.33
MW-DU-006	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	1.2 +/- 0.24	0.12 +/- 0.078 J	1.1 +/- 0.22	3.2 +/- 0.66	0.87 +/- 0.25
MW-DU-006	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	1.9 +/- 0.34	0.11 +/- 0.082 J	1.7 +/- 0.33	5.2 +/- 0.97	0.94 +/- 0.25
MW-DU-006	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	1.8 +/- 0.29	0.10 +/- 0.065 J	1.3 +/- 0.23	4.0 +/- 0.69	0.72 +/- 0.17
MW-DU-006	SAIC14E	Unfiltered	Alpha Spec.	10/15/2010	pCi/L	3.0 +/- 0.43	0.13 +/- 0.084 J	2.6 +/- 0.40	7.9 +/- 1.2	0.88 +/- 0.18
MW-DU-006	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	1.6 +/- 0.28	0.046 +/- 0.047 J	1.2 +/- 0.23	3.5 +/- 0.68	0.70 +/- 0.18
MW-DU-006	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	2.2 +/- 0.32	0.076 +/- 0.054 J	1.8 +/- 0.28	5.3 +/- 0.82	0.80 +/- 0.17
MW-DU-006	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	1.6 +/- 0.31	0.12 +/- 0.087 J	1.4 +/- 0.29	4.3 +/- 0.87	0.92 +/- 0.26
MW-DU-006	SAIC18E	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	2.0 +/- 0.34	0.088 +/- 0.072 J	1.6 +/- 0.30	4.9 +/- 0.89	0.80 +/- 0.20
MW-DU-006T1	SAIC01	Unfiltered	ICP-MS	04/25/2007	µg/L	--	0.0046	U 4.5	4.5	ND
MW-6	SAIC09	Unfiltered	Alpha Spec.	04/15/2008	pCi/L	1.1 +/- 0.36	0	U 0.84 +/- 0.31	1.9 +/- 0.48	0.80 +/- 0.40
MW-6	SAIC09F	Filtered	Alpha Spec.	04/15/2008	pCi/L	0.83 +/- 0.30	0	U 0.62 +/- 0.24	1.4 +/- 0.38	0.75 +/- 0.40
MW-6	SAIC10	Unfiltered	Alpha Spec.	07/30/2008	pCi/L	1.9 +/- 0.54	0.13 +/- 0.11 J	1.6 +/- 0.47	3.6 +/- 0.72	0.84 +/- 0.34
MW-6	SAIC10F	Filtered	Alpha Spec.	07/30/2008	pCi/L	1.5 +/- 0.43	0.071 +/- 0.074 J	1.0 +/- 0.34	2.6 +/- 0.55	0.72 +/- 0.31
MW-6	SAIC11	Unfiltered	Alpha Spec.	10/21/2008	pCi/L	2.4 +/- 0.59	0.059 +/- 0.056 J	1.8 +/- 0.47	4.3 +/- 0.76	0.77 +/- 0.28
MW-6	SAIC11F	Filtered	Alpha Spec.	10/21/2008	pCi/L	2.0 +/- 0.50	0.055 +/- 0.052 J	1.7 +/- 0.44	3.7 +/- 0.67	0.84 +/- 0.31
MW-6	SAIC12	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	1.5 +/- 0.42	0.056 +/- 0.058 J	1.3 +/- 0.36	2.8 +/- 0.56	0.84 +/- 0.33
MW-6	SAIC12F	Filtered	Alpha Spec.	02/09/2009	pCi/L	0.79 +/- 0.25	0.014 +/- 0.028	0.42 +/- 0.17	1.2 +/- 0.30	0.53 +/- 0.27
MW-DU-007	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-007	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0	U ND
MW-DU-007	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0.40	U ND
MW-DU-007	SAIC0499D	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0.40	U ND
MW-DU-007	SAIC0499C	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0.40	U ND
MW-DU-007	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-007	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	1.5	ND
MW-DU-007	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	U ND
MW-DU-007	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-007	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-007	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U ND
MW-DU-007	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0	U ND
MW-DU-007	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	1.5	ND
MW-DU-007	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	1.7	ND
MW-DU-007	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	1.2 +/- 0.37 J	0.14 +/- 0.12 J	0.87 +/- 0.30 LT	2.2 +/- 0.49	ND

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-DU-007	SAIC03	Unfiltered	Alpha Spec.	05/25/2005	pCi/L	1.4 +/- 0.42	0.25 +/- 0.17 J	1.1 +/- 0.36	2.7 +/- 0.58	0.78 +/- 0.35
MW-DU-007	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	1.5 +/- 0.67	0.040 +/- 0.28 U	0.49 +/- 0.39 J	2.0 +/- 0.82	0.34 +/- 0.31
MW-DU-007	SAIC05	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	1.3 +/- 0.51	0.050 +/- 0.18 U	0.91 +/- 0.41 LT	2.3 +/- 0.68	ND
MW-DU-007	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	1.2 +/- 0.26	0.052 +/- 0.042 J	0.71 +/- 0.18	2.0 +/- 0.32	0.60 +/- 0.20
MW-DU-007	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	1.2 +/- 0.23	0.052 +/- 0.030 J	0.81 +/- 0.17	2.1 +/- 0.29	0.66 +/- 0.19
MW-DU-007	SAIC08	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	1.2 +/- 0.24	0.070 +/- 0.046 J	0.71 +/- 0.17	2.0 +/- 0.30	0.60 +/- 0.19
MW-DU-007	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	1.0 +/- 0.32 R	0.026 +/- 0.049 R	0.85 +/- 0.28 R	1.9 +/- 0.43	0.84 +/- 0.39
MW-DU-007	SAIC10E	Unfiltered	Alpha Spec.	10/07/2008	pCi/L	0.57 +/- 0.19	0.019 +/- 0.036 U	0.22 +/- 0.10	0.81 +/- 0.22	0.39 +/- 0.22
MW-DU-007	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	1.4 +/- 0.28	0.10 +/- 0.076 J	0.86 +/- 0.21	2.6 +/- 0.64 J	0.61 +/- 0.19
MW-DU-007	SAIC11DE	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	1.3 +/- 0.25	0.079 +/- 0.062 J	0.78 +/- 0.18	2.4 +/- 0.55 J	0.61 +/- 0.18
MW-DU-007	SAIC11EC	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	1.3 +/- 0.27	0.087 +/- 0.069 J	0.81 +/- 0.19	2.5 +/- 0.60 J	0.61 +/- 0.19
MW-DU-007	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	1.1 +/- 0.23	0.059 +/- 0.061 U	0.70 +/- 0.18	2.1 +/- 0.55 J	0.66 +/- 0.22
MW-DU-007	SAIC12DE	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	1.1 +/- 0.26	0.072 +/- 0.071 U	0.53 +/- 0.17	1.6 +/- 0.51 J	0.47 +/- 0.19
MW-DU-007	SAIC12EC	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	1.1 +/- 0.25	0.065 +/- 0.066 U	0.61 +/- 0.17	1.9 +/- 0.53 J	0.56 +/- 0.20
MW-DU-007	SAIC13E	Unfiltered	Alpha Spec.	04/07/2010	pCi/L	1.3 +/- 0.22	0.038 +/- 0.038 J	0.76 +/- 0.17	2.3 +/- 0.49 J	0.59 +/- 0.17
MW-DU-007	SAIC13DE	Unfiltered	Alpha Spec.	04/07/2010	pCi/L	1.3 +/- 0.22	0.054 +/- 0.049 U	0.66 +/- 0.15	2.0 +/- 0.45 J	0.53 +/- 0.15
MW-DU-007	SAIC13EC	Unfiltered	Alpha Spec.	04/07/2010	pCi/L	1.3 +/- 0.22	0.044 +/- 0.043 U	0.70 +/- 0.16	2.1 +/- 0.47 J	0.56 +/- 0.16
MW-DU-007	SAIC14E	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	0.81 +/- 0.18	0.0080 +/- 0.023 U	0.34 +/- 0.11	1.0 +/- 0.34	0.42 +/- 0.16
MW-DU-007	SAIC14DE	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	0.79 +/- 0.18	0.045 +/- 0.045 J	0.37 +/- 0.12	1.1 +/- 0.36	0.47 +/- 0.19
MW-DU-007	SAIC14EC	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	0.80 +/- 0.18	0.016 +/- 0.034 J	0.35 +/- 0.12	1.1 +/- 0.35	0.44 +/- 0.17
MW-DU-007	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	1.4 +/- 0.28	0.052 +/- 0.064 U	0.69 +/- 0.19	2.1 +/- 0.55	0.49 +/- 0.17
MW-DU-007	SAIC15DE	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	1.9 +/- 0.33	0.034 +/- 0.047 U	0.76 +/- 0.19	2.3 +/- 0.57	0.39 +/- 0.12
MW-DU-007	SAIC15EC	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	1.6 +/- 0.31	0.040 +/- 0.055 U	0.73 +/- 0.19	2.2 +/- 0.56	0.45 +/- 0.14
MW-DU-007	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	1.1 +/- 0.19	0.054 +/- 0.041 J	0.69 +/- 0.14	2.1 +/- 0.43	0.62 +/- 0.16
MW-DU-007	SAIC16DE	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	1.3 +/- 0.24	0.028 +/- 0.035 U	0.91 +/- 0.19	2.7 +/- 0.56	0.69 +/- 0.19
MW-DU-007	SAIC16EC	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	1.2 +/- 0.22	0.039 +/- 0.038 U	0.77 +/- 0.17	2.4 +/- 0.50	0.64 +/- 0.18
MW-DU-007	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	1.0 +/- 0.21	0.040 +/- 0.043 U	0.72 +/- 0.17	2.2 +/- 0.50	0.70 +/- 0.22
MW-DU-007	SAIC17DE	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	1.1 +/- 0.22	0.041 +/- 0.047 U	0.69 +/- 0.17	2.1 +/- 0.51	0.65 +/- 0.21
MW-DU-007	SAIC17EC	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	1.0 +/- 0.22	0.040 +/- 0.045 U	0.71 +/- 0.17	2.1 +/- 0.51	0.68 +/- 0.21
MW-DU-007	SAIC18E	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	1.3 +/- 0.25	0.076 +/- 0.062 J	0.82 +/- 0.19	2.5 +/- 0.58	0.65 +/- 0.20
MW-DU-007	SAIC18DE	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	1.0 +/- 0.29	0.023 +/- 0.046 U	0.72 +/- 0.24	2.2 +/- 0.71	0.71 +/- 0.31
MW-DU-007	SAIC18EC	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	1.2 +/- 0.27	0.042 +/- 0.054 U	0.78 +/- 0.22	2.3 +/- 0.65	0.68 +/- 0.24
MW-7	SAIC09	Unfiltered	Alpha Spec.	04/09/2008	pCi/L	0.89 +/- 0.34	0.011 +/- 0.059 U	0.52 +/- 0.24	1.4 +/- 0.41	0.58 +/- 0.34
MW-7	SAIC09F	Filtered	Alpha Spec.	04/09/2008	pCi/L	0.65 +/- 0.26	0.024 +/- 0.048 U	0.40 +/- 0.20	1.1 +/- 0.33	0.62 +/- 0.39
MW-7	SAIC10	Unfiltered	Alpha Spec.	07/22/2008	pCi/L	0.51 +/- 0.21	0.019 +/- 0.039 U	0.48 +/- 0.20	1.0 +/- 0.29	0.94 +/- 0.55
MW-7	SAIC10F	Filtered	Alpha Spec.	07/22/2008	pCi/L	0.58 +/- 0.22	0.018 +/- 0.037 U	0.34 +/- 0.16	0.93 +/- 0.28	0.59 +/- 0.36
MW-7	SAIC11	Unfiltered	Alpha Spec.	10/07/2008	pCi/L	0.60 +/- 0.20	0.012 +/- 0.023 U	0.40 +/- 0.15	1.0 +/- 0.25	0.67 +/- 0.34
MW-7	SAIC11F	Filtered	Alpha Spec.	10/07/2008	pCi/L	0.39 +/- 0.16	0 0.14 U	0.37 +/- 0.15	0.76 +/- 0.25	0.94 +/- 0.53
MW-7	SAIC12	Unfiltered	Alpha Spec.	02/08/2009	pCi/L	0.72 +/- 0.27	0.020 +/- 0.041	0.59 +/- 0.24	1.3 +/- 0.36	0.82 +/- 0.45
MW-7	SAIC12F	Filtered	Alpha Spec.	02/08/2009	pCi/L	1.5 +/- 0.42	0.048 +/- 0.057	0.67 +/- 0.24	2.2 +/- 0.49	0.46 +/- 0.21
MW-DU-008	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-008	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0	U ND
MW-DU-008	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0.40	U ND
MW-DU-008	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-008	SAIC1099D	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-008	SAIC1099C	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-008	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	ND
MW-DU-008	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	U ND
MW-DU-008	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-008	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-008	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U ND

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-DU-008	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0 U	ND
MW-DU-008	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.46	ND
MW-DU-008	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--	0.33	ND
MW-DU-008	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.54 +/- 0.23 J	0.080 +/- 0.10 U	0.30 +/- 0.17 J	0.92 +/- 0.30	0.56 +/- 0.39
MW-DU-008	SAIC03	Unfiltered	Alpha Spec.	05/25/2005	pCi/L	0.28 +/- 0.19 J	0.12 +/- 0.12 J	0.21 +/- 0.15 J	0.61 +/- 0.27	0.75 +/- 0.74
MW-DU-008	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	0.69 +/- 0.45 J	0.060 +/- 0.27 U	0.11 +/- 0.23 U	0.86 +/- 0.57	ND
MW-DU-008	SAIC05	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	0.27 +/- 0.22 J	0.080 +/- 0.17 U	0.23 +/- 0.20 J	0.58 +/- 0.34	0.85 +/- 1.0
MW-DU-008	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.23 +/- 0.089 J	0.0090 +/- 0.028 U	0.25 +/- 0.091	0.49 +/- 0.13	1.1 +/- 0.57
MW-DU-008	SAIC07	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.21 +/- 0.069	0.034 +/- 0.030 U	0.19 +/- 0.066	0.43 +/- 0.10	0.93 +/- 0.45
MW-DU-008	SAIC07D	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.15 +/- 0.059	0.037 +/- 0.028 J	0.20 +/- 0.065	0.39 +/- 0.092	1.3 +/- 0.68
MW-DU-008	SAIC07C	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.17 +/- 0.064	0.036 +/- 0.029 J	0.20 +/- 0.066	0.41 +/- 0.096	1.1 +/- 0.56
MW-DU-008	SAIC08	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	0.31 +/- 0.089	0.029 +/- 0.027 U	0.22 +/- 0.072	0.56 +/- 0.12	0.70 +/- 0.30
MW-DU-008	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.084 +/- 0.076 J	0	0.15 +/- 0.10 J	0.23 +/- 0.13	1.8 +/- 2.0
MW-DU-008	SAIC10E	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.22 +/- 0.099	0.033 +/- 0.040 J	0.35 +/- 0.13	0.60 +/- 0.17	1.6 +/- 0.97
MW-DU-008	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.24 +/- 0.11 J	0.046 +/- 0.054 U	0.18 +/- 0.094 J	0.57 +/- 0.28 J	0.77 +/- 0.53
MW-DU-008	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	0.35 +/- 0.14	-3.2E-03 +/- 0.0065 U	0.31 +/- 0.14	0.92 +/- 0.40 J	0.89 +/- 0.53
MW-DU-008	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.17 +/- 0.074	0.020 +/- 0.028 U	0.22 +/- 0.085	0.65 +/- 0.25 J	1.3 +/- 0.78
MW-DU-008	SAIC14E	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	0.33 +/- 0.11	0.016 +/- 0.032 U	0.22 +/- 0.090	0.66 +/- 0.27	0.66 +/- 0.35
MW-DU-008	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	0.21 +/- 0.091	0.020 +/- 0.032 U	0.16 +/- 0.078	0.49 +/- 0.23	0.76 +/- 0.49
MW-DU-008	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	0.29 +/- 0.10	0.049 +/- 0.046 J	0.30 +/- 0.11	0.92 +/- 0.32	1.0 +/- 0.52
MW-DU-008	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	0.23 +/- 0.088	0	0.14 +/- 0.067	0.40 +/- 0.20	0.59 +/- 0.36
MW-DU-008	SAIC18E	Unfiltered	Alpha Spec.	10/24/2012	pCi/L	0.28 +/- 0.10	0	0.0055 U	0.36 +/- 0.12	1.1 +/- 0.35
MW-8	SAIC09	Unfiltered	Alpha Spec.	04/15/2008	pCi/L	0.25 +/- 0.14 J	0	0.18 +/- 0.12 J	0.43 +/- 0.18	0.73 +/- 0.62
MW-8	SAIC09F	Filtered	Alpha Spec.	04/15/2008	pCi/L	0.12 +/- 0.094 J	0.021 +/- 0.043 U	0.068 +/- 0.070 J	0.21 +/- 0.12	0.57 +/- 0.73
MW-8	SAIC10	Unfiltered	Alpha Spec.	07/21/2008	pCi/L	0.17 +/- 0.10 J	0.034 +/- 0.050 U	0.13 +/- 0.088 J	0.33 +/- 0.14	0.75 +/- 0.70
MW-8	SAIC10F	Filtered	Alpha Spec.	07/21/2008	pCi/L	0.26 +/- 0.14 J	0.019 +/- 0.038 U	0.35 +/- 0.16	0.62 +/- 0.22	1.3 +/- 0.96
MW-8	SAIC11	Unfiltered	Alpha Spec.	10/09/2008	pCi/L	0.34 +/- 0.13	0.011 +/- 0.023 U	0.28 +/- 0.12	0.63 +/- 0.18	0.82 +/- 0.47
MW-8	SAIC11F	Filtered	Alpha Spec.	10/09/2008	pCi/L	0.35 +/- 0.14	0	0.34 +/- 0.14	0.68 +/- 0.24	0.97 +/- 0.55
MW-8	SAIC12	Unfiltered	Alpha Spec.	02/10/2009	pCi/L	0.24 +/- 0.12	0	0.14	0.39 +/- 0.16	0.63 +/- 0.24
MW-8	SAIC12F	Filtered	Alpha Spec.	02/10/2009	pCi/L	0.26 +/- 0.12	0.025 +/- 0.036	0.19 +/- 0.096 J	0.47 +/- 0.16	0.73 +/- 0.50
MW-DU-009	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-009	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0 U	ND
MW-DU-009	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0 U	ND
MW-DU-009	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0 U	ND
MW-DU-009	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	ND
MW-DU-009	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0 U	ND
MW-DU-009	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0 U	ND
MW-DU-009	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0 U	ND
MW-DU-009	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0 U	ND
MW-DU-009	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0 U	ND
MW-DU-009	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.58	ND
MW-DU-009	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	0.73	ND
MW-DU-009	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	1.2 +/- 0.36 J	0.087 +/- 0.093 U	0.33 +/- 0.17 J	1.6 +/- 0.41	0.28 +/- 0.17
MW-DU-009	SAIC03	Unfiltered	Alpha Spec.	05/26/2005	pCi/L	1.1 +/- 0.37	0.20 +/- 0.16 J	0.60 +/- 0.26 LT	1.9 +/- 0.48	ND
MW-DU-009	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	1.1 +/- 0.56 J	0	0.29 +/- 0.30 U	1.3 +/- 0.69	ND
MW-DU-009	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	1.2 +/- 0.55	0.10 +/- 0.22 U	-1.0E-02 +/- 0.19 U	1.2 +/- 0.62	ND
MW-DU-009	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	1.0 +/- 0.23	0.031 +/- 0.031 J	0.23 +/- 0.086	1.3 +/- 0.25	0.23 +/- 0.10
MW-DU-009	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	0.85 +/- 0.18	0.013 +/- 0.023 U	0.28 +/- 0.079	1.1 +/- 0.20	0.32 +/- 0.12
MW-DU-009	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	1.2 +/- 0.23	0.026 +/- 0.027 U	0.33 +/- 0.094	1.5 +/- 0.25	0.29 +/- 0.10
MW-DU-009	SAIC10E	Unfiltered	Alpha Spec.	10/14/2008	pCi/L	0.99 +/- 0.29	-1.0E-02 +/- 0.014 U	0.23 +/- 0.11	1.2 +/- 0.31	0.23 +/- 0.13
MW-DU-009	SAIC11E	Unfiltered	Alpha Spec.	04/16/2009	pCi/L	0.86 +/- 0.19	0.089 +/- 0.065 J	0.40 +/- 0.13	1.2 +/- 0.38 J	0.47 +/- 0.18

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence
						U-234	U-235	U-238	Total Uranium	U-238/U-234 Ratio
MW-DU-009	SAIC12E	Unfiltered	Alpha Spec.	10/29/2009	pCi/L	1.1 +/- 0.26	0.051 +/- 0.059 J	0.42 +/- 0.15	1.3 +/- 0.46 J	0.39 +/- 0.17
MW-DU-009	SAIC13E	Unfiltered	Alpha Spec.	04/08/2010	pCi/L	0.97 +/- 0.21	-5.8E-03 +/- 0.0083 U	0.18 +/- 0.083	0.53 +/- 0.25 J	0.18 +/- 0.094
MW-DU-009	SAIC14E	Unfiltered	Alpha Spec.	10/14/2010	pCi/L	0.63 +/- 0.17	0 0.013 U	0.23 +/- 0.10	0.67 +/- 0.30	0.37 +/- 0.19
MW-DU-009	SAIC15E	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	1.0 +/- 0.23	0.073 +/- 0.066 J	0.28 +/- 0.12	0.85 +/- 0.35	0.28 +/- 0.14
MW-DU-009	SAIC16E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	0.76 +/- 0.17	0.018 +/- 0.029 U	0.15 +/- 0.073	0.46 +/- 0.22	0.20 +/- 0.11
MW-DU-009	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	0.69 +/- 0.17	-9.0E-03 +/- 0.010 U	0.18 +/- 0.084	0.52 +/- 0.25	0.25 +/- 0.14
MW-DU-009	SAIC18E	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	0.73 +/- 0.18	0.019 +/- 0.036 U	0.14 +/- 0.077 J	0.43 +/- 0.23	0.19 +/- 0.12
MW-9	SAIC09	Unfiltered	Alpha Spec.	04/25/2008	pCi/L	0.85 +/- 0.29	0 U	0.27 +/- 0.14 J	1.1 +/- 0.32	0.32 +/- 0.19
MW-9	SAIC09F	Filtered	Alpha Spec.	04/25/2008	pCi/L	0.92 +/- 0.31	0 U	0.34 +/- 0.16	1.3 +/- 0.35	0.37 +/- 0.21
MW-9	SAIC10	Unfiltered	Alpha Spec.	07/27/2008	pCi/L	0.81 +/- 0.28	0.034 +/- 0.050 U	0.28 +/- 0.14	1.1 +/- 0.31	0.34 +/- 0.21
MW-9	SAIC10F	Filtered	Alpha Spec.	07/27/2008	pCi/L	1.1 +/- 0.34	0.017 +/- 0.034 U	0.31 +/- 0.15	1.4 +/- 0.37	0.29 +/- 0.17
MW-9	SAIC11	Unfiltered	Alpha Spec.	10/14/2008	pCi/L	0.99 +/- 0.29	0 0.14 U	0.25 +/- 0.12	1.2 +/- 0.34	0.25 +/- 0.14
MW-9	SAIC11F	Filtered	Alpha Spec.	10/14/2008	pCi/L	0.94 +/- 0.28	0 0.14 U	0.33 +/- 0.14	1.3 +/- 0.34	0.35 +/- 0.18
MW-9	SAIC12	Unfiltered	Alpha Spec.	02/10/2009	pCi/L	0.95 +/- 0.28	0 0.14	0.24 +/- 0.11	1.2 +/- 0.33	0.25 +/- 0.14
MW-9	SAIC12F	Filtered	Alpha Spec.	02/10/2009	pCi/L	0.88 +/- 0.27	0 0.14	0.23 +/- 0.11	1.1 +/- 0.32	0.26 +/- 0.15
MW-DU-010	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-010	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0.70 U	ND
MW-DU-010	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0.70 U	ND
MW-DU-010	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0.80 U	ND
MW-DU-010	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	1.1	ND
MW-DU-010	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0 U	ND
MW-DU-010	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0 U	ND
MW-DU-010	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0 U	ND
MW-DU-010	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	2.4	ND
MW-DU-010	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0 U	ND
MW-DU-010	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	1.4	ND
MW-DU-010	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	1.7	ND
MW-DU-010	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	1.8 +/- 0.49	0.14 +/- 0.12 J	1.3 +/- 0.39	3.2 +/- 0.64	0.70 +/- 0.29
MW-DU-010	SAIC03	Unfiltered	Alpha Spec.	05/26/2005	pCi/L	2.3 +/- 0.61	0.10 +/- 0.14 U	0.87 +/- 0.35 LT	3.2 +/- 0.72	ND
MW-DU-010	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	1.5 +/- 0.65	0.070 +/- 0.25 U	0.49 +/- 0.36 J	2.0 +/- 0.78	0.34 +/- 0.29
MW-DU-010	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	1.7 +/- 0.58	-4.0E-02 +/- 0.16 U	0.79 +/- 0.38 LT	2.4 +/- 0.71	ND
MW-DU-010	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	1.8 +/- 0.41	0.084 +/- 0.063 J	0.78 +/- 0.22	2.7 +/- 0.47	0.43 +/- 0.15
MW-DU-010	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	1.7 +/- 0.31	0.084 +/- 0.040 LT	0.74 +/- 0.16	2.5 +/- 0.35	0.44 +/- 0.13
MW-DU-010	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	1.7 +/- 0.32	0.081 +/- 0.041 J	0.76 +/- 0.16	2.6 +/- 0.36	0.44 +/- 0.13
MW-DU-010	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	1.8 +/- 0.52	0.091 +/- 0.094 U	0.72 +/- 0.27	2.6 +/- 0.59	0.41 +/- 0.19
MW-DU-010	SAIC10E	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	1.9 +/- 0.51	0.050 +/- 0.053 J	0.75 +/- 0.24	2.7 +/- 0.56	0.39 +/- 0.16
MW-DU-010	SAIC11E	Unfiltered	Alpha Spec.	04/15/2009	pCi/L	2.0 +/- 0.33	0.11 +/- 0.081 J	0.81 +/- 0.19	2.5 +/- 0.57 J	0.41 +/- 0.12
MW-DU-010	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	1.9 +/- 0.36	0.017 +/- 0.035 U	0.68 +/- 0.20	2.0 +/- 0.61 J	0.36 +/- 0.13
MW-DU-010	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	1.7 +/- 0.28	0.051 +/- 0.046 J	0.74 +/- 0.17	2.2 +/- 0.50 J	0.43 +/- 0.12
MW-DU-010	SAIC14E	Unfiltered	Alpha Spec.	10/13/2010	pCi/L	2.2 +/- 0.36	0.061 +/- 0.062 U	1.0 +/- 0.23	3.1 +/- 0.68	0.47 +/- 0.13
MW-DU-010	SAIC15E	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	1.5 +/- 0.28	0.048 +/- 0.048 J	0.72 +/- 0.18	2.2 +/- 0.53	0.47 +/- 0.14
MW-DU-010	SAIC16E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	1.8 +/- 0.30	0.041 +/- 0.048 U	0.76 +/- 0.18	2.3 +/- 0.54	0.42 +/- 0.12
MW-DU-010	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	1.6 +/- 0.27	0.031 +/- 0.036 J	0.76 +/- 0.17	2.3 +/- 0.51	0.48 +/- 0.14
MW-DU-010	SAIC18E	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	1.3 +/- 0.30	0.014 +/- 0.038 U	0.64 +/- 0.20	1.9 +/- 0.61	0.50 +/- 0.19
MW-10	SAIC09	Unfiltered	Alpha Spec.	04/23/2008	pCi/L	1.6 +/- 0.47	0.018 +/- 0.037 U	0.67 +/- 0.25	2.3 +/- 0.53	0.42 +/- 0.20
MW-10	SAIC09F	Filtered	Alpha Spec.	04/23/2008	pCi/L	1.7 +/- 0.52	0.044 +/- 0.064 U	0.71 +/- 0.28	2.5 +/- 0.59	0.42 +/- 0.21
MW-10	SAIC10	Unfiltered	Alpha Spec.	07/17/2008	pCi/L	1.8 +/- 0.51	0.035 +/- 0.050 U	0.67 +/- 0.24	2.5 +/- 0.57	0.37 +/- 0.17
MW-10	SAIC10F	Filtered	Alpha Spec.	07/17/2008	pCi/L	1.4 +/- 0.40	0 0.14 U	0.68 +/- 0.24	2.0 +/- 0.49	0.50 +/- 0.23
MW-10	SAIC11	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	1.8 +/- 0.47	0.019 +/- 0.036 U	0.83 +/- 0.25	2.7 +/- 0.54	0.46 +/- 0.18
MW-10	SAIC11F	Filtered	Alpha Spec.	10/27/2008	pCi/L	1.5 +/- 0.40	0.045 +/- 0.047 J	0.81 +/- 0.24	2.4 +/- 0.47	0.54 +/- 0.21
MW-10	SAIC12	Unfiltered	Alpha Spec.	02/17/2009	pCi/L	1.8 +/- 0.46	0 0.14	0.90 +/- 0.27	2.7 +/- 0.55	0.51 +/- 0.20

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-10	SAIC12F	Filtered	Alpha Spec.	02/17/2009	pCi/L	0.86 +/- 0.29	0.018 +/- 0.036	0.41 +/- 0.18	1.3 +/- 0.35	0.48 +/- 0.26
MW-DU-011	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
MW-DU-011	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC0499D	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC0499C	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0	U ND
MW-DU-011	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.13	U ND
MW-DU-011	SAIC01	Unfiltered	ICP-MS	04/27/2004	µg/L	--	--	--	0.10	U ND
MW-DU-011	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.15 +/- 0.14 U	0.050 +/- 0.12 U	0.067 +/- 0.093 U	ND	U ND
MW-DU-011	SAIC03	Unfiltered	Alpha Spec.	05/26/2005	pCi/L	0.30 +/- 0.18 J	0.17 +/- 0.14 J	0.15 +/- 0.12 J	0.62 +/- 0.26	0.50 +/- 0.50
MW-DU-011	SAIC04	Unfiltered	Alpha Spec.	10/19/2005	pCi/L	0.27 +/- 0.28 J	0.12 +/- 0.28 U	0.11 +/- 0.24 U	0.50 +/- 0.46	ND
MW-DU-011	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.030 +/- 0.14 U	0.040 +/- 0.16 U	0.13 +/- 0.16 U	ND	U ND
MW-DU-011	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	0.13 +/- 0.074 J	0.011 +/- 0.035 U	0.013 +/- 0.036 U	0.15 +/- 0.089	ND
MW-DU-011	SAIC07	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.072 +/- 0.041 J	0.013 +/- 0.022 J	0.026 +/- 0.023 U	0.11 +/- 0.052	ND
MW-DU-011	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.13 +/- 0.054 J	-2.5E-02 +/- 0.031 U	0.052 +/- 0.040 U	0.16 +/- 0.074	ND
MW-DU-011	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.086 +/- 0.078 J	0.019 +/- 0.038 U	0.030 +/- 0.044 U	0.14 +/- 0.097	ND
MW-DU-011	SAIC10E	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	0.25 +/- 0.11	0.011 +/- 0.023 U	0.045 +/- 0.042 J	0.30 +/- 0.12	0.18 +/- 0.19
MW-DU-011	SAIC11E	Unfiltered	Alpha Spec.	04/15/2009	pCi/L	0.27 +/- 0.11 J	0.021 +/- 0.034 U	0.072 +/- 0.055 J	0.22 +/- 0.16 J	0.27 +/- 0.23
MW-DU-011	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	0.068 +/- 0.060 J	-2.8E-03 +/- 0.0057 U	0.061 +/- 0.055 J	0.18 +/- 0.16 J	0.90 +/- 1.1
MW-DU-011	SAIC13E	Unfiltered	Alpha Spec.	04/08/2010	pCi/L	0.14 +/- 0.071 J	0.0020 +/- 0.022 U	0.048 +/- 0.043 U	0.14 +/- 0.13 U	ND
MW-DU-011	SAIC14E	Unfiltered	Alpha Spec.	10/14/2010	pCi/L	0.39 +/- 0.13	0.0090 +/- 0.025 U	0.086 +/- 0.058 J	0.26 +/- 0.17	0.22 +/- 0.17
MW-DU-011	SAIC15E	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	0.072 +/- 0.055 J	0.0080 +/- 0.023 U	0.041 +/- 0.046 U	0.12 +/- 0.14 U	ND
MW-DU-011	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	0.26 +/- 0.096	0.0030 +/- 0.031 U	0.077 +/- 0.052 J	0.23 +/- 0.15	0.29 +/- 0.22
MW-DU-011	SAIC17E	Unfiltered	Alpha Spec.	03/30/2012	pCi/L	0.066 +/- 0.048 J	-2.4E-03 +/- 0.0049 U	0.078 +/- 0.050 J	0.23 +/- 0.15	1.2 +/- 1.1
MW-DU-011	SAIC18E	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	0.26 +/- 0.10	0.024 +/- 0.034 U	0.097 +/- 0.062 J	0.30 +/- 0.18	0.37 +/- 0.28
MW-11	SAIC09	Unfiltered	Alpha Spec.	04/23/2008	pCi/L	0.049 +/- 0.057 J	0	0.016 +/- 0.032 U	0.065 +/- 0.065	ND
MW-11	SAIC09F	Filtered	Alpha Spec.	04/23/2008	pCi/L	0.016 +/- 0.032 U	0	0	ND	U ND
MW-11	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	0.38 +/- 0.17	0 0.14 U	0.058 +/- 0.059 J	0.44 +/- 0.23	0.15 +/- 0.17
MW-11	SAIC10F	Filtered	Alpha Spec.	08/01/2008	pCi/L	0.15 +/- 0.095 J	0 0.14 U	0.038 +/- 0.045 J	0.19 +/- 0.17	0.25 +/- 0.33
MW-11	SAIC11	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	0.28 +/- 0.12	0.0070 +/- 0.026 U	0.059 +/- 0.050 J	0.34 +/- 0.13	0.21 +/- 0.20
MW-11	SAIC11F	Filtered	Alpha Spec.	10/27/2008	pCi/L	0.40 +/- 0.15	0 0.14 U	0.080 +/- 0.059 J	0.48 +/- 0.21	0.20 +/- 0.17
MW-11	SAIC12	Unfiltered	Alpha Spec.	02/18/2009	pCi/L	0.13 +/- 0.073 J	-4.0E-03 +/- 0.0090	0.038 +/- 0.042	0.16 +/- 0.085	0.30 +/- 0.37
MW-11	SAIC12F	Filtered	Alpha Spec.	02/18/2009	pCi/L	0.073 +/- 0.054 J	0.011 +/- 0.023	0.10 +/- 0.064 J	0.18 +/- 0.087	1.4 +/- 1.3
<b>Groundwater - Range Study Wells</b>										
MW-RS-1	SAIC09	Unfiltered	Alpha Spec.	04/08/2008	pCi/L	0.78 +/- 0.30	0.069 +/- 0.083 J	0.45 +/- 0.21	1.3 +/- 0.37	0.58 +/- 0.35
MW-RS-1	SAIC09F	Filtered	Alpha Spec.	04/08/2008	pCi/L	0.66 +/- 0.27	0.034 +/- 0.075 U	0.55 +/- 0.24	1.2 +/- 0.37	0.83 +/- 0.50
MW-RS-1	SAIC10	Unfiltered	Alpha Spec.	07/27/2008	pCi/L	0.58 +/- 0.23	0.019 +/- 0.039 U	0.41 +/- 0.18	1.0 +/- 0.30	0.70 +/- 0.42
MW-RS-1	SAIC10F	Filtered	Alpha Spec.	07/27/2008	pCi/L	0.68 +/- 0.25	0 0.14 U	0.42 +/- 0.18	1.1 +/- 0.34	0.62 +/- 0.35
MW-RS-1	SAIC11	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.64 +/- 0.22	0.043 +/- 0.051 J	0.37 +/- 0.15	1.1 +/- 0.27	0.58 +/- 0.31
MW-RS-1	SAIC11D	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.49 +/- 0.17	0.012 +/- 0.024 U	0.30 +/- 0.13	0.81 +/- 0.21	0.61 +/- 0.33
MW-RS-1	SAIC11C	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.55 +/- 0.20	0.018 +/- 0.037 U	0.33 +/- 0.14	0.90 +/- 0.24	0.60 +/- 0.33
MW-RS-1	SAIC11F	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.56 +/- 0.19	0.025 +/- 0.036 U	0.39 +/- 0.15	0.98 +/- 0.25	0.69 +/- 0.36
MW-RS-1	SAIC11DF	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.77 +/- 0.24	0 0.14 U	0.42 +/- 0.16	1.2 +/- 0.32	0.54 +/- 0.27
MW-RS-1	SAIC11FC	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.64 +/- 0.22	0.023 +/- 0.085 U	0.40 +/- 0.15	1.1 +/- 0.28	0.62 +/- 0.32



**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-RS-1	SAIC12	Unfiltered	Alpha Spec.	02/15/2009	pCi/L	0.64 +/- 0.22	0.029 +/- 0.049	0.48 +/- 0.18	1.2 +/- 0.29	0.75 +/- 0.38
MW-RS-1	SAIC12F	Filtered	Alpha Spec.	02/15/2009	pCi/L	0.62 +/- 0.21	0.021 +/- 0.040	0.45 +/- 0.17	1.1 +/- 0.27	0.73 +/- 0.37
MW-RS-2	SAIC09	Unfiltered	Alpha Spec.	04/08/2008	pCi/L	0.19 +/- 0.14 J	0.044 +/- 0.064 U	0.18 +/- 0.12 J	0.41 +/- 0.19	0.94 +/- 0.93
MW-RS-2	SAIC09D	Unfiltered	Alpha Spec.	04/08/2008	pCi/L	0.13 +/- 0.12 J	-1.4E-02 +/- 0.028 U	0.066 +/- 0.082 U	0.19 +/- 0.15	ND
MW-RS-2	SAIC09C	Unfiltered	Alpha Spec.	04/08/2008	pCi/L	0.16 +/- 0.13 J	-4.7E-03 +/- 0.046 U	0.10 +/- 0.10 U	0.27 +/- 0.17	ND
MW-RS-2	SAIC09F	Filtered	Alpha Spec.	04/08/2008	pCi/L	0.15 +/- 0.12 J	-1.3E-02 +/- 0.027 U	0.036 +/- 0.052 U	0.18 +/- 0.13	ND
MW-RS-2	SAIC09DF	Filtered	Alpha Spec.	04/08/2008	pCi/L	0.21 +/- 0.13 J	0.023 +/- 0.047 U	0.094 +/- 0.087 J	0.33 +/- 0.17	0.45 +/- 0.51
MW-RS-2	SAIC09FC	Filtered	Alpha Spec.	04/08/2008	pCi/L	0.18 +/- 0.13 J	-4.0E-03 +/- 0.037 U	0.051 +/- 0.069 J	0.23 +/- 0.15	0.29 +/- 0.44
MW-RS-2	SAIC10	Unfiltered	Alpha Spec.	07/28/2008	pCi/L	0.15 +/- 0.10 J	0 0.14 U	0.068 +/- 0.069 U	0.22 +/- 0.18	ND
MW-RS-2	SAIC10D	Unfiltered	Alpha Spec.	07/28/2008	pCi/L	0.099 +/- 0.078 J	0 0.14 U	0.042 +/- 0.050 J	0.14 +/- 0.16	0.42 +/- 0.61
MW-RS-2	SAIC10C	Unfiltered	Alpha Spec.	07/28/2008	pCi/L	0.12 +/- 0.089 J	0 0.14 U	0.051 +/- 0.080 J	0.18 +/- 0.17	0.43 +/- 0.60
MW-RS-2	SAIC10F	Filtered	Alpha Spec.	07/28/2008	pCi/L	0.17 +/- 0.11 J	0 0.14 U	0.058 +/- 0.059 J	0.23 +/- 0.18	0.35 +/- 0.41
MW-RS-2	SAIC10DF	Filtered	Alpha Spec.	07/28/2008	pCi/L	0.19 +/- 0.11 J	0 0.14 U	0.057 +/- 0.058 J	0.24 +/- 0.18	0.31 +/- 0.36
MW-RS-2	SAIC10FC	Filtered	Alpha Spec.	07/28/2008	pCi/L	0.18 +/- 0.11 J	0 0.14 U	0.057 +/- 0.058 J	0.23 +/- 0.18	0.33 +/- 0.39
MW-RS-2	SAIC11	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.20 +/- 0.093	0 0.14 U	0.034 +/- 0.034 J	0.24 +/- 0.17	0.17 +/- 0.19
MW-RS-2	SAIC11D	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.19 +/- 0.095	0 0.14 U	0.11 +/- 0.067 J	0.30 +/- 0.18	0.55 +/- 0.44
MW-RS-2	SAIC11C	Unfiltered	Alpha Spec.	10/10/2008	pCi/L	0.20 +/- 0.094	0 0.14 U	0.049 +/- 0.051 J	0.26 +/- 0.17	0.25 +/- 0.28
MW-RS-2	SAIC11F	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.17 +/- 0.089 J	0 0.14 U	0.049 +/- 0.045 J	0.22 +/- 0.17	0.29 +/- 0.31
MW-RS-2	SAIC11DF	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.16 +/- 0.085 J	0.0070 +/- 0.025 U	0.12 +/- 0.072 J	0.29 +/- 0.11	0.76 +/- 0.61
MW-RS-2	SAIC11FC	Filtered	Alpha Spec.	10/10/2008	pCi/L	0.16 +/- 0.087 J	0.0068 +/- 0.080 U	0.070 +/- 0.058 J	0.27 +/- 0.14	0.43 +/- 0.42
MW-RS-2	SAIC12	Unfiltered	Alpha Spec.	02/16/2009	pCi/L	0.24 +/- 0.12	0.013 +/- 0.027	0.13 +/- 0.081 J	0.38 +/- 0.14	0.56 +/- 0.44
MW-RS-2	SAIC12F	Filtered	Alpha Spec.	02/16/2009	pCi/L	0.16 +/- 0.085 J	0.035 +/- 0.042 J	0.18 +/- 0.090 J	0.37 +/- 0.13	1.1 +/- 0.82
MW-RS-3	SAIC09	Unfiltered	Alpha Spec.	04/22/2008	pCi/L	2.5 +/- 0.67	0.072 +/- 0.075 J	1.5 +/- 0.44	4.0 +/- 0.80	0.59 +/- 0.24
MW-RS-3	SAIC09F	Filtered	Alpha Spec.	04/22/2008	pCi/L	1.9 +/- 0.54	0 U	1.3 +/- 0.40	3.2 +/- 0.67	0.69 +/- 0.29
MW-RS-3	SAIC10	Unfiltered	Alpha Spec.	07/28/2008	pCi/L	1.5 +/- 0.46	0 0.14 U	0.92 +/- 0.31	2.5 +/- 0.57	0.60 +/- 0.27
MW-RS-3	SAIC10F	Filtered	Alpha Spec.	07/28/2008	pCi/L	2.0 +/- 0.58	0.074 +/- 0.087 U	0.81 +/- 0.29	2.9 +/- 0.66	0.39 +/- 0.18
MW-RS-3	SAIC11	Unfiltered	Alpha Spec.	10/27/2008	pCi/L	3.8 +/- 0.91	0.14 +/- 0.092 J	2.5 +/- 0.61	6.4 +/- 1.1	0.64 +/- 0.22
MW-RS-3	SAIC11F	Filtered	Alpha Spec.	10/27/2008	pCi/L	3.0 +/- 0.73	0.025 +/- 0.036 U	1.8 +/- 0.48	4.8 +/- 0.88	0.62 +/- 0.22
MW-RS-3	SAIC12	Unfiltered	Alpha Spec.	02/03/2009	pCi/L	3.5 +/- 0.84	0.17 +/- 0.11 J	2.1 +/- 0.55	5.8 +/- 1.0	0.62 +/- 0.22
MW-RS-3	SAIC12F	Filtered	Alpha Spec.	02/03/2009	pCi/L	2.5 +/- 0.68	0.077 +/- 0.081 J	1.6 +/- 0.47	4.1 +/- 0.82	0.63 +/- 0.26
MW-RS-4	SAIC09	Unfiltered	Alpha Spec.	04/15/2008	pCi/L	0.66 +/- 0.26	0.021 +/- 0.043 U	0.36 +/- 0.18	1.0 +/- 0.32	0.55 +/- 0.34
MW-RS-4	SAIC09F	Filtered	Alpha Spec.	04/15/2008	pCi/L	0.55 +/- 0.23	0.041 +/- 0.059 U	0.50 +/- 0.21	1.1 +/- 0.32	0.90 +/- 0.53
MW-RS-4	SAIC10	Unfiltered	Alpha Spec.	07/17/2008	pCi/L	1.9 +/- 0.54	0.095 +/- 0.090 J	1.5 +/- 0.45	3.5 +/- 0.71	0.78 +/- 0.33
MW-RS-4	SAIC10F	Filtered	Alpha Spec.	07/17/2008	pCi/L	1.5 +/- 0.45	0.020 +/- 0.041 U	1.0 +/- 0.35	2.5 +/- 0.57	0.70 +/- 0.32
MW-RS-4	SAIC11	Unfiltered	Alpha Spec.	10/20/2008	pCi/L	1.5 +/- 0.42	0.081 +/- 0.071 J	1.6 +/- 0.43	3.1 +/- 0.60	1.0 +/- 0.40
MW-RS-4	SAIC11F	Filtered	Alpha Spec.	10/20/2008	pCi/L	1.4 +/- 0.38	0.031 +/- 0.044 U	1.1 +/- 0.32	2.5 +/- 0.50	0.80 +/- 0.31
MW-RS-4	SAIC12	Unfiltered	Alpha Spec.	02/04/2009	pCi/L	0.067 +/- 0.056 J	-1.0E-02 +/- 0.015	0.041 +/- 0.042 J	0.098 +/- 0.072	0.61 +/- 0.81
MW-RS-4	SAIC12D	Unfiltered	Alpha Spec.	02/04/2009	pCi/L	0.060 +/- 0.055 J	0.013 +/- 0.027	0.032 +/- 0.038 J	0.11 +/- 0.072	0.53 +/- 0.80
MW-RS-4	SAIC12C	Unfiltered	Alpha Spec.	02/04/2009	pCi/L	0.063 +/- 0.056 J	-4.6E-03 +/- 0.021	0.036 +/- 0.040 J	0.10 +/- 0.072	0.57 +/- 0.80
MW-RS-4	SAIC12F	Filtered	Alpha Spec.	02/04/2009	pCi/L	0.066 +/- 0.052 J	0.0070 +/- 0.025	0.015 +/- 0.028	0.088 +/- 0.064	0.23 +/- 0.46
MW-RS-4	SAIC12DF	Filtered	Alpha Spec.	02/04/2009	pCi/L	0.022 +/- 0.040	0 0.14	0.040 +/- 0.048 J	0.062 +/- 0.15	1.8 +/- 4.0
MW-RS-4	SAIC12FC	Filtered	Alpha Spec.	02/04/2009	pCi/L	0.038 +/- 0.046	0.0068 +/- 0.080	0.021 +/- 0.038 J	0.084 +/- 0.11	0.56 +/- 1.2
MW-RS-5	SAIC09	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	0.20 +/- 0.13 J	0 U	0.16 +/- 0.11 J	0.36 +/- 0.17	0.82 +/- 0.77
MW-RS-5	SAIC09F	Filtered	Alpha Spec.	04/14/2008	pCi/L	0.033 +/- 0.048 U	-1.4E-02 +/- 0.028 U	0.050 +/- 0.059 J	0.069 +/- 0.081 U	ND
MW-RS-5	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	0.31 +/- 0.15	0.017 +/- 0.035 U	0.24 +/- 0.13 J	0.57 +/- 0.20	0.77 +/- 0.55
MW-RS-5	SAIC10F	Filtered	Alpha Spec.	08/01/2008	pCi/L	1.0 +/- 0.33	0.072 +/- 0.075 J	0.69 +/- 0.25	1.8 +/- 0.42	0.67 +/- 0.33
MW-RS-5	SAIC11	Unfiltered	Alpha Spec.	10/20/2008	pCi/L	3.3 +/- 0.80	0.10 +/- 0.077 J	2.5 +/- 0.63	5.9 +/- 1.0	0.77 +/- 0.27
MW-RS-5	SAIC11F	Filtered	Alpha Spec.	10/20/2008	pCi/L	3.4 +/- 0.80	0.096 +/- 0.074 J	2.4 +/- 0.60	5.9 +/- 1.0	0.72 +/- 0.25
MW-RS-5	SAIC12	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	0.18 +/- 0.15 J	0.037 +/- 0.075	0.15 +/- 0.14 J	0.37 +/- 0.22	0.83 +/- 1.0
MW-RS-5	SAIC12D	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	0.17 +/- 0.095 J	0.023 +/- 0.043	0.077 +/- 0.065 J	0.27 +/- 0.12	0.47 +/- 0.48
MW-RS-5	SAIC12C	Unfiltered	Alpha Spec.	02/09/2009	pCi/L	0.17 +/- 0.12 J	0.026 +/- 0.059	0.090 +/- 0.10 J	0.29 +/- 0.17	0.53 +/- 0.72

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
MW-RS-5	SAIC12F	Filtered	Alpha Spec.	02/09/2009	pCi/L	0.017 +/- 0.032	-1.1E-02 +/- 0.015	0.032 +/- 0.037 J	0.038 +/- 0.051	1.9 +/- 4.2
MW-RS-5	SAIC12DF	Filtered	Alpha Spec.	02/09/2009	pCi/L	0.053 +/- 0.049 J	0 0.14	0.057 +/- 0.048 J	0.11 +/- 0.15	1.1 +/- 1.3
MW-RS-5	SAIC12FC	Filtered	Alpha Spec.	02/09/2009	pCi/L	0.028 +/- 0.041 J	-1.1E-02 +/- 0.075	0.041 +/- 0.042 J	0.045 +/- 0.10	1.5 +/- 2.7
MW-RS-6	SAIC09	Unfiltered	Alpha Spec.	04/14/2008	pCi/L	1.4 +/- 0.43	0.049 +/- 0.079 U	0.81 +/- 0.29	2.2 +/- 0.52	0.59 +/- 0.28
MW-RS-6	SAIC09F	Filtered	Alpha Spec.	04/14/2008	pCi/L	1.2 +/- 0.39	0.082 +/- 0.086 J	0.88 +/- 0.31	2.2 +/- 0.51	0.72 +/- 0.34
MW-RS-6	SAIC10	Unfiltered	Alpha Spec.	07/15/2008	pCi/L	0.96 +/- 0.32	0.018 +/- 0.036 U	0.75 +/- 0.27	1.7 +/- 0.41	0.78 +/- 0.38
MW-RS-6	SAIC10F	Filtered	Alpha Spec.	07/15/2008	pCi/L	1.3 +/- 0.39	0.072 +/- 0.076 J	0.71 +/- 0.26	2.1 +/- 0.48	0.55 +/- 0.26
MW-RS-6	SAIC11	Unfiltered	Alpha Spec.	10/14/2008	pCi/L	1.0 +/- 0.30	0.013 +/- 0.026 U	0.54 +/- 0.19	1.6 +/- 0.35	0.54 +/- 0.25
MW-RS-6	SAIC11D	Unfiltered	Alpha Spec.	10/14/2008	pCi/L	0.85 +/- 0.26	0.012 +/- 0.025 U	0.58 +/- 0.20	1.4 +/- 0.33	0.69 +/- 0.32
MW-RS-6	SAIC11C	Unfiltered	Alpha Spec.	10/14/2008	pCi/L	0.91 +/- 0.28	0.012 +/- 0.026 U	0.56 +/- 0.20	1.5 +/- 0.34	0.62 +/- 0.28
MW-RS-6	SAIC11F	Filtered	Alpha Spec.	10/14/2008	pCi/L	0.93 +/- 0.28	0.033 +/- 0.046 U	0.55 +/- 0.19	1.5 +/- 0.34	0.60 +/- 0.28
MW-RS-6	SAIC11DF	Filtered	Alpha Spec.	10/14/2008	pCi/L	1.2 +/- 0.34	0.062 +/- 0.064 U	0.58 +/- 0.20	1.8 +/- 0.40	0.49 +/- 0.22
MW-RS-6	SAIC11FC	Filtered	Alpha Spec.	10/14/2008	pCi/L	1.0 +/- 0.31	0.043 +/- 0.055 U	0.56 +/- 0.20	1.6 +/- 0.37	0.55 +/- 0.25
MW-RS-6	SAIC12	Unfiltered	Alpha Spec.	02/10/2009	pCi/L	0.022 +/- 0.031	0 0.14	0.054 +/- 0.050 J	0.076 +/- 0.15	2.5 +/- 4.1
MW-RS-6	SAIC12F	Filtered	Alpha Spec.	02/10/2009	pCi/L	0.021 +/- 0.031	0 0.14	0.0060 +/- 0.023	0.027 +/- 0.14	0.29 +/- 1.2
MW-RS-7	SAIC09	Unfiltered	Alpha Spec.	04/23/2008	pCi/L	24 +/- 5.5	0.75 +/- 0.35	16 +/- 3.6	40 +/- 6.6	0.65 +/- 0.21
MW-RS-7	SAIC09F	Filtered	Alpha Spec.	04/23/2008	pCi/L	27 +/- 6.3	0.92 +/- 0.41	19 +/- 4.4	47 +/- 7.7	0.70 +/- 0.23
MW-RS-7	SAIC10	Unfiltered	Alpha Spec.	08/01/2008	pCi/L	1.5 +/- 0.44	0.075 +/- 0.078 J	1.0 +/- 0.34	2.6 +/- 0.56	0.69 +/- 0.31
MW-RS-7	SAIC10F	Filtered	Alpha Spec.	08/01/2008	pCi/L	7.1 +/- 1.7	0.23 +/- 0.15 J	4.6 +/- 1.1	12 +/- 2.0	0.65 +/- 0.23
MW-RS-7	SAIC11	Unfiltered	Alpha Spec.	10/20/2008	pCi/L	8.2 +/- 1.9	0.19 +/- 0.12 J	5.3 +/- 1.2	14 +/- 2.3	0.64 +/- 0.21
MW-RS-7	SAIC11F	Filtered	Alpha Spec.	10/20/2008	pCi/L	9.7 +/- 2.2	0.22 +/- 0.12 J	6.5 +/- 1.5	16 +/- 2.7	0.67 +/- 0.22
MW-RS-7	SAIC12	Unfiltered	Alpha Spec.	02/08/2009	pCi/L	7.0 +/- 1.6	0.17 +/- 0.11	3.5 +/- 0.87	11 +/- 1.8	0.50 +/- 0.17
MW-RS-7	SAIC12F	Filtered	Alpha Spec.	02/08/2009	pCi/L	7.7 +/- 1.8	0.13 +/- 0.097	5.1 +/- 1.2	13 +/- 2.2	0.65 +/- 0.22
MW-RS-8	SAIC09	Unfiltered	Alpha Spec.	04/24/2008	pCi/L	0.064 +/- 0.065 U	0	0.056 +/- 0.057 J	0.12 +/- 0.086	ND
MW-RS-8	SAIC09F	Filtered	Alpha Spec.	04/24/2008	pCi/L	0.028 +/- 0.040 U	0	0.028 +/- 0.040 U	ND	ND
MW-RS-8	SAIC10	Unfiltered	Alpha Spec.	07/30/2008	pCi/L	0.084 +/- 0.071 J	0.017 +/- 0.035 U	0.083 +/- 0.070 J	0.18 +/- 0.11	0.99 +/- 1.2
MW-RS-8	SAIC10F	Filtered	Alpha Spec.	07/30/2008	pCi/L	0.20 +/- 0.11 J	0.035 +/- 0.050 U	0.028 +/- 0.040 U	0.26 +/- 0.13	ND
MW-RS-8	SAIC11	Unfiltered	Alpha Spec.	10/21/2008	pCi/L	0.58 +/- 0.19	0.012 +/- 0.024 U	0.44 +/- 0.16	1.0 +/- 0.25	0.77 +/- 0.38
MW-RS-8	SAIC11F	Filtered	Alpha Spec.	10/21/2008	pCi/L	0.13 +/- 0.072 J	0 0.14 U	0.060 +/- 0.047 J	0.19 +/- 0.16	0.46 +/- 0.44
MW-RS-8	SAIC12	Unfiltered	Alpha Spec.	02/05/2009	pCi/L	0.12 +/- 0.088 J	0.011 +/- 0.040	0.038 +/- 0.053	0.17 +/- 0.11	0.32 +/- 0.51
MW-RS-8	SAIC12D	Unfiltered	Alpha Spec.	02/05/2009	pCi/L	0.097 +/- 0.072 J	0.015 +/- 0.030	0.12 +/- 0.085 J	0.24 +/- 0.12	1.3 +/- 1.3
MW-RS-8	SAIC12C	Unfiltered	Alpha Spec.	02/05/2009	pCi/L	0.11 +/- 0.080 J	0.014 +/- 0.035	0.062 +/- 0.069 J	0.20 +/- 0.11	0.59 +/- 0.79
MW-RS-8	SAIC12F	Filtered	Alpha Spec.	02/05/2009	pCi/L	0.059 +/- 0.054 J	0 0.14	0.063 +/- 0.053 J	0.12 +/- 0.15	1.1 +/- 1.3
MW-RS-8	SAIC12DF	Filtered	Alpha Spec.	02/05/2009	pCi/L	0.041 +/- 0.042 J	0.013 +/- 0.026	0.031 +/- 0.036 J	0.085 +/- 0.061	0.76 +/- 1.2
MW-RS-8	SAIC12FC	Filtered	Alpha Spec.	02/05/2009	pCi/L	0.048 +/- 0.048 J	0.013 +/- 0.081	0.041 +/- 0.044 J	0.090 +/- 0.11	0.86 +/- 1.3
<b>Surface Water – ERM Locations</b>										
SW-DU-001	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
SW-DU-001	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC1099D	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC1099C	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	ND
SW-DU-001	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0	U ND
SW-DU-001	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.13	ND
SW-DU-001	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--	0.16	ND
SW-DU-001	SAIC02	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.13 +/- 0.10 J	0.063 +/- 0.080 U	0.15 +/- 0.11 J	0.34 +/- 0.17	1.2 +/- 1.2

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238			
SW-DU-001	SAIC03	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.26 +/- 0.19 J	0.30 +/- 0.20 J	0.11 +/- 0.13 U		0.67 +/- 0.30	ND
SW-DU-001	SAIC04	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.92 +/- 0.53 J	0.17 +/- 0.29 U	0.42 +/- 0.37 U		1.5 +/- 0.71	ND
SW-DU-001	SAIC05	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	0.098 +/- 0.092 U	0.036 +/- 0.049 U	0.046 +/- 0.065 U		ND	ND
SW-DU-001	SAIC05D	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.10 +/- 0.095 U	-2.2E-02 +/- 0.052 U	0.088 +/- 0.077 U		ND	ND
SW-DU-001	SAIC05C	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.10 +/- 0.093 U	0.0087 +/- 0.051 U	0.063 +/- 0.071 U		ND	ND
SW-DU-001	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	0.23 +/- 0.091 J	0.031 +/- 0.034 U	0.18 +/- 0.077		0.44 +/- 0.12	0.76 +/- 0.45
SW-DU-001	SAIC06D	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	0.15 +/- 0.073 J	0.036 +/- 0.041 U	0.29 +/- 0.11		0.48 +/- 0.14	1.9 +/- 1.2
SW-DU-001	SAIC06C	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	0.18 +/- 0.082 J	0.033 +/- 0.038 U	0.21 +/- 0.094		0.46 +/- 0.13	1.2 +/- 0.74
SW-DU-001	SAIC07	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.13 +/- 0.066 J	0.0040 +/- 0.031 U	0.10 +/- 0.055 J		0.23 +/- 0.091	0.80 +/- 0.59
SW-DU-001	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.20 +/- 0.094 J	0.010 +/- 0.043 U	0.20 +/- 0.089		0.40 +/- 0.14	0.99 +/- 0.65
SW-DU-001	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.11 +/- 0.092 J	0	0.13 +/- 0.098 J		0.24 +/- 0.13	1.2 +/- 1.3
SW-DU-001	SAIC10E	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.12 +/- 0.074 J	0.020 +/- 0.037 U	0.13 +/- 0.077 J		0.27 +/- 0.11	1.1 +/- 0.91
SW-DU-001	SAIC11E	Unfiltered	Alpha Spec.	04/16/2009	pCi/L	0.11 +/- 0.072 J	0.019 +/- 0.037 U	0.071 +/- 0.054 J		0.22 +/- 0.16 J	0.67 +/- 0.68
SW-DU-001	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	0.070 +/- 0.062 J	0.047 +/- 0.054 J	0.087 +/- 0.066 J		0.28 +/- 0.20 J	1.2 +/- 1.4
SW-DU-001	SAIC13E	Unfiltered	Alpha Spec.	04/07/2010	pCi/L	0.070 +/- 0.048 J	-2.5E-03 +/- 0.0050 U	0.13 +/- 0.066		0.39 +/- 0.20 J	1.9 +/- 1.6
SW-DU-001	SAIC14E	Unfiltered	Alpha Spec.	10/15/2010	pCi/L	0.18 +/- 0.091	0.010 +/- 0.026 U	0.13 +/- 0.075 J		0.38 +/- 0.22	0.69 +/- 0.54
SW-DU-001	SAIC15E	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	0.22 +/- 0.093 J	0.019 +/- 0.031 U	0.017 +/- 0.036 U		0.060 +/- 0.11 U	ND
SW-DU-001	SAIC16E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	0.31 +/- 0.11	0.018 +/- 0.030 U	0.17 +/- 0.078		0.52 +/- 0.23	0.55 +/- 0.32
SW-DU-001	SAIC17E	Unfiltered	Alpha Spec.	03/31/2012	pCi/L	0.44 +/- 0.12	0.015 +/- 0.029 U	0.47 +/- 0.13		1.4 +/- 0.38	1.1 +/- 0.41
SW-DU-001	SAIC18E	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	0.19 +/- 0.085	0.019 +/- 0.032 U	0.20 +/- 0.087		0.61 +/- 0.26	1.0 +/- 0.64
SW-DU-002	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--		1.0	ND
SW-DU-002	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC0499D	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC0499C	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--		0	ND
SW-DU-002	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--		0 U	ND
SW-DU-002	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--		0.25	ND
SW-DU-002	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--		0.44	ND
SW-DU-002	SAIC02	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.18 +/- 0.12 J	0.029 +/- 0.079 U	0.17 +/- 0.12 J		0.38 +/- 0.19	0.94 +/- 0.92
SW-DU-002	SAIC03	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.36 +/- 0.21 J	0.23 +/- 0.18 J	0.39 +/- 0.21 J		0.98 +/- 0.35	1.1 +/- 0.86
SW-DU-002	SAIC04	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.39 +/- 0.35 U	0.060 +/- 0.27 U	0.47 +/- 0.37 J		0.92 +/- 0.58	ND
SW-DU-002	SAIC05	Unfiltered	Alpha Spec.	04/11/2006	pCi/L	0.072 +/- 0.063 J	0.010 +/- 0.054 U	0.27 +/- 0.13 LT		0.35 +/- 0.15	ND
SW-DU-002	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	0.12 +/- 0.061 J	0.0010 +/- 0.027 U	0.10 +/- 0.060 J		0.22 +/- 0.090	0.83 +/- 0.65
SW-DU-002	SAIC07	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.16 +/- 0.056	0.0090 +/- 0.022 U	0.22 +/- 0.068		0.38 +/- 0.091	1.4 +/- 0.66
SW-DU-002	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.21 +/- 0.069 J	0.026 +/- 0.027 U	0.30 +/- 0.087		0.53 +/- 0.11	1.4 +/- 0.64
SW-DU-002	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.077 +/- 0.086 U	0.023 +/- 0.046 U	0.26 +/- 0.15 J		0.36 +/- 0.18	ND
SW-DU-002	SAIC10E	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.13 +/- 0.079 J	-5.0E-03 +/- 0.010 U	0.16 +/- 0.088 J		0.29 +/- 0.12	1.2 +/- 0.99
SW-DU-002	SAIC10DE	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.092 +/- 0.068 J	0.026 +/- 0.038 U	0.17 +/- 0.092 J		0.29 +/- 0.12	1.8 +/- 1.7
SW-DU-002	SAIC10EC	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.11 +/- 0.074 J	-3.0E-03 +/- 0.024 U	0.17 +/- 0.090 J		0.29 +/- 0.12	1.5 +/- 1.3
SW-DU-002	SAIC11E	Unfiltered	Alpha Spec.	04/16/2009	pCi/L	0.14 +/- 0.072 J	0.013 +/- 0.032 U	0.054 +/- 0.046 J		0.17 +/- 0.14 J	0.38 +/- 0.38
SW-DU-002	SAIC12E	Unfiltered	Alpha Spec.	10/27/2009	pCi/L	0.097 +/- 0.071 J	0	0.013 U		0.23 +/- 0.11	0.68 +/- 0.33 J
SW-DU-002	SAIC13E	Unfiltered	Alpha Spec.	04/07/2010	pCi/L	0.16 +/- 0.074	-2.5E-03 +/- 0.0049 U	0.28 +/- 0.096		0.82 +/- 0.29 J	1.7 +/- 0.96
SW-DU-002	SAIC14E	Unfiltered	Alpha Spec.	10/15/2010	pCi/L	0.12 +/- 0.070 J	0	0.011 U		0.19 +/- 0.086	0.57 +/- 0.26
SW-DU-002	SAIC15E	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	0.17 +/- 0.079	0.015 +/- 0.029 U	0.067 +/- 0.048 J		0.21 +/- 0.14	0.39 +/- 0.33
SW-DU-002	SAIC15DE	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	0.31 +/- 0.11	0	0.012 U		0.18 +/- 0.091 J	0.52 +/- 0.27

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238			
SW-DU-002	SAIC15EC	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	0.22 +/- 0.095	0.0022 +/- 0.021 U	0.090 +/- 0.069 J		0.37 +/- 0.21	0.41 +/- 0.37
SW-DU-002	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	0.21 +/- 0.085	0.026 +/- 0.037 U	0.79 +/- 0.18		2.4 +/- 0.52	3.8 +/- 1.8
SW-DU-002	SAIC16DE	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	0.18 +/- 0.078	0.0080 +/- 0.021 U	0.60 +/- 0.15		1.8 +/- 0.44	3.4 +/- 1.7
SW-DU-002	SAIC16EC	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	0.19 +/- 0.082	0.012 +/- 0.029 U	0.68 +/- 0.17		2.1 +/- 0.48	3.5 +/- 1.7
SW-DU-002	SAIC17E	Unfiltered	Alpha Spec.	03/31/2012	pCi/L	0.15 +/- 0.067	0.0090 +/- 0.018 U	0.26 +/- 0.089		0.76 +/- 0.27	1.8 +/- 1.0
SW-DU-002	SAIC17DE	Unfiltered	Alpha Spec.	03/31/2012	pCi/L	0.14 +/- 0.067	0.014 +/- 0.027 U	0.31 +/- 0.10		0.94 +/- 0.30	2.2 +/- 1.3
SW-DU-002	SAIC17EC	Unfiltered	Alpha Spec.	03/31/2012	pCi/L	0.14 +/- 0.067	0.011 +/- 0.023 U	0.28 +/- 0.095		0.85 +/- 0.29	2.0 +/- 1.1
SW-DU-002	SAIC18E	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	0.099 +/- 0.061 J	0 0.0054 U	0.14 +/- 0.072		0.43 +/- 0.21	1.5 +/- 1.2
SW-DU-002	SAIC18DE	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	0.14 +/- 0.070 J	-2.6E-03 +/- 0.0052 U	0.11 +/- 0.063 J		0.33 +/- 0.19	0.82 +/- 0.62
SW-DU-002	SAIC18EC	Unfiltered	Alpha Spec.	10/23/2012	pCi/L	0.12 +/- 0.066 J	-1.3E-03 +/- 0.0053 U	0.13 +/- 0.068 J		0.38 +/- 0.20	1.1 +/- 0.85
SW-DU-003	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--		1.0	ND
SW-DU-003	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--		0 U	ND
SW-DU-003	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--		0 U	ND
SW-DU-003	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--		0 U	ND
SW-DU-003	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--		0	ND
SW-DU-003	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--		0 U	ND
SW-DU-003	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--		0 U	ND
SW-DU-003	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--		0 U	ND
SW-DU-003	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--		0 U	ND
SW-DU-003	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--		0 U	ND
SW-DU-003	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--		0.059	ND
SW-DU-003	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--		0.10	U ND
SW-DU-003	SAIC01D	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--		0.10	U ND
SW-DU-003	SAIC01C	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--		0.10	U ND
SW-DU-003	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.080 +/- 0.085 U	0.049 +/- 0.087 U	0.10 +/- 0.096 J		0.23 +/- 0.15	ND
SW-DU-003	SAIC03	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.84 +/- 0.34 LT	0.36 +/- 0.23 J	0.13 +/- 0.15 U		1.3 +/- 0.44	ND
SW-DU-003	SAIC03D	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.43 +/- 0.25 J	0.10 +/- 0.13 U	0.070 +/- 0.11 U		0.60 +/- 0.30	ND
SW-DU-003	SAIC03C	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.57 +/- 0.30 J	0.16 +/- 0.18 U	0.091 +/- 0.13 U		0.84 +/- 0.37	ND
SW-DU-003	SAIC04	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.43 +/- 0.44 U	0 0.36 U	0.16 +/- 0.31 U		ND U	ND
SW-DU-003	SAIC04D	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.43 +/- 0.44 U	0 0.36 U	0.16 +/- 0.31 U		ND U	ND
SW-DU-003	SAIC04C	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.43 +/- 0.44 U	0 0.36 U	0.16 +/- 0.31 U		ND U	ND
SW-DU-003	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	-1.0E-03 +/- 0.046 U	0.010 +/- 0.054 U	0.035 +/- 0.053 U		ND U	ND
SW-DU-003	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.17 +/- 0.075 J	0.0090 +/- 0.031 U	0.24 +/- 0.092		0.41 +/- 0.12	1.4 +/- 0.86
SW-DU-003	SAIC07	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.17 +/- 0.065	0.045 +/- 0.031 J	0.094 +/- 0.047 LT		0.31 +/- 0.086	ND
SW-DU-003	SAIC07D	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.12 +/- 0.053	0.052 +/- 0.037 J	0.11 +/- 0.053		0.28 +/- 0.084	0.89 +/- 0.60
SW-DU-003	SAIC07C	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.14 +/- 0.059	0.048 +/- 0.034 J	0.099 +/- 0.050		0.29 +/- 0.085	0.70 +/- 0.46
SW-DU-003	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.024 +/- 0.047 U	-1.2E-02 +/- 0.024 U	0.094 +/- 0.096 J		0.11 +/- 0.11 U	ND
SW-DU-003	SAIC10E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.071 +/- 0.079 U	0.029 +/- 0.042 U	0.15 +/- 0.090 J		0.47 +/- 0.27 J	ND
SW-DU-003	SAIC11E	Unfiltered	Alpha Spec.	10/28/2009	pCi/L	0.085 +/- 0.072 J	-3.4E-03 +/- 0.0068 U	0 0.013 U		-2.0E-03 +/- 0.038 U	ND
SW-DU-003	SAIC12E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.036 +/- 0.042 U	-8.5E-03 +/- 0.0098 U	-1.1E-02 +/- 0.023 U		-3.8E-02 0.068 U	ND
SW-DU-003	SAIC13E	Unfiltered	Alpha Spec.	04/27/2011	pCi/L	3.3 +/- 0.47	0.060 +/- 0.061 U	0.16 +/- 0.084 J		0.50 +/- 0.25	0.048 +/- 0.027
SW-DU-003	SAIC14E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	0.045 +/- 0.043 U	0.0050 +/- 0.021 U	0.029 +/- 0.032 U		0.090 0.095 U	ND
SW-DU-003	SAIC15E	Unfiltered	Alpha Spec.	04/01/2012	pCi/L	0.053 +/- 0.053 U	-9.0E-03 +/- 0.010 U	0.089 +/- 0.062 J		0.26 +/- 0.19	ND
SW-DU-004	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--		1.0	ND
SW-DU-004	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--		0 U	ND
SW-DU-004	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--		0 U	ND
SW-DU-004	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--		0 U	ND
SW-DU-004	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--		0	ND
SW-DU-004	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--		0 U	ND
SW-DU-004	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--		0 U	ND
SW-DU-004	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--		0 U	ND

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Total and Isotopic Uranium Results for Surface Water and Groundwater Samples											
Sample ID	Field Sample	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio	
	Number					U-234	U-235	U-238	Total Uranium		
SW-DU-004	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U	ND
SW-DU-004	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	1.5	U	ND
SW-DU-004	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.11		ND
SW-DU-004	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--	0.22		ND
SW-DU-004	SAIC02	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.26 +/- 0.16 J	0.091 +/- 0.097 U	0.094 +/- 0.092 U	0.45 +/- 0.21		ND
SW-DU-004	SAIC03	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.57 +/- 0.27 J	0.090 +/- 0.11 J	0.17 +/- 0.16 U	0.83 +/- 0.33		ND
SW-DU-004	SAIC04	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.40 +/- 0.40 U	0.060 +/- 0.28 U	0.55 +/- 0.42 J	1.0 +/- 0.64		ND
SW-DU-004	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.12 +/- 0.096 J	0.017 +/- 0.062 U	0.099 +/- 0.086 U	0.24 +/- 0.14		ND
SW-DU-004	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.042 +/- 0.045 U	0.040 +/- 0.042 U	0.022 +/- 0.040 U	ND		ND
SW-DU-004	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	0.14 +/- 0.056	0.023 +/- 0.034 J	0.11 +/- 0.051	0.27 +/- 0.083		0.78 +/- 0.48
SW-DU-004	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.10 +/- 0.052 J	0.025 +/- 0.026 U	0.15 +/- 0.061	0.28 +/- 0.084		1.5 +/- 0.96
SW-DU-004	SAIC08D	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.11 +/- 0.050 J	0.011 +/- 0.027 U	0.18 +/- 0.069	0.30 +/- 0.089		1.7 +/- 1.0
SW-DU-004	SAIC08C	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.10 +/- 0.051 J	0.018 +/- 0.027 U	0.16 +/- 0.065	0.29 +/- 0.087		1.6 +/- 0.99
SW-DU-004	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.067 +/- 0.069 J	0	0.083 +/- 0.077 J	0.15 +/- 0.10		1.2 +/- 1.7
SW-DU-004	SAIC10E	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.15 +/- 0.089 J	0.014 +/- 0.028 U	0.32 +/- 0.14	0.49 +/- 0.17		2.1 +/- 1.5
SW-DU-004	SAIC11E	Unfiltered	Alpha Spec.	04/16/2009	pCi/L	0.22 +/- 0.099 J	-1.2E-02 +/- 0.013 U	0.095 +/- 0.064 J	0.28 +/- 0.19 J		0.43 +/- 0.35
SW-DU-004	SAIC11DE	Unfiltered	Alpha Spec.	04/16/2009	pCi/L	0.13 +/- 0.080 J	0.010 +/- 0.027 U	0.050 +/- 0.047 J	0.15 +/- 0.14 J		0.38 +/- 0.42
SW-DU-004	SAIC11EC	Unfiltered	Alpha Spec.	04/16/2009	pCi/L	0.17 +/- 0.090 J	-7.9E-03 +/- 0.020 U	0.066 +/- 0.055 J	0.22 +/- 0.16 J		0.39 +/- 0.39
SW-DU-004	SAIC12E	Unfiltered	Alpha Spec.	10/29/2009	pCi/L	0.064 +/- 0.063 U	0.011 +/- 0.036 U	0.039 +/- 0.049 U	0.12 +/- 0.15 U		ND
SW-DU-004	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.15 +/- 0.071	0	0.0097 U	0.13 +/- 0.063 J		0.84 +/- 0.59
SW-DU-004	SAIC14E	Unfiltered	Alpha Spec.	10/14/2010	pCi/L	1.9 +/- 0.31	0.24 +/- 0.11	12 +/- 1.2	36 +/- 3.6		6.4 +/- 1.2
SW-DU-004	SAIC14DE	Unfiltered	Alpha Spec.	10/14/2010	pCi/L	2.1 +/- 0.34	0.33 +/- 0.14	14 +/- 1.4	41 +/- 4.1		6.6 +/- 1.3
SW-DU-004	SAIC14EC	Unfiltered	Alpha Spec.	10/14/2010	pCi/L	2.0 +/- 0.33	0.27 +/- 0.13	13 +/- 1.3	38 +/- 3.9		6.5 +/- 1.3
SW-DU-004	SAIC15E	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	0.73 +/- 0.17	0.021 +/- 0.030 U	0.081 +/- 0.053 J	0.25 +/- 0.16		0.11 +/- 0.077
SW-DU-004	SAIC16E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	0.69 +/- 0.17	0.011 +/- 0.023 U	0.32 +/- 0.11	0.94 +/- 0.33		0.46 +/- 0.20
SW-DU-004	SAIC17E	Unfiltered	Alpha Spec.	04/01/2012	pCi/L	0.032 +/- 0.041 U	-2.5E-03 +/- 0.0050 U	0.088 +/- 0.057 J	0.26 +/- 0.17		ND
SW-DU-004	SAIC18E	Unfiltered	ICP-MS	10/24/2012	µg/L	0.050	0.050	0.69	0.79		ND
SW-DU-005	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0		ND
SW-DU-005	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	4.0		ND
SW-DU-005	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0	U	ND
SW-DU-005	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	23		ND
SW-DU-005	SAIC1099D	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	29		ND
SW-DU-005	SAIC1099C	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	26		ND
SW-DU-005	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0		ND
SW-DU-005	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0	U	ND
SW-DU-005	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0	U	ND
SW-DU-005	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0	U	ND
SW-DU-005	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0	U	ND
SW-DU-005	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	3.4		ND
SW-DU-005	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.21		ND
SW-DU-005	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--	0.34		ND
SW-DU-005	SAIC02	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.32 +/- 0.17 J	0.20 +/- 0.15 J	0.064 +/- 0.076 J	0.58 +/- 0.24		0.20 +/- 0.26
SW-DU-005	SAIC02D	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.30 +/- 0.21 J	0.13 +/- 0.14 U	0.31 +/- 0.20 J	0.74 +/- 0.32		1.0 +/- 0.98
SW-DU-005	SAIC02C	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.31 +/- 0.19 J	0.16 +/- 0.15 U	0.095 +/- 0.14 J	0.64 +/- 0.28		0.30 +/- 0.48
SW-DU-005	SAIC03	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.47 +/- 0.24 J	0.080 +/- 0.11 R	0.43 +/- 0.22 J	0.98 +/- 0.34		0.91 +/- 0.66
SW-DU-005	SAIC04	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	1.6 +/- 0.75	0.25 +/- 0.31 U	1.1 +/- 0.65 J	3.0 +/- 1.0		0.73 +/- 0.55
SW-DU-005	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.20 +/- 0.12 J	-1.7E-02 +/- 0.051 U	0.22 +/- 0.11 LT	0.40 +/- 0.17		ND
SW-DU-005	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	0.17 +/- 0.090 J	0.036 +/- 0.045 U	0.064 +/- 0.060 U	0.27 +/- 0.12		ND
SW-DU-005	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	0.19 +/- 0.065	0.027 +/- 0.029 U	0.32 +/- 0.091	0.54 +/- 0.12		1.7 +/- 0.73
SW-DU-005	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.85 +/- 0.18	0.059 +/- 0.037 J	5.4 +/- 0.90	0.25 +/-		6.3 +/- 1.7
SW-DU-005	SAIC08R	Unfiltered	Alpha Spec.	01/31/2008	pCi/L	0.068 +/- 0.062 U	0.0080 +/- 0.042 U	0.16 +/- 0.087 J	0.25 +/-		ND

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				Total Uranium	DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238			
SW-DU-005	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.058 +/- 0.067 U	0	0.13 +/- 0.095 J		0.19 +/- 0.12	ND
SW-DU-005	SAIC09DE	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.059 +/- 0.067 R	0.020 +/- 0.040 R	0.15 +/- 0.099 R		0.23 +/- 0.13	2.5 +/- 3.3
SW-DU-005	SAIC09EC	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.059 +/- 0.067 R	0.010 +/-	0.14 +/- 0.097 R		0.20 +/- 0.12	2.4 +/- 3.2
SW-DU-005	SAIC10E	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.85 +/- 0.25	0.11 +/- 0.077 J	6.0 +/- 1.4		6.9 +/- 1.4	7.0 +/- 2.6
SW-DU-005	SAIC11E	Unfiltered	Alpha Spec.	04/16/2009	pCi/L	0.19 +/- 0.099 J	-9.0E-03 +/- 0.010 U	0.17 +/- 0.096 J		0.51 +/- 0.29 J	0.93 +/- 0.71
SW-DU-005	SAIC12E	Unfiltered	Alpha Spec.	10/28/2009	pCi/L	0.13 +/- 0.092 J	0.019 +/- 0.038 U	0.18 +/- 0.11		0.55 +/- 0.32 J	1.3 +/- 1.2
SW-DU-005	SAIC13E	Unfiltered	Alpha Spec.	04/07/2010	pCi/L	0.17 +/- 0.076	0.020 +/- 0.029 U	0.25 +/- 0.093		0.75 +/- 0.28 J	1.5 +/- 0.89
SW-DU-005	SAIC14E	Unfiltered	Alpha Spec.	10/14/2010	pCi/L	2.2 +/- 0.34	0.26 +/- 0.11	17 +/- 1.6		51 +/- 4.9	7.8 +/- 1.4
SW-DU-005	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	0.17 +/- 0.089 J	0.021 +/- 0.034 U	0.13 +/- 0.076 J		0.38 +/- 0.23	0.74 +/- 0.60
SW-DU-005	SAIC16E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	0.45 +/- 0.13	0	0.46 +/- 0.13		1.4 +/- 0.39	1.0 +/- 0.41
SW-DU-005	SAIC17E	Unfiltered	Alpha Spec.	03/31/2012	pCi/L	0.064 +/- 0.051 J	0.0030 +/- 0.024 U	0.060 +/- 0.047 J		0.18 +/- 0.14	0.94 +/- 1.0
SW-DU-005	SAIC18E	Unfiltered	ICP-MS	10/23/2012	µg/L	0.050	0.011	BN	5.6	5.7	ND
SW-DU-006	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--		1.0	ND
SW-DU-006	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--		0	U
SW-DU-006	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--		0	U
SW-DU-006	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--		0	U
SW-DU-006	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--		0	ND
SW-DU-006	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--		0	U
SW-DU-006	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--		0	U
SW-DU-006	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--		0	U
SW-DU-006	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--		0	U
SW-DU-006	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--		0	U
SW-DU-006	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--		0.053	ND
SW-DU-006	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--		0.11	ND
SW-DU-006	SAIC02	Unfiltered	Alpha Spec.	12/15/2004	pCi/L	0.20 +/- 0.13 J	0.022 +/- 0.079 U	0.095 +/- 0.087 J		0.32 +/- 0.18	0.48 +/- 0.53
SW-DU-006	SAIC03	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.28 +/- 0.19 J	0.030 +/- 0.10 U	0.17 +/- 0.14 U		0.48 +/- 0.26	ND
SW-DU-006	SAIC04	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.61 +/- 0.44 J	0.070 +/- 0.29 U	0.38 +/- 0.35 U		1.1 +/- 0.63	ND
SW-DU-006	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.067 +/- 0.071 U	0.0010 +/- 0.051 U	0.066 +/- 0.066 U		ND	ND
SW-DU-006	SAIC06	Unfiltered	Alpha Spec.	09/28/2006	pCi/L	0.088 +/- 0.057 J	0.021 +/- 0.032 U	0.23 +/- 0.094		0.34 +/- 0.11	2.6 +/- 2.0
SW-DU-006	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	0.057 +/- 0.037 J	0.0040 +/- 0.022 U	0.049 +/- 0.036 J		0.11 +/- 0.056	0.86 +/- 0.84
SW-DU-006	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.022 +/- 0.045 U	0	0.013 +/- 0.048 U		ND	U
SW-DU-006	SAIC10E	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.041 +/- 0.042 J	-1.0E-02 +/- 0.015 U	0.010 +/- 0.021 U		0.041 +/- 0.049 U	ND
SW-DU-006	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.089 +/- 0.075 U	0.025 +/- 0.041 U	0.14 +/- 0.080 J		0.42 +/- 0.24 J	ND
SW-DU-006	SAIC12E	Unfiltered	Alpha Spec.	10/28/2009	pCi/L	0.045 +/- 0.057 U	0.017 +/- 0.035 U	0.11 +/- 0.080 J		0.32 +/- 0.24 J	ND
SW-DU-006	SAIC12DE	Unfiltered	Alpha Spec.	10/28/2009	pCi/L	-2.0E-03 +/- 0.027 U	-5.6E-03 +/- 0.0080 U	0.080 +/- 0.064 J		0.24 +/- 0.19 J	ND
SW-DU-006	SAIC12EC	Unfiltered	Alpha Spec.	10/28/2009	pCi/L	0.0066 +/- 0.042 U	-4.5E-03 +/- 0.022 U	0.090 +/- 0.072 J		0.28 +/- 0.21 J	ND
SW-DU-006	SAIC13E	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.030 +/- 0.043 U	0	0.030 +/- 0.043 U		0.090	0.13 U
SW-DU-006	SAIC13DE	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.46 +/- 0.14	0.034 +/- 0.039 J	0.027 +/- 0.031 J		0.096 +/- 0.094 J	0.059 +/- 0.070
SW-DU-006	SAIC13EC	Unfiltered	Alpha Spec.	04/06/2010	pCi/L	0.067 +/- 0.091	0.0025 +/- 0.025 J	0.028 +/- 0.037 J		0.093 +/- 0.11 J	0.42 +/- 0.80
SW-DU-006	SAIC14E	Unfiltered	Alpha Spec.	04/27/2011	pCi/L	0.18 +/- 0.083	0.0090 +/- 0.023 U	0.018 +/- 0.026 U		0.058 +/- 0.077 U	ND
SW-DU-006	SAIC15E	Unfiltered	Alpha Spec.	11/01/2011	pCi/L	0.093 +/- 0.058 J	0.010 +/- 0.020 U	0.10 +/- 0.060 J		0.30 +/- 0.18	1.1 +/- 0.94
SW-DU-006	SAIC16E	Unfiltered	Alpha Spec.	03/31/2012	pCi/L	0.021 +/- 0.032 U	0.0020 +/- 0.021 U	0.066 +/- 0.047 J		0.20 +/- 0.14	ND
SW-DU-006	SAIC17E	Unfiltered	Alpha Spec.	10/24/2012	pCi/L	0.47 +/- 0.14	0.013 +/- 0.031 U	0.38 +/- 0.12		1.1 +/- 0.36	0.81 +/- 0.35
SW-DU-007	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--		2.0	ND
SW-DU-007	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--		0	U
SW-DU-007	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--		0	U
SW-DU-007	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--		0	U
SW-DU-007	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--		0	ND
SW-DU-007	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--		0	U
SW-DU-007	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--		0.68	ND
SW-DU-007	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--		0	U

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)				DU Presence U-238/U-234 Ratio
						U-234	U-235	U-238	Total Uranium	
SW-DU-007	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0 U	ND
SW-DU-007	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	0 U	ND
SW-DU-007	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.070	ND
SW-DU-007	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--	0.12	ND
SW-DU-007	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.16 +/- 0.14 U	0.16 +/- 0.13 J	0.029 +/- 0.075 U	0.35 +/- 0.21	ND
SW-DU-007	SAIC03	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.41 +/- 0.22 J	0.17 +/- 0.15 J	0.15 +/- 0.12 J	0.73 +/- 0.29	0.37 +/- 0.35
SW-DU-007	SAIC04	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.33 +/- 0.33 U	0.080 +/- 0.30 U	0.34 +/- 0.33 J	0.75 +/- 0.55	ND
SW-DU-007	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.021 +/- 0.043 U	0.010 +/- 0.050 U	0.086 +/- 0.068 J	0.12 +/- 0.095	ND
SW-DU-007	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	0.055 +/- 0.044 J	0.012 +/- 0.032 U	0.021 +/- 0.032 U	0.088 +/- 0.063	ND
SW-DU-007	SAIC07	Unfiltered	Alpha Spec.	04/26/2007	pCi/L	0.11 +/- 0.047	0.023 +/- 0.023 J	0.043 +/- 0.039 U	0.18 +/- 0.065	ND
SW-DU-007	SAIC08	Unfiltered	Alpha Spec.	10/04/2007	pCi/L	0.18 +/- 0.067 J	0.023 +/- 0.033 U	0.12 +/- 0.052	0.32 +/- 0.091	0.70 +/- 0.40
SW-DU-007	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.031 +/- 0.045 U	0.012 +/- 0.042 U	0.063 +/- 0.064 J	0.11 +/- 0.089	ND
SW-DU-007	SAIC10E	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.14 +/- 0.081 J	0 0.14 U	0.11 +/- 0.073 J	0.25 +/- 0.17	0.84 +/- 0.74
SW-DU-007	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.11 +/- 0.075 J	0.041 +/- 0.048 J	0.14 +/- 0.081 J	0.44 +/- 0.24 J	1.2 +/- 1.1
SW-DU-007	SAIC12E	Unfiltered	Alpha Spec.	10/29/2009	pCi/L	0.018 +/- 0.036 U	0.012 +/- 0.031 U	0.084 +/- 0.065 J	0.25 +/- 0.20 J	ND
SW-DU-007	SAIC13E	Unfiltered	Alpha Spec.	04/07/2010	pCi/L	0.046 +/- 0.042 U	0.019 +/- 0.027 U	0.046 +/- 0.041 U	0.15 +/- 0.12 U	ND
SW-DU-007	SAIC14E	Unfiltered	Alpha Spec.	10/15/2010	pCi/L	0.29 +/- 0.13	0.017 +/- 0.033 U	0.26 +/- 0.12	0.79 +/- 0.36	0.90 +/- 0.58
SW-DU-007	SAIC15E	Unfiltered	Alpha Spec.	04/28/2011	pCi/L	0.11 +/- 0.064 J	-2.6E-03 +/- 0.0052 U	0.10 +/- 0.061 J	0.30 +/- 0.18	0.93 +/- 0.77
SW-DU-007	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	0.17 +/- 0.075	0.010 +/- 0.020 U	0.11 +/- 0.063 J	0.33 +/- 0.19	0.66 +/- 0.49
SW-DU-007	SAIC17E	Unfiltered	Alpha Spec.	03/31/2012	pCi/L	0.046 +/- 0.045 U	0 0.0048 U	0.044 +/- 0.038 J	0.13 +/- 0.11	ND
SW-DU-007	SAIC18E	Unfiltered	Alpha Spec.	10/24/2012	pCi/L	0.22 +/- 0.10	0.010 +/- 0.026 U	0.19 +/- 0.091	0.57 +/- 0.27	0.86 +/- 0.57
SW-DU-008	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
SW-DU-008	SAIC0498D	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
SW-DU-008	SAIC0498C	Unfiltered	Fluorometry	04/01/1998	pCi/L	--	--	--	1.0	ND
SW-DU-008	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--	--	--	0 U	ND
SW-DU-008	SAIC0499	Unfiltered	Fluorometry	04/01/1999	pCi/L	--	--	--	0.80 U	ND
SW-DU-008	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--	--	--	0 U	ND
SW-DU-008	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--	--	--	0	ND
SW-DU-008	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--	--	--	0 U	ND
SW-DU-008	SAIC0401	Unfiltered	Fluorometry	04/01/2001	pCi/L	--	--	--	0.68	ND
SW-DU-008	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--	--	--	0 U	ND
SW-DU-008	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--	--	--	0 U	ND
SW-DU-008	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--	--	--	3.4	ND
SW-DU-008	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--	--	--	0.31	ND
SW-DU-008	SAIC01	Unfiltered	ICP-MS	04/29/2004	µg/L	--	--	--	0.49	ND
SW-DU-008	SAIC02	Unfiltered	Alpha Spec.	12/16/2004	pCi/L	0.16 +/- 0.12 J	-4.0E-03 +/- 0.078 U	0.22 +/- 0.14 J	0.38 +/- 0.20	1.4 +/- 1.4
SW-DU-008	SAIC03	Unfiltered	Alpha Spec.	05/24/2005	pCi/L	0.47 +/- 0.24 J	0.18 +/- 0.15 J	0.51 +/- 0.25 LT	1.2 +/- 0.38	ND
SW-DU-008	SAIC04	Unfiltered	Alpha Spec.	10/20/2005	pCi/L	0.63 +/- 0.43 J	0.080 +/- 0.29 U	0.31 +/- 0.32 U	1.0 +/- 0.61	ND
SW-DU-008	SAIC05	Unfiltered	Alpha Spec.	04/12/2006	pCi/L	0.14 +/- 0.089 J	0.038 +/- 0.051 U	0.44 +/- 0.16 LT	0.62 +/- 0.19	ND
SW-DU-008	SAIC06	Unfiltered	Alpha Spec.	09/27/2006	pCi/L	0.087 +/- 0.056 J	0.014 +/- 0.030 U	0.023 +/- 0.037 U	0.12 +/- 0.074	ND
SW-DU-008	SAIC07	Unfiltered	Alpha Spec.	04/25/2007	pCi/L	0.18 +/- 0.065	0.017 +/- 0.025 U	0.30 +/- 0.086	0.50 +/- 0.11	1.7 +/- 0.78
SW-DU-008	SAIC08	Unfiltered	Alpha Spec.	10/03/2007	pCi/L	0.16 +/- 0.058 J	0.029 +/- 0.024 J	0.34 +/- 0.095	0.53 +/- 0.11	2.2 +/- 1.00
SW-DU-008	SAIC09E	Unfiltered	Alpha Spec.	05/05/2008	pCi/L	0.050 +/- 0.084 U	0.028 +/- 0.057 U	0.082 +/- 0.095 U	ND	ND
SW-DU-008	SAIC10E	Unfiltered	Alpha Spec.	10/11/2008	pCi/L	0.12 +/- 0.074 J	0.012 +/- 0.025 U	0.43 +/- 0.16	0.56 +/- 0.18	3.6 +/- 2.6
SW-DU-008	SAIC11E	Unfiltered	Alpha Spec.	04/14/2009	pCi/L	0.093 +/- 0.063 J	0.037 +/- 0.042 J	0.093 +/- 0.063 J	0.29 +/- 0.19 J	1.0 +/- 0.96
SW-DU-008	SAIC12E	Unfiltered	Alpha Spec.	10/29/2009	pCi/L	0.10 +/- 0.069 J	-2.5E-03 +/- 0.0051 U	0.26 +/- 0.11	0.76 +/- 0.32 J	2.5 +/- 2.0
SW-DU-008	SAIC13E	Unfiltered	Alpha Spec.	04/07/2010	pCi/L	0.19 +/- 0.089	0.035 +/- 0.040 J	0.30 +/- 0.11	0.92 +/- 0.33 J	1.6 +/- 0.95
SW-DU-008	SAIC14E	Unfiltered	Alpha Spec.	10/14/2010	pCi/L	0.34 +/- 0.12	0.015 +/- 0.035 U	0.76 +/- 0.18	2.3 +/- 0.54	2.2 +/- 0.95
SW-DU-008	SAIC15E	Unfiltered	Alpha Spec.	04/26/2011	pCi/L	1.1 +/- 0.22	0.014 +/- 0.034 U	0.21 +/- 0.091 J	0.62 +/- 0.27	0.19 +/- 0.095
SW-DU-008	SAIC16E	Unfiltered	Alpha Spec.	11/02/2011	pCi/L	0.18 +/- 0.076	0.0090 +/- 0.019 U	0.62 +/- 0.15	1.8 +/- 0.43	3.5 +/- 1.7
SW-DU-008	SAIC17E	Unfiltered	Alpha Spec.	03/31/2012	pCi/L	0.095 +/- 0.058 J	0.020 +/- 0.028 U	0.12 +/- 0.062 J	0.36 +/- 0.19	1.3 +/- 1.0

**Total and Isotopic Uranium Results for Surface Water and Groundwater Samples**

Total and Isotopic Uranium Results for Surface Water and Groundwater Samples												
Sample ID	Field Sample Number	Filtered	Analysis Method	Sampling Date	Units	Uranium Activity/Mass Concentrations (Alpha Spectrometry)					DU Presence	
						U-234		U-235		U-238	Total Uranium	U-238/U-234 Ratio
SW-DU-008	SAIC18E	Unfiltered	ICP-MS	10/23/2012	µg/L	0.050	U	0.050	U	1.4	1.5	ND
SW-DU-009	SAIC0498	Unfiltered	Fluorometry	04/01/1998	pCi/L	--		--		--	1.0	ND
SW-DU-009	SAIC1098	Unfiltered	Fluorometry	10/01/1998	pCi/L	--		--		--	0	U ND
SW-DU-009	SAIC1099	Unfiltered	Fluorometry	10/01/1999	pCi/L	--		--		--	0	U ND
SW-DU-009	SAIC0400	Unfiltered	Fluorometry	04/01/2000	pCi/L	--		--		--	0	ND
SW-DU-009	SAIC1000	Unfiltered	Fluorometry	10/01/2000	pCi/L	--		--		--	0	U ND
SW-DU-009	SAIC1001	Unfiltered	Fluorometry	10/01/2001	pCi/L	--		--		--	0	U ND
SW-DU-009	SAIC0402	Unfiltered	Fluorometry	04/01/2002	pCi/L	--		--		--	0	U ND
SW-DU-009	SAIC1002	Unfiltered	Fluorometry	10/01/2002	pCi/L	--		--		--	0	U ND
SW-DU-009	SAIC0403	Unfiltered	Fluorometry	04/01/2003	pCi/L	--		--		--	0.23	ND



## Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

Location ID	Sample ID	Sample Type	Depth (ft.)	Parameter	Sample Date	DR-BHZ-01 SAICB BIOL 0.0 11/30/2005	DR-BHZ-01 SAICK BIOL 0.0 11/30/2005	DR-BHZ-01 SAICL BIOL 0.0 11/30/2005	DR-BHZ-01 SAICM BIOL 0.0 11/30/2005	DR-BHZ-02 SAICB BIOL 0.0 12/02/2005	DR-BHZ-02 SAICBD BIOL 0.0 12/02/2005	DR-BHZ-02 SAICK BIOL 0.0 12/02/2005	DR-BHZ-02 SAICL BIOL 0.0 12/02/2005	DR-BHZ-02 SAICLD BIOL 0.0 12/02/2005	DR-BHZ-02 SAICM BIOL 0.0 12/02/2005	DR-BHZ-02 SAICMD BIOL 0.0 12/02/2005
<b>Depleted Uranium</b>																
Total Uranium	pci/g	0.1				N/A	N/A	N/A	0.0088	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>																
Uranium 234	pci/g	0.1				0.0047 U	0.0054 U	0.0024 U	0.0066 U	0.0104 J	0.0108 J	0.0052 U	0.0127 J	0.0033 U	0.0036 U	0.0072 J
Uranium 235	pci/g	0.1				-0.0004 U	0.0012 U	0.0016 U	0.0016 U	0.0015 U	0.0036 U	0.0023 U	0.0024 J	0.0005 U	0.0005 U	0.0009 U
Uranium 238	pci/g	0.1				0.0027 U	0.001 U	0.0033 U	0.0006 U	0.0086 J	0.0016 U	0.0016 U	0.0014 U	0.0032 U	0.0006 U	0.0056 J

## Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

	Location ID	DR-BHZ-03	DR-BHZ-03	DR-BHZ-03	DR-BHZ-03	DR-BHZ-04	DR-BHZ-04	DR-BHZ-04	DR-BHZ-04	DR-BHZ-04	DR-BHZ-05	DR-BHZ-05	DR-BHZ-05
	Sample ID	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICKD	SAICL	SAICM	SAICB	SAICK	SAICL
	Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
	Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006
<b>Depleted Uranium</b>													
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>													
Uranium 234		0.0015 U	0.0007 U	0.0068 J	0.0052 U	0.0049 U	0.0043 J	0.0023 U	0.0063 U	0.0073 J	0.0079 J	0.0139 J	0.0071 J
Uranium 235		0.001 U	-0.0002 U	0.0011 U	0.0017 U	0.0008 U	0.0031 J	0.0026 U	0.0013 U	0.0014 U	-0.0004 U	0.0058 J	0.0031 U
Uranium 238		0.0057 J	0.0021 U	0.0026 U	0.0077 J	0.0031 J	0.0038 U	0.0015 U	0.001 U	0.0023 U	0.0119 J	0.0052 U	0.0069 U

## Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

Location ID	DR-BHZ-05	DR-BHZ-06	DR-BHZ-06	DR-BHZ-06	DR-BHZ-06	DR-BHZ-07	DR-BHZ-07	DR-BHZ-07	DR-BHZ-07	DR-BHZ-08	DR-BHZ-08	DR-BHZ-08
Sample ID	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL
Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/23/2006	02/24/2006	02/24/2006	02/24/2006	02/24/2006	02/24/2006	02/24/2006
<b>Depleted Uranium</b>												
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>												
Uranium 234	0.0115 J	0.0056 U	0.0081 J	0.009 U	0.0061 J	0.006 U	0.071	0.0062 J	0.0046 J	0.0116 J	0.0106 J	0.0085 J
Uranium 235	0.0037 U	0.0071 J	0.0069 J	0.0041 U	-0.0004 U	0.0012 U	0.0015 U	0.0009 U	0.0009 U	0.004 U	0.0021 U	-0.001 U
Uranium 238	0.0032 U	0.0016 U	0.0031 U	0.0065 U	0.0016 U	0.0023 U	0.0018 U	-0.0001 U	0.0006 U	0.002 U	0.0011 U	0.0092 J

# Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

Location ID	DR-BHZ-08	DR-BHZ-09	DR-BHZ-09	DR-BHZ-09	DR-BHZ-09	DR-BHZ-09	DR-BHZ-10	DR-BHZ-10	DR-BHZ-10	DR-BHZ-10	DR-DUA-01	DR-DUA-01	DR-DUA-01	DR-DUA-01
Sample ID	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	
Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Parameter	Sample Date	02/24/2006	02/24/2006	02/24/2006	02/24/2006	02/24/2006	02/24/2006	02/24/2006	02/24/2006	02/24/2006	12/05/2005	12/05/2005	12/05/2005	12/05/2005
Depleted Uranium														
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total/Isotopic Uranium														
Uranium 234	0.0107 J	0.0025 U	0.0079 U	0.0033 U	0.0121 J	0.019 J	0.021 J	0.0089 J	0.0081 J	0.0066 J	0.0049 U	0.0039 U	0.0061 J	
Uranium 235	0.0008 U	0.0015 U	0.0009 U	0.003 U	0.0051 U	0.005 U	-0.0001 U	-0.0005 U	0.0024 U	0.0013 U	0.0012 U	0.0011 U	-0.0006 U	
Uranium 238	0.0021 U	0.0025 U	0.0053 U	0.0026 U	0.003 U	0.0094 J	0.0059 U	0.0029 U	0.0034 U	0.0016 U	0.002 U	0.0019 U	0.0006 U	

# Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

Location ID	DR-DUA-02	DR-DUA-02	DR-DUA-02	DR-DUA-02	DR-DUA-03	DR-DUA-03	DR-DUA-03	DR-DUA-03	DR-DUA-04	DR-DUA-04	DR-DUA-04	DR-DUA-04
Sample ID	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICBD	SAICK	SAICKD
Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005
<b>Depleted Uranium</b>												
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>												
Uranium 234	0.0067 U	0.0041 U	0.0105 J	0.0024 U	0.0058 J	0.0024 U	0.0042 U	0.0038 U	0.016 J	0.0041 U	0.0022 U	0.0034 U
Uranium 235	0.0008 U	0.0005 U	0.0008 U	-0.0011 U	0.0012 U	0.0007 U	0 U	-0.0016 U	0 U	0.0046 U	0 U	0.0015 U
Uranium 238	0.0003 U	-0.0001 U	0.0019 J	-0.0001 U	0.0036 U	0.0016 U	0.0022 U	-0.0009 U	-0.0011 U	0.0014 U	0.0014 U	0.0018 U

# **Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana**

Location ID	DR-DUA-04	DR-DUA-04	DR-DUA-04	DR-DUA-04	DR-DUA-05	DR-DUA-05	DR-DUA-05	DR-DUA-05	DR-DUA-05	DR-DUA-06	DR-DUA-06	DR-DUA-06	DR-DUA-06
Sample ID	SAICL	SAICLD	SAICM	SAICMD	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICM
Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005	12/06/2005
<b>Depleted Uranium</b>													
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>													
Uranium 234	0.0106 J	0.0117 J	0.0095 J	0.0073 J	0.0116 J	0.0075 J	0.0006 U	0.0021 U	0.0086 J	0.0062 J	0.0084 J	0.0067 J	
Uranium 235	0.0007 U	0.0038 U	0.0045 U	0.001 U	0.0026 U	0 U	0 U	0 U	0.0022 U	0.0008 U	0 U	0.0026 U	
Uranium 238	0.0028 U	0.0008 U	0.0003 U	0.0001 U	0.0029 U	0.0033 J	0.0035 U	0.002 U	0.0043 R	0.0057 U	0.001 U	0.0029 U	

## Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

Location ID	DR-DUA-07	DR-DUA-07	DR-DUA-07	DR-DUA-07	DR-DUA-08	DR-DUA-08	DR-DUA-08	DR-DUA-08	DR-DUA-08	DR-DUA-09	DR-DUA-09	DR-DUA-09	DR-DUA-09
Sample ID	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICM
Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	12/07/2005	12/07/2005	12/07/2005	12/07/2005	12/07/2005	12/07/2005	12/07/2005	12/07/2005	12/07/2005	12/07/2005	12/07/2005	12/07/2005
<b>Depleted Uranium</b>													
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>													
Uranium 234		<b>0.02 J</b>	0.0074 U	0.0044 U	<b>0.0139 J</b>	0.0037 U	<b>0.0069 J</b>	<b>0.0098 J</b>	0.0052 U	0.015 U	<b>0.0114 J</b>	<b>0.0072 J</b>	0.0027 U
Uranium 235		-0.001 UJ	0.0025 U	0.0022 U	0.001 U	0.0043 U	-0.0002 U	0.0013 U	0.0001 U	0.0034 U	0.0006 U	0.0023 U	-0.0002 U
Uranium 238		0.0094 UJ	0.002 U	-0.0005 U	0.0038 U	0.0026 U	<b>0.004 J</b>	0.0007 U	0.0021 U	0.0064 U	0.0022 U	-0.0006 U	0.0037 U

## Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

	Location ID	DR-DUA-10	DR-DUA-10	DR-DUA-10	DR-DUA-10	DR-NHZ-01	DR-NHZ-01	DR-NHZ-01	DR-NHZ-01	DR-NHZ-02	DR-NHZ-02	DR-NHZ-02	DR-NHZ-02	DR-NHZ-02
	Sample ID	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICBD	SAICK	SAICKD	SAICL
	Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
	Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	12/07/2005	12/07/2005	12/07/2005	12/07/2005	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/21/2006
<b>Depleted Uranium</b>														
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>														
Uranium 234		0.0112 UJ	0.0055 U	0.003 U	0.007 U	0.0054 J	0.01 J	0.0057 J	0.0139 LT	0.0112 J	0.021 J	0.0017 U	0.0054 U	0.0086 U
Uranium 235		-0.0036 UJ	-0.0002 U	0.0022 U	0.0027 U	0.0009 U	0.0056 J	0.0022 J	0.003 U	0.0052 U	0.0064 U	0.0035 U	0.0036 U	0.0014 U
Uranium 238		0.0061 UJ	0.0018 U	0.0027 U	0.0013 U	0.0054 U	0.0066 J	0.003 U	0.0036 U	0.0021 U	0.0049 U	0.0053 U	0.0045 U	0.0016 U



# **Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana**

Location ID		DR-NHZ-02	DR-NHZ-02	DR-NHZ-02	DR-NHZ-03	DR-NHZ-03	DR-NHZ-03	DR-NHZ-03	DR-NHZ-04	DR-NHZ-04	DR-NHZ-04	DR-NHZ-04	DR-NHZ-05
Sample ID		SAICLD	SAICM	SAICMD	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB
Sample Type		BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
Depth (ft.)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/21/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006
<b>Depleted Uranium</b>													
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>													
Uranium 234		0.0116 J	0.0122 J	0.0135 J	0.0041 J	0.0122 J	0.0082 J	0.0072 J	0.0081 J	0.004 U	0.0067 U	0.0076 J	0.0019 U
Uranium 235		0.0041 J	0.0016 U	0.0026 U	0.0048 J	0.005 U	-0.0007 U	0.0006 U	0.0037 U	-0.0002 U	0.0029 U	0.0028 U	-0.0002 U
Uranium 238		0.0058 J	0.0029 U	0.003 U	0.0041 J	0.0042 U	0.0036 U	-0.0002 U	0.0069 J	0.003 U	0.0015 U	0.0032 U	0.0033 U

# Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

Location ID	DR-NHZ-05	DR-NHZ-05	DR-NHZ-05	DR-NHZ-06	DR-NHZ-06	DR-NHZ-06	DR-NHZ-06	DR-NHZ-07	DR-NHZ-07	DR-NHZ-07	DR-NHZ-07	DR-NHZ-08
Sample ID	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB
Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006
<b>Depleted Uranium</b>												
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>												
Uranium 234	0.0074 J	0.0073 U	0.0043 U	0.0055 U	0.0066 J	0.0102 J	0.0061 J	0.0077 J	0.007 U	0.0074 J	0.0047 J	0.0013 U
Uranium 235	0 U	0.0003 U	0.002 U	-0.0008 U	0.0016 U	0.0019 U	0.0015 U	0.0013 R	0.0003 U	0.002 U	0.0026 J	-0.002 U
Uranium 238	0.0065 J	0.0011 U	0.0033 U	0.0013 U	0.0003 U	-0.0004 U	0.0023 U	0.0021 U	0.0034 U	0.0033 U	0.0026 U	0.0011 U

## Data Presentation: Deer Tissue, Jefferson Proving Ground, Madison, Indiana

Location ID	DR-NHZ-08	DR-NHZ-08	DR-NHZ-08	DR-NHZ-09	DR-NHZ-09	DR-NHZ-09	DR-NHZ-09	DR-NHZ-10	DR-NHZ-10	DR-NHZ-10	DR-NHZ-10
Sample ID	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM	SAICB	SAICK	SAICL	SAICM
Sample Type	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL	BIOL
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/22/2006	02/23/2006	02/23/2006	02/23/2006
<b>Depleted Uranium</b>											
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>											
Uranium 234	0.0038 U	0.002 U	<b>0.0066 J</b>	<b>0.0062 J</b>	0.0064 U	0.0067 U	0.0045 U	<b>0.0116 J</b>	0.0039 U	0.0035 U	0.0073 U
Uranium 235	0.001 U	0.0026 U	0.0007 U	0.0008 U	-0.0008 U	0.0006 U	0.0005 U	0.001 U	0.001 U	0.0014 U	0.0043 U
Uranium 238	0.0049 U	0.0007 U	0.004 U	0.0032 U	0.0057 U	0.0031 U	<b>0.0065 J</b>	0.001 U	0.0036 U	0.0032 U	0.0039 U

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	Units	Reporting Limit	JP-KAC-008 SAIC04-00 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-04 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-08 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-12 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-24 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-36 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-48 BORE 2.0 10/28/2008	JP-KAC-009 SAIC01 BORE 0.0 10/21/2008	JP-KAC-010 SAIC04 BORE 2.0 10/23/2008	JP-KAC-010 SAIC04-00 BORE 2.0 10/23/2008
<b>Alkalinity</b>												
Alkalinity	mg/kg	1	50 U	50 U	50 U	50 U	50 U	50 U	50 U	N/A	N/A	50 U
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	meq/100g		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>												
Iron	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	4870	20000	N/A
Manganese	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.6	117	N/A
<b>Metals</b>												
Iron	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>												
Moisture	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	No Units		4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.7	5.5	5.4
<b>TC</b>												
Total Carbon	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Parameter	Location ID Sample ID Sample Type Depth (ft.) Sample Date	Units	Reporting Limit	JP-KAC-008 SAIC04-00 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-04 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-08 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-12 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-24 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-36 BORE 2.0 10/28/2008	JP-KAC-008 SAIC04-48 BORE 2.0 10/28/2008	JP-KAC-009 SAIC01 BORE 0.0 10/21/2008	JP-KAC-010 SAIC04 BORE 2.0 10/23/2008	JP-KAC-010 SAIC04-00 BORE 2.0 10/23/2008
<b>TOC</b>													
Total Organic Carbon		mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Carbon		mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	16400	2000	N/A
Total Organic Carbon		mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	8970	956 B	N/A
<b>Total Carbon</b>													
Total Carbon		mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon		mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010
Sample ID	SAIC04-04	SAIC04-08	SAIC04-12	SAIC04-24	SAIC04-36	SAIC04-48	SAIC04D-00	SAIC04D-04	SAIC04D-08	SAIC04D-12	SAIC04D-24	SAIC04D-36	SAIC04D-36
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Parameter	Sample Date	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008
<b>Alkalinity</b>													
Alkalinity	50 U	50 U	50 U	50 U	6.4 BJ	25.6 BJ	16 BJ	114 J	43.2 BJ	52.8 J	50 U	14.4 BJ	
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>													
pH	5.2	5.4	5.2	4.2	5.3	5.2	6.3	6.4	6.2	6.4	5.4	5.4	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TC</b>													
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010	JP-KAC-010
	Sample ID	SAIC04-04	SAIC04-08	SAIC04-12	SAIC04-24	SAIC04-36	SAIC04-48	SAIC04D-00	SAIC04D-04	SAIC04D-08	SAIC04D-12	SAIC04D-24	SAIC04D-36
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Parameter	Sample Date	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008
<b>TOC</b>													
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-KAC-010	JP-KAC-011	JP-KAC-011	JP-KAC-011	JP-KAC-012	JP-KAC-012	JP-KAC-012	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013
Sample ID	SAIC04D-48	SAIC01R	SAIC01	SAIC01D	SAIC01R	SAIC01R_D60	SAIC01	SAIC01R	SAIC01R_D60	SAIC01	SAIC01-00	SAIC01-04
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	13.0	10.0	10.0	11.0	11.0	10.0	12.0	12.0	10.0	10.0	10.0
Parameter	Sample Date	10/23/2008	03/28/2012	12/09/2009	12/09/2009	03/29/2012	03/29/2012	12/11/2009	03/29/2012	03/29/2012	12/11/2009	12/11/2009
<b>Alkalinity</b>												
Alkalinity	11.2 BJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	128 J	150 J
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	5.6 J	N/A	N/A	9.8 J	N/A	N/A	18.3 J	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>												
Iron	N/A	N/A	22700	19200	N/A	N/A	17100	N/A	N/A	21600	N/A	N/A
Manganese	N/A	N/A	556	843 D	N/A	N/A	381 E	N/A	N/A	1680 DE	N/A	N/A
<b>Metals</b>												
Iron	N/A	12900 N*	N/A	N/A	16600 NE*	N/A	N/A	9660 NE*	N/A	N/A	N/A	N/A
Manganese	N/A	315 N	N/A	N/A	931 NE	N/A	N/A	307 NE	N/A	N/A	N/A	N/A
<b>Moisture</b>												
Moisture	N/A	N/A	14.03	14.3	N/A	N/A	11.37	N/A	N/A	12.36	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	13.7	N/A	N/A	12.5	N/A	N/A	14.0	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	21.1	N/A	N/A	30.3	N/A	N/A	15.3	N/A	N/A	N/A	N/A
Coarse Sand	N/A	2.4	N/A	N/A	3.2	N/A	N/A	3.8	N/A	N/A	N/A	N/A
Fine Sand	N/A	25.8	N/A	N/A	23.6	N/A	N/A	35.2	N/A	N/A	N/A	N/A
Gravel	N/A	2.7	N/A	N/A	0.2	N/A	N/A	2.3	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	42.8	N/A	N/A	54.8	N/A	N/A	30.8	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	36.5	N/A	N/A	48.7	N/A	N/A	24.9	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	28.8	N/A	N/A	38.9	N/A	N/A	20.5	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	24.9	N/A	N/A	34	N/A	N/A	17.6	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	21.1	N/A	N/A	30.3	N/A	N/A	15.3	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	16	N/A	N/A	23.9	N/A	N/A	12.2	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	10.9	N/A	N/A	18.9	N/A	N/A	9.2	N/A	N/A	N/A	N/A
Medium Sand	N/A	7.7	N/A	N/A	6.9	N/A	N/A	22.2	N/A	N/A	N/A	N/A
Sand	N/A	35.9	N/A	N/A	33.7	N/A	N/A	61.2	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	94.9	N/A	N/A	96.6	N/A	N/A	93.9	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	70.1	N/A	N/A	74.2	N/A	N/A	42.9	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	92	N/A	N/A	94.1	N/A	N/A	85.8	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	61.4	N/A	N/A	66.1	N/A	N/A	36.5	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	97.3	N/A	N/A	99.8	N/A	N/A	97.7	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	87.2	N/A	N/A	89.7	N/A	N/A	71.7	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	79	N/A	N/A	82.4	N/A	N/A	54.5	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	73.5	N/A	N/A	77.2	N/A	N/A	46.4	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	100	N/A	N/A	100	N/A	N/A	100	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	100	N/A	N/A	100	N/A	N/A	100	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	100	N/A	N/A	100	N/A	N/A	100	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	100	N/A	N/A	100	N/A	N/A	100	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	100	N/A	N/A	100	N/A	N/A	100	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	100	N/A	N/A	100	N/A	N/A	100	N/A	N/A	N/A	N/A
Silt	N/A	40.3	N/A	N/A	35.8	N/A	N/A	21.2	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	5.3	N/A	8.43 O-04	8.31 O-04	N/A	N/A	8.13 O-04	N/A	N/A	8.37 O-04	8.2	8.3
<b>TC</b>												
Total Carbon	N/A	N/A	5950	10900	N/A	N/A	3900	N/A	N/A	370	N/A	N/A



## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-KAC-010	JP-KAC-011	JP-KAC-011	JP-KAC-011	JP-KAC-012	JP-KAC-012	JP-KAC-012	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013
	Sample ID	SAIC04D-48	SAIC01R	SAIC01	SAIC01D	SAIC01R	SAIC01R_D60	SAIC01	SAIC01R	SAIC01R_D60	SAIC01	SAIC01-00	SAIC01-04
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	2.0	13.0	10.0	10.0	11.0	11.0	10.0	12.0	12.0	10.0	10.0	10.0
Parameter	Sample Date	10/23/2008	03/28/2012	12/09/2009	12/09/2009	03/29/2012	03/29/2012	12/11/2009	03/29/2012	03/29/2012	12/11/2009	12/11/2009	12/11/2009
<b>TOC</b>													
Total Organic Carbon		N/A	483	N/A	N/A	580 est	N/A	N/A	80.0 B	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	13000	17400	N/A	N/A	924	N/A	N/A	464	N/A	N/A
<b>Total Carbon</b>													
Total Carbon		N/A	28000	N/A	N/A	8440	N/A	N/A	10000	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon		N/A	27600	N/A	N/A	7860	N/A	N/A	9920	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KCR-002	JP-KCR-002	JP-KCR-002	JP-KCR-002	JP-KCR-002	JP-KCR-002	JP-KCR-002
Sample ID	SAIC01-08	SAIC01-12	SAIC01-24	SAIC01-36	SAIC01-48	SAIC04-00	SAIC04-04	SAIC04-08	SAIC04-12	SAIC04-24	SAIC04-36	SAIC04-48
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	10.0	10.0	10.0	10.0	10.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Parameter	Sample Date	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008
<b>Alkalinity</b>												
Alkalinity		136 J	216 J	136 J	192 J	601 J	50 U	50 U	50 U	50 U	16 BJ	50 U
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>												
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>												
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH		8.3	8.3	8.1	8.3	8.2	4.5	4.6	4.5	4.5	6.2	4.7
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TC</b>												
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# **Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana**

	Location ID	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KCR-002	JP-KCR-002	JP-KCR-002	JP-KCR-002	JP-KCR-002	JP-KCR-002	JP-KCR-002
Sample ID	SAIC01-08	SAIC01-12	SAIC01-24	SAIC01-36	SAIC01-48	SAIC04-00	SAIC04-04	SAIC04-08	SAIC04-12	SAIC04-24	SAIC04-36	SAIC04-48	SAIC04-48
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	10.0	10.0	10.0	10.0	10.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Parameter	Sample Date	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008
<b>TOC</b>													
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-KCR-009	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-011	JP-KCR-011	JP-KCR-012
	Sample ID	SAIC01	SAIC04	SAIC04-00	SAIC04-04	SAIC04-08	SAIC04-12	SAIC04-24	SAIC04-36	SAIC04-48	SAIC01R	SAIC01	SAIC01DR
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	14.0	10.0	10.0
	Parameter	Sample Date	10/21/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	03/27/2012	12/11/2009	03/28/2012
Alkalinity													
Alkalinity		N/A	N/A	22.4 BJ	12.8 BJ	14.4 BJ	9.6 BJ	14.4 BJ	28.8 BJ	14.4 BJ	N/A	N/A	N/A
Cation Exchange Capacity													
Cation Exchange Capacity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12 J	N/A	6 J
Fe/Mn													
Iron		16500	14600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31300	N/A
Manganese		924	52.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	641 E	N/A
Metals													
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30800 N	N/A	12900 N*
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	104 N	N/A	541 N
Moisture													
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23.54	N/A
Moisture Content													
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.4	N/A	13
Particle Size Distribution													
Clay		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45	N/A	34.1
Coarse Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	N/A	0.7
Fine Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.1	N/A	15
Gravel		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	0.5
Hydrometer Reading 1 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	86.4	N/A	67.3
Hydrometer Reading 2 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	75	N/A	57.6
Hydrometer Reading 3 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.6	N/A	45.2
Hydrometer Reading 4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.1	N/A	39.6
Hydrometer Reading 5 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45	N/A	34.1
Hydrometer Reading 6 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35	N/A	27.1
Hydrometer Reading 7 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.5	N/A	22.9
Medium Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.2	N/A	3.8
Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.6	N/A	19.5
Sieve Size #10 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99.7	N/A	98.8
Sieve Size #100 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	96.2	N/A	85.9
Sieve Size #20 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99.2	N/A	97.1
Sieve Size #200 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	95.4	N/A	80
Sieve Size #4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A	99.5
Sieve Size #40 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98.5	N/A	95
Sieve Size #60 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	97.7	N/A	91
Sieve Size #80 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	96.7	N/A	88
Sieve Size 0.375 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A	100
Sieve Size 0.75 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A	100
Sieve Size 1 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A	100
Sieve Size 1.5 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A	100
Sieve Size 2 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A	100
Sieve Size 3 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A	100
Silt		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50.4	N/A	45.9
pH													
pH		5.2	6	5.9	5.8	5.7	5.8	6	5.5	5.7	N/A	7.68 O-04	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.5	N/A	7.7
TC													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6630	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-KCR-009	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-010	JP-KCR-011	JP-KCR-011	JP-KCR-012
	Sample ID	SAIC01	SAIC04	SAIC04-00	SAIC04-04	SAIC04-08	SAIC04-12	SAIC04-24	SAIC04-36	SAIC04-48	SAIC01R	SAIC01	SAIC01DR
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	14.0	10.0	10.0
Parameter	Sample Date	10/21/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	03/27/2012	12/11/2009	03/28/2012
<b>TOC</b>													
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1120	N/A	4680
<b>TOC</b>													
Total Carbon		19300	1400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		9110	636 B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4610	N/A
<b>Total Carbon</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1490	N/A	23100
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	375	N/A	18400

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	JP-KCR-012 SAIC01R BORE 10.0 03/28/2012	JP-KCR-012 SAIC01 BORE 8.0 12/11/2009	JP-KCR-012 SAIC01-00 BORE 8.0 12/11/2009	JP-KCR-012 SAIC01-04 BORE 8.0 12/11/2009	JP-KCR-012 SAIC01-08 BORE 8.0 12/11/2009	JP-KCR-012 SAIC01-12 BORE 8.0 12/11/2009	JP-KCR-012 SAIC01-24 BORE 8.0 12/11/2009	JP-KCR-012 SAIC01-36 BORE 8.0 12/11/2009	JP-KCR-012 SAIC01-48 BORE 8.0 12/11/2009	JP-KGR-001 SAIC03-00 BORE 1.0 10/26/2008	JP-KGR-001 SAIC03-04 BORE 1.0 10/26/2008	JP-KGR-001 SAIC03-08 BORE 1.0 10/26/2008
<b>Alkalinity</b>												
Alkalinity	N/A	N/A	112 J	186 J	132 J	192 J	144 J	168 J	200 J	81.6 J	70.4 J	70.4 J
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	7.3 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>												
Iron	N/A	14000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	192 E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	19700 N*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	646 N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>												
Moisture	N/A	13.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	36.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	15.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	69.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	58.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	48.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	36.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	29.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	25.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	3.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	20.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	98.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	85.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	96.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	79.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	99.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	94.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	90.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	87.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	N/A	8.37 O-04	8	8.1	8	8.1	7.9	8.1	8	7.6	7.6	7.5
<b>TC</b>												
Total Carbon	N/A	8540	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KGR-001	JP-KGR-001	JP-KGR-001
	Sample ID	SAIC01R	SAIC01	SAIC01-00	SAIC01-04	SAIC01-08	SAIC01-12	SAIC01-24	SAIC01-36	SAIC01-48	SAIC03-00	SAIC03-04	SAIC03-08
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	10.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	1.0	1.0	1.0
Parameter	Sample Date	03/28/2012	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	12/11/2009	10/26/2008	10/26/2008	10/26/2008
<b>TOC</b>													
Total Organic Carbon		4860	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		N/A	20300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon		25300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon		20400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-KGR-001	JP-KGR-001	JP-KGR-001	JP-KGR-001	JP-KGR-003	JP-KGR-004	JP-KGR-004	JP-KGR-004	JP-KGR-004	JP-KGR-004	JP-KGR-004	JP-KGR-004
Sample ID	SAIC03-12	SAIC03-24	SAIC03-36	SAIC03-48	SAIC01	SAIC04	SAIC04-00	SAIC04-04	SAIC04-08	SAIC04-12	SAIC04-24	SAIC04-36
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	1.0	1.0	1.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Parameter	Sample Date	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008
<b>Alkalinity</b>												
Alkalinity	141 J	109 J	168 J	158 J	N/A	N/A	50 U	50 U	50 U	50 U	50 U	50 U
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>												
Iron	N/A	N/A	N/A	N/A	11000	21500	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	182	544	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	8	7.5	7.9	7.6	5.2	5	4.7	4.6	4.6	4.5	4.7	4.5
<b>TC</b>												
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-KGR-001	JP-KGR-001	JP-KGR-001	JP-KGR-001	JP-KGR-003	JP-KGR-004	JP-KGR-004	JP-KGR-004	JP-KGR-004	JP-KGR-004	JP-KGR-004	JP-KGR-004
	Sample ID	SAIC03-12	SAIC03-24	SAIC03-36	SAIC03-48	SAIC01	SAIC04	SAIC04-00	SAIC04-04	SAIC04-08	SAIC04-12	SAIC04-24	SAIC04-36
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.0	1.0	1.0	1.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Parameter	Sample Date	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008
<b>TOC</b>													
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Carbon		N/A	N/A	N/A	N/A	17000	1550	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	N/A	N/A	7120	742 B	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-KGR-004	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005
	Sample ID	SAIC04-48	SAIC01DR	SAIC01R	SAIC01R_D60	SAIC01	SAIC01-00	SAIC01-04	SAIC01-08	SAIC01-12	SAIC01-24	SAIC01-36	SAIC01-48
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	2.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Parameter	Sample Date	10/21/2008	03/27/2012	03/27/2012	03/27/2012	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009
<b>Alkalinity</b>													
Alkalinity		50 U	N/A	N/A	N/A	N/A	122 J	116 J	120 J	144 J	134 J	176 J	176 J
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity		N/A	17.8 J	17.3 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>													
Iron		N/A	N/A	N/A	N/A	22700	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	N/A	N/A	N/A	1160 D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron		N/A	36300 N	32700 N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	1190 N	1110 N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>													
Moisture		N/A	N/A	N/A	N/A	26.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture		N/A	25	28.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay		N/A	55.8	51.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand		N/A	0.4	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand		N/A	5.4	4.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel		N/A	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer		N/A	84.9	80.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer		N/A	76.3	72.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer		N/A	66.1	62.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer		N/A	59.2	56.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer		N/A	55.8	51.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer		N/A	47.1	43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer		N/A	40.3	38.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand		N/A	1.5	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand		N/A	7.3	6.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer		N/A	99.6	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer		N/A	95	95.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer		N/A	99.1	99.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer		N/A	92.7	93.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer		N/A	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer		N/A	98.1	98.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer		N/A	96.7	97.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer		N/A	95.7	96.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer		N/A	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer		N/A	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer		N/A	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer		N/A	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer		N/A	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer		N/A	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt		N/A	36.9	42.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>													
pH		4.5	N/A	N/A	N/A	8.11 O-04	8.4	7.6	7.8	7.8	7.6	7.8	7.8
<b>TC</b>													
Total Carbon		N/A	N/A	N/A	N/A	2400	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-KGR-004	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005
	Sample ID	SAIC04-48	SAIC01DR	SAIC01R	SAIC01R_D60	SAIC01	SAIC01-00	SAIC01-04	SAIC01-08	SAIC01-12	SAIC01-24	SAIC01-36	SAIC01-48
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	2.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Parameter	Sample Date	10/21/2008	03/27/2012	03/27/2012	03/27/2012	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009	12/10/2009
<b>TOC</b>													
Total Organic Carbon		N/A	5450	5010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	N/A	N/A	1020	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon		N/A	10600	7140	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon		N/A	5120	2140	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-002	JP-PNAC-002	JP-PNAC-002	JP-PNAC-002
Sample ID	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC04
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	2.0
Parameter	Sample Date	03/30/2012	03/30/2012	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008
<b>Alkalinity</b>											
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>											
Cation Exchange Capacity	10.5 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>											
Iron	N/A	N/A	5800 *	N/A	N/A	N/A	6620 *	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	51.8	N/A	N/A	N/A	52.8	N/A	N/A	N/A	N/A
<b>Metals</b>											
Iron	7610 NE*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	8.7 NE*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>											
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>											
Moisture	17.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>											
Clay	28.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	0.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	13.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	70.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	59.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	43.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	33.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	28.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	18.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	12.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	3.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	17.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	99.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	87.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	98.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	82.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	100.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	95.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	91.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	88.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	100.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	100.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	100.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	100.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	100.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	100.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	54.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>											
pH	N/A	N/A	5.4	N/A	N/A	N/A	5.2	N/A	N/A	N/A	N/A
<b>TC</b>											
Total Carbon	4.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# **Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana**

	Location ID	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-002	JP-PNAC-002	JP-PNAC-002	JP-PNAC-002
	Sample ID	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0
Parameter	Sample Date	03/30/2012	03/30/2012	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008
<b>TOC</b>											
Total Organic Carbon		3670	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>											
Total Carbon		N/A	N/A	22000	N/A	N/A	N/A	19900	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	14000	N/A	N/A	N/A	10800	N/A	N/A	N/A
<b>Total Carbon</b>											
Total Carbon		3580	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>											
Total Inorganic Carbon		100 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNAC-003	JP-PNAC-003	JP-PNAC-003	JP-PNAC-003	JP-PNAC-004	JP-PNAC-004	JP-PNAC-004	JP-PNAC-004	JP-PNAC-005	JP-PNAC-005
Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5
Parameter	Sample Date	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008
<b>Alkalinity</b>										
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>										
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>										
Iron	5280 *	N/A	N/A	N/A	4630 *	N/A	N/A	N/A	13600 *	N/A
Manganese	29.2	N/A	N/A	N/A	10.7	N/A	N/A	N/A	3270	N/A
<b>Metals</b>										
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>										
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>										
pH	5.5	N/A	N/A	N/A	5.2	N/A	N/A	N/A	5.1	N/A
<b>TC</b>										
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# **Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana**

	Location ID	JP-PNAC-003	JP-PNAC-003	JP-PNAC-003	JP-PNAC-003	JP-PNAC-004	JP-PNAC-004	JP-PNAC-004	JP-PNAC-004	JP-PNAC-005	JP-PNAC-005
	Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5
Parameter	Sample Date	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008
<b>TOC</b>											
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>											
Total Carbon		13500	N/A	N/A	N/A	17700	N/A	N/A	N/A	26400	N/A
Total Organic Carbon		1650	N/A	N/A	N/A	15000	N/A	N/A	N/A	14800	N/A
<b>Total Carbon</b>											
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>											
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNAC-005	JP-PNAC-005	JP-PNAC-006	JP-PNAC-006	JP-PNAC-006	JP-PNAC-006	JP-PNAC-006	JP-PNAC-006	JP-PNAC-007	JP-PNAC-007	JP-PNAC-007
Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	0.0	0.2	0.5	1.0	2.0	0.0	0.4	0.5	0.5
Parameter	Sample Date	10/28/2008	10/28/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/28/2008	10/28/2008	10/28/2008
<b>Alkalinity</b>											
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>											
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>											
Iron	N/A	N/A	N/A	N/A	N/A	N/A	15800 *	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	83.5	N/A	N/A	N/A	N/A
<b>Metals</b>											
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>											
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>											
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>											
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>											
pH	N/A	N/A	N/A	N/A	N/A	N/A	4.2	N/A	N/A	N/A	N/A
<b>TC</b>											
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



# **Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana**

	Location ID	JP-PNAC-005	JP-PNAC-005	JP-PNAC-006	JP-PNAC-006	JP-PNAC-006	JP-PNAC-006	JP-PNAC-006	JP-PNAC-007	JP-PNAC-007	JP-PNAC-007
	Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.0	2.0	0.0	0.2	0.5	1.0	2.0	0.0	0.4	0.5
Parameter	Sample Date	10/28/2008	10/28/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/28/2008	10/28/2008	10/28/2008
<b>TOC</b>											
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>											
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	3160	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	8770	N/A	N/A	N/A
<b>Total Carbon</b>											
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>											
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNAC-007	JP-PNAC-007	JP-PNAC-008	JP-PNAC-008	JP-PNAC-008	JP-PNAC-008	JP-PNAC-008	JP-PNAC-008	JP-PNAC-009	JP-PNAC-009	JP-PNAC-009
Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	0.0	0.2	0.5	1.0	2.0	0.0	0.5	1.0	1.0
Parameter	Sample Date	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/27/2008	10/27/2008	10/27/2008
<b>Alkalinity</b>											
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>											
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>											
Iron	N/A	11500 *	N/A	N/A	N/A	N/A	9530 *	N/A	N/A	N/A	N/A
Manganese	N/A	17.8	N/A	N/A	N/A	N/A	255	N/A	N/A	N/A	N/A
<b>Metals</b>											
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>											
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>											
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>											
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>											
pH	N/A	5.4	N/A	N/A	N/A	N/A	4.9	N/A	N/A	N/A	N/A
<b>TC</b>											
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-PNAC-007	JP-PNAC-007	JP-PNAC-008	JP-PNAC-008	JP-PNAC-008	JP-PNAC-008	JP-PNAC-008	JP-PNAC-009	JP-PNAC-009	JP-PNAC-009
	Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.0	2.0	0.0	0.2	0.5	1.0	2.0	0.0	0.5	1.0
Parameter	Sample Date	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/27/2008	10/27/2008	10/27/2008
<b>TOC</b>											
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>											
Total Carbon		N/A	3230	N/A	N/A	N/A	N/A	2100	N/A	N/A	N/A
Total Organic Carbon		N/A	2120	N/A	N/A	N/A	N/A	1130 B	N/A	N/A	N/A
<b>Total Carbon</b>											
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>											
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNAC-009	JP-PNAC-009	JP-PNAC-010	JP-PNAC-010	JP-PNAC-010	JP-PNAC-010	JP-PNAC-010	JP-PNAC-010	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001
Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.5	2.5	0.0	0.2	0.5	1.0	2.0	0.0	0.0	0.5	1.0	1.0
Parameter	Sample Date	10/27/2008	10/27/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	03/30/2012	10/26/2008	10/26/2008	10/26/2008
<b>Alkalinity</b>												
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12 J	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>												
Iron	N/A	16500 *	N/A	N/A	N/A	N/A	17700 *	N/A	16200	N/A	N/A	N/A
Manganese	N/A	280	N/A	N/A	N/A	N/A	437	N/A	1240	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20900 NE*	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1040 NE*	N/A	N/A	N/A	N/A
<b>Moisture</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.6	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.0	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.6	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	78.6	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	67.8	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51.6	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42.1	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.0	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.7	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.6	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.7	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99.4	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90.4	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	97.6	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	88.3	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	95.3	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	92.7	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	91.2	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54.3	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	N/A	5	N/A	N/A	N/A	N/A	4.9	N/A	5.6	N/A	N/A	N/A
<b>TC</b>												
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-PNAC-009	JP-PNAC-009	JP-PNAC-010	JP-PNAC-010	JP-PNAC-010	JP-PNAC-010	JP-PNAC-010	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001
	Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.5	2.5	0.0	0.2	0.5	1.0	2.0	0.0	0.0	0.5	1.0
Parameter	Sample Date	10/27/2008	10/27/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	03/30/2012	10/26/2008	10/26/2008	10/26/2008
<b>TOC</b>												
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	2950	N/A	N/A	N/A
<b>TOC</b>												
Total Carbon		N/A	6420	N/A	N/A	N/A	N/A	2110	N/A	16700	N/A	N/A
Total Organic Carbon		N/A	2830	N/A	N/A	N/A	N/A	750 B	N/A	8550	N/A	N/A
<b>Total Carbon</b>												
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	3950	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	998	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNCR-001	JP-PNCR-002	JP-PNCR-002	JP-PNCR-002	JP-PNCR-002	JP-PNCR-003	JP-PNCR-003	JP-PNCR-003	JP-PNCR-004	JP-PNCR-004
Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC01	SAIC02
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	0.0	0.5
Parameter	Sample Date	10/26/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008
<b>Alkalinity</b>										
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>										
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>										
Iron	N/A	21800	N/A	N/A	N/A	17700 *	N/A	N/A	16800 *	N/A
Manganese	N/A	1070	N/A	N/A	N/A	896	N/A	N/A	1330	N/A
<b>Metals</b>										
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>										
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>										
pH	N/A	5.5	N/A	N/A	N/A	6	N/A	N/A	6.7	N/A
<b>TC</b>										
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-PNCR-001	JP-PNCR-002	JP-PNCR-002	JP-PNCR-002	JP-PNCR-002	JP-PNCR-003	JP-PNCR-003	JP-PNCR-003	JP-PNCR-004	JP-PNCR-004
	Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC01	SAIC02
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	0.0	0.5
Parameter	Sample Date	10/26/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008
<b>TOC</b>											
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>											
Total Carbon		N/A	15400	N/A	N/A	N/A	20500	N/A	N/A	8670	N/A
Total Organic Carbon		N/A	9670	N/A	N/A	N/A	9770	N/A	N/A	9980	N/A
<b>Total Carbon</b>											
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>											
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNCR-004	JP-PNCR-005	JP-PNCR-005	JP-PNCR-005	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006
Sample ID	SAIC03	SAIC01	SAIC02	SAIC03	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	0.0	0.5	1.0	0.0	0.0	0.1	0.1	0.6	0.6
Parameter	Sample Date	10/27/2008	10/28/2008	10/28/2008	10/28/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008
<b>Alkalinity</b>										
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>										
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>										
Iron	N/A	21100 *	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	1150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>										
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>										
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>										
pH	N/A	5.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TC</b>										
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



# **Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana**

	Location ID	JP-PNCR-004	JP-PNCR-005	JP-PNCR-005	JP-PNCR-005	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006
	Sample ID	SAIC03	SAIC01	SAIC02	SAIC03	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.0	0.0	0.5	1.0	0.0	0.0	0.1	0.1	0.6	0.6
Parameter	Sample Date	10/27/2008	10/28/2008	10/28/2008	10/28/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/27/2008
<b>TOC</b>											
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>											
Total Carbon		N/A	13900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		N/A	12800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>											
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>											
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-007	JP-PNCR-007	JP-PNCR-007	JP-PNCR-008	JP-PNCR-008	JP-PNCR-008
Sample ID	SAIC04	SAIC04D	SAIC05	SAIC05D	SAIC01	SAIC02	SAIC03	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.1	1.1	2.1	2.1	0.0	0.2	0.8	0.0	0.2	0.8
Parameter	Sample Date	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008
<b>Alkalinity</b>										
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>										
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>										
Iron	14200 *	18600 *	N/A	N/A	14800	N/A	N/A	N/A	N/A	N/A
Manganese	1280	1420	N/A	N/A	327	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>										
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>										
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>										
pH	5.6	5.4	N/A	N/A	5	N/A	N/A	N/A	N/A	N/A
<b>TC</b>										
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-006	JP-PNCR-007	JP-PNCR-007	JP-PNCR-007	JP-PNCR-008	JP-PNCR-008	JP-PNCR-008
	Sample ID	SAIC04	SAIC04D	SAIC05	SAIC05D	SAIC01	SAIC02	SAIC03	SAIC01	SAIC02	SAIC03
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.1	1.1	2.1	2.1	0.0	0.2	0.8	0.0	0.2	0.8
Parameter	Sample Date	10/27/2008	10/27/2008	10/27/2008	10/27/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008
<b>TOC</b>											
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>											
Total Carbon		8380	8850	N/A	N/A	2520	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		5030	4730	N/A	N/A	1030 B	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>											
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>											
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNCR-008	JP-PNCR-009	JP-PNCR-009	JP-PNCR-009	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010
Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.2	0.0	0.5	1.0	0.0	0.5	1.0	2.0	0.0	0.0	0.5	0.5
Parameter	Sample Date	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	03/30/2012	10/26/2008
<b>Alkalinity</b>												
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27.2 J	N/A	N/A	N/A
<b>Fe/Mn</b>												
Iron	27700 *	31200 *	N/A	N/A	14900 *	N/A	N/A	N/A	N/A	18800	N/A	N/A
Manganese	1390	823	N/A	N/A	647	N/A	N/A	N/A	N/A	1960	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8800 NE*	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	837 NE*	N/A	N/A	N/A
<b>Moisture</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.4	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.7	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.6	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60.2	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.8	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.9	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.8	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.7	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.1	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.7	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.1	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.6	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	96.4	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	82.6	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94.0	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	78.8	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	97.4	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	91.3	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	87.0	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	84.2	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.1	N/A	N/A	N/A
<b>pH</b>												
pH	5.1	5.9	N/A	N/A	5.6	N/A	N/A	N/A	N/A	7.5	N/A	N/A
<b>TC</b>												
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-PNCR-008	JP-PNCR-009	JP-PNCR-009	JP-PNCR-009	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010	JP-PNCR-010
	Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.2	0.0	0.5	1.0	0.0	0.5	1.0	2.0	0.0	0.0	0.5
Parameter	Sample Date	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	10/28/2008	03/30/2012	10/26/2008	10/26/2008
<b>TOC</b>												
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23800	N/A	N/A
<b>TOC</b>												
Total Carbon		1920	23200	N/A	N/A	13200	N/A	N/A	N/A	N/A	44100	N/A
Total Organic Carbon		1200 B	10800	N/A	N/A	7540	N/A	N/A	N/A	N/A	24000	N/A
<b>Total Carbon</b>												
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26300	N/A	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2470	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNGR-001	JP-PNGR-001	JP-PNGR-002	JP-PNGR-002	JP-PNGR-002	JP-PNGR-003	JP-PNGR-003	JP-PNGR-003	JP-PNGR-003	JP-PNGR-003
Sample ID	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	0.0	0.5	1.0	0.0	0.0	0.5	0.5	1.0
Parameter	Sample Date	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008
<b>Alkalinity</b>										
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>										
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>										
Iron	N/A	N/A	10900	N/A	N/A	18000	17600	N/A	N/A	N/A
Manganese	N/A	N/A	684	N/A	N/A	1240	1210	N/A	N/A	N/A
<b>Metals</b>										
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>										
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>										
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>										
pH	N/A	N/A	7.3	N/A	N/A	6.5	6.4	N/A	N/A	N/A
<b>TC</b>										
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-PNGR-001	JP-PNGR-001	JP-PNGR-002	JP-PNGR-002	JP-PNGR-002	JP-PNGR-003	JP-PNGR-003	JP-PNGR-003	JP-PNGR-003	JP-PNGR-003
	Sample ID	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.0	2.0	0.0	0.5	1.0	0.0	0.0	0.5	0.5	1.0
Parameter	Sample Date	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008
<b>TOC</b>											
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>											
Total Carbon		N/A	N/A	42000	N/A	N/A	14900	15000	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	9870	N/A	N/A	6870	8510	N/A	N/A	N/A
<b>Total Carbon</b>											
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>											
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-PNGR-003	JP-PNGR-003	JP-PNGR-003	JP-PNGR-004	JP-PNGR-004	JP-PNGR-004	JP-PNGR-004
Sample ID	SAIC03D	SAIC04	SAIC04D	SAIC04	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	2.0	0.0	0.5	1.0	1.5
Parameter	Sample Date	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008
<b>Alkalinity</b>							
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cation Exchange Capacity</b>							
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Fe/Mn</b>							
Iron	N/A	N/A	N/A	N/A	N/A	N/A	18100
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	2270
<b>Metals</b>							
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture</b>							
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>							
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>							
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>							
pH	N/A	N/A	N/A	N/A	N/A	N/A	7.8
<b>TC</b>							
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A



# Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-PNGR-003	JP-PNGR-003	JP-PNGR-003	JP-PNGR-004	JP-PNGR-004	JP-PNGR-004	JP-PNGR-004
	Sample ID	SAIC03D	SAIC04	SAIC04D	SAIC04	SAIC01	SAIC02	SAIC03
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	1.0	2.0	2.0	0.0	0.5	1.0	1.5
Parameter	Sample Date	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008	10/26/2008
<b>TOC</b>								
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>								
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	14000
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	8000
<b>Total Carbon</b>								
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>								
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	Sample ID	Units	Reporting Limit	JP-SAC-001 SAIC05 BORE 0.0 03/29/2012	JP-SAC-001 SAIC05_D60 BORE 0.0 03/29/2012	JP-SAC-001 SAIC01 BORE 0.0 10/23/2008	JP-SAC-001 SAIC02 BORE 0.5 10/23/2008	JP-SAC-001 SAIC03 BORE 1.0 10/23/2008	JP-SAC-001 SAIC04 BORE 2.0 10/23/2008	JP-SAC-002 SAIC05 BORE 0.0 03/29/2012	JP-SAC-002 SAIC05_D60 BORE 0.0 03/29/2012	JP-SAC-002 SAIC01 BORE 0.0 10/23/2008	JP-SAC-002 SAIC02 BORE 0.5 10/23/2008
Parameter	Sample Date												
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity		meq/100g		18.0 J	N/A	N/A	N/A	N/A	N/A	8.3 J	N/A	N/A	N/A
<b>Metals</b>													
Iron		mg/kg		10100 NE*	N/A	N/A	N/A	N/A	N/A	3430 NE*	N/A	N/A	N/A
Manganese		mg/kg		40.1 NE	N/A	N/A	N/A	N/A	N/A	4.1 NE	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture		%		24.7	N/A	N/A	N/A	N/A	N/A	25.0	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay		%		42.5	N/A	N/A	N/A	N/A	N/A	28.9	N/A	N/A	N/A
		%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand		%		0.8	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
		%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand		%		7.1	N/A	N/A	N/A	N/A	N/A	11	N/A	N/A	N/A
		%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel		%		0	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
		%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	% Passing			78.7	N/A	N/A	N/A	N/A	N/A	69.7	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	% Passing			71.6	N/A	N/A	N/A	N/A	N/A	58.5	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	% Passing			57	N/A	N/A	N/A	N/A	N/A	44.4	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	% Passing			49.9	N/A	N/A	N/A	N/A	N/A	36	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	% Passing			42.5	N/A	N/A	N/A	N/A	N/A	28.9	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	% Passing			35.2	N/A	N/A	N/A	N/A	N/A	20.4	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	% Passing			27.8	N/A	N/A	N/A	N/A	N/A	16.1	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	%			1.8	N/A	N/A	N/A	N/A	N/A	2.2	N/A	N/A	N/A
	%			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	%			9.7	N/A	N/A	N/A	N/A	N/A	13.2	N/A	N/A	N/A
	%			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	% Passing			99.2	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	% Passing			92.9	N/A	N/A	N/A	N/A	N/A	90.9	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	% Passing			98.8	N/A	N/A	N/A	N/A	N/A	99.4	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	% Passing			90.3	N/A	N/A	N/A	N/A	N/A	86.8	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	% Passing			100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	% Passing			97.4	N/A	N/A	N/A	N/A	N/A	97.8	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	% Passing			95.2	N/A	N/A	N/A	N/A	N/A	94.6	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	Sample ID	Units	Reporting Limit	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-002	JP-SAC-002	JP-SAC-002	JP-SAC-002
Sample Type	Depth (ft.)			SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02
Parameter	Sample Date			BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
				0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.5
				03/29/2012	03/29/2012	10/23/2008	10/23/2008	10/23/2008	10/23/2008	03/29/2012	03/29/2012	10/23/2008	10/23/2008
Sieve Size #80 - Percent Finer	% Passing			93.8	N/A	N/A	N/A	N/A	N/A	92.3	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	% Passing			100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	% Passing			100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	% Passing			100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	% Passing			100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	% Passing			100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	% Passing			100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	% Passing			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	%			47.8	N/A	N/A	N/A	N/A	N/A	57.9	N/A	N/A	N/A
	%			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>													
pH	No Units			5.0	N/A	N/A	N/A	N/A	N/A	4.7	N/A	N/A	N/A
<b>TOC</b>													
Total Organic Carbon	mg/kg			3950	N/A	N/A	N/A	N/A	N/A	3980	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon	mg/kg			3730	N/A	N/A	N/A	N/A	N/A	4840	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon	mg/kg			100 U	N/A	N/A	N/A	N/A	N/A	861	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SAC-002	JP-SAC-002	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-004	JP-SAC-004	JP-SAC-004	JP-SAC-004
Sample ID	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC02
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.0	0.5
Parameter	Sample Date	10/23/2008	10/23/2008	03/27/2012	03/27/2012	10/21/2008	10/21/2008	10/21/2008	10/21/2008	03/29/2012	03/29/2012	10/22/2008	10/22/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	11.3 J	N/A	N/A	N/A	N/A	N/A	8.0 J	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	7600 N	N/A	N/A	N/A	N/A	N/A	9540 NE*	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	307 J	N/A	N/A	N/A	N/A	N/A	26.4 NE	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	19.4	N/A	N/A	N/A	N/A	N/A	17.3	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	22.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	28.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	4.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	43.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	37.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	29.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	25.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	22.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	17.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	5.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Sand	N/A	N/A	34.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	94.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	69.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	61.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	95.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	89.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	79.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NF	N/A	N/A	N/A	N/A

# **Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana**

Location ID	JP-SAC-002	JP-SAC-002	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-004	JP-SAC-004	JP-SAC-004	JP-SAC-004
Sample ID	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.0	0.5
Parameter	Sample Date	10/23/2008	10/23/2008	03/27/2012	03/27/2012	10/21/2008	10/21/2008	10/21/2008	03/29/2012	03/29/2012	10/22/2008	10/22/2008	10/22/2008
Sieve Size #80 - Percent Finer	N/A	N/A	73.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	97.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	39.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	6.7	N/A	N/A	N/A	N/A	N/A	5.3	N/A	N/A	N/A	N/A
TOC	N/A	N/A	2810 J	N/A	N/A	N/A	N/A	N/A	2020	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	4160	N/A	N/A	N/A	N/A	N/A	1840	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	1350	N/A	N/A	N/A	N/A	N/A	100 U	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A											

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SAC-004	JP-SAC-004	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-006	JP-SAC-006	JP-SAC-006
Sample ID	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC05D	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC01
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	0.0	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	10/22/2008	10/22/2008	03/28/2012	03/28/2012	03/28/2012	10/22/2008	10/22/2008	10/22/2008	10/22/2008	03/27/2012	03/27/2012	10/22/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	8.5 J	N/A	7.8 J	N/A	N/A	N/A	N/A	8.3 J	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	18200 N*	N/A	17500 N*	N/A	N/A	N/A	N/A	7290 N	N/A	N/A	N/A
Manganese	N/A	N/A	47.3 N	N/A	82.6 N	N/A	N/A	N/A	N/A	7.4 N	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	20.2	N/A	20.9	N/A	N/A	N/A	N/A	20.8	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	34.9	N/A	36.1	N/A	N/A	N/A	N/A	32.3	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	0	N/A	0	N/A	N/A	N/A	N/A	0.4	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	11.6	N/A	13.7	N/A	N/A	N/A	N/A	11.5	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	0	N/A	0	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	70.4	N/A	70.1	N/A	N/A	N/A	N/A	73	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	61.5	N/A	61.9	N/A	N/A	N/A	N/A	62.9	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	48.2	N/A	48.3	N/A	N/A	N/A	N/A	47.1	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	40.8	N/A	41.6	N/A	N/A	N/A	N/A	39.1	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	34.9	N/A	36.1	N/A	N/A	N/A	N/A	32.3	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	28.8	N/A	27.9	N/A	N/A	N/A	N/A	23.2	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	24.4	N/A	23.8	N/A	N/A	N/A	N/A	18.7	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	3.7	N/A	3.8	N/A	N/A	N/A	N/A	2.3	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	15.3	N/A	17.5	N/A	N/A	N/A	N/A	14.2	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	99.6	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	88.7	N/A	87.3	N/A	N/A	N/A	N/A	89.6	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	98.5	N/A	98.6	N/A	N/A	N/A	N/A	99.1	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	84.7	N/A	82.5	N/A	N/A	N/A	N/A	85.8	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	96.3	N/A	96.2	N/A	N/A	N/A	N/A	97.3	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	92.7	N/A	92	N/A	N/A	N/A	N/A	93.6	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SAC-004	JP-SAC-004	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-006	JP-SAC-006	JP-SAC-006
Sample ID	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC05D	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC01
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	0.0	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	10/22/2008	10/22/2008	03/28/2012	03/28/2012	03/28/2012	10/22/2008	10/22/2008	10/22/2008	10/22/2008	03/27/2012	03/27/2012	10/22/2008
Sieve Size #80 - Percent Finer	N/A	N/A	90.2	N/A	89.1	N/A	N/A	N/A	N/A	91.1	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A
Silt	N/A	N/A	49.8	N/A	46.4	N/A	N/A	N/A	N/A	53.5	N/A	N/A	N/A
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	4.6	N/A	4.6	N/A	N/A	N/A	N/A	6.3	N/A	N/A	N/A
TOC	N/A	N/A	2940	N/A	2230	N/A	N/A	N/A	N/A	2360	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	2680	N/A	1660	N/A	N/A	N/A	N/A	2650	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	100 U	N/A	100 U	N/A	N/A	N/A	N/A	282	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SAC-006	JP-SAC-006	JP-SAC-006	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007
Sample ID	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.0	0.0	0.5	0.5	1.0	1.0	2.0	2.0
Parameter	Sample Date	10/22/2008	10/22/2008	10/22/2008	03/27/2012	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	7.8 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	6690 N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	7.3 N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	23.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	11.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	70.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	61.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	45.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	36.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	18.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	13.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	2.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	14.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	99.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	85.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	93.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SAC-006	JP-SAC-006	JP-SAC-006	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007
Sample ID	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.0	0.0	0.5	0.5	1.0	1.0	2.0	2.0
Parameter	Sample Date	10/22/2008	10/22/2008	10/22/2008	03/27/2012	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	90.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	55.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	6.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	3310	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	3000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	100 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009
Sample ID	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.5	1.0	2.0
Parameter	Sample Date	03/27/2012	03/27/2012	10/21/2008	10/21/2008	10/21/2008	10/21/2008	03/27/2012	03/27/2012	10/21/2008	10/21/2008	10/21/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	9 J	N/A	N/A	N/A	N/A	N/A	9.6 J	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	8240 N	N/A	N/A	N/A	N/A	N/A	13900 N	N/A	N/A	N/A	N/A	N/A
Manganese	61.5 N	N/A	N/A	N/A	N/A	N/A	249 N	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	22.8	N/A	N/A	N/A	N/A	N/A	17.5	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	29.5	N/A	N/A	N/A	N/A	N/A	37.4	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	0.3	N/A	N/A	N/A	N/A	N/A	2.1	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	11.4	N/A	N/A	N/A	N/A	N/A	14.2	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	0	N/A	N/A	N/A	N/A	N/A	1.7	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	70.6	N/A	N/A	N/A	N/A	N/A	68.4	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	60.3	N/A	N/A	N/A	N/A	N/A	61.3	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	44.9	N/A	N/A	N/A	N/A	N/A	48.6	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	36.7	N/A	N/A	N/A	N/A	N/A	43	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	29.5	N/A	N/A	N/A	N/A	N/A	37.4	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	20.1	N/A	N/A	N/A	N/A	N/A	28.9	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	15	N/A	N/A	N/A	N/A	N/A	23.2	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	3.2	N/A	N/A	N/A	N/A	N/A	4.4	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	14.9	N/A	N/A	N/A	N/A	N/A	20.7	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	99.7	N/A	N/A	N/A	N/A	N/A	96.2	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	88.8	N/A	N/A	N/A	N/A	N/A	82.3	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	98.7	N/A	N/A	N/A	N/A	N/A	94.5	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	85.1	N/A	N/A	N/A	N/A	N/A	77.6	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	98.3	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	96.5	N/A	N/A	N/A	N/A	N/A	91.8	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	92.7	N/A	N/A	N/A	N/A	N/A	87.1	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009
Sample ID	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.5	1.0	2.0	0.0
Parameter	Sample Date	03/27/2012	03/27/2012	10/21/2008	10/21/2008	10/21/2008	10/21/2008	03/27/2012	03/27/2012	10/21/2008	10/21/2008	10/21/2008	10/21/2008
Sieve Size #80 - Percent Finer	90.3	N/A	N/A	N/A	N/A	N/A	84.1	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	100	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	55.6	N/A	N/A	N/A	N/A	N/A	40.2	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>pH</i>													
pH	7.6	N/A	N/A	N/A	N/A	N/A	6.1	N/A	N/A	N/A	N/A	N/A	N/A
TOC													
Total Organic Carbon	3430	N/A	N/A	N/A	N/A	N/A	2520	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon													
Total Carbon	3420	N/A	N/A	N/A	N/A	N/A	3370	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon													
Total Inorganic Carbon	100 U	N/A	N/A	N/A	N/A	N/A	850	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-SC1-001	JP-SC1-001	JP-SC1-001	JP-SC1-001	JP-SC1-002	JP-SC1-002	JP-SC1-002	JP-SC1-002	JP-SC1-003	JP-SC1-003	JP-SC1-003	JP-SC1-003	JP-SC1-004
	Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0
Parameter	Sample Date	10/12/2008	10/12/2008	10/12/2008	10/12/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/14/2008
Cation Exchange Capacity														
Cation Exchange Capacity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals														
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content														
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Particle Size Distribution														
Clay		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC1-001	JP-SC1-001	JP-SC1-001	JP-SC1-001	JP-SC1-002	JP-SC1-002	JP-SC1-002	JP-SC1-002	JP-SC1-002	JP-SC1-003	JP-SC1-003	JP-SC1-003	JP-SC1-003	JP-SC1-004
Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC01
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.0
Parameter	Sample Date	10/12/2008	10/12/2008	10/12/2008	10/12/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/14/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC1-004	JP-SC1-004	JP-SC1-004	JP-SC1-005	JP-SC1-005	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006
Sample ID	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.5	0.0	0.0	0.5	0.5	1.0	1.0	2.0	2.0
Parameter	Sample Date	10/14/2008	10/14/2008	10/14/2008	10/09/2008	10/09/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC1-004	JP-SC1-004	JP-SC1-004	JP-SC1-005	JP-SC1-005	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006	JP-SC1-006
Sample ID	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.5	0.0	0.0	0.5	0.5	1.0	1.0	2.0	2.0
Parameter	Sample Date	10/14/2008	10/14/2008	10/14/2008	10/09/2008	10/09/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC1-007	JP-SC1-007	JP-SC1-007	JP-SC1-007	JP-SC1-008	JP-SC1-008	JP-SC1-008	JP-SC1-008	JP-SC1-009	JP-SC1-009	JP-SC1-009	JP-SC1-009	JP-SC1-010
Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0
Parameter	Sample Date	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/10/2008	10/10/2008	10/10/2008	10/10/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



# **Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana**

	Location ID	JP-SC1-007	JP-SC1-007	JP-SC1-007	JP-SC1-007	JP-SC1-008	JP-SC1-008	JP-SC1-008	JP-SC1-008	JP-SC1-009	JP-SC1-009	JP-SC1-009	JP-SC1-009	JP-SC1-010
	Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0
Parameter	Sample Date	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/10/2008	10/10/2008	10/10/2008	10/10/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008
Sieve Size #80 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC1-010	JP-SC1-010	JP-SC1-010	JP-SC1-011	JP-SC1-011	JP-SC1-011	JP-SC1-011	JP-SC1-012	JP-SC1-012	JP-SC1-012	JP-SC1-012	JP-SC2-001	JP-SC2-001	JP-SC2-001
Sample ID	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC03	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	0.0	0.0	0.5	1.0
Parameter	Sample Date	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/10/2008	10/10/2008	10/10/2008	10/10/2008	10/07/2008	10/07/2008	10/07/2008
<b>Cation Exchange Capacity</b>														
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>														
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>														
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>														
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC1-010	JP-SC1-010	JP-SC1-010	JP-SC1-011	JP-SC1-011	JP-SC1-011	JP-SC1-011	JP-SC1-012	JP-SC1-012	JP-SC1-012	JP-SC2-001	JP-SC2-001	JP-SC2-001
Sample ID	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	0.0	0.5	1.0
Parameter	Sample Date	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/10/2008	10/10/2008	10/10/2008	10/07/2008	10/07/2008	10/07/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>													
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC2-001	JP-SC2-002	JP-SC2-002	JP-SC2-002	JP-SC2-002	JP-SC2-003	JP-SC2-003	JP-SC2-003	JP-SC2-003	JP-SC2-004	JP-SC2-004	JP-SC2-004
Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0
Parameter	Sample Date	10/07/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/12/2008	10/12/2008	10/12/2008	10/12/2008	10/09/2008	10/09/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC2-001	JP-SC2-002	JP-SC2-002	JP-SC2-002	JP-SC2-002	JP-SC2-003	JP-SC2-003	JP-SC2-003	JP-SC2-003	JP-SC2-004	JP-SC2-004	JP-SC2-004
Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0
Parameter	Sample Date	10/07/2008	10/08/2008	10/08/2008	10/08/2008	10/12/2008	10/12/2008	10/12/2008	10/12/2008	10/09/2008	10/09/2008	10/09/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC2-004	JP-SC2-005	JP-SC2-005	JP-SC2-005	JP-SC2-005	JP-SC2-006	JP-SC2-006	JP-SC2-006	JP-SC2-006	JP-SC2-006	JP-SC2-007	JP-SC2-007	JP-SC2-007
Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0
Parameter	Sample Date	10/09/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/10/2008	10/10/2008	10/10/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC2-004	JP-SC2-005	JP-SC2-005	JP-SC2-005	JP-SC2-005	JP-SC2-006	JP-SC2-006	JP-SC2-006	JP-SC2-006	JP-SC2-007	JP-SC2-007	JP-SC2-007
Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0
Parameter	Sample Date	10/09/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/10/2008	10/10/2008	10/10/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC2-007	JP-SC2-008	JP-SC2-008	JP-SC2-008	JP-SC2-008	JP-SC2-009	JP-SC2-009	JP-SC2-009	JP-SC2-009	JP-SC2-010	JP-SC2-010	JP-SC2-010
Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0
Parameter	Sample Date	10/10/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/12/2008	10/12/2008	10/12/2008	10/12/2008	10/14/2008	10/14/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC2-007	JP-SC2-008	JP-SC2-008	JP-SC2-008	JP-SC2-008	JP-SC2-009	JP-SC2-009	JP-SC2-009	JP-SC2-009	JP-SC2-010	JP-SC2-010	JP-SC2-010
Sample ID	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0
Parameter	Sample Date	10/10/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/12/2008	10/12/2008	10/12/2008	10/12/2008	10/14/2008	10/14/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-SC2-010	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-012	JP-SC2-012	JP-SC2-012
	Sample ID	SAIC04	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D	SAIC01	SAIC02	SAIC03	SAIC04
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	2.0	0.0	0.0	0.5	0.5	1.0	1.0	2.0	2.0	0.0	0.5	1.0	2.0
	Parameter	Sample Date	10/14/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/11/2008	10/11/2008	10/11/2008	10/11/2008
Cation Exchange Capacity														
Cation Exchange Capacity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals														
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content														
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Particle Size Distribution														
Clay		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC2-010	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-011	JP-SC2-012	JP-SC2-012	JP-SC2-012	JP-SC2-012
Sample ID	SAIC04	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D	SAIC01	SAIC02	SAIC03	SAIC04	SAIC04
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	0.0	0.0	0.5	0.5	1.0	1.0	2.0	2.0	0.0	0.5	1.0	2.0	2.0
Parameter	Sample Date	10/14/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/11/2008	10/11/2008	10/11/2008	10/11/2008	10/11/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-SC3-001	JP-SC3-001	JP-SC3-001	JP-SC3-001	JP-SC3-001	JP-SC3-001	JP-SC3-002	JP-SC3-002	JP-SC3-002	JP-SC3-002	JP-SC3-002	JP-SC3-003	JP-SC3-003
	Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	0.0	0.5	1.0	2.0	4.0	0.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5
	Parameter	Sample Date	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/09/2008	10/09/2008	10/09/2008	10/09/2008	10/09/2008	10/12/2008	10/12/2008
Cation Exchange Capacity														
Cation Exchange Capacity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals														
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content														
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Particle Size Distribution														
Clay		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-001	JP-SC3-001	JP-SC3-001	JP-SC3-001	JP-SC3-001	JP-SC3-002	JP-SC3-002	JP-SC3-002	JP-SC3-002	JP-SC3-002	JP-SC3-003	JP-SC3-003
Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.5	1.0	2.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5
Parameter	Sample Date	10/08/2008	10/08/2008	10/08/2008	10/08/2008	10/09/2008	10/09/2008	10/09/2008	10/09/2008	10/09/2008	10/12/2008	10/12/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-003	JP-SC3-003	JP-SC3-003	JP-SC3-004	JP-SC3-004	JP-SC3-004	JP-SC3-004	JP-SC3-004	JP-SC3-004	JP-SC3-005	JP-SC3-005	JP-SC3-005	JP-SC3-005
Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5	1.0	2.0	2.0
Parameter	Sample Date	10/12/2008	10/12/2008	10/12/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-003	JP-SC3-003	JP-SC3-003	JP-SC3-004	JP-SC3-004	JP-SC3-004	JP-SC3-004	JP-SC3-004	JP-SC3-004	JP-SC3-005	JP-SC3-005	JP-SC3-005	JP-SC3-005
Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5	1.0	2.0	2.0
Parameter	Sample Date	10/12/2008	10/12/2008	10/12/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/08/2008	10/08/2008	10/08/2008	10/08/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-005	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-007
Sample ID	SAIC05	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D	SAIC05	SAIC05D	SAIC01	
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	4.0	0.0	0.0	0.5	0.5	1.0	1.0	2.0	2.0	4.0	4.0	0.0	
Parameter	Sample Date	10/08/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/13/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-005	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-006	JP-SC3-007
Sample ID	SAIC05	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D	SAIC05	SAIC05D	SAIC01	
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	
Depth (ft.)	4.0	0.0	0.0	0.5	0.5	1.0	1.0	2.0	2.0	4.0	4.0	0.0	
Parameter	Sample Date	10/08/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/13/2008	
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-008	JP-SC3-008	JP-SC3-008
	Sample ID	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D	SAIC05	SAIC05D	SAIC01	SAIC02	SAIC03
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
	Depth (ft.)	0.0	0.5	0.5	1.0	1.0	2.0	2.0	4.0	4.0	0.0	0.5	1.0
	Parameter	Sample Date	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008
Cation Exchange Capacity													
Cation Exchange Capacity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals													
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content													
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Particle Size Distribution													
Clay		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-007	JP-SC3-008	JP-SC3-008	JP-SC3-008
Sample ID	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC04D	SAIC05	SAIC05D	SAIC01	SAIC02	SAIC03	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.5	0.5	1.0	1.0	2.0	2.0	4.0	4.0	0.0	0.5	1.0	1.0
Parameter	Sample Date	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

	Location ID	JP-SC3-008	JP-SC3-008	JP-SC3-009	JP-SC3-009	JP-SC3-009	JP-SC3-009	JP-SC3-009	JP-SC3-009	JP-SC3-010	JP-SC3-010	JP-SC3-010	JP-SC3-010	JP-SC3-011
	Sample ID	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	
	Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	
	Depth (ft.)	2.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5	1.0	2.0	0.0	
	Parameter	Sample Date	10/13/2008	10/13/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/13/2008	
Cation Exchange Capacity														
Cation Exchange Capacity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Metals														
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Moisture Content														
Moisture		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Particle Size Distribution														
Clay		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Coarse Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Fine Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Gravel		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hydrometer Reading 1 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hydrometer Reading 2 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hydrometer Reading 3 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hydrometer Reading 4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hydrometer Reading 5 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hydrometer Reading 6 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hydrometer Reading 7 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Medium Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sand		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size #10 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size #100 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size #20 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size #200 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size #4 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size #40 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sieve Size #60 - Percent Finer		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-008	JP-SC3-008	JP-SC3-009	JP-SC3-009	JP-SC3-009	JP-SC3-009	JP-SC3-009	JP-SC3-009	JP-SC3-010	JP-SC3-010	JP-SC3-010	JP-SC3-010	JP-SC3-011
Sample ID	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC01
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5	1.0	2.0	0.0	0.0
Parameter	Sample Date	10/13/2008	10/13/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/20/2008	10/13/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-011	JP-SC3-011	JP-SC3-011	JP-SC3-012	JP-SC3-012	JP-SC3-012	JP-SC3-012	JP-SC3-012
Sample ID	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.5	1.0	2.0	4.0
Parameter	Sample Date	10/13/2008	10/13/2008	10/13/2008	10/10/2008	10/10/2008	10/10/2008	10/10/2008
<b>Cation Exchange Capacity</b>								
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>								
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>								
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>								
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC3-011	JP-SC3-011	JP-SC3-011	JP-SC3-012	JP-SC3-012	JP-SC3-012	JP-SC3-012	JP-SC3-012
Sample ID	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.5	1.0	2.0	4.0
Parameter	Sample Date	10/13/2008	10/13/2008	10/13/2008	10/10/2008	10/10/2008	10/10/2008	10/10/2008
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>								
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>								
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>								
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>								
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	Units	Reporting Limit	JP-SC6-001 SAIC01 BORE 0.0 10/25/2008	JP-SC6-001 SAIC02 BORE 0.5 10/25/2008	JP-SC6-001 SAIC03 BORE 1.0 10/25/2008	JP-SC6-001 SAIC04 BORE 2.0 10/25/2008	JP-SC6-001 SAIC05 BORE 4.0 10/25/2008	JP-SC6-002 SAIC01 BORE 0.0 10/07/2008	JP-SC6-002 SAIC01D BORE 0.0 10/07/2008	JP-SC6-002 SAIC02 BORE 0.5 10/07/2008	JP-SC6-002 SAIC02D BORE 0.5 10/07/2008	JP-SC6-002 SAIC03 BORE 1.0 10/07/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	meq/100g		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	% Passing		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	No Units		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>												
Total Organic Carbon	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>												
Total Carbon	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	mg/kg		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC6-002	JP-SC6-002	JP-SC6-002	JP-SC6-002	JP-SC6-002	JP-SC6-003	JP-SC6-003	JP-SC6-003	JP-SC6-003	JP-SC6-003	JP-SC6-004	JP-SC6-004
Sample ID	SAIC03D	SAIC04	SAIC04D	SAIC05	SAIC05D	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	2.0	4.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5
Parameter	Sample Date	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/07/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>												
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>												
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC6-004	JP-SC6-004	JP-SC6-004	JP-SC6-005	JP-SC6-005	JP-SC6-005	JP-SC6-005	JP-SC6-005	JP-SC6-005	JP-SC6-006	JP-SC6-006	JP-SC6-006	JP-SC6-006
Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5	1.0	2.0	4.0
Parameter	Sample Date	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/24/2008	10/24/2008	10/24/2008	10/24/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>													
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC6-006	JP-SC6-007	JP-SC6-007	JP-SC6-007	JP-SC6-007	JP-SC6-007	JP-SC6-007	JP-SC6-008	JP-SC6-008	JP-SC6-008	JP-SC6-008	JP-SC6-008	JP-SC6-008
Sample ID	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC03D
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.0	0.5	0.5	1.0	1.0	1.0
Parameter	Sample Date	10/24/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>													
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC6-008	JP-SC6-008	JP-SC6-008	JP-SC6-008	JP-SC6-009	JP-SC6-009	JP-SC6-009	JP-SC6-009	JP-SC6-009	JP-SC6-009	JP-SC6-010	JP-SC6-010	JP-SC6-010
Sample ID	SAIC04	SAIC04D	SAIC05	SAIC05D	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	2.0	4.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5	1.0	1.0
Parameter	Sample Date	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/24/2008	10/24/2008	10/24/2008	10/24/2008	10/24/2008	10/24/2008	10/24/2008	10/24/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>													
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>													
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>													
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SC6-010	JP-SC6-010	JP-SC6-011	JP-SC6-011	JP-SC6-011	JP-SC6-011	JP-SC6-011	JP-SC6-011	JP-SC6-012	JP-SC6-012	JP-SC6-012	JP-SC6-012	JP-SCR-001	JP-SCR-001
Sample ID	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	2.0	4.0	0.0	0.5	1.0	2.0	4.0	0.0	0.5	1.0	2.0	0.0	0.0	
Parameter	Sample Date	10/24/2008	10/24/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/25/2008	10/24/2008	10/24/2008	10/24/2008	10/24/2008	03/29/2012	03/29/2012
<b>Cation Exchange Capacity</b>														
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.0 J	N/A
<b>Metals</b>														
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38000 NE*	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	662 NE	N/A
<b>Moisture Content</b>														
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.6	N/A
<b>Particle Size Distribution</b>														
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23.4	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.9	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.4	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.2	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.1	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.8	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	33.1	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27.1	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23.4	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.3	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.3	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.8	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.1	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98.9	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	77.8	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	97.6	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	67.7	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99.8	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94.1	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	87.2	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	81.7	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.3	N/A
<b>pH</b>														
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.3	N/A
<b>TOC</b>														
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7510	N/A
<b>Total Carbon</b>														
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7640	N/A
<b>Total Inorganic Carbon</b>														
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	125	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-002	JP-SCR-002	JP-SCR-002	JP-SCR-002	JP-SCR-002	JP-SCR-002	JP-SCR-003
Sample ID	SAIC05D_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.5	1.0	2.0	0.0
Parameter	Sample Date	03/29/2012	10/21/2008	10/21/2008	10/21/2008	10/21/2008	03/29/2012	03/29/2012	10/23/2008	10/23/2008	10/23/2008	10/23/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	13.3 J	N/A	N/A	N/A	N/A	N/A	8.5 J
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	55900 NE*	N/A	N/A	N/A	N/A	N/A	6270 NE*
Manganese	N/A	N/A	N/A	N/A	N/A	1940 NE	N/A	N/A	N/A	N/A	N/A	181 NE
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	17.5	N/A	N/A	N/A	N/A	N/A	19.1
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	16.5	N/A	N/A	N/A	N/A	N/A	24.2
Coarse Sand	N/A	N/A	N/A	N/A	N/A	8	N/A	N/A	N/A	N/A	N/A	2.2
Fine Sand	N/A	N/A	N/A	N/A	N/A	20.7	N/A	N/A	N/A	N/A	N/A	24.1
Gravel	N/A	N/A	N/A	N/A	N/A	7.7	N/A	N/A	N/A	N/A	N/A	1.2
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	40.7	N/A	N/A	N/A	N/A	N/A	51.7
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	34.7	N/A	N/A	N/A	N/A	N/A	43.9
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	26.2	N/A	N/A	N/A	N/A	N/A	33.4
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	21.4	N/A	N/A	N/A	N/A	N/A	29.5
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	16.5	N/A	N/A	N/A	N/A	N/A	24.2
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	11.5	N/A	N/A	N/A	N/A	N/A	18.9
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	7.8	N/A	N/A	N/A	N/A	N/A	14.9
Medium Sand	N/A	N/A	N/A	N/A	N/A	12.9	N/A	N/A	N/A	N/A	N/A	7.6
Sand	N/A	N/A	N/A	N/A	N/A	41.6	N/A	N/A	N/A	N/A	N/A	33.9
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	84.3	N/A	N/A	N/A	N/A	N/A	96.6
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	55.6	N/A	N/A	N/A	N/A	N/A	72.4
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	78.3	N/A	N/A	N/A	N/A	N/A	94.1
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	50.7	N/A	N/A	N/A	N/A	N/A	64.9
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	92.3	N/A	N/A	N/A	N/A	N/A	98.8
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	71.4	N/A	N/A	N/A	N/A	N/A	89
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	62.3	N/A	N/A	N/A	N/A	N/A	80.7
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	57.8	N/A	N/A	N/A	N/A	N/A	75.4
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	97.5	N/A	N/A	N/A	N/A	N/A	100
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100
Silt	N/A	N/A	N/A	N/A	N/A	34.2	N/A	N/A	N/A	N/A	N/A	40.7
<b>pH</b>												
pH	N/A	N/A	N/A	N/A	N/A	5.6	N/A	N/A	N/A	N/A	N/A	6.0
<b>TOC</b>												
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	9530	N/A	N/A	N/A	N/A	N/A	2670
<b>Total Carbon</b>												
Total Carbon	N/A	N/A	N/A	N/A	N/A	9140	N/A	N/A	N/A	N/A	N/A	2720
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	100 U	N/A	N/A	N/A	N/A	N/A	47.0 B

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SCR-003	JP-SCR-003	JP-SCR-003	JP-SCR-003	JP-SCR-003	JP-SCR-004	JP-SCR-004	JP-SCR-004	JP-SCR-004	JP-SCR-004	JP-SCR-005	JP-SCR-005
Sample ID	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0
Parameter	Sample Date	03/29/2012	10/23/2008	10/23/2008	10/23/2008	10/23/2008	03/28/2012	10/21/2008	10/21/2008	10/21/2008	03/29/2012	03/29/2012
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	9.7 J	N/A	N/A	N/A	N/A	11.8 J	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	34100 N*	N/A	N/A	N/A	N/A	19300 NE*	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	411 N	N/A	N/A	N/A	N/A	1610 NE	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	17.9	N/A	N/A	N/A	N/A	22.5	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	35.8	N/A	N/A	N/A	N/A	34.9	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	1.1	N/A	N/A	N/A	N/A	0.2	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	16.5	N/A	N/A	N/A	N/A	4.4	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	0.3	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	61.1	N/A	N/A	N/A	N/A	79.2	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	55.5	N/A	N/A	N/A	N/A	67.4	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	45.6	N/A	N/A	N/A	N/A	52.7	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	41.4	N/A	N/A	N/A	N/A	43.9	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	35.8	N/A	N/A	N/A	N/A	34.9	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	30.2	N/A	N/A	N/A	N/A	25.9	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	25.9	N/A	N/A	N/A	N/A	18.4	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	4.8	N/A	N/A	N/A	N/A	2.2	N/A
Sand	N/A	N/A	N/A	N/A	N/A	22.4	N/A	N/A	N/A	N/A	6.8	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	94.9	N/A	N/A	N/A	N/A	99.5	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	79.9	N/A	N/A	N/A	N/A	94.3	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	93	N/A	N/A	N/A	N/A	98.7	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	73.6	N/A	N/A	N/A	N/A	92.9	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	96	N/A	N/A	N/A	N/A	99.7	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	90.1	N/A	N/A	N/A	N/A	97.3	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	85.5	N/A	N/A	N/A	N/A	95.8	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	82	N/A	N/A	N/A	N/A	94.9	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	96.6	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	100	N/A
Silt	N/A	N/A	N/A	N/A	N/A	37.8	N/A	N/A	N/A	N/A	58	N/A
<b>pH</b>												
pH	N/A	N/A	N/A	N/A	N/A	6.5	N/A	N/A	N/A	N/A	5.4	N/A
<b>TOC</b>												
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	1180	N/A	N/A	N/A	N/A	4780	N/A
<b>Total Carbon</b>												
Total Carbon	N/A	N/A	N/A	N/A	N/A	1910	N/A	N/A	N/A	N/A	5490	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	721	N/A	N/A	N/A	N/A	715	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SCR-005	JP-SCR-005	JP-SCR-005	JP-SCR-005	JP-SCR-006	JP-SCR-006	JP-SCR-006	JP-SCR-006	JP-SCR-006	JP-SCR-006	JP-SCR-007	JP-SCR-007
Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0
Parameter	Sample Date	10/23/2008	10/23/2008	10/23/2008	10/23/2008	03/28/2012	03/28/2012	10/23/2008	10/23/2008	10/23/2008	03/28/2012	03/28/2012
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	8.6 J	N/A	N/A	N/A	N/A	N/A	9 J	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	21700 N*	N/A	N/A	N/A	N/A	N/A	22000 N*	N/A
Manganese	N/A	N/A	N/A	N/A	151 N	N/A	N/A	N/A	N/A	N/A	1130 N	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	19.1	N/A	N/A	N/A	N/A	N/A	26.4	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	35	N/A	N/A	N/A	N/A	N/A	35.8	N/A
Coarse Sand	N/A	N/A	N/A	N/A	1.4	N/A	N/A	N/A	N/A	N/A	0.3	N/A
Fine Sand	N/A	N/A	N/A	N/A	12.9	N/A	N/A	N/A	N/A	N/A	5.3	N/A
Gravel	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	0	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	73.4	N/A	N/A	N/A	N/A	N/A	75.6	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	63.5	N/A	N/A	N/A	N/A	N/A	65.4	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	49.2	N/A	N/A	N/A	N/A	N/A	51.7	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	42.1	N/A	N/A	N/A	N/A	N/A	42.6	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	35	N/A	N/A	N/A	N/A	N/A	35.8	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	27.9	N/A	N/A	N/A	N/A	N/A	26.7	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	22.1	N/A	N/A	N/A	N/A	N/A	19.9	N/A
Medium Sand	N/A	N/A	N/A	N/A	3.3	N/A	N/A	N/A	N/A	N/A	3.2	N/A
Sand	N/A	N/A	N/A	N/A	17.6	N/A	N/A	N/A	N/A	N/A	8.8	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	98.6	N/A	N/A	N/A	N/A	N/A	99.7	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	86.7	N/A	N/A	N/A	N/A	N/A	92.9	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	97.4	N/A	N/A	N/A	N/A	N/A	98.5	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	82.4	N/A	N/A	N/A	N/A	N/A	91.2	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	95.3	N/A	N/A	N/A	N/A	N/A	96.5	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	91.4	N/A	N/A	N/A	N/A	N/A	94.6	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	88.6	N/A	N/A	N/A	N/A	N/A	93.5	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	100	N/A
Silt	N/A	N/A	N/A	N/A	47.4	N/A	N/A	N/A	N/A	N/A	55.4	N/A
<b>pH</b>												
pH	N/A	N/A	N/A	N/A	4.9	N/A	N/A	N/A	N/A	N/A	4.7	N/A
<b>TOC</b>												
Total Organic Carbon	N/A	N/A	N/A	N/A	2080	N/A	N/A	N/A	N/A	N/A	2700	N/A
<b>Total Carbon</b>												
Total Carbon	N/A	N/A	N/A	N/A	2040	N/A	N/A	N/A	N/A	N/A	2530	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	N/A	N/A	N/A	N/A	100 U	N/A	N/A	N/A	N/A	N/A	100 U	N/A



# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SCR-007	JP-SCR-007	JP-SCR-007	JP-SCR-007	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-008
Sample ID	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05_D60	SAIC05D	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.0	0.5	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
Parameter	Sample Date	10/22/2008	10/22/2008	10/22/2008	10/22/2008	03/28/2012	03/28/2012	03/28/2012	10/21/2008	10/21/2008	10/21/2008	10/21/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	9 J	N/A	9.2 J	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	28300 N*	N/A	33200 N*	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	158 N	N/A	136 N	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	18.8	N/A	19	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	42.4	N/A	38.9	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	1.8	N/A	2.2	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	11.8	N/A	14.8	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	0	N/A	0.6	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	73	N/A	66.3	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	66.1	N/A	57.2	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	53.6	N/A	49.6	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	46.6	N/A	43.5	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	42.4	N/A	38.9	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	35.5	N/A	31.3	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	28.5	N/A	26.7	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	3.8	N/A	4.9	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	17.4	N/A	21.9	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	98.2	N/A	97.2	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	86.8	N/A	82.8	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	96.5	N/A	94.8	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	82.6	N/A	77.5	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	99.4	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	94.4	N/A	92.3	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	90.7	N/A	87.8	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	88.3	N/A	84.7	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	100	N/A	100	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	40.2	N/A	38.6	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	N/A	N/A	N/A	N/A	4.7	N/A	4.4	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>												
Total Organic Carbon	N/A	N/A	N/A	N/A	2810	N/A	3240	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>												
Total Carbon	N/A	N/A	N/A	N/A	2370	N/A	3300	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	N/A	N/A	N/A	N/A	100 U	N/A	58 B	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SGR-001	JP-SGR-001	JP-SGR-001
Sample ID	SAIC03D	SAIC04	SAIC04D	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC02
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	2.0	0.0	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.5	0.5
Parameter	Sample Date	10/21/2008	10/21/2008	10/21/2008	03/28/2012	03/28/2012	10/22/2008	10/22/2008	10/22/2008	10/22/2008	03/30/2012	10/23/2008	10/23/2008
<b>Cation Exchange Capacity</b>													
Cation Exchange Capacity	N/A	N/A	N/A	7.6 J	N/A	N/A	N/A	N/A	N/A	N/A	7.5 J	N/A	N/A
<b>Metals</b>													
Iron	N/A	N/A	N/A	19200 N*	N/A	N/A	N/A	N/A	N/A	N/A	10900 NE*	N/A	N/A
Manganese	N/A	N/A	N/A	821 N	N/A	N/A	N/A	N/A	N/A	N/A	64 NE*	N/A	N/A
<b>Moisture Content</b>													
Moisture	N/A	N/A	N/A	22.8	N/A	N/A	N/A	N/A	N/A	N/A	21.7	N/A	N/A
<b>Particle Size Distribution</b>													
Clay	N/A	N/A	N/A	34	N/A	N/A	N/A	N/A	N/A	N/A	30.2	N/A	N/A
Coarse Sand	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	0.9	N/A	N/A
Fine Sand	N/A	N/A	N/A	9	N/A	N/A	N/A	N/A	N/A	N/A	13.8	N/A	N/A
Gravel	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	72.4	N/A	N/A	N/A	N/A	N/A	N/A	73.0	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	61.3	N/A	N/A	N/A	N/A	N/A	N/A	58.7	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	47.6	N/A	N/A	N/A	N/A	N/A	N/A	45.9	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	39	N/A	N/A	N/A	N/A	N/A	N/A	35.9	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	34	N/A	N/A	N/A	N/A	N/A	N/A	30.2	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	26.6	N/A	N/A	N/A	N/A	N/A	N/A	18.5	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	21.7	N/A	N/A	N/A	N/A	N/A	N/A	14.3	N/A	N/A
Medium Sand	N/A	N/A	N/A	3.9	N/A	N/A	N/A	N/A	N/A	N/A	3.3	N/A	N/A
Sand	N/A	N/A	N/A	12.9	N/A	N/A	N/A	N/A	N/A	N/A	18.0	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	99.1	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	90	N/A	N/A	N/A	N/A	N/A	N/A	86.7	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	98.4	N/A	N/A	N/A	N/A	N/A	N/A	98.2	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	87.1	N/A	N/A	N/A	N/A	N/A	N/A	82.0	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	96.1	N/A	N/A	N/A	N/A	N/A	N/A	95.8	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	93.1	N/A	N/A	N/A	N/A	N/A	N/A	91.4	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	91.2	N/A	N/A	N/A	N/A	N/A	N/A	88.4	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A	100.0	N/A	N/A
Silt	N/A	N/A	N/A	53.1	N/A	N/A	N/A	N/A	N/A	N/A	51.8	N/A	N/A
<b>pH</b>													
pH	N/A	N/A	N/A	4.7	N/A	N/A	N/A	N/A	N/A	N/A	4.8	N/A	N/A
<b>TOC</b>													
Total Organic Carbon	N/A	N/A	N/A	3620	N/A	N/A	N/A	N/A	N/A	N/A	1870	N/A	N/A
<b>Total Carbon</b>													
Total Carbon	N/A	N/A	N/A	3520	N/A	N/A	N/A	N/A	N/A	N/A	1870	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon	N/A	N/A	N/A	100 U	N/A	N/A	N/A	N/A	N/A	N/A	100 U	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SGR-001	JP-SGR-001	JP-SGR-002	JP-SGR-002	JP-SGR-002	JP-SGR-002	JP-SGR-003	JP-SGR-003	JP-SGR-003	JP-SGR-003	JP-SGR-003	JP-SGR-004
Sample ID	SAIC03	SAIC04	SAIC05	SAIC01	SAIC02	SAIC03	SAIC05	SAIC05_D60	SAIC01	SAIC02	SAIC03	SAIC01
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.5	1.0	0.0
Parameter	Sample Date	10/23/2008	10/23/2008	03/30/2012	10/23/2008	10/23/2008	10/23/2008	03/29/2012	03/29/2012	10/22/2008	10/22/2008	10/22/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	13.1 J	N/A	N/A	N/A	14.0 J	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	9220 NE*	N/A	N/A	N/A	20300 NE*	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	74.7 NE*	N/A	N/A	N/A	1170 NE	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	17.5	N/A	N/A	N/A	21.9	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	31.1	N/A	N/A	N/A	27.1	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	1.1	N/A	N/A	N/A	1.3	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	15.6	N/A	N/A	N/A	8	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	0.0	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	67.8	N/A	N/A	N/A	67.4	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	57.5	N/A	N/A	N/A	57.4	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	45.8	N/A	N/A	N/A	42.3	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	36.9	N/A	N/A	N/A	33.5	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	31.1	N/A	N/A	N/A	27.1	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	25.0	N/A	N/A	N/A	17	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	19.1	N/A	N/A	N/A	10.6	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	4.5	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	21.2	N/A	N/A	N/A	13.3	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	98.9	N/A	N/A	N/A	95.7	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	84.2	N/A	N/A	N/A	86.3	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	97.4	N/A	N/A	N/A	94.1	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	78.8	N/A	N/A	N/A	83.7	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	100.0	N/A	N/A	N/A	97	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	94.4	N/A	N/A	N/A	91.7	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	89.4	N/A	N/A	N/A	88.9	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	86.1	N/A	N/A	N/A	87.3	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	100.0	N/A	N/A	N/A	98.1	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	100.0	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	100.0	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	100.0	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	100.0	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	100.0	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	47.7	N/A	N/A	N/A	56.6	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	N/A	N/A	5.3	N/A	N/A	N/A	5.4	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>												
Total Organic Carbon	N/A	N/A	2000	N/A	N/A	N/A	11000	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>												
Total Carbon	N/A	N/A	1930	N/A	N/A	N/A	11300	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	N/A	N/A	100 U	N/A	N/A	N/A	377	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SGR-004	JP-SGR-004	JP-SGR-004	JP-SGR-005	JP-SGR-005	JP-SGR-005	JP-SGR-005	JP-SGR-006	JP-SGR-006	JP-SGR-006	JP-SGR-006	JP-SGR-006
Sample ID	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC01D	SAIC02	SAIC02D	SAIC03
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0	0.0	0.5	0.5	1.0
Parameter	Sample Date	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>												
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>												
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SGR-006	JP-SGR-006	JP-SGR-006	JP-SGR-007	JP-SGR-007	JP-SGR-007	JP-SGR-007	JP-SGR-008	JP-SGR-008	JP-SGR-008	JP-SGR-008	JP-SGR-009
Sample ID	SAIC03D	SAIC04	SAIC04D	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01	SAIC02	SAIC03	SAIC04	SAIC01
Sample Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE
Depth (ft.)	1.0	2.0	2.0	0.0	0.5	1.0	2.0	0.0	0.5	1.0	2.0	0.0
Parameter	Sample Date	10/22/2008	10/22/2008	10/22/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/22/2008
<b>Cation Exchange Capacity</b>												
Cation Exchange Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>												
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Content</b>												
Moisture	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Particle Size Distribution</b>												
Clay	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gravel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>pH</b>												
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>												
Total Organic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Carbon</b>												
Total Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>												
Total Inorganic Carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Data for Soil, Jefferson Proving Ground, Madison, Indiana

Location ID	JP-SGR-009	JP-SGR-009	JP-SGR-009
Sample ID	SAIC02	SAIC03	SAIC04
Sample Type	BORE	BORE	BORE
Depth (ft.)	0.5	1.0	2.0
Parameter	Sample Date	10/22/2008	10/22/2008
<b>Cation Exchange Capacity</b>			
Cation Exchange Capacity	N/A	N/A	N/A
<b>Metals</b>			
Iron	N/A	N/A	N/A
Manganese	N/A	N/A	N/A
<b>Moisture Content</b>			
Moisture	N/A	N/A	N/A
<b>Particle Size Distribution</b>			
Clay	N/A	N/A	N/A
Coarse Sand	N/A	N/A	N/A
Fine Sand	N/A	N/A	N/A
Gravel	N/A	N/A	N/A
Hydrometer Reading 1 - Percent Finer	N/A	N/A	N/A
Hydrometer Reading 2 - Percent Finer	N/A	N/A	N/A
Hydrometer Reading 3 - Percent Finer	N/A	N/A	N/A
Hydrometer Reading 4 - Percent Finer	N/A	N/A	N/A
Hydrometer Reading 5 - Percent Finer	N/A	N/A	N/A
Hydrometer Reading 6 - Percent Finer	N/A	N/A	N/A
Hydrometer Reading 7 - Percent Finer	N/A	N/A	N/A
Medium Sand	N/A	N/A	N/A
Sand	N/A	N/A	N/A
Sieve Size #10 - Percent Finer	N/A	N/A	N/A
Sieve Size #100 - Percent Finer	N/A	N/A	N/A
Sieve Size #20 - Percent Finer	N/A	N/A	N/A
Sieve Size #200 - Percent Finer	N/A	N/A	N/A
Sieve Size #4 - Percent Finer	N/A	N/A	N/A
Sieve Size #40 - Percent Finer	N/A	N/A	N/A
Sieve Size #60 - Percent Finer	N/A	N/A	N/A
Sieve Size #80 - Percent Finer	N/A	N/A	N/A
Sieve Size 0.375 inch - Percent Finer	N/A	N/A	N/A
Sieve Size 0.75 inch - Percent Finer	N/A	N/A	N/A
Sieve Size 1 inch - Percent Finer	N/A	N/A	N/A
Sieve Size 1.5 inch - Percent Finer	N/A	N/A	N/A
Sieve Size 2 inch - Percent Finer	N/A	N/A	N/A
Sieve Size 3 inch - Percent Finer	N/A	N/A	N/A
Silt	N/A	N/A	N/A
<b>pH</b>			
pH	N/A	N/A	N/A
<b>TOC</b>			
Total Organic Carbon	N/A	N/A	N/A
<b>Total Carbon</b>			
Total Carbon	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>			
Total Inorganic Carbon	N/A	N/A	N/A

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-01	JP-W-01	JP-W-01	JP-W-01	JP-W-02	JP-W-02	JP-W-02	JP-W-02	JP-W-03
Sample ID	Units	Reporting Limit	SAIC09	SAIC09F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC12	SAIC12F	SAIC09
Sample Type			CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter	Sample Date		4/13/2008	4/13/2008	2/9/2009	2/9/2009	4/23/2008	4/23/2008	2/6/2009	2/6/2009	4/22/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	68	N/A	83	N/A	120	N/A	94	N/A	99
<b>Common Anions</b>											
Chloride	mg/l	0.1	0.72	0.75	0.72	0.78	1.5	1.5	1.7	1.7	1.4
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.17	0.17	0.1 U	0.1 U	0.13	0.12	0.1 UJ
Sulfate	mg/l	0.1	11	10	10	10	18	19	18	18	18
<b>Metals</b>											
Aluminum	µg/l	200	163 J	36.2 J	240	36 U	47.7 J	26.7 U	159 J	36 U	280
Calcium	µg/l	1000	24000	23300	29500	30000	35000	34900	29900	29800	33300
Iron	µg/l	150	146 J	21.4 J	199	27 U	52.1 J	15.4 U	2000	27 U	305
Magnesium	µg/l	250	3980	3810	4460	4480	8700	8670	7830	7710	6220
Manganese	µg/l	5	2.5 J	0.56 J	4.1 J	1.7 J	1.1 J	0.4 J	8.5	0.55 J	11.7
Potassium	µg/l	250	447	430	492	444	494	474	489	537	583
Silicon	µg/l	50	3940	3730	3410	3360	4640	5000	3710 N*	3670 N*	5940
Sodium	µg/l	2500	1950 J	1990 J	1150 J	1190 J	2290 J	2390 J	1520 J	1490 J	3790 U
<b>TOC</b>											
Total Organic Carbon	mg/l	1	1.5	1.5	1.9	2.1	1 U	1.2	1.5	1.4	1 U

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-03	JP-W-03	JP-W-03	JP-W-04	JP-W-04	JP-W-04	JP-W-04	JP-W-04	JP-W-04
Sample ID	Units	Reporting	SAIC09F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11D
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter	Sample Date		4/22/2008	2/5/2009	2/5/2009	4/25/2008	4/25/2008	7/17/2008	7/17/2008	10/21/2008	10/21/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	N/A	72	N/A	100	N/A	130	N/A	150	150
<b>Common Anions</b>											
Chloride	mg/l	0.1	1.3	1.3	1.3	5	5.1	8.8	9	8	8
Nitrate	mg/l	0.1	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	20
Sulfate	mg/l	0.1	18	18	18	13	13	7.9	8	3.5	3.6
<b>Metals</b>											
Aluminum	µg/l	200	26.7 U	403	275	61.6 J	71.2 J	185 J	85.7 J	35 UN	35 UN
Calcium	µg/l	1000	34100	24700	24600	33400	35000	38600 J	38100 J	22800	22800
Iron	µg/l	150	15.4 U	294	121 J	295	54.4 J	271	51.7 J	65.7 JN	85.5 JN
Magnesium	µg/l	250	6280	6960	6930	7900	8270	10100 J	9890 J	5280	5270
Manganese	µg/l	5	5 U	14	1 J	23.4	11.2	103	21.1	495	479
Potassium	µg/l	250	517	477	382	1480	1570	3710	3690	7210	7170
Silicon	µg/l	50	5320	3840	3990	1220 D	1190	842	907 U	2280 N	2430 N
Sodium	µg/l	2500	3870 U	2190 J	2180 J	4340	4510	5200	5190	5090	4590
<b>TOC</b>											
Total Organic Carbon	mg/l	1	1 U	1.3	1.1	3.6	3.4	4.6	4.4	10	11



**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-04	JP-W-04	JP-W-04	JP-W-04	JP-W-05	JP-W-05	JP-W-05	JP-W-05
Sample ID	Units	Reporting Limit	SAIC11DF	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F
Sample Type			CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0
Parameter Sample Date			10/21/2008	10/21/2008	2/6/2009	2/6/2009	4/23/2008	4/23/2008	7/16/2008	7/16/2008
<b>Alkalinity</b>										
Alkalinity	mg/l	1	N/A	N/A	96	N/A	90	N/A	190	N/A
<b>Common Anions</b>										
Chloride	mg/l	0.1	8.1	8.1	28	28	2	2.1	3.1	3.1
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.3	0.29	0.1 U	0.1 U	0.2	0.2
Sulfate	mg/l	0.1	3.5	3.6	21	21	17	15	13	15
<b>Metals</b>										
Aluminum	µg/l	200	35 UN	35 UN	69.2 J	192 J	174 J	26.7 U	75.9 J	69.8 J
Calcium	µg/l	1000	22600	22500	35200	34900	26300	25500	53900	52300
Iron	µg/l	150	52.6 JN	57.1 JN	188	106 J	248	17.7 J	77.9 J	29.5 J
Magnesium	µg/l	250	5240	5210	8980	8900	8130	7860	15900	15100
Manganese	µg/l	5	446	438	22.8	20.9	46.2	4 J	50.8	34.1
Potassium	µg/l	250	7210	7160	1760	1840	694	623	996	897
Silicon	µg/l	50	2250 N	2300 N	2780 N*	2510 N*	5220	5270	6850	6100
Sodium	µg/l	2500	4550	4790	12700	12600	4190	3950	6780	6720
<b>TOC</b>										
Total Organic Carbon	mg/l	1	10	10	3.7	4	1.8	1.8	1.4	1.6

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-05	JP-W-05	JP-W-05	JP-W-05	JP-W-06	JP-W-06	JP-W-06	JP-W-06	JP-W-07
Sample ID	Units	Reporting Limit	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC12	SAIC12F	SAIC09
Sample Type			CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter	Sample Date		10/21/2008	10/21/2008	2/6/2009	2/6/2009	4/24/2008	4/24/2008	2/6/2009	2/6/2009	4/25/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	210	N/A	65	N/A	100	N/A	92	N/A	100
<b>Common Anions</b>											
Chloride	mg/l	0.1	4.4	4.5	1.6	1.7	1.8	1.8	1.5	1.6	4.6
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.15 J	0.16 J	0.12	0.28	0.1 U
Sulfate	mg/l	0.1	14	14	16	16	18	18	16	16	13
<b>Metals</b>											
Aluminum	µg/l	200	35 UN	35 UN	307	36 U	200 U	26.7 U	115 J	36 U	75.8 J
Calcium	µg/l	1000	30100	30800	20400	20400	29000	29600	26400	25500	33700
Iron	µg/l	150	35 JN	15.4 UN	299	27 U	150 U	150 U	70.6 J	27 U	134 J
Magnesium	µg/l	250	9470	9700	6340	6330	9720	9920	9140	8980	7410
Manganese	µg/l	5	80.3	18.9	52.8	2.4 J	5 U	5 U	3.8 J	0.46 J	25.7
Potassium	µg/l	250	1630	1730	662	602	765	765	799	690	1290
Silicon	µg/l	50	6890 N	7240 N	5260 N*	3940 N*	4380 J	3550 J	3470 N*	3500 N*	1800
Sodium	µg/l	2500	10200	10500	2770	2950	2780 U	2580 U	2130 J	2040 J	4190
<b>TOC</b>											
Total Organic Carbon	mg/l	1	4.9	3	2	2.1	1 U	1 U	1 U	1	3

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-07	JP-W-07	JP-W-07	JP-W-07	JP-W-07	JP-W-07	JP-W-07	JP-W-08
Sample ID	Units	Reporting	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0
Parameter	Sample Date		4/25/2008	7/20/2008	7/20/2008	10/12/2008	10/12/2008	2/10/2009	2/10/2009	4/22/2008
<b>Alkalinity</b>										
Alkalinity	mg/l	1	N/A	140	N/A	150	N/A	40	N/A	100
<b>Common Anions</b>										
Chloride	mg/l	0.1	4.2	5.5	5.6	6.7	6.6	3.9	4	1.2
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.29	0.29	0.1 UJ
Sulfate	mg/l	0.1	13	7.3	7.3	5.8	5.6	11	12	14
<b>Metals</b>										
Aluminum	µg/l	200	26.7 U	214	35 U	35 U	44.2 J	501	132 J	1450
Calcium	µg/l	1000	33900	39500	39100	45600 E	45100 E	14000	14200	31900
Iron	µg/l	150	150	1400	8.2 U	77.8 J	20.5 J	478	155	1830
Magnesium	µg/l	250	7450	9240	9110	9370 E	9270 E	3430	3460	7710
Manganese	µg/l	5	17.4	61.4	3.2 J	67.8 E	14.7 E	30.2	24.8	95.7
Potassium	µg/l	250	1270	3020	3040	4300	4270	1410	1450	608
Silicon	µg/l	50	1720	883	646	1180	1050	3550	2860	5430
Sodium	µg/l	2500	4000	3720	3730	4020	4150	2480 J	2550	2500 U
<b>TOC</b>										
Total Organic Carbon	mg/l	1	3	3.7	3.5	6.2	5.9	6.2	6	1 U

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-08	JP-W-08	JP-W-08	JP-W-09	JP-W-09	JP-W-09	JP-W-09	JP-W-09	JP-W-09
Sample ID	Units	Reporting Limit	SAIC09F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F
Sample Type			CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter Sample Date			4/22/2008	2/4/2009	2/4/2009	4/24/2008	4/24/2008	7/21/2008	7/21/2008	10/8/2008	10/8/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	N/A	100	N/A	130	N/A	180	N/A	170	N/A
<b>Common Anions</b>											
Chloride	mg/l	0.1	1.2	2.3	1.4	1	1	0.72	0.73	1.7	1.9
Nitrate	mg/l	0.1	0.1 UJ	0.1 U	0.1 U	0.21 J	0.21 J	0.1 U	0.1 U	0.11	0.1 U
Sulfate	mg/l	0.1	14	13	13	13	13	11	11	8.4	6.8
<b>Metals</b>											
Aluminum	µg/l	200	26.7 U	697	51.3 J	200 U	26.7 U	374	35 U	85.8 J	99.7 J
Calcium	µg/l	1000	30200	31100	31000	43000	44400	59200	60800	59400	64400
Iron	µg/l	150	150 U	582	788	150 U	150 U	1180	8.2 U	574	645
Magnesium	µg/l	250	7030	7770	7710	6170	6400	8190	8370	9640	10500
Manganese	µg/l	5	5 U	16.5	15.2	5 U	5 U	24.7	20.5	1810	2950
Potassium	µg/l	250	391	546	405	627	629	434	484	6540	7650
Silicon	µg/l	50	4150	4910	3840	4580 J	4780 J	4280	4390	6230	6650
Sodium	µg/l	2500	2500 U	1620 J	1530 J	2500 U	2500 U	1480 J	1570 J	2990 E	3290 E
<b>TOC</b>											
Total Organic Carbon	mg/l	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	19	20

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-09	JP-W-09	JP-W-10	JP-W-10	JP-W-10	JP-W-10	JP-W-10	JP-W-10	JP-W-11
Sample ID	Units	Reporting	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC12	SAIC12F	SAIC09
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter	Sample Date		2/9/2009	2/9/2009	4/25/2008	4/25/2008	7/16/2008	7/16/2008	2/9/2009	2/9/2009	4/23/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	130	N/A	100	N/A	170	N/A	80	N/A	100
<b>Common Anions</b>											
Chloride	mg/l	0.1	0.7	0.67	0.89	0.1 U	0.97	0.98	0.67	0.74	5.8
Nitrate	mg/l	0.1	0.26	0.24	0.1 U	0.1 U	0.1 U	0.1 U	0.22	0.23	0.1 U
Sulfate	mg/l	0.1	11	11	11	1 U	10	10	10	10	14
<b>Metals</b>											
Aluminum	µg/l	200	175 JN	36 UN	178 J	26.7 U	1810	55.9 J	285	36 UN	113 J
Calcium	µg/l	1000	45500	45700	34500	34300	52000	51000	29600	30000	31100
Iron	µg/l	150	171 N	27 UN	83.8 J	17 J	2080	27.7 J	185	27 UN	158
Magnesium	µg/l	250	6060	6090	5440	5400	8300	7970	4350	4560	7240
Manganese	µg/l	5	4.7 J	4.7 J	5.1	0.71 J	268	530	6.6	1.3 J	20.8
Potassium	µg/l	250	609	600	557	509	747	674	551	491	1300
Silicon	µg/l	50	4330 N	4160 N	4520	4400	6110	4210	3910	3990 N	1740
Sodium	µg/l	2500	1030 J	1020 J	2190 J	2550	2330 J	2570	1140 J	1060 J	3940
<b>TOC</b>											
Total Organic Carbon	mg/l	1	1	1 U	1.4	1 U	1.9	1.1	1 U	1 U	3.4

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-11	JP-W-11	JP-W-11	JP-W-11	JP-W-11	JP-W-11	JP-W-11	JP-W-11	JP-W-11
Sample ID	Units	Reporting	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12D	SAIC12DF	SAIC12F
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter	Sample Date		4/23/2008	7/17/2008	7/17/2008	10/8/2008	10/8/2008	2/10/2009	2/10/2009	2/10/2009	2/10/2009
<b>Alkalinity</b>											
Alkalinity	mg/l	1	N/A	120	N/A	98	N/A	43	42	N/A	N/A
<b>Common Anions</b>											
Chloride	mg/l	0.1	5.8	8.3	8.2	7.2	7.2	5.1	5.1	5.1	5.2
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.38	0.37	0.37	0.38
Sulfate	mg/l	0.1	14	8.9	6.8	4.8	4.8	12	12	12	12
<b>Metals</b>											
Aluminum	µg/l	200	26.7 U	35 U	98.5 J	205	133 J	645	606	100 J	223
Calcium	µg/l	1000	30500	32800 J	33700 J	30600	30400	15700	15800	15500	15900
Iron	µg/l	150	69.5 J	16.5 J	131 J	128 J	37.7 J	488	527	118 J	100 J
Magnesium	µg/l	250	7090	9690 J	9870 J	8200	8230	3960	4030	3950	3990
Manganese	µg/l	5	11.4	73.9	181	89.4	21.7	32.2	34.8	25.3	23.8
Potassium	µg/l	250	1270	3720 D	3780 D	4700	4730	1910	1870	1800	1820
Silicon	µg/l	50	1490	1050	1250	1100	938	4350	3640	2950	3120
Sodium	µg/l	2500	3920	4880	4970	4090 E	4270 E	3160	3140	3100	3180
<b>TOC</b>											
Total Organic Carbon	mg/l	1	3.6	5	5	5.7	5.3	7.2	7	6.5	6.6

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-12	JP-W-12	JP-W-12	JP-W-12	JP-W-12	JP-W-12	JP-W-12	JP-W-12	JP-W-13
Sample ID	Units	Reporting	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter	Sample Date		4/22/2008	4/22/2008	7/29/2008	7/29/2008	10/9/2008	10/9/2008	2/5/2009	2/5/2009	4/24/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	100	N/A	130	N/A	160	N/A	83	N/A	110
<b>Common Anions</b>											
Chloride	mg/l	0.1	5.7	5.4	7.9	8.2	6.8	6.8	32	34	6.6
Nitrate	mg/l	0.1	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.37	0.38	0.1 U
Sulfate	mg/l	0.1	13	13	6.7	6.7	4.2	4.2	21	22	14
<b>Metals</b>											
Aluminum	µg/l	200	200 U	26.7 U	173 J	58.7 J	115 J	26.7 U	140 J	43.7 J	84.1 J
Calcium	µg/l	1000	31400	33200	36300	37000	48000	47300	33200	33300	31400
Iron	µg/l	150	191 U	150 U	170	66.6 J	115 J	21.3 J	251	90 J	212
Magnesium	µg/l	250	7350	7750	8760	8970	12300	12100	9010	8990	7490
Manganese	µg/l	5	37.4	31	114	45	357 E	224 E	37.9	36.1	37.4
Potassium	µg/l	250	1430	1470	3780 E	3680 E	4460	4250	1930	1950	1600
Silicon	µg/l	50	1560	1540	1040	972	1220	1170	2920	2800	1250 J
Sodium	µg/l	2500	4440	4620	4250	4160	3930	3830	15200	15300	5220
<b>TOC</b>											
Total Organic Carbon	mg/l	1	4.2	4.2	3.8	4	4.9	4.7	3.6	3.4	2.2

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-13	JP-W-13	JP-W-13	JP-W-13	JP-W-13	JP-W-13	JP-W-13	JP-W-13
Sample ID	Units	Reporting	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11D	SAIC11DF	SAIC11F	SAIC12
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0
Parameter	Sample Date		4/24/2008	7/20/2008	7/20/2008	10/10/2008	10/10/2008	10/10/2008	10/10/2008	2/9/2009
<b>Alkalinity</b>										
Alkalinity	mg/l	1	N/A	100	N/A	110	110	N/A	N/A	32
<b>Common Anions</b>										
Chloride	mg/l	0.1	6	10	9.5	3.6	3.7	3.7	3.6	5.1
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.39
Sulfate	mg/l	0.1	14	8	7.8	6.2	6.7	4.8	4.8	12
<b>Metals</b>										
Aluminum	µg/l	200	26.7 U	75 J	35 U	105 J	87.5 J	35 U	35 U	652
Calcium	µg/l	1000	30200	31800	32200	32300 J	31500 J	31800 J	32100 J	12800
Iron	µg/l	150	150 U	165	57.4 J	244	209	150 U	150 U	610
Magnesium	µg/l	250	7140	9250	9230	7690 J	7440 J	7520 J	7610 J	3360
Manganese	µg/l	5	23.7	110	13.3	87.6 J	86.3 J	36.4 J	14.8 J	60.2
Potassium	µg/l	250	1520	4400	4040	4740	4810	4780	4820	2180
Silicon	µg/l	50	1280 J	360	194	444 J	487 J	619 J	455 J	3420
Sodium	µg/l	2500	4720	4740	4370	2010 J	1970 J	2140 J	2070 J	2960
<b>TOC</b>										
Total Organic Carbon	mg/l	1	4.6	6.3	5.9	7	6.8	6.3	6.3	8.6



**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-13	JP-W-14	JP-W-14	JP-W-14	JP-W-14	JP-W-15	JP-W-15	JP-W-15	JP-W-15
Sample ID	Units	Reporting Limit	SAIC12F	SAIC09	SAIC09F	SAIC12	SAIC12F	SAIC09	SAIC09D	SAIC09F	SAIC09FD
Sample Type			CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter Sample Date			2/9/2009	4/23/2008	4/23/2008	2/8/2009	2/8/2009	4/25/2008	4/25/2008	4/25/2008	4/25/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	N/A	70	N/A	21	N/A	37	37	N/A	N/A
<b>Common Anions</b>											
Chloride	mg/l	0.1	5.2	0.87	0.93	0.81	0.86	1.5	1.5	1.5	1.5
Nitrate	mg/l	0.1	0.39	0.1 U	0.1 U	0.1 U	0.1 U	0.11	0.1 U	0.1 U	0.1 U
Sulfate	mg/l	0.1	12	10	10	10	10	18	8.8	8.6	8.5
<b>Metals</b>											
Aluminum	µg/l	200	49.1 J	99.4 J	26.7 U	412	367	125 J	211	26.7 U	66.5 J
Calcium	µg/l	1000	12700	23400	23500	9170	8950	11700	12100	12100	12300
Iron	µg/l	150	159	122 J	33.1 J	536	346	833	898	217	776
Magnesium	µg/l	250	3290	4090	4100	2060	2020	2890	2990	3000	3040
Manganese	µg/l	5	51.1	4 J	2.6 J	18.7	18.3	147	162	129	132
Potassium	µg/l	250	2060	691	648	596	592	822	860	852	871
Silicon	µg/l	50	2620	4160	4000	3430 N*	3490 N*	3410	3520	3480	3440
Sodium	µg/l	2500	2980	2100 J	2120 J	843 J	808 J	3720	3760	3810	3770
<b>TOC</b>											
Total Organic Carbon	mg/l	1	8.7	2	2.2	4.4	4.4	7.3	7.6	6.9	7

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-15	JP-W-15	JP-W-15	JP-W-15	JP-W-15	JP-W-15	JP-W-15	JP-W-15
Sample ID	Units	Reporting	SAIC10	SAIC10D	SAIC10DF	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12D
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0
Parameter	Sample Date		7/18/2008	7/18/2008	7/18/2008	7/18/2008	10/12/2008	10/12/2008	2/8/2009	2/8/2009
<b>Alkalinity</b>										
Alkalinity	mg/l	1	110	110	N/A	N/A	140	N/A	10	10
<b>Common Anions</b>										
Chloride	mg/l	0.1	1.2	1.2	1.3	1.3	1.3	1.5	1	1
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	4	0.1 U	0.13	0.14
Sulfate	mg/l	0.1	6.1	6.1	6.4	6.3	18	18	10	10
<b>Metals</b>										
Aluminum	µg/l	200	571	144 J	101 J	66.1 J	35 U	36.2 J	529	398
Calcium	µg/l	1000	35100	34400	33400	32700	47100 E	46600 E	5420	5380
Iron	µg/l	150	1450	319	106 J	170	92.4 J	45.4 J	1390	511
Magnesium	µg/l	250	8580	8530	8300	8010	9420 E	9300 E	1610	1610
Manganese	µg/l	5	7590	2710	177	161	427 E	417 E	286	290
Potassium	µg/l	250	2000	1920	2010	1840	3590	3600	1010	912
Silicon	µg/l	50	1280	549 U	455 U	420 U	1470	1470	3520 N*	3190 N*
Sodium	µg/l	2500	3280	3330	3320	3360	1060 J	1060 J	1460 J	1370 J
<b>TOC</b>										
Total Organic Carbon	mg/l	1	15	13	10	11	7.8	7.6	7.1	7.1

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-15	JP-W-15	JP-W-16	JP-W-16	JP-W-16	JP-W-16	JP-W-17	JP-W-17	JP-W-17
Sample ID	Units	Reporting Limit	SAIC12DF	SAIC12F	SAIC09	SAIC09F	SAIC12	SAIC12F	SAIC09	SAIC09D	SAIC09F
Sample Type			CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter Sample Date			2/8/2009	2/8/2009	4/24/2008	4/24/2008	2/8/2009	2/8/2009	4/27/2008	4/27/2008	4/27/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	N/A	N/A	2	N/A	1 U	N/A	64	64	N/A
<b>Common Anions</b>											
Chloride	mg/l	0.1	1	1	2.2	2.3	1.1	1.2	1.1	1	1.1
Nitrate	mg/l	0.1	0.13	0.13	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate	mg/l	0.1	10	10	12	12	12	12	7.8	7.9	9.5
<b>Metals</b>											
Aluminum	µg/l	200	97.8 J	229	1110	200 U	150 J	97 J	229	191 J	61.3 J
Calcium	µg/l	1000	5280	5340	2430	2340	2270	2400	15900	15300	15800
Iron	µg/l	150	135 J	208	1690	552	151	100 J	779	700	262
Magnesium	µg/l	250	1550	1570	767	701	732	769	7410	7120	7360
Manganese	µg/l	5	242	242	852	790	536	575	193	187	194
Potassium	µg/l	250	902	908	670	534	635	693	890	857	894
Silicon	µg/l	50	2760 N*	4200 N*	5370 J	5240 J	3260 N*	3390 N*	2520	2250	2110
Sodium	µg/l	2500	1380 J	1410 J	4210	4160	1940 J	2140 J	3730	3720	3530
<b>TOC</b>											
Total Organic Carbon	mg/l	1	7	6.8	11	11	7.4	7.2	11	11	11

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-17	JP-W-17	JP-W-17	JP-W-17	JP-W-17	JP-W-18	JP-W-18	JP-W-18	JP-W-18
Sample ID	Units	Reporting Limit	SAIC09FD	SAIC10	SAIC10F	SAIC12F	SAIC12	SAIC09	SAIC09F	SAIC12	SAIC12F
Sample Type			CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter Sample Date			4/27/2008	7/20/2008	7/20/2008	2/3/2009	2/3/2009	4/27/2008	4/27/2008	2/4/2009	2/4/2009
<b>Alkalinity</b>											
Alkalinity	mg/l	1	N/A	140	N/A	N/A	26	90	N/A	53	N/A
<b>Common Anions</b>											
Chloride	mg/l	0.1	1.1	0.85	0.93	1.3	1.3	1.2	1.1	1.2	1.2
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.12	0.13	0.1 U	0.1 U	0.1	0.1
Sulfate	mg/l	0.1	9.2	13	13	20	19	11	11	16	16
<b>Metals</b>											
Aluminum	µg/l	200	54.7 J	351	35 U	72.1 J	941	128 J	87.8 J	586	36 U
Calcium	µg/l	1000	15800	33800	34000	10400	10300	21800	22100	14000	13900
Iron	µg/l	150	311	440	8.2 U	82.9 J	859	219	95 J	424	36.3 J
Magnesium	µg/l	250	7370	15600	15700	5170	5150	10200	10400	6710	6660
Manganese	µg/l	5	203	770	505	34.7	45.5	71.8	54.7	13.9	10.6
Potassium	µg/l	250	882	721	657	622	622	720	758	564	513
Silicon	µg/l	50	2050	3730	3400	3260	4180	2450	2390	4150	3430
Sodium	µg/l	2500	3500	4110	4330	2990	2940	3390	3330	2560	2560
<b>TOC</b>											
Total Organic Carbon	mg/l	1	15	8.5	7	3.4	3.9	4.9	4.7	3.4	2.8

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-19	JP-W-19	JP-W-19	JP-W-19	JP-W-19	JP-W-19	JP-W-19	JP-W-19
Sample ID	Units	Reporting	SAIC09	SAIC09F	SAIC10	SAIC10D	SAIC10DF	SAIC10F	SAIC11	SAIC11F
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0
Parameter	Sample Date		4/25/2008	4/25/2008	7/18/2008	7/18/2008	7/18/2008	7/18/2008	10/12/2008	10/12/2008
<b>Alkalinity</b>										
Alkalinity	mg/l	1	120	N/A	150	150	N/A	N/A	160	N/A
<b>Common Anions</b>										
Chloride	mg/l	0.1	4.6	3.3	13	14	14	13	9.6	9.4
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate	mg/l	0.1	14	14	13	13	14	13	13	12
<b>Metals</b>										
Aluminum	µg/l	200	26.7 U	54.9 J	161 J	92.2 J	289	41.5 J	280	35 U
Calcium	µg/l	1000	30700	30200	39500	39100	38000	39400	40500 E	41300 E
Iron	µg/l	150	65.7 J	24.8 J	166	190	143 J	150 U	223	56.1 J
Magnesium	µg/l	250	12300	12100	16400	16100	15500	16200	15800 E	16200 E
Manganese	µg/l	5	18.4	16.2	239	245	177	180	140 E	161 E
Potassium	µg/l	250	885	901	1750	1650	1600	1750	3720	3810
Silicon	µg/l	50	2940	2760	3060	3110	3280	3030	4860 NE	3980 NE
Sodium	µg/l	2500	4480	4580	10000	9910	9580	9920	7180	7380
<b>TOC</b>										
Total Organic Carbon	mg/l	1	2.2	2.3	3	3.1	3.1	2.9	5.1	4.6

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-19	JP-W-19	JP-W-20	JP-W-20	JP-W-20	JP-W-20	JP-W-21	JP-W-21	JP-W-21
Sample ID	Units	Reporting	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC12	SAIC12F	SAIC10	SAIC10F	SAIC11
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter	Sample Date		2/10/2009	2/10/2009	4/27/2008	4/27/2008	2/4/2009	2/4/2009	7/17/2008	7/17/2008	10/20/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	41	N/A	72	N/A	52	N/A	120	N/A	160
<b>Common Anions</b>											
Chloride	mg/l	0.1	4	3.9	1.4	1.4	1.2	1.2	11	10	11
Nitrate	mg/l	0.1	0.18	0.17	0.1	0.11	0.29	0.33	0.1 U	0.1 UJ	0.1 U
Sulfate	mg/l	0.1	12	11	14	13	16	16	7.2	7.3	5.1
<b>Metals</b>											
Aluminum	µg/l	200	683	399	150 J	64.1 J	233	36 U	176 J	35 U	35 U
Calcium	µg/l	1000	13400	13400	21500	21200	16100	16000	38400 J	38300 J	45700
Iron	µg/l	150	512	216	147 J	30.9 J	257	76.1 J	137 J	33.4 J	30.3 J
Magnesium	µg/l	250	4900	4870	7960	7870	5890	5920	9940 J	9880 J	11800
Manganese	µg/l	5	23.5	15.6	5.5	1.1 J	4.1 J	0.95 J	52.5	30.6	76.8
Potassium	µg/l	250	861	881	708	729	553	541	3730	3790	4500
Silicon	µg/l	50	3990	3710	4840 D	4380	4080	3850	1470	1270	2560
Sodium	µg/l	2500	3270	3120	3580	3610	2330 J	2390 J	5830	5780	6030
<b>TOC</b>											
Total Organic Carbon	mg/l	1	5.4	4.8	2.8	2.2	2	1.9	4.4	4.2	8.4

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-21	JP-W-22	JP-W-22	JP-W-22	JP-W-22	JP-W-23	JP-W-23	JP-W-23
Sample ID	Units	Reporting	SAIC11F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC10	SAIC10F	SAIC11
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0
Parameter Sample Date			10/20/2008	7/18/2008	7/18/2008	10/9/2008	10/9/2008	7/28/2008	7/28/2008	10/20/2008
<b>Alkalinity</b>										
Alkalinity	mg/l	1	N/A	120	N/A	120	N/A	160	N/A	180
<b>Common Anions</b>										
Chloride	mg/l	0.1	11	11	11	9.2	9.4	22	23	17
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate	mg/l	0.1	5.1	7.8	8.1	5.5	5.7	18	19	13
<b>Metals</b>										
Aluminum	µg/l	200	35 U	81.4 J	35 U	114 J	98.1 J	200 U	200 U	35 U
Calcium	µg/l	1000	45700	34900	34200	36700	37400	43200	43800	44300
Iron	µg/l	150	14.7 J	150 U	150 U	135 J	22.8 J	15 U	150 J	869
Magnesium	µg/l	250	11700	9920	9720	10100	10400	17000	17400	18000
Manganese	µg/l	5	20.2	90.6	8.8 U	103 E	7.3 E	67.8	33.4	2040
Potassium	µg/l	250	4330	3700	3670	5320	5450	2110	2180	4710
Silicon	µg/l	50	2570	647 U	510 U	697	667	2950	2670	5280
Sodium	µg/l	2500	5880	5550	5490	5470	5540	17500	17900	12600
<b>TOC</b>										
Total Organic Carbon	mg/l	1	8.1	5	4.9	6.3	5.8	3.7	3.4	12

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-23	JP-W-24	JP-W-24	JP-W-24	JP-W-24	JP-W-25	JP-W-25	JP-W-26	JP-W-26
Sample ID	Units	Reporting Limit	SAIC11F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC10	SAIC10F	SAIC10	SAIC10F
Sample Type			CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0	0
Parameter	Sample Date		10/20/2008	7/28/2008	7/28/2008	10/8/2008	10/8/2008	7/28/2008	7/28/2008	7/28/2008	7/28/2008
<b>Alkalinity</b>											
Alkalinity	mg/l	1	N/A	120	N/A	130	N/A	120	N/A	110	N/A
<b>Common Anions</b>											
Chloride	mg/l	0.1	17	10	10	6.5	6.6	9.9	9.7	9.4	9.1
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.12	0.11	0.1 U	0.1 UJ
Sulfate	mg/l	0.1	13	7.2	7.2	4.4	4.3	7.2	7.1	7.2	7
<b>Metals</b>											
Aluminum	µg/l	200	35 U	216 U	80.7 J	47.8 J	70.5 J	144 J	42.6 J	179 J	56.2 J
Calcium	µg/l	1000	45000	37900	35600	41800	45300	38000	37700	32600	34300
Iron	µg/l	150	535	1350	67.8 J	27.1 J	15.4 U	216	150 U	129 J	150 U
Magnesium	µg/l	250	18400	9740 E	9110	9510	10300	9340	9360	8930	9390
Manganese	µg/l	5	2040	104	53.5	79.4	97	236	50.6	61.5	1.8 J
Potassium	µg/l	250	4770	4030	3360 J	5490	5990	3290 J	3350 J	3300 J	3440 J
Silicon	µg/l	50	5330	1120	918 J	1390	1760	1410 J	1260 J	423 J	332 J
Sodium	µg/l	2500	12800	6080	4470	4210 E	4630 E	4210	4250	3470	3690
<b>TOC</b>											
Total Organic Carbon	mg/l	1	12	3.8	3.9	6.3	6.2	3.5	3.6	5	4.3



**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-26	JP-W-26	JP-W-27	JP-W-27	JP-W-27	JP-W-27	JP-W-28	JP-W-28
Sample ID	Units	Reporting	SAIC11	SAIC11F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC10	SAIC10F
Sample Type		Limit	CREK	CREK	CREK	CREK	CREK	CREK	CREK	CREK
Depth (ft.)			0	0	0	0	0	0	0	0
Parameter	Sample Date		10/20/2008	10/20/2008	7/29/2008	7/29/2008	10/9/2008	10/9/2008	7/29/2008	7/29/2008
<b>Alkalinity</b>										
Alkalinity	mg/l	1	150	N/A	140	N/A	140	N/A	170	N/A
<b>Common Anions</b>										
Chloride	mg/l	0.1	10	10	8	8.1	6.3	6.4	1.6	1.5
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.15	0.1 U	0.1 U	0.1 U
Sulfate	mg/l	0.1	6.1	3.8	6.8	6.8	4.2	4.2	3.7	3.7
<b>Metals</b>										
Aluminum	µg/l	200	35 U	35 U	182 J	97.2 J	47.6 J	69 J	151 J	115 J
Calcium	µg/l	1000	41200	41800	40800	39100	45000	45500	35000	34500
Iron	µg/l	150	438	254	300	90.8 J	66.2 J	32.4 J	242	77.9 J
Magnesium	µg/l	250	10400	10500	9420	8920	10100	10200	18800	18500
Manganese	µg/l	5	1890	1920	185	126	187 E	150 E	394	217
Potassium	µg/l	250	7030	7180	3730 E	3560 E	3880	4080	1980 E	2000 E
Silicon	µg/l	50	1950	1810	1920	1760	2640	1330	4020	3650
Sodium	µg/l	2500	5050	5150	4260	4310	3650	3640	3140	3220
<b>TOC</b>										
Total Organic Carbon	mg/l	1	16	14	3.7	3.7	4.3	4.1	8.2	7.5

**Data Presentation: Nonradiological Data for Surface Water, Jefferson Proving Ground, Madison, Indiana**

Location ID			JP-W-28	JP-W-28
Sample ID	Units	Reporting	SAIC11	SAIC11F
Sample Type		Limit	CREK	CREK
Depth (ft.)			0	0
Parameter Sample Date			10/10/2008	10/10/2008

**Alkalinity**

Alkalinity	mg/l	1	85	N/A
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**Common Anions**

Chloride	mg/l	0.1	3.4	3.4
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Nitrate	mg/l	0.1	0.19	0.15
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Sulfate	mg/l	0.1	22	22
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**Metals**

Aluminum	µg/l	200	35 U	35 U
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Calcium	µg/l	1000	22100 J	22200 J
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Iron	µg/l	150	157 U	150 U
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Magnesium	µg/l	250	12300 J	12400 J
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Manganese	µg/l	5	85.5 J	74.7 J
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Potassium	µg/l	250	5710	5530
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Silicon	µg/l	50	1880 J	1890 J
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Sodium	µg/l	2500	1580 J	1580 J
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**TOC**

Total Organic Carbon	mg/l	1	8.7	8.8
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**Data Presentation: Nonradiological Data for Soil Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	Reporting Limit	JP-WK-002	JP-WKi-001	JP-WKi-002	JP-WLi-002	Kd Groundwater	Kd Rainwater	Kd Rainwater Spr2012
Sample ID			SAIC01	SAIC01	SAIC01	SAIC01	SAIC01	SAIC01	SAIC01
Sample Type			GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)			0	0	0	0	20	0	0
Parameter Sample Date			1/28/2010	10/27/2008	1/28/2010	4/8/2010	3/29/2012	3/26/2012	3/26/2012
<b>Alkalinity</b>									
Alkalinity	mg/l		N/A	N/A	N/A	N/A	N/A	N/A	3.5 B
		1	4.6 B	N/A	1 U	N/A	N/A	N/A	N/A
	mg/L	1	N/A	N/A	N/A	NF	N/A	N/A	N/A
<b>Anions</b>									
Chloride	mg/L		N/A	N/A	N/A	N/A	N/A	N/A	0.64
Nitrate	mg/L		N/A	N/A	N/A	N/A	N/A	N/A	0.28
Sulfate	mg/L		N/A	N/A	N/A	N/A	N/A	N/A	1
<b>Common Anions</b>									
Chloride	mg/l	0.1	N/A	0.14 B	0.377 J	N/A	N/A	N/A	N/A
	mg/L	0.1	N/A	N/A	N/A	NF	N/A	N/A	N/A
Nitrate	mg/l	0.1	N/A	0.1	1.18 J	N/A	N/A	N/A	N/A
	mg/L	0.1	N/A	N/A	N/A	NF	N/A	N/A	N/A
Sulfate	mg/l	0.1	N/A	0.92	3.72	N/A	N/A	N/A	N/A
	mg/L	0.1	N/A	N/A	N/A	NF	N/A	N/A	N/A
<b>Metals</b>									
Aluminum	µg/l		N/A	N/A	N/A	N/A	N/A	N/A	30 U
		200	N/A	N/A	184	N/A	N/A	N/A	N/A
	µG/L	200	N/A	N/A	N/A	NF	N/A	N/A	N/A
Calcium	µg/l		N/A	N/A	N/A	N/A	N/A	N/A	2930
		1000	N/A	N/A	1950	N/A	N/A	N/A	N/A
	µG/L	1000	N/A	N/A	N/A	NF	N/A	N/A	N/A
Iron	µg/l		N/A	N/A	N/A	N/A	N/A	N/A	491
		150	N/A	N/A	749	N/A	N/A	N/A	N/A
	µG/L	150	N/A	N/A	N/A	NF	N/A	N/A	N/A
Magnesium	µg/l		N/A	N/A	N/A	N/A	N/A	N/A	228
		250	N/A	N/A	1250 U	N/A	N/A	N/A	N/A
	µG/L	250	N/A	N/A	N/A	NF	N/A	N/A	N/A
Manganese	µg/l		N/A	N/A	N/A	N/A	N/A	N/A	12.2
		5	N/A	N/A	17	N/A	N/A	N/A	N/A
	µG/L	5	N/A	N/A	N/A	NF	N/A	N/A	N/A
Potassium	µg/l		N/A	N/A	N/A	N/A	N/A	N/A	423
		250	N/A	N/A	1250 U	N/A	N/A	N/A	N/A
	µG/L	250	N/A	N/A	N/A	NF	N/A	N/A	N/A
Silicon	µg/l		N/A	N/A	N/A	N/A	N/A	N/A	128 B
		50	N/A	N/A	713 J	N/A	N/A	N/A	N/A
	µG/L	50	N/A	N/A	N/A	NF	N/A	N/A	N/A
Sodium	µg/l		N/A	N/A	N/A	N/A	N/A	N/A	323
		2500	N/A	N/A	289 J	N/A	N/A	N/A	N/A
	µG/L	2500	N/A	N/A	N/A	NF	N/A	N/A	N/A
<b>pH</b>									
pH			6.3	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>									
Total Organic Carbon	mg/l		N/A	N/A	N/A	N/A	N/A	N/A	3.5
		1	N/A	N/A	1.18 J	N/A	N/A	N/A	N/A
	mg/L	1	N/A	N/A	N/A	NF	N/A	N/A	N/A
<b>Total Carbon</b>									
Total Carbon	mg/L		N/A	N/A	N/A	N/A	N/A	N/A	NF
Total Inorganic Carbon	mg/L		N/A	N/A	N/A	N/A	N/A	N/A	0.55 B

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KAC-011	JP-KAC-011	JP-KAC-011	JP-KAC-011	JP-KAC-011	JP-KAC-011	JP-KAC-011	JP-KAC-011
Sample ID		SAIC01R_AGW03	SAIC01R_AGW07	SAIC01R_AGW10	SAIC01R_AGW14	SAIC01R_AGW21	SAIC01R_AGW28	SAIC01R_AGW35	SAIC01R_AGW45
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	13.4 U	14	13.5	14.9	13.3	13.7	13.4	13.7
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.066 U	0.067	0.067	0.071	0.064 U	0.065	0.065	0.067 U
Uranium 238	µg/L	13.3 U	13.9	13.4	14.8	13.2 U	13.6	13.3	13.6 U

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KAC-011	JP-KAC-012	JP-KAC-012	JP-KAC-012	JP-KAC-012	JP-KAC-012	JP-KAC-012	JP-KAC-012
Sample ID		SAIC01R_AGW60	SAIC01R_AGW03	SAIC01R_AGW07	SAIC01R_AGW10	SAIC01R_AGW14	SAIC01R_AGW21	SAIC01R_AGW28	SAIC01R_AGW35
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012
<b>Kd Desorption Uranium</b>									
Total Uranium	µg/L	<b>14.1</b>	13.3 U	<b>14.4</b>	<b>13.2</b>	<b>14.8</b>	<b>13.5</b>	<b>13.8</b>	<b>14</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	<b>0.07</b>	0.068 U	<b>0.072</b>	<b>0.07</b>	<b>0.074</b>	0.068 U	<b>0.067</b>	<b>0.071</b>
Uranium 238	µg/L	<b>14</b>	13.2 U	<b>14.3</b>	<b>13.1</b>	<b>14.7</b>	13.4 U	<b>13.7</b>	<b>13.9</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KAC-012	JP-KAC-012	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KAC-013
Sample ID		SAIC01R_AGW45	SAIC01R_AGW60	SAIC01R_AGW03	SAIC01R_AGW07	SAIC01R_AGW10	SAIC01R_AGW14	SAIC01R_AGW21	SAIC01R_AGW28
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>14.3</b>	<b>15.5</b>	14.4 U	<b>14.1</b>	<b>13.4</b>	<b>14.4</b>	<b>13.5</b>	<b>13.3</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.076 U	<b>0.077</b>	0.073 U	<b>0.067</b>	<b>0.067</b>	<b>0.07</b>	0.064 U	<b>0.061</b>
Uranium 238	µg/L	14.2 U	<b>15.4</b>	14.3 U	<b>14</b>	<b>13.3</b>	<b>14.3</b>	13.4 U	<b>13.2</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KAC-013	JP-KAC-013	JP-KAC-013	JP-KCR-011	JP-KCR-011	JP-KCR-011	JP-KCR-011	JP-KCR-011
Sample ID		SAIC01R_AGW35	SAIC01R_AGW45	SAIC01R_AGW60	SAIC01R_AGW03	SAIC01R_AGW07	SAIC01R_AGW10	SAIC01R_AGW14	SAIC01R_AGW180
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>13.5</b>	<b>14</b>	<b>13.7</b>	13.1 U	<b>11.9</b>	<b>13.2</b>	<b>14.7</b>	<b>7.1</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	<b>0.067</b>	0.068 U	<b>0.068</b>	0.079 U	<b>0.069</b>	<b>0.08</b>	<b>0.087</b>	<b>0.048 J</b>
Uranium 238	µg/L	<b>13.4</b>	13.9 U	<b>13.6</b>	13.0 U	<b>11.8</b>	<b>13.1</b>	<b>14.6</b>	<b>7.1</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KCR-011	JP-KCR-011	JP-KCR-011	JP-KCR-011	JP-KCR-011	JP-KCR-011	JP-KCR-012	JP-KCR-012
Sample ID		SAIC01R_AGW21	SAIC01R_AGW28	SAIC01R_AGW35	SAIC01R_AGW45	SAIC01R_AGW60	SAIC01R_AGW90	SAIC01R_AGW03	SAIC01R_AGW07
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/28/2012	3/28/2012

**Kd Desorption Uranium**

Total Uranium	µg/L	<b>9.9</b>	<b>12.3</b>	<b>12</b>	<b>10.3</b>	<b>10.4</b>	<b>7.4</b>	18.5 U	<b>19.8</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.058 U	<b>0.071</b>	<b>0.071</b>	0.062 U	<b>0.066</b>	<b>0.045 J</b>	0.10 U	<b>0.11</b>
Uranium 238	µg/L	9.8 U	<b>12.2</b>	<b>11.9</b>	10.2 U	<b>10.3</b>	<b>7.4</b>	18.4 U	<b>19.7</b>



**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012	JP-KCR-012
Sample ID		SAIC01R_AGW10	SAIC01R_AGW14	SAIC01R_AGW180	SAIC01R_AGW21	SAIC01R_AGW28	SAIC01R_AGW35	SAIC01R_AGW45	SAIC01R_AGW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>18.8</b>	<b>21</b>	<b>17.4</b>	<b>18.6</b>	<b>18.9</b>	<b>18.3</b>	<b>17.2</b>	<b>18.7</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	<b>0.11</b>	<b>0.12</b>	<b>0.1</b>	0.11 U	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.11</b>
Uranium 238	µg/L	<b>18.7</b>	<b>20.9</b>	<b>17.3</b>	18.5 U	<b>18.8</b>	<b>18.2</b>	<b>17.1</b>	<b>18.6</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KCR-012	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005
Sample ID		SAIC01R_AGW90	SAIC01DR_AGW03	SAIC01DR_AGW07	SAIC01DR_AGW10	SAIC01DR_AGW14	SAIC01DR_AGW180	SAIC01DR_AGW21
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>20.4</b>	10.6 U	<b>10.7</b>	<b>9.9</b>	<b>10</b>	<b>8.6</b>	<b>8.3</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	<b>0.12</b>	0.055 U	<b>0.054</b>	<b>0.053</b>	<b>0.051</b>	<b>0.05 J</b>	0.046 U
Uranium 238	µg/L	<b>20.3</b>	10.5 U	<b>10.6</b>	<b>9.8</b>	<b>9.9</b>	<b>8.5</b>	8.3 U

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005
Sample ID		SAIC01DR_AGW28	SAIC01DR_AGW35	SAIC01DR_AGW45	SAIC01DR_AGW60	SAIC01DR_AGW90	SAIC01R_AGW03	SAIC01R_AGW07
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0
Parameter Sample Date		3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	7.9	8.2	7.4	7.1	7	10.5 U	10.2
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.04 J	0.043 J	0.039 J	0.039 J	0.038 J	0.055 U	0.052
Uranium 238	µg/L	7.9	8.2	7.4	7.1	7	10.4 U	10.1

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-KGR-005	JP-PNAC-001
Sample ID		SAIC01R_AGW10	SAIC01R_AGW14	SAIC01R_AGW21	SAIC01R_AGW28	SAIC01R_AGW35	SAIC01R_AGW45	SAIC01R_AGW60	SAIC05_DRW03
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/30/2012
<b><i>Kd Desorption Uranium</i></b>									
Total Uranium	µg/L	<b>10.2</b>	<b>10.3</b>	<b>7.7</b>	<b>7.7</b>	<b>8.4</b>	<b>7.5</b>	<b>7.6</b>	<b>369</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	<b>0.0024 J</b>
Uranium 235	µg/L	<b>0.055</b>	<b>0.054</b>	0.043 U	<b>0.04 J</b>	<b>0.044 J</b>	0.039 U	<b>0.04 J</b>	<b>0.78 J</b>
Uranium 238	µg/L	<b>10.1</b>	<b>10.2</b>	7.7 U	<b>7.7</b>	<b>8.4</b>	7.5 U	<b>7.6</b>	<b>368</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNAC-001	JP-PNCR-001
Sample ID		SAIC05_DRW07	SAIC05_DRW10	SAIC05_DRW14	SAIC05_DRW21	SAIC05_DRW28	SAIC05_DRW35	SAIC05_DRW45	SAIC05_DRW60	SAIC05_DRW03
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	443	371	291	286	322	320	307	297	3360
Uranium 234	µg/L	0.0028 J	0.0021 J	0.05 U	0.05 U	0.0023 J	0.0022 J	0.05 U	0.0021 J	0.022 J
Uranium 235	µg/L	0.85	0.70 J	0.56	0.56	0.66	0.64	0.61	0.58	6.4
Uranium 238	µg/L	442	370 J	291	285	321	320	306	296	3360

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001	JP-PNCR-001
Sample ID		SAIC05_DRW07	SAIC05_DRW10	SAIC05_DRW14	SAIC05_DRW180	SAIC05_DRW21	SAIC05_DRW28	SAIC05_DRW35	SAIC05_DRW45
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>4590</b>	<b>4060</b>	<b>4460</b>	<b>12200</b>	<b>4750</b>	<b>4410</b>	<b>4620</b>	<b>4860</b>
Uranium 234	µg/L	<b>0.028 J</b>	<b>0.025 J</b>	<b>0.028 J</b>	<b>0.066 J</b>	<b>0.032 J</b>	<b>0.036 J</b>	<b>0.029 J</b>	<b>0.03 J</b>
Uranium 235	µg/L	<b>8.4</b>	<b>8.7 J</b>	<b>8.4</b>	<b>20.5</b>	<b>8.8</b>	<b>8.6</b>	<b>9</b>	<b>9.3</b>
Uranium 238	µg/L	<b>4580</b>	<b>4040 J</b>	<b>4450</b>	<b>12200</b>	<b>4740</b>	<b>4400</b>	<b>4610</b>	<b>4850</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-PNCR-001	JP-PNCR-001	JP-PNGR-001	JP-PNGR-001	JP-PNGR-001	JP-PNGR-001	JP-PNGR-001	JP-PNGR-001
Sample ID		SAIC05_DRW60	SAIC05_DRW90	SAIC05_DRW03	SAIC05_DRW07	SAIC05_DRW10	SAIC05_DRW14	SAIC05_DRW180	SAIC05_DRW21
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	5000	5290	35600	44500	62400	80700	304000	139000
Uranium 234	µg/L	0.036 J	0.032 J	0.23	0.33	0.39	0.56	1.6 J	0.82 J
Uranium 235	µg/L	9.6	11.1	65.1	85.9	127 J	155	532	269
Uranium 238	µg/L	4990	5280	35500	44400	62300 J	80600	304000	139000

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-PNGR-001	JP-PNGR-001	JP-PNGR-001	JP-PNGR-001	JP-PNGR-001	JP-SAC-001	JP-SAC-001	JP-SAC-001
Sample ID		SAIC05_DRW28	SAIC05_DRW35	SAIC05_DRW45	SAIC05_DRW60	SAIC05_DRW90	SAIC05D_ARW07	SAIC05_ARW03	SAIC05_ARW07
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/28/2012	3/29/2012	3/29/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	111000	54500	49300	122000	167000	0.089 B	0.19 B	0.09 B
Uranium 234	µg/L	0.87 J	10 U	10 U	0.8 J	1	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	216	107	95.7	241	344	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	111000	54300	49200	121000	166000	0.089	0.19	0.09



**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001
Sample ID		SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05D_ARW03
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012
<b><i>Kd Desorption Uranium</i></b>									
Total Uranium	µg/L	<b>0.076 B</b>	<b>0.068 B</b>	<b>0.058 B</b>	<b>0.062 B</b>	<b>0.061 B</b>	<b>0.056 B</b>	<b>0.061 B</b>	<b>0.18 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.076</b>	<b>0.068</b>	<b>0.058</b>	<b>0.062</b>	<b>0.061</b>	<b>0.056</b>	<b>0.061</b>	<b>0.18</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001	JP-SAC-001
Sample ID		SAIC05D_ARW10	SAIC05D_ARW14	SAIC05D_ARW21	SAIC05D_ARW28	SAIC05D_ARW35	SAIC05D_ARW45	SAIC05D_ARW60	SAIC05D_ARW90
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.079 B</b>	<b>0.069 B</b>	<b>0.064 B</b>	<b>0.063 B</b>	<b>0.058 B</b>	<b>0.063 B</b>	<b>0.071 B</b>	<b>0.08 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.079</b>	<b>0.069</b>	<b>0.064</b>	<b>0.063</b>	<b>0.058</b>	<b>0.063</b>	<b>0.071</b>	0.08 U

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-002	JP-SAC-002	JP-SAC-002	JP-SAC-002	JP-SAC-002	JP-SAC-002	JP-SAC-002	JP-SAC-002	JP-SAC-002
Sample ID		SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter	Sample Date	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.99</b>	<b>0.49</b>	<b>0.5</b>	<b>0.4</b>	<b>0.32</b>	<b>0.26</b>	<b>0.27</b>	<b>0.25</b>	<b>0.26</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.0056 U	0.05 U	0.0034 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.98</b>	<b>0.49</b>	<b>0.5</b>	<b>0.4</b>	<b>0.32</b>	<b>0.26</b>	<b>0.27</b>	<b>0.25</b>	<b>0.26</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003	JP-SAC-003
Sample ID		SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.048 B</b>	<b>0.038 B</b>	<b>0.060 B</b>	<b>0.063 B</b>	<b>0.039 B</b>	<b>0.029 B</b>	<b>0.031 B</b>	<b>0.031 B</b>	<b>0.034 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.048 J</b>	<b>0.038 J</b>	<b>0.06</b>	<b>0.063</b>	<b>0.039 J</b>	<b>0.029 J</b>	<b>0.031 J</b>	<b>0.031 J</b>	0.034 U

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-004	JP-SAC-004	JP-SAC-004	JP-SAC-004	JP-SAC-004	JP-SAC-004	JP-SAC-004	JP-SAC-004	JP-SAC-004
Sample ID		SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.072 B</b>	<b>0.059 B</b>	<b>0.058 B</b>	<b>0.060 B</b>	<b>0.056 B</b>	<b>0.055 B</b>	<b>0.066 B</b>	<b>0.061 B</b>	<b>0.075 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.072</b>	<b>0.059</b>	<b>0.058</b>	<b>0.06</b>	<b>0.056</b>	<b>0.055</b>	<b>0.066</b>	<b>0.061</b>	<b>0.075</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005	JP-SAC-005
Sample ID		SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012
<b><i>Kd Desorption Uranium</i></b>										
Total Uranium	µg/L	<b>0.051 B</b>	<b>0.044 B</b>	0.040 U	<b>0.042 B</b>	<b>0.035 B</b>	<b>0.04 B</b>	<b>0.042 B</b>	<b>0.039 B</b>	<b>0.045 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.051</b>	<b>0.044 J</b>	0.040 U	<b>0.042 J</b>	<b>0.035 J</b>	<b>0.04 J</b>	<b>0.042 J</b>	<b>0.039 J</b>	0.045 U

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-006	JP-SAC-006	JP-SAC-006	JP-SAC-006	JP-SAC-006	JP-SAC-006	JP-SAC-006	JP-SAC-006	JP-SAC-006
Sample ID		SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.19 B</b>	<b>0.12 B</b>	<b>0.11 B</b>	<b>0.084 B</b>	<b>0.079 B</b>	<b>0.076 B</b>	<b>0.083 B</b>	<b>0.087 B</b>	<b>0.087 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.19</b>	<b>0.12</b>	<b>0.11</b>	<b>0.084</b>	<b>0.079</b>	<b>0.076</b>	<b>0.083</b>	<b>0.087</b>	<b>0.087</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007	JP-SAC-007
Sample ID		SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.46</b>	<b>0.22 B</b>	<b>0.23 B</b>	<b>0.16 B</b>	<b>0.14 B</b>	<b>0.15 B</b>	<b>0.14 B</b>	<b>0.15 B</b>	<b>0.14 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.46</b>	<b>0.22</b>	<b>0.23</b>	<b>0.16</b>	<b>0.14</b>	<b>0.15</b>	<b>0.14</b>	<b>0.15</b>	<b>0.14</b>



**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008	JP-SAC-008
Sample ID		SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012
<b><i>Kd Desorption Uranium</i></b>										
Total Uranium	µg/L	<b>0.084 B</b>	<b>0.064 B</b>	<b>0.075 B</b>	<b>0.065 B</b>	<b>0.05 B</b>	<b>0.048 B</b>	<b>0.058 B</b>	<b>0.055 B</b>	<b>0.052 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.084</b>	<b>0.064</b>	<b>0.075</b>	<b>0.065</b>	<b>0.05</b>	<b>0.048 J</b>	<b>0.058</b>	<b>0.055</b>	0.052 U

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009	JP-SAC-009
Sample ID		SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	0.024 U	<b>0.028 B</b>	0.034 U	<b>0.041 B</b>	<b>0.032 B</b>	<b>0.038 B</b>	<b>0.029 B</b>	<b>0.032 B</b>	<b>0.041 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	0.024 U	<b>0.028 J</b>	0.034 U	<b>0.041 J</b>	<b>0.032 J</b>	<b>0.038 J</b>	<b>0.029 J</b>	<b>0.032 J</b>	0.041 U

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001
Sample ID		SAIC05D_ARW07	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.061 B</b>	<b>0.11 B</b>	<b>0.085 B</b>	<b>0.070 B</b>	<b>0.062 B</b>	<b>0.021 B</b>	<b>0.039 B</b>	<b>0.035 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.061</b>	<b>0.11</b>	<b>0.085</b>	<b>0.07</b>	<b>0.062</b>	<b>0.021 J</b>	<b>0.039 J</b>	<b>0.035 J</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001	JP-SCR-001
Sample ID		SAIC05_ARW45	SAIC05_ARW60	SAIC05D_ARW03	SAIC05D_ARW10	SAIC05D_ARW14	SAIC05D_ARW21	SAIC05D_ARW28	SAIC05D_ARW35
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012

**Kd Desorption Uranium**

Total Uranium	µg/L	<b>0.041 B</b>	<b>0.044 B</b>	<b>0.14 B</b>	<b>0.066 B</b>	<b>0.054 B</b>	<b>0.042 B</b>	<b>0.031 B</b>	<b>0.03 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.041 J</b>	<b>0.044 J</b>	<b>0.14</b>	<b>0.066</b>	<b>0.054</b>	<b>0.042 J</b>	<b>0.031 J</b>	<b>0.03 J</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-001	JP-SCR-001	JP-SCR-002	JP-SCR-002	JP-SCR-002	JP-SCR-002	JP-SCR-002	JP-SCR-002
Sample ID		SAIC05D_ARW45	SAIC05D_ARW60	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.027 B</b>	<b>0.03 B</b>	<b>0.12 B</b>	<b>0.06 B</b>	<b>0.060 B</b>	<b>0.055 B</b>	<b>0.041 B</b>	<b>0.029 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.027 J</b>	<b>0.03 J</b>	<b>0.12</b>	<b>0.06</b>	<b>0.06</b>	<b>0.055</b>	<b>0.041 J</b>	<b>0.029 J</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-002	JP-SCR-002	JP-SCR-002	JP-SCR-003	JP-SCR-003	JP-SCR-003	JP-SCR-003	JP-SCR-003	JP-SCR-003
Sample ID		SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012
<b><i>Kd Desorption Uranium</i></b>										
Total Uranium	µg/L	<b>0.028 B</b>	<b>0.028 B</b>	<b>0.032 B</b>	<b>0.048 B</b>	<b>0.037 B</b>	<b>0.037 B</b>	<b>0.049 B</b>	<b>0.033 B</b>	<b>0.027 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.028 J</b>	<b>0.028 J</b>	<b>0.032 J</b>	<b>0.048 J</b>	<b>0.037 J</b>	<b>0.037 J</b>	<b>0.049 J</b>	<b>0.033 J</b>	<b>0.027 J</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-003	JP-SCR-003	JP-SCR-003	JP-SCR-004	JP-SCR-004	JP-SCR-004	JP-SCR-004	JP-SCR-004	JP-SCR-004
Sample ID		SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.028 B</b>	<b>0.025 B</b>	<b>0.043 B</b>	<b>1.1</b>	<b>1.2</b>	<b>0.88</b>	<b>1.2</b>	<b>1.6</b>	<b>1.2</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.0059 U	<b>0.0063 J</b>	0.0053 U	<b>0.0055 J</b>	<b>0.0076 J</b>	<b>0.007 J</b>
Uranium 238	µg/L	<b>0.028 J</b>	<b>0.025 J</b>	<b>0.043 J</b>	<b>1.1</b>	<b>1.2</b>	<b>0.88</b>	<b>1.2</b>	<b>1.6</b>	<b>1.2</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-004	JP-SCR-004	JP-SCR-004	JP-SCR-004	JP-SCR-005	JP-SCR-005	JP-SCR-005	JP-SCR-005	JP-SCR-005
Sample ID		SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW90	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012
<b><i>Kd Desorption Uranium</i></b>										
Total Uranium	µg/L	1.5	2.5	2.6	3.4	0.019 U	0.017 B	0.022 B	0.024 B	0.022 B
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.0083 U	0.013 J	0.015 J	0.019 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	1.5	2.5	2.6	3.4	0.019 U	0.017 J	0.022 J	0.024 J	0.022 J



**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-005	JP-SCR-005	JP-SCR-005	JP-SCR-005	JP-SCR-006	JP-SCR-006	JP-SCR-006	JP-SCR-006	JP-SCR-006
Sample ID		SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.018 B</b>	<b>0.022 B</b>	<b>0.02 B</b>	<b>0.017 B</b>	0.028 U	<b>0.024 B</b>	<b>0.023 B</b>	<b>0.027 B</b>	<b>0.031 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.018 J</b>	<b>0.022 J</b>	<b>0.02 J</b>	<b>0.017 J</b>	0.028 U	<b>0.024 J</b>	0.023 U	<b>0.027 J</b>	<b>0.031 J</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-006	JP-SCR-006	JP-SCR-006	JP-SCR-006	JP-SCR-007	JP-SCR-007	JP-SCR-007	JP-SCR-007	JP-SCR-007
Sample ID		SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012
<b><i>Kd Desorption Uranium</i></b>										
Total Uranium	µg/L	<b>0.038 B</b>	<b>0.03 B</b>	<b>0.026 B</b>	<b>0.027 B</b>	0.036 U	<b>0.023 B</b>	0.026 U	<b>0.021 B</b>	<b>0.018 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.038 J</b>	<b>0.03 J</b>	<b>0.026 J</b>	<b>0.027 J</b>	0.036 U	<b>0.023 J</b>	0.026 U	<b>0.021 J</b>	<b>0.018 J</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-007	JP-SCR-007	JP-SCR-007	JP-SCR-007	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-008
Sample ID		SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter	Sample Date	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012
<b><i>Kd Desorption Uranium</i></b>										
Total Uranium	µg/L	<b>0.018 B</b>	<b>0.017 B</b>	<b>0.023 B</b>	<b>0.023 B</b>	<b>0.047 B</b>	<b>0.032 B</b>	0.040 U	<b>0.039 B</b>	<b>0.028 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.018 J</b>	<b>0.017 J</b>	<b>0.023 J</b>	<b>0.023 J</b>	<b>0.047 J</b>	<b>0.032 J</b>	0.040 U	<b>0.039 J</b>	<b>0.028 J</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-008	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SCR-009
Sample ID		SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter	Sample Date	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/28/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.028 B</b>	<b>0.033 B</b>	<b>0.035 B</b>	<b>0.02 B</b>	0.027 U	<b>0.022 B</b>	0.024 U	<b>0.029 B</b>	<b>0.024 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.028 J</b>	<b>0.033 J</b>	<b>0.035 J</b>	<b>0.02 J</b>	0.027 U	<b>0.022 J</b>	0.024 U	<b>0.029 J</b>	<b>0.024 J</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SCR-009	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001
Sample ID		SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW03	SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/28/2012	3/28/2012	3/28/2012	3/28/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.022 B</b>	<b>0.026 B</b>	<b>0.023 B</b>	<b>0.026 B</b>	<b>0.093 B</b>	<b>0.072 B</b>	<b>0.064 B</b>	<b>0.063 B</b>	<b>0.06 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.022 J</b>	<b>0.026 J</b>	<b>0.023 J</b>	<b>0.026 J</b>	<b>0.093</b>	<b>0.072</b>	<b>0.064</b>	<b>0.063</b>	<b>0.06</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001
Sample ID		SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW90	SAIC05D_ARW03	SAIC05D_ARW07	SAIC05D_ARW10
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.054 B</b>	<b>0.098 B</b>	<b>0.068 B</b>	<b>0.07 B</b>	<b>0.061 B</b>	<b>0.14 B</b>	<b>0.088 B</b>	<b>0.075 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.054</b>	<b>0.098</b>	<b>0.068</b>	<b>0.07</b>	0.061 U	<b>0.14</b>	<b>0.088</b>	<b>0.075</b>

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-001	JP-SGR-002
Sample ID		SAIC05D_ARW14	SAIC05D_ARW21	SAIC05D_ARW28	SAIC05D_ARW35	SAIC05D_ARW45	SAIC05D_ARW60	SAIC05D_ARW90	SAIC05_ARW03
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.074 B</b>	<b>0.068 B</b>	<b>0.06 B</b>	<b>0.076 B</b>	<b>0.066 B</b>	<b>0.065 B</b>	<b>0.063 B</b>	0.032 U
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.074</b>	<b>0.068</b>	<b>0.06</b>	<b>0.076</b>	<b>0.066</b>	<b>0.065</b>	0.063 U	0.032 U

**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SGR-002	JP-SGR-002	JP-SGR-002	JP-SGR-002	JP-SGR-002	JP-SGR-002	JP-SGR-002	JP-SGR-002	JP-SGR-003
Sample ID		SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60	SAIC05_ARW03
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0	0
Parameter Sample Date		3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/30/2012	3/29/2012
<b><i>Kd Desorption Uranium</i></b>										
Total Uranium	µg/L	<b>0.033 B</b>	<b>0.033 B</b>	<b>0.036 B</b>	<b>0.039 B</b>	<b>0.033 B</b>	<b>0.038 B</b>	<b>0.036 B</b>	<b>0.029 B</b>	<b>0.11 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.033 J</b>	<b>0.033 J</b>	<b>0.036 J</b>	<b>0.039 J</b>	<b>0.033 J</b>	<b>0.038 J</b>	<b>0.036 J</b>	<b>0.029 J</b>	<b>0.11</b>



**Data Presentation: Kd Batch Testing Data for Leachant Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	Units	JP-SGR-003	JP-SGR-003	JP-SGR-003	JP-SGR-003	JP-SGR-003	JP-SGR-003	JP-SGR-003	JP-SGR-003
Sample ID		SAIC05_ARW07	SAIC05_ARW10	SAIC05_ARW14	SAIC05_ARW21	SAIC05_ARW28	SAIC05_ARW35	SAIC05_ARW45	SAIC05_ARW60
Sample Type		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
Depth (ft.)		0	0	0	0	0	0	0	0
Parameter Sample Date		3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012	3/29/2012

***Kd Desorption Uranium***

Total Uranium	µg/L	<b>0.025 B</b>	<b>0.025 B</b>	<b>0.021 B</b>	<b>0.05 B</b>	<b>0.012 B</b>	<b>0.015 B</b>	0.25 U	<b>0.014 B</b>
Uranium 234	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 235	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Uranium 238	µg/L	<b>0.025 J</b>	<b>0.025 J</b>	<b>0.021 J</b>	<b>0.05</b>	<b>0.012 J</b>	<b>0.015 J</b>	<b>0.011 J</b>	<b>0.014 J</b>

## Data Presentation: Soil Characteristics for Modeling, Jefferson Proving Ground, Madison, Indiana

Location ID Sample ID Sample Type Depth (ft.) Parameter	Units	Reporting Limit	JPG-D-04mod SAIC01 SEDI 0.0 03/31/2012	JPG-D-04mod SAIC02 SEDI 0.2 03/31/2012	JPG-D-04mod SAIC03 SEDI 0.5 03/31/2012	JPG-D-04mod SAIC04 SEDI 0.8 03/31/2012	JPG-DU- 003mod SAIC01 SEDI 0.0	JPG-DU-003mod SAIC01D SEDI 0.0 04/01/2012	JPG-DU-003mod SAIC02 SEDI 1.5 04/01/2012	JPG-DU-007mod SAIC01 SEDI 0.0 03/31/2012
<b>Metals</b>										
Iron	mg/kg		7830 NE*	7520 NE*	8300 NE*	8980 NE*	10400 NE*	11000 NE*	12800 NE*	16500 NE*
Manganese	mg/kg		356 NE*	281 NE*	191 NE*	432 NE*	939 NE*	994 NE*	1100 NE*	1210 NE*
<b>Moisture Content</b>										
Moisture	%		25.2	21.5	21.1	21.1	32.1	32.8	39	20.8
<b>Particle Size Distribution</b>										
Clay	%		9.2	7	8.5	13.3	21.1	19.3	9.5	19.9
Coarse Sand	%		0.8	0.2	0.3	0	2.3	1.5	2	0
Fine Sand	%		57.3	67.8	63.2	52.1	32.7	32.2	49.6	41.6
Gravel	%		0	0.6	0	0	3.3	1.9	1.7	0
Hydrometer Reading 1 - Percent Finer	% Passing		22.9	17.3	20.4	29.7	44.3	41.7	19.3	39
Hydrometer Reading 2 - Percent Finer	% Passing		18.6	14.3	17.2	25.2	37.5	36.4	17	34.9
Hydrometer Reading 3 - Percent Finer	% Passing		13.5	10.7	12.8	18.8	29.4	28.5	14	28.1
Hydrometer Reading 4 - Percent Finer	% Passing		11.3	8.3	10.7	16.1	24	23.3	11	24
Hydrometer Reading 5 - Percent Finer	% Passing		9.2	7	8.5	13.3	21.1	19.3	9.5	19.9
Hydrometer Reading 6 - Percent Finer	% Passing		6.9	5.2	6.3	10.5	14.4	13.9	6.4	15.7
Hydrometer Reading 7 - Percent Finer	% Passing		5.5	3.9	4.7	7.8	11.5	11.2	4.9	14.3
Medium Sand	%		4.5	3.5	2.5	2	6.9	6.9	23.2	6.3
Sand	%		62.6	71.5	66	54.1	41.9	40.6	74.8	47.9
Sieve Size #10 - Percent Finer	% Passing		99.2	99.2	99.7	100	94.4	96.6	96.3	100
Sieve Size #100 - Percent Finer	% Passing		49.3	39.4	46.3	60.3	63.1	66.1	28.8	63.1
Sieve Size #20 - Percent Finer	% Passing		98.5	98.6	99	99.4	92.5	94.5	90.6	97.9
Sieve Size #200 - Percent Finer	% Passing		37.4	27.9	34	45.9	54.8	57.5	23.5	52.1
Sieve Size #4 - Percent Finer	% Passing		100	99.4	100	100	96.7	98.1	98.3	100
Sieve Size #40 - Percent Finer	% Passing		94.7	95.7	97.2	98	87.5	89.7	73.1	93.7
Sieve Size #60 - Percent Finer	% Passing		75.3	70.2	76.5	85.3	75.5	78.2	44.8	80.7
Sieve Size #80 - Percent Finer	% Passing		57.9	48.6	55.7	69.3	67.4	70.3	33.1	69.4
Sieve Size 0.375 inch - Percent Finer	% Passing		100	100	100	100	100	100	100	100
Sieve Size 0.75 inch - Percent Finer	% Passing		100	100	100	100	100	100	100	100
Sieve Size 1 inch - Percent Finer	% Passing		100	100	100	100	100	100	100	100
Sieve Size 1.5 inch - Percent Finer	% Passing		100	100	100	100	100	100	100	100
Sieve Size 2 inch - Percent Finer	% Passing		100	100	100	100	100	100	100	100
Sieve Size 3 inch - Percent Finer	% Passing		100	100	100	100	100	100	100	100
Silt	%		28.2	20.9	25.5	32.6	33.7	38.2	14	32.2
<b>Total/Isotopic Uranium</b>										
Total Uranium	mg/kg		1	0.53	0.45	0.55	0.95	1	0.63	0.86
Uranium 234	mg/kg		0.0067 U	0.0064 U	0.0063 U	0.0063 U	0.0074 U	0.0074 U	0.0082 U	0.0063 U
Uranium 235	mg/kg		0.0034 J	0.0064 U	0.0063 U	0.0063 U	0.0061 J	0.0064 J	0.0036 J	0.0044 J
Uranium 238	mg/kg		1 E	0.52 E	0.45 E	0.55 E	0.95 E	1 E	0.63 E	0.85 E

## Data Presentation: Soil Characteristics for Modeling, Jefferson Proving Ground, Madison, Indiana

Location ID	JPG-DU-007mod	JPG-DU-007mod
Sample ID	SAIC02	SAIC02D
Sample Type	SEDI	SEDI
Depth (ft.)	1.2	1.2
Parameter	Sample Date	03/31/2012
03/31/2012		
<b>Metals</b>		
Iron	13800 NE*	35200 NE*
Manganese	502 NE*	3540 NE*
<b>Moisture Content</b>		
Moisture	24.3	23.2
<b>Particle Size Distribution</b>		
Clay	6.6	4.3
Coarse Sand	3.4	4.8
Fine Sand	44.7	47.6
Gravel	1.6	4.3
Hydrometer Reading 1 - Percent Finer	13.9	9.8
Hydrometer Reading 2 - Percent Finer	11.8	8
Hydrometer Reading 3 - Percent Finer	9.2	6.2
Hydrometer Reading 4 - Percent Finer	8.2	5.3
Hydrometer Reading 5 - Percent Finer	6.6	4.4
Hydrometer Reading 6 - Percent Finer	5	3.4
Hydrometer Reading 7 - Percent Finer	3.9	2.5
Medium Sand	23.4	30.3
Sand	71.5	82.7
Sieve Size #10 - Percent Finer	95	90.9
Sieve Size #100 - Percent Finer	31.3	16.8
Sieve Size #20 - Percent Finer	88.4	81.5
Sieve Size #200 - Percent Finer	26.9	13
Sieve Size #4 - Percent Finer	98.4	95.7
Sieve Size #40 - Percent Finer	71.6	60.6
Sieve Size #60 - Percent Finer	45.9	32
Sieve Size #80 - Percent Finer	35.1	20.6
Sieve Size 0.375 inch - Percent Finer	100	99.2
Sieve Size 0.75 inch - Percent Finer	100	100
Sieve Size 1 inch - Percent Finer	100	100
Sieve Size 1.5 inch - Percent Finer	100	100
Sieve Size 2 inch - Percent Finer	100	100
Sieve Size 3 inch - Percent Finer	100	100
Silt	20.3	8.7
<b>Total/Isotopic Uranium</b>		
Total Uranium	0.44	0.93
Uranium 234	0.0066 U	0.0065 U
Uranium 235	0.0066 U	0.0059 J
Uranium 238	0.44 E	0.92 E

# Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	Sample ID	Sample Type	Depth (ft.)	Parameter	Sample Date	Units	Reporting Limit	SS-DU-001 SAIC0498 SURF 0 10/01/1998	SS-DU-001 SAIC0499 SURF 0 04/01/1999	SS-DU-001 SAIC1099 SURF 0 10/01/1999	SS-DU-001 SAIC1099D SURF 0 10/01/1999	SS-DU-001 SAIC0400 SURF 0 04/01/2000	SS-DU-001 SAIC1000 SURF 0 10/01/2000	SS-DU-001 SAIC0401 SURF 0 04/01/2001	SS-DU-001 SAIC1001 SURF 0 10/01/2001	SS-DU-001 SAIC0402 SURF 0 04/01/2002	SS-DU-001 SAIC1002 SURF 0 10/01/2002	SS-DU-001 SAIC0403 SURF 0 04/01/2003	SS-DU-001 SAIC01 SURF 0.0 04/28/2004
<b>Dissolved Th-234</b>																			
Dissolved Th-234		pci/g	0.1				0.6 U	2	2 J	2 J	2	1 U	2	N/A	1	1 U	0.311 U	N/A	
<b>Dissolved Uranium</b>																			
Uranium 234		pci/g	0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.82
Uranium 235		pci/g	0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.03 J
Uranium 238		pci/g	0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.8
<b>Total Uranium</b>																			
Total Uranium		pci/g	0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>																			
Total Uranium		µg/g					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		mg/kg	0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		pci/g	0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		ug/g					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 234		pci/g					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235		pci/g					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238		pci/g					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			0.1				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001
Sample ID	SAIC01D	SAIC02	SAIC02D	SAIC03	SAIC03D	SAIC04	SAIC05	SAIC06	SAIC07	SAIC07D	SAIC08	SAIC09E	SAIC10E	SAIC11E	
Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Parameter	Sample Date	04/28/2004	12/15/2004	12/15/2004	05/25/2005	05/25/2005	10/18/2005	04/12/2006	09/27/2006	04/25/2007	04/25/2007	10/04/2007	04/26/2008	10/11/2008	04/14/2009
<b>Dissolved Th-234</b>															
Dissolved Th-234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Dissolved Uranium</b>															
Uranium 234	0.76	0.86 LT	0.81 LT	0.95 J	1.04 J	1.04 LT	0.87 LT	0.93	0.84	0.82	0.82	N/A	N/A	N/A	N/A
Uranium 235	0.021 J	0.017 U	0.077 U	0.107 U	0.099 U	0.023 J	0.037 U	0.05 J	0.041 J	0.047 J	0.09 J	N/A	N/A	N/A	N/A
Uranium 238	0.82	0.84 J	0.89 J	0.71 LT	1.11 LT	0.92 LT	1.06 LT	0.95	0.81	1.04	0.88	N/A	N/A	N/A	N/A
<b>Total Uranium</b>															
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>															
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.13	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.01	1.57	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.02	0.819 J	0.63
Uranium 235	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.018 U	0.032 J	0.019 U
Uranium 238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.97	0.715 J	0.71

# **Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-001	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002
Sample ID	SAIC12E	SAIC13E	SAIC14E	SAIC15E	SAIC16E	SAIC17E	SAIC18E	SAIC0498	SAIC0499	SAIC1099	SAIC0400	SAIC1000	SAIC0401	SAIC1001	SAIC1001
Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
Parameter	Sample Date	10/28/2009	04/06/2010	10/14/2010	04/27/2011	11/01/2011	03/31/2012	10/24/2012	10/01/1998	04/01/1999	10/01/1999	04/01/2000	10/01/2000	04/01/2001	10/01/2001
<b>Dissolved Th-234</b>															
Dissolved Th-234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 J	0.6 U	2	1	1 U	2	N/A	N/A
<b>Dissolved Uranium</b>															
Uranium 234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Uranium</b>															
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	N/A
<b>Total/Isotopic Uranium</b>															
Total Uranium	N/A	N/A	N/A	N/A	N/A	1.66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.29	2.62	2.41	1.96	1.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	1.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 234	N/A	N/A	N/A	N/A	N/A	0.56	0.65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.8	0.83	0.66	0.71	0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235	N/A	N/A	N/A	N/A	N/A	0.044 J	0.038 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.034 J	0.053 J	0.046 J	0.023 U	0.024 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238	N/A	N/A	N/A	N/A	N/A	0.55	0.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.77	0.87	0.8	0.65	0.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# **Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002
Sample ID	SAIC0402	SAIC1002	SAIC0403	SAIC01	SAIC02	SAIC03	SAIC04	SAIC05	SAIC05D	SAIC06	SAIC07	SAIC08	SAIC09E	SAIC09ED
Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF
Depth (ft.)	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	04/01/2002	10/01/2002	04/01/2003	04/28/2004	12/14/2004	05/25/2005	10/18/2005	04/12/2006	04/12/2006	09/27/2006	04/25/2007	10/03/2007	04/26/2008
<b>Dissolved Th-234</b>														
Dissolved Th-234	2 J	1 U	0.147 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Dissolved Uranium</b>														
Uranium 234	N/A	N/A	N/A	0.7	0.59 LT	0.66 J	0.79 LT	0.76 LT	0.84 LT	0.77	0.83	0.87	N/A	N/A
Uranium 235	N/A	N/A	N/A	0.041 J	0.05 J	0.12 J	0.035 J	0.054 U	0.01 U	0.042 J	0.048 J	0.047 J	N/A	N/A
Uranium 238	N/A	N/A	N/A	0.76	0.74 J	0.68 LT	0.88 LT	0.86 LT	0.81 LT	0.73	0.85	0.68	N/A	N/A
<b>Total Uranium</b>														
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>														
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.81	1.72
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.035 U	0.054 J
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.769	0.866

# **Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana**

	Location ID	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-002	SS-DU-003	SS-DU-003
	Sample ID	SAIC10DE	SAIC10E	SAIC11E	SAIC12DE	SAIC12E	SAIC13DE	SAIC13E	SAIC14E	SAIC15E	SAIC16E	SAIC17E	SAIC18E	SAIC0498	SAIC0499
	Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF
	Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0
Parameter	Sample Date	10/11/2008	10/11/2008	04/14/2009	10/28/2009	10/28/2009	04/07/2010	04/07/2010	10/14/2010	04/27/2011	11/02/2011	03/31/2012	10/23/2012	10/01/1998	04/01/1999
<b><i>Dissolved Th-234</i></b>															
Dissolved Th-234		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	2 J
<b><i>Dissolved Uranium</i></b>															
Uranium 234		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b><i>Total Uranium</i></b>															
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b><i>Total/Isotopic Uranium</i></b>															
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.24	N/A	N/A	N/A
		N/A	N/A	2.56	2.67	3.02	2.81	2.48	2.4	2.77	2.21	N/A	N/A	N/A	N/A
		1.62	0.358	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.08	N/A	N/A
Uranium 234		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.76	0.69	N/A	N/A
		0.752	0.146	0.91	0.99	1.01	0.79	0.76	0.79	0.88	0.68	N/A	N/A	N/A	N/A
Uranium 235		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.014 U	0.039 J	N/A	N/A
		0.017 J	0.004 U	0.074 J	0.045 J	0.053 J	0.033 J	0.038 J	0.032 J	0.057 J	0.027 J	N/A	N/A	N/A	N/A
Uranium 238		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75	0.69	N/A	N/A
		0.85	0.208	0.85	0.89	1.01	0.94	0.83	0.8	0.92	0.74	N/A	N/A	N/A	N/A



# **Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana**

	Location ID	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	
	Sample ID	SAIC0499D	SAIC1099	SAIC0400	SAIC1000	SAIC0401	SAIC1001	SAIC0402	SAIC1002	SAIC0403	SAIC01	SAIC02	SAIC03	SAIC04	
	Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	
	Depth (ft.)	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	
	Parameter	Sample Date	04/01/1999	10/01/1999	04/01/2000	10/01/2000	04/01/2001	10/01/2001	04/01/2002	10/01/2002	04/01/2003	04/28/2004	12/15/2004	05/25/2005	10/18/2005
<b><i>Dissolved Th-234</i></b>															
Dissolved Th-234		<b>3 J</b>	<b>0.4 U</b>	<b>0.5</b>	<b>1 U</b>	<b>2</b>	<b>N/A</b>	<b>1</b>	<b>1 U</b>	<b>0.13 U</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
<b><i>Dissolved Uranium</i></b>															
Uranium 234		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>0.72</b>	<b>0.49 LT</b>	<b>0.81 J</b>	<b>0.42 LT</b>	
Uranium 235		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>0.033 J</b>	<b>0.049 J</b>	<b>0.17 J</b>	<b>0.015 U</b>	
Uranium 238		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<b>0.84</b>	<b>0.81 J</b>	<b>0.69 LT</b>	<b>0.56 LT</b>	
<b><i>Total Uranium</i></b>															
Total Uranium		N/A	N/A	N/A	N/A	N/A	<b>5</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b><i>Total/Isotopic Uranium</i></b>															
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Uranium 234		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Uranium 235		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Uranium 238		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

## Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-003
	Sample ID	SAIC04D	SAIC05	SAIC06	SAIC06D	SAIC07	SAIC08	SAIC08D	SAIC09E	SAIC10E	SAIC11E	SAIC12E	SAIC13E	SAIC14E	SAIC15E
	Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF
	Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	10/18/2005	04/12/2006	09/28/2006	09/28/2006	04/24/2007	10/04/2007	10/04/2007	04/26/2008	10/10/2008	04/14/2009	10/28/2009	04/07/2010	10/14/2010	04/27/2011
<b>Dissolved Th-234</b>															
Dissolved Th-234		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Dissolved Uranium</b>															
Uranium 234		0.9	0.58 LT	0.75	0.61	0.79	0.66	0.68	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235		0.044 U	0.042 U	0.02 J	0.03 U	0.075 J	0.029 U	0.046 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238		0.77	0.74 LT	0.76	0.69	0.74	0.83	0.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Uranium</b>															
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>															
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.49	2.01	2.02	1.69	1.85
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.26	1.49	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 234		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.566	0.674 J	0.73	0.63	0.7	0.43	0.65
Uranium 235		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.037 U	0.042 J	0.034 J	0.034 J	0.035 J	0.017 U
Uranium 238		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.66	0.773 J	0.83	0.67	0.67	0.57	0.61

## Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana

	Location ID	SS-DU-003	SS-DU-003	SS-DU-003	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004
	Sample ID	SAIC16E	SAIC17E	SAIC18E	SAIC0498	SAIC0499	SAIC1099	SAIC0400	SAIC1000	SAIC0401	SAIC1001	SAIC0402	SAIC1002	SAIC0403	SAIC01
	Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF
	Depth (ft.)	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0.0
Parameter	Sample Date	11/01/2011	04/01/2012	10/24/2012	10/01/1998	04/01/1999	10/01/1999	04/01/2000	10/01/2000	04/01/2001	10/01/2001	04/01/2002	10/01/2002	04/01/2003	04/28/2004
<b>Dissolved Th-234</b>															
Dissolved Th-234		N/A	N/A	N/A	140	2 J	0.03 U	2	1 U	2	N/A	1	1 U	0.0974 U	N/A
<b>Dissolved Uranium</b>															
Uranium 234		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61
Uranium 235		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.036 J
Uranium 238		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.73
<b>Total Uranium</b>															
Total Uranium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.4 U	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>															
Total Uranium		N/A	1.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	1.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 234		N/A	0.465	0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		0.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235		N/A	0.06 J	0.028 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		0.025 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238		N/A	0.57	0.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		0.65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# **Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana**

Location ID	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004
Sample ID	SAIC02	SAIC03	SAIC04	SAIC05	SAIC06	SAIC07	SAIC08	SAIC09E	SAIC10E	SAIC11DE	SAIC11E	SAIC12E	SAIC13E	SAIC14DE	
Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Parameter	Sample Date	12/14/2004	05/25/2005	10/18/2005	04/12/2006	09/27/2006	04/24/2007	10/04/2007	04/26/2008	10/11/2008	04/14/2009	04/14/2009	10/29/2009	04/07/2010	10/15/2010
<b><i>Dissolved Th-234</i></b>															
Dissolved Th-234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b><i>Dissolved Uranium</i></b>															
Uranium 234	0.74 LT	0.81 J	0.58 LT	0.83 LT	0.81	0.8	1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235	0.019 U	0.16 J	0.032 U	0.063 U	0.069 J	0.055 J	0.07 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238	0.76 J	0.8 LT	0.7 LT	0.73 LT	0.85	0.89	0.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b><i>Total Uranium</i></b>															
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b><i>Total/Isotopic Uranium</i></b>															
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.32	2.05	2.23	1.71	1.29	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.35	1.25	N/A	N/A	N/A	N/A	N/A	
Uranium 234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Uranium 235	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Uranium 238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

## Data Presentation: ERM Surface Soil Samples, Jefferson Proving Ground, Madison, Indiana

Location ID	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004	SS-DU-004
Sample ID	SAIC14E	SAIC15DE	SAIC15E	SAIC16DE	SAIC16E	SAIC17DE	SAIC17E	SAIC18DE	SAIC18E	SAIC18E
Sample Type	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF
Depth (ft.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parameter	Sample Date	10/15/2010	04/27/2011	04/27/2011	11/02/2011	11/02/2011	03/31/2012	03/31/2012	10/23/2012	10/23/2012
<b>Dissolved Th-234</b>										
Dissolved Th-234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Dissolved Uranium</b>										
Uranium 234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 235	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium 238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Uranium</b>										
Total Uranium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total/Isotopic Uranium</b>										
Total Uranium	N/A	N/A	N/A	N/A	N/A	1.77	1.81	N/A	N/A	N/A
	1.58	1.35	1.61	0	2.33	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.10	1.41	
Uranium 234	N/A	N/A	N/A	N/A	N/A	0.57	0.58	0.412	0.422	
	0.4	0.489	0.64	0.59	0.7	N/A	N/A	N/A	N/A	
Uranium 235	N/A	N/A	N/A	N/A	N/A	0.013 U	0.023 J	0.017 U	0.014 U	
	0.036 J	0.009 U	0.026 J	0.028 J	0.055 J	N/A	N/A	N/A	N/A	
Uranium 238	N/A	N/A	N/A	N/A	N/A	0.59	0.61	0.367	0.472	
	0.527	0.454	0.54	0.81	0.77	N/A	N/A	N/A	N/A	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

Location ID	Sample ID	Units	Reporting Limit	JPG-DU-01D SAIC09 WELL 102.0	JPG-DU-01D SAIC09F WELL 102.0	JPG-DU-01D SAIC10 WELL 107.8	JPG-DU-01D SAIC10F WELL 107.8	JPG-DU-01D SAIC11 WELL 115.7	JPG-DU-01D SAIC11F WELL 115.7	JPG-DU-01D SAIC12 WELL 111.0	JPG-DU-01D SAIC12F WELL 111.0	JPG-DU-01D SAIC09 WELL 38.7	JPG-DU-01D SAIC09F WELL 38.7
Parameter	Sample Date			04/27/2008	04/27/2008	08/01/2008	08/01/2008	10/24/2008	10/24/2008	02/19/2009	02/19/2009	04/10/2008	04/10/2008
<b>Alkalinity</b>													
Alkalinity		mg/l	1	1200	N/A	720	N/A	880	N/A	660	N/A	340	N/A
<b>Common Anions</b>													
Chloride		mg/l	0.1	2500	2300	1900	2000	2000	2600	2300	4500	730	770
Nitrate		mg/l	0.1	0.43	0.19	0.17	0.17	0.15	0.16	0.15	0.11	0.22	0.13
Sulfate		mg/l	0.1	3800	1000	680	700	680	760	650	850	32	29
<b>Metals</b>													
Aluminum		µg/l	200	139 J	219	35 U	35 U	350 UJ	350 UJ	36 U	360 UD	292 U	26.7 U
Calcium		µg/l	1000	704000 D	566000 D	555000 D	592000 D	298000 D	335000 D	470000	600000 D	100000	100000
Iron		µg/l	150	211	80.5 J	121 J	17.4 J	104 JD	41 UD	152	39.8 J	574	408
Magnesium		µg/l	250	243 J	53.4 J	13600	48 J	91.8 JD	75 UD	29600	20400 D	47000	48600
Manganese		µg/l	5	5	0.69 J	4.7 J	0.3 J	3.3 JD	0.55 UD	4.7 J	2 J	22.5	11.5
Potassium		µg/l	250	168000 D	156000 D	137000 D	147000 D	74800 D	83100 D	122000 D	140000 D	15500	15800
Silicon		µg/l	50	718	1130	1510 N	1070 N	1200 D	984 D	1730 D	1080 D	4910	4100
Sodium		µg/l	2500	1220000 D	1050000 D	1320000 ED	1140000 ED	732000 D	917000 D	1640000 J	2050000 J	348000	372000
<b>TOC</b>													
Total Organic Carbon		mg/l	1	22	31	30	47	20	30	23	39	1.4	1.1

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-01I	JPG-DU-01I	JPG-DU-01I	JPG-DU-01I	JPG-DU-01I	JPG-DU-01I	JPG-DU-02D	JPG-DU-02D	JPG-DU-02D	JPG-DU-02D	JPG-DU-02D	JPG-DU-02D
	Sample ID	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	41.6	41.6	41.5	41.5	42.5	42.5	122.2	119.0	119.0	121.9	121.9	121.5
Parameter	Sample Date	07/20/2008	07/20/2008	10/23/2008	10/23/2008	02/19/2009	02/19/2009	04/25/2008	07/27/2008	07/27/2008	10/24/2008	10/24/2008	02/18/2009
<b>Alkalinity</b>													
Alkalinity		350	N/A	340	N/A	340	N/A	N/A	220	N/A	N/A	N/A	N/A
<b>Common Anions</b>													
Chloride		680	650	690	680	680	680	N/A	16000	16000	19000	19000	N/A
Nitrate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.45	0.6	N/A	4.4 J	4.3 J	12 J	11 J	N/A
Sulfate	24	26	24	26	27	28	N/A	N/A	1200	890	1700	1600	N/A
<b>Metals</b>													
Aluminum	501	35 U	178 J	35 U	348	145 J	N/A	N/A	578 U	26.7 U	350 UJ	N/A	N/A
Calcium	116000	100000	116000	101000	107000	102000	N/A	N/A	1750000 D	1760000 D	1020000 D	N/A	N/A
Iron	1160	593	1340	770	3740	2210	N/A	N/A	1350	165	292 JD	N/A	N/A
Magnesium	54400	49500	50700	48300	52100	50400	N/A	N/A	679000 D	686000 D	730000 D	N/A	N/A
Manganese	22.9	7.5	30	13.5	29	15.1	N/A	N/A	342	327	420 D	N/A	N/A
Potassium	15200	14500	13900	13500	14700	14600	N/A	N/A	130000 D	130000 D	63600 D	N/A	N/A
Silicon	4850	3970	4960	4690	4660	4450	N/A	N/A	5280	4470	4310 D	N/A	N/A
Sodium	429000	388000	385000	367000	334000 J	380000 J	N/A	N/A	7510000 D	7860000 D	4950000 D	N/A	N/A
<b>TOC</b>													
Total Organic Carbon		2.1	1.5	1.4	1.2	1.3	1.3	N/A	4.8	4.6	N/A	N/A	N/A

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

Location ID	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-02I	JPG-DU-03I	JPG-DU-03I
Sample ID	SAIC09	SAIC09D	SAIC09DF	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC12F	SAIC09	SAIC09F
Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
Depth (ft.)	29.2	29.2	29.2	29.2	29.8	29.8	29.8	29.8	30.0	30.0	30.0	57.9	57.9
Parameter	Sample Date	04/14/2008	04/14/2008	04/14/2008	04/14/2008	07/31/2008	07/31/2008	10/23/2008	10/23/2008	02/19/2009	02/19/2009	04/09/2008	04/09/2008
<b>Alkalinity</b>													
Alkalinity	240	240	N/A	N/A	250	N/A	240	N/A	240	N/A	320	N/A	
<b>Common Anions</b>													
Chloride	4.7	4.9	5.2	4.8	4	3.8	210	110	5.2	6.1	120	120	
Nitrate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.16	0.1 U	
Sulfate	21	22	22	22	18	18	18	18	20	20	120	200	
<b>Metals</b>													
Aluminum	200 UJ	247 UJ	200 UJ	200 UJ	43.7 JN	61.2 JN	35 U	35 U	36 U	36 U	624	26.7 U	
Calcium	73500	74100	74100	72800	85700	92300	99200	93000	74200	75100	67700	69000	
Iron	904 UJ	1110 UJ	481 J	474 J	852	840	1390	1150	707	329	1220	1480	
Magnesium	15100	15500	15500	15000	11100	12000	22700	21000	15500	15800	28800	28400	
Manganese	104	106	104	99.6	97.3	99.6	124	115	92.2	82.6	134	156	
Potassium	867	899	922	854	937	1020	2070	1680	863	873	5020	4560	
Silicon	4510 J	4750 J	4440 J	4460 J	4180 N*	4310 N*	4990	4800	4540	4450	6420	4870	
Sodium	7400	7640	7880	7480	7370	8020	52000	41800	7040 J	7830 J	148000	166000	
<b>TOC</b>													
Total Organic Carbon	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.6	5.2	



## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-03I	JPG-DU-03I	JPG-DU-03I	JPG-DU-03I	JPG-DU-03I	JPG-DU-03I	JPG-DU-03O	JPG-DU-03O	JPG-DU-03O	JPG-DU-03O	JPG-DU-03O	JPG-DU-03O
	Sample ID	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11D
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	63.0	63.0	33.0	33.0	63.5	63.5	21.3	21.3	23.5	23.5	24.9	24.9
Parameter	Sample Date	07/31/2008	07/31/2008	10/27/2008	10/27/2008	02/17/2009	02/17/2009	04/09/2008	04/09/2008	07/15/2008	07/15/2008	10/13/2008	10/13/2008
<b>Alkalinity</b>													
Alkalinity	400	N/A	360	N/A	370	N/A	370	N/A	380	N/A	380	370	
<b>Common Anions</b>													
Chloride	160	160	180 J	190 J	180	180	5.2	5	3.4	3.3	5.8	3.8	
Nitrate	0.1 U	0.1 U	0.12	0.11	0.65	0.27	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.18	
Sulfate	80	81	12	12	25	18	44	45	44	44 J	30	37	
<b>Metals</b>													
Aluminum	3050 ND	41.3 JN	35 UN	35 UN	236	36 U	915	26.7 U	409	200 U	246	89.8 J	
Calcium	107000 D	103000	79700	78900	84000	82200	105000	103000	98300	96300	106000 E	101000 E	
Iron	2550 D	149 J	108 J	150 U	763	65.1 J	6020	560	1700 J	554 E	1970	1110	
Magnesium	33400 D	32100	45300 J	45300 J	47100	47400	31900	30700	29500	28300	35300 E	31900 E	
Manganese	162 D	111	6.6	3.3 J	48.3	14.7	1020	922	598	553	533 E	535 E	
Potassium	4310 D	4390	3730	3800	3730	3730	1790	1510	803	695	1130	1010	
Silicon	13300 N*D	4510 N*	4020	3730	4600	4050	17900 D	18400 D	18700	19600	14300 NE	19300 NE	
Sodium	135000 D	134000	104000	103000	103000	105000	18000	16900	16000	15300	21700	17100	
<b>TOC</b>													
Total Organic Carbon	3.6	3.5	2.4	1.8	1.8	2.3	1.2	1.2	1 U	1 U	1.3	1.1	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-03O	JPG-DU-03O	JPG-DU-03O	JPG-DU-03O	JPG-DU-04D	JPG-DU-04D	JPG-DU-04D	JPG-DU-04D	JPG-DU-04D	JPG-DU-04D	JPG-DU-04D
	Sample ID	SAIC11DF	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	24.9	24.9	26.8	26.8	103.4	103.4	95.0	95.0	103.0	103.0	97.0
Parameter	Sample Date	10/13/2008	10/13/2008	02/17/2009	02/17/2009	04/25/2008	04/25/2008	08/01/2008	08/01/2008	10/24/2008	10/24/2008	02/17/2009
<b>Alkalinity</b>												
Alkalinity		N/A	N/A	320	N/A	410	N/A	740	N/A	360	N/A	520
<b>Common Anions</b>												
Chloride		3.8	4.6	2.2	2.1	660	670	690	1400	870	1300	2800
Nitrate		0.1 U	0.1 U	0.12	0.12	0.1 U	0.1 U	0.1 U	0.1 U	0.54	0.3	0.31
Sulfate		40	35	51	51	240	220	240	870	510	890	2400
<b>Metals</b>												
Aluminum		35 U	35 U	59.6 J	36 U	1410	75.1 J	114 J	46.9 J	35 UJ	35 UJ	76.5 J
Calcium		98900 E	101000 E	93900	94600	27600	2610	18700	53500	212 J	21200	50500
Iron		895	981	586	460	2640	44.1 J	145 J	18.2 J	123 JD	41 UD	60.6 J
Magnesium		30700 E	33100 E	25900	26400	70200	10100	27900	72500	13400 D	225000 D	94400
Manganese		498 E	532 E	421	449	129	0.7 J	49.3	25.7	7.5 JD	1040 D	72.4
Potassium		886	1020	1210	1220	244000 D	238000 D	312000 D	170000 D	224000 D	41400 D	308000 D
Silicon		22200 NE	19100 NE	19600	21100	5990 N*	1420 N*	2630 N	5390 N	2570 D	7070 D	3980 D
Sodium		15600	18900	15400	15300	585000 D	571000 D	608000 ED	758000 ED	34400	121000	1210000 D
<b>TOC</b>												
Total Organic Carbon		1 U	1.2	1 U	1 U	16	30	190	82	760	190	140

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-04D	JPG-DU-04I	JPG-DU-04I	JPG-DU-04I	JPG-DU-04I	JPG-DU-04I	JPG-DU-04I	JPG-DU-04I	JPG-DU-04I	JPG-DU-04O	JPG-DU-04O	JPG-DU-04O
	Sample ID	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	97.0	65.6	65.6	65.2	65.2	65.6	65.6	65.0	65.0	47.2	47.2	47.0
Parameter	Sample Date	02/17/2009	04/15/2008	04/15/2008	07/15/2008	07/15/2008	10/23/2008	10/23/2008	02/19/2009	02/19/2009	04/15/2008	04/15/2008	07/18/2008
<b>Alkalinity</b>													
Alkalinity	N/A	180	N/A	410	N/A	380	N/A	510	N/A	140	N/A	530	
<b>Common Anions</b>													
Chloride	1300	40	40	33	32	35	34	33	33	28	17	22	
Nitrate	0.53	0.1 U	0.1 U	0.1 U	0.1 U	0.11	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
Sulfate	840	69	61	32	28 J	34	34	23	24	29	34	22	
<b>Metals</b>													
Aluminum	36 U	557	26.7 U	214	200 U	130 J	35 U	175 J	36 U	252	26.7 U	402	
Calcium	421000	90600	88300	90800	92600	91800	90000	93500	93700	83000	85900	107000	
Iron	27 U	1650	754	1330 J	961 E	1440	981	1100	981	3040	2380	4310	
Magnesium	255000	36800	36100	36800	38200	37800	37100	39600	39800	44200	44300	47300	
Manganese	1030	113	81.9	82.2	58.4	78.6	62.2	57.2	53.5	161	103	188	
Potassium	142000 D	1770	1630	1290	1330	1600	1570	1320	1290	23600	19900	4210	
Silicon	6580 D	5870	4980	5040	4870	5370	5230	5620	5370	8530 D	8490 D	9230	
Sodium	2750000 D	79700	71800	59100	53600	62100	61500	51600 J	50600 J	62800	62100	58900	
<b>TOC</b>													
Total Organic Carbon	320	1.6	1.5	1.5	1.3	1.2	1.2	1.5	1.1	2.9	3	2.4	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-040	JPG-DU-040	JPG-DU-040	JPG-DU-040	JPG-DU-040	JPG-DU-040	JPG-DU-040	JPG-DU-05D	JPG-DU-05D	JPG-DU-05D	JPG-DU-05D
	Sample ID	SAIC10D	SAIC10DF	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC11
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	47.0	47.0	47.0	47.2	47.2	49.0	49.0	135.0	135.0	134.0	134.0
Parameter	Sample Date	07/18/2008	07/18/2008	07/18/2008	10/22/2008	10/22/2008	02/19/2009	02/19/2009	04/25/2008	04/25/2008	08/01/2008	10/24/2008
<b>Alkalinity</b>												
Alkalinity		530	N/A	N/A	520	N/A	440	N/A	300	N/A	N/A	310
<b>Common Anions</b>												
Chloride		21	21	22	22	21	21	21	1300	1400	N/A	2200
Nitrate		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.13	0.14	0.1 U	0.1 U	N/A	0.1
Sulfate		22	21	21	26	24	18	18	170	160	N/A	330
<b>Metals</b>												
Aluminum		196 J	42 J	35 U	257 U	92.2 U	2750	36 U	447	131 J	N/A	350 UJ
Calcium		105000	106000	105000	108000	106000	103000	101000	97400	95700	N/A	76700 D
Iron		3740	3040	3000	4390	3360	6090	2050	1810	801	N/A	1220 D
Magnesium		47000	47200	46800	48100	47100	46200	46300	35300	35000	N/A	56300 D
Manganese		139	107	103	144	107	225	89.5	43.6	33.9	N/A	34.2 D
Potassium		4840	3900	3960	2820	2700	3090	2890	23400	23000	N/A	13400 D
Silicon		8550	9160	9460	10200 J	10100 J	14600	10300	4790 N*	4520 N*	N/A	4320 D
Sodium		58800	60300	59600	59400	59400	56500 J	57400 J	725000 D	745000 D	N/A	64500
<b>TOC</b>												
Total Organic Carbon		2.2	2.2	2.2	1.8	1.8	1.8	1.7	8.3	8.6	N/A	5.6

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-05D	JPG-DU-05D	JPG-DU-05D	JPG-DU-05I	JPG-DU-05I	JPG-DU-05I	JPG-DU-05I	JPG-DU-05I	JPG-DU-05I	JPG-DU-05I	JPG-DU-05I	JPG-DU-05D	
	Sample ID	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	
	Depth (ft.)	134.0	129.0	129.0	35.4	35.4	37.0	37.0	36.0	36.0	37.5	37.5	98.3	
	Parameter	Sample Date	10/24/2008	02/17/2009	02/17/2009	04/15/2008	04/15/2008	07/31/2008	07/31/2008	10/08/2008	10/08/2008	02/16/2009	02/16/2009	04/21/2008
<b>Alkalinity</b>														
Alkalinity		N/A	310	N/A	130	N/A	310	N/A	290	N/A	290	N/A	280	
<b>Common Anions</b>														
Chloride		2300	2800	2800	55	60	47	46	53	54	47	47	3200	
Nitrate		0.1 U	0.12	0.27	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
Sulfate		340	350	360	45	46	56	55	65	63	49	49	570	
<b>Metals</b>														
Aluminum		350 UJ	633	118 J	26.7 U	26.7 U	55 JN	62.8 JN	118 J	136 J	185 J	36 UN	107 J	
Calcium		83600 D	202000	197000	68600	68000	84800	84900	72200	72000	65600	65100	336000	
Iron		754 D	2900	948	55.9 J	19.9 J	499	448	2230	2070	615	310	790	
Magnesium		57900 D	74700	74600	31200	31100	24600	24700	34500	34700	33200	33000	172000	
Manganese		27.2 D	65.1	34.2	101	97.2	120	120	78.6	77.5	33.6	34.9	50.1	
Potassium		15200 D	41000	32600	3760	3780	5520	5680	6400	7590	6880	6790	38100	
Silicon		4260 D	5200	4300	4210	4230	4110 N*	3900 N*	4440	4380	4690 J	4460 J	4700	
Sodium		714000 D	1660000 D	1640000 D	50900	50900	53700	52500	60300 E	60800 E	56500	56100	1910000 D	
<b>TOC</b>														
Total Organic Carbon		3.6	5	4.8	2.1	2.3	2.3	2.4	3.3	3.3	2	2.2	57	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-06D	JPG-DU-06D	JPG-DU-06D	JPG-DU-06D	JPG-DU-06D	JPG-DU-06D	JPG-DU-06D	JPG-DU-06I	JPG-DU-06I	JPG-DU-06I	JPG-DU-06I	JPG-DU-06I
	Sample ID	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	98.3	99.0	99.0	95.9	95.9	98.0	98.0	47.9	47.9	45.0	45.0	45.5
Parameter	Sample Date	04/21/2008	07/30/2008	07/30/2008	10/13/2008	10/13/2008	02/18/2009	02/18/2009	04/20/2008	04/20/2008	07/30/2008	07/30/2008	10/13/2008
<b>Alkalinity</b>													
Alkalinity		N/A	230	N/A	220	N/A	190	N/A	440	N/A	440	N/A	450
<b>Common Anions</b>													
Chloride		3700	11000	10000	12000	11000	14000	14000	19	19	17	17	18
Nitrate		0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	4.6
Sulfate		540	110	180	100	310	40	30	13	13	12	12	8.3
<b>Metals</b>													
Aluminum		26.7 U	35 U	65.5 J	842 JD	988 JD	360 UD	360 UD	506	26.7 U	172 J	92.6 J	282
Calcium		257000	898000 D	836000 D	773000 ED	964000 ED	1010000 D	1050000 D	91400	93100	92100	90700	95600 E
Iron		398	3860	3240	3640	2720	4440	5560	1800	1170	1810	1560	1650
Magnesium		132000	473000	435000	424000 ED	528000 ED	561000 D	585000 D	36600	37800	37000	36100	38000 E
Manganese		34.9	50.3	47.7	54 ED	57.6 ED	53.4 D	49.3 JD	120	114	101	95.5	128 E
Potassium		32700	75500 ED	72100 ED	67900 D	82900 D	80300 D	84000 D	1200	1120	872 E	883 E	1020
Silicon		4430	4300	4460	4390 NE	4530 NE	4480 J	4210 J	6590 D	6440	6980	7110	6690 NE
Sodium		1480000 D	5270000 D	4800000 D	3570000 D	4280000 D	5840000 D	6160000 D	57000	57800	47400	47800	46000
<b>TOC</b>													
Total Organic Carbon		53	5.8	10	7.9	7.7	10 U	1 U	1.1	1.2	1.2	1.4	1.4

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-06I	JPG-DU-06I	JPG-DU-06I	JPG-DU-06O	JPG-DU-06O	JPG-DU-06O	JPG-DU-06O	JPG-DU-06O	JPG-DU-06O	JPG-DU-06O	JPG-DU-06O	JPG-DU-07D
	Sample ID	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	45.5	49.5	49.5	20.9	20.9	22.4	22.4	21.5	21.5	22.5	22.5	124.4
Parameter	Sample Date	10/13/2008	02/18/2009	02/18/2009	04/15/2008	04/15/2008	07/16/2008	07/16/2008	10/13/2008	10/13/2008	02/18/2009	02/18/2009	04/25/2008
<b>Alkalinity</b>													
Alkalinity		N/A	440	N/A	160	N/A	380	N/A	420	N/A	370	N/A	31
<b>Common Anions</b>													
Chloride		18	17	17	7.3	7.6	4.9	4.9	7.6	7.3	6	6.3	6300
Nitrate		0.1 U	0.1 U	0.1 U	1.2	0.1 U	0.1 U	0.1 U	0.15	0.1 U	0.1 U	0.1 U	0.1
Sulfate		8.1	7.2	6.8	82	85	76	79	91	90	100	110	280
<b>Metals</b>													
Aluminum		35 U	118 J	36 U	221	29.9 J	190 J	54.2 J	143 J	35 U	1170	36 U	898
Calcium		91300 E	93500	92500	98900	97100	89900	88700	102000 E	101000 E	95700	94700	518000
Iron		1290	1790	1620	349	15.4 U	315	37.2 J	273	77.6 J	1350	1000	1140
Magnesium		36400 E	37400	37100	35200	34600	32500	31900	36300 E	35800 E	33100	32600	109000
Manganese		114 E	85.2	81.3	1310	1220	1240	1200	1580 E	1520 E	431	406	25.6
Potassium		892	957	821	1440	1390	1300	1130	1360	1240	1130	761	80700 D
Silicon		6100 NE	7280 J	7170 J	12800 D	12100 D	13200	13200	13100 NE	12700 NE	16700 J	13200 J	2720 N*
Sodium		46100	49200	50100	39800	40700	44900	45800	38700	40500	55400	55600	2800000 D
<b>TOC</b>													
Total Organic Carbon		1.4	1.2	1	2	2.1	1.2	1.4	1.7	1.6	1.7	1.2	13

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-07D	JPG-DU-07D	JPG-DU-07D	JPG-DU-07D	JPG-DU-07D	JPG-DU-07D	JPG-DU-07I	JPG-DU-07I	JPG-DU-07I	JPG-DU-07I	JPG-DU-07I	JPG-DU-07I
	Sample ID	SAIC09F	SAIC10	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC11	SAIC11F	SAIC12
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	124.4	124.0	123.6	123.6	123.0	123.0	59.0	59.0	64.0	64.0	64.0	60.0
Parameter	Sample Date	04/25/2008	08/01/2008	10/24/2008	10/24/2008	02/17/2009	02/17/2009	04/25/2008	04/25/2008	08/01/2008	10/24/2008	10/24/2008	02/17/2009
<b>Alkalinity</b>													
Alkalinity	N/A	N/A	35	N/A	42	N/A	300	N/A	N/A	190	N/A	200	
<b>Common Anions</b>													
Chloride	6200	N/A	9900	10000	12000	13000	10000	11000	N/A	17000	17000	20000	
Nitrate	0.1 U	N/A	0.1	0.1	1 R	1 R	1.4	1.1	N/A	6.7	1.7	2.1 J	
Sulfate	270	N/A	430	430	400	390	77	77	N/A	60	58	40	
<b>Metals</b>													
Aluminum	116 J	N/A	350 U	350 UJ	4990 D	180 UD	N/A	N/A	N/A	1630 UJ	350 UJ	610 JD	
Calcium	504000	N/A	514000 D	487000 D	1510000 D	1420000 D	N/A	N/A	N/A	779000 D	684000 D	1750000 D	
Iron	15.4 U	N/A	1550 D	41 UD	6350	71.3 J	N/A	N/A	N/A	14600 D	5500 D	7530	
Magnesium	107000	N/A	128000 D	124000 D	107000 D	97400 D	N/A	N/A	N/A	787000 D	851000 D	1030000 D	
Manganese	1.8 J	N/A	28.7 D	0.55 UD	121	0.25 U	N/A	N/A	N/A	514 D	188 D	420 D	
Potassium	81700 D	N/A	55600 D	54400 D	135000 D	133000 D	N/A	N/A	N/A	61300 D	58400 D	136000 D	
Silicon	1310 N*	N/A	5180 D	717 D	12700 D	804 D	N/A	N/A	N/A	13500 D	6450 D	6040 D	
Sodium	2830000 D	N/A	2490000 D	2410000 D	5810000 D	5790000 D	N/A	N/A	N/A	4030000 D	4280000 D	8670000 D	
<b>TOC</b>													
Total Organic Carbon	12	N/A	1 U	1 U	7.4	5.4	17	9.5	N/A	1.4	1.3	10 U	



## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-071	JPG-DU-08D	JPG-DU-08D	JPG-DU-08D	JPG-DU-08D	JPG-DU-08D	JPG-DU-08D	JPG-DU-08I	JPG-DU-08I	JPG-DU-08I	JPG-DU-08I	JPG-DU-08I
	Sample ID	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC12	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	60.0	135.7	135.7	138.0	138.0	39.3	139.0	39.2	39.2	36.0	36.0	38.8
Parameter	Sample Date	02/17/2009	04/25/2008	04/25/2008	07/27/2008	07/27/2008	10/24/2008	02/17/2009	04/24/2008	04/24/2008	07/27/2008	07/27/2008	10/24/2008
<b>Alkalinity</b>													
Alkalinity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	160	N/A	160	N/A	290
<b>Common Anions</b>													
Chloride	21000	22000	22000	22000	23000	N/A	N/A	18000	19000	8400	17000	11000	
Nitrate	1.4 J	0.5 U	0.5 U	1 R	1 R	N/A	N/A	2.4	5.1 J	18	8.9 J	16 J	
Sulfate	24	470	410	580	470	N/A	N/A	39	61	100	60	120	
<b>Metals</b>													
Aluminum	180 UD	191 J	26.7 U	N/A	N/A	N/A	N/A	1100	26.7 U	421 U	200 U	350 UJ	
Calcium	1520000 D	1780000 D	1770000 D	N/A	N/A	N/A	N/A	1210000 D	1360000 D	1490000 D	873000 D	377000 D	
Iron	3270	915	564	N/A	N/A	N/A	N/A	10100	12000	11700	5390	4250 D	
Magnesium	987000 D	673000 D	678000 D	N/A	N/A	N/A	N/A	828000 D	936000 D	1030000 D	594000 D	451000 D	
Manganese	175 D	404	385	N/A	N/A	N/A	N/A	156	159	145	88	44.1 D	
Potassium	138000 D	231000 D	231000 D	N/A	N/A	N/A	N/A	96400 D	105000 D	122000 D	80600 D	32000 D	
Silicon	4560 D	4620	4500	N/A	N/A	N/A	N/A	5100 J	4280 J	4300	3100	3770 D	
Sodium	9280000 D	8100000 D	8070000 D	N/A	N/A	N/A	N/A	7220000 D	8120000 D	8780000 D	5660000 D	2610000 D	
<b>TOC</b>													
Total Organic Carbon	10 U	N/A	N/A	N/A	N/A	N/A	N/A	1 U	1 U	1 U	1 U	1 U	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

Location ID	JPG-DU-08I	JPG-DU-08I	JPG-DU-08I	JPG-DU-09D	JPG-DU-09D	JPG-DU-09D	JPG-DU-09D	JPG-DU-09D	JPG-DU-09D	JPG-DU-09D	JPG-DU-09D	JPG-DU-09D	JPG-DU-09D
Sample ID	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09D	SAIC09DF	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12
Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
Depth (ft.)	38.8	36.0	36.0	83.5	83.5	83.5	83.5	83.9	83.9	59.0	59.0	83.9	83.9
Parameter	Sample Date	10/24/2008	02/17/2009	02/17/2009	04/14/2008	04/14/2008	04/14/2008	04/14/2008	07/31/2008	07/31/2008	10/27/2008	10/27/2008	02/16/2009
<b>Alkalinity</b>													
Alkalinity	N/A	280	N/A	120	130	N/A	N/A	130	N/A	130	N/A	120	
<b>Common Anions</b>													
Chloride	6200	3800	9800	39000	37000	38000	41000	30000	29000	26000	33000	34000	
Nitrate	19 J	17	9.8	0.5 R	0.5 R	0.52 UJ	0.5 R	0.1 U	0.1 U	0.84 J	0.5 J	0.5 R	
Sulfate	150	220	120	180	170	110	180	300	290	220	160	160	
<b>Metals</b>													
Aluminum	350 UJ	36 U	180 UD	200 UJ	200 UJ	26.7 UN	26.7 UN	355 JND	431 JND	3500 UND	3500 UND	180 UND	
Calcium	442000 D	381000	377000 D	2240000 D	2210000 D	2160000 D	2200000 D	2860000 D	2860000 D	1970000 D	2830000 D	2130000 D	
Iron	5290 D	2610	2710	850 UJ	723 UJ	432 J	546 J	154 UD	154 UD	820 UD	820 UD	611	
Magnesium	548000 D	252000	254000 D	1470000 D	1440000 D	1410000 D	1440000 D	1150000 D	1150000 D	1090000 J	1420000 J	1470000 D	
Manganese	46.1 D	18.7	27.1 D	575	494	369	413	370 D	372 D	212 JD	201 JD	157 D	
Potassium	35800 D	45400	31600 D	203000 D	199000 D	190000 D	195000 D	182000 D	183000 D	160000 D	225000 D	174000 D	
Silicon	3070 D	2820	1830 D	3580 UJ	3570 UJ	3170 J	3320 J	3670 N'D	3520 N'D	3120 JD	3870 JD	3460 J	
Sodium	2990000 D	3070000 D	4760000 D	13500000 D	13000000 D	12400000 D	13200000 D	15500000 D	16400000 D	12700000 D	18500000 D	15000000 D	
<b>TOC</b>													
Total Organic Carbon	1 U	5.7	5.6	10 U	10 U	10 U	10 U	1.4	1.2	2	10 U	1 U	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-09D	JPG-DU-09I	JPG-DU-09I	JPG-DU-09I	JPG-DU-09I	JPG-DU-09I	JPG-DU-09I	JPG-DU-09I	JPG-DU-09I	JPG-DU-09I	JPG-DU-09I	JPG-DU-09O
	Sample ID	SAIC12F	SAIC09	SAIC09D	SAIC09DF	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	83.9	49.3	49.3	49.3	49.3	49.9	49.9	49.9	49.9	49.9	49.9	34.0
Parameter	Sample Date	02/16/2009	04/14/2008	04/14/2008	04/14/2008	04/14/2008	08/01/2008	08/01/2008	10/22/2008	10/22/2008	02/18/2009	02/18/2009	04/13/2008
<b>Alkalinity</b>													
Alkalinity	N/A	390	390	N/A	N/A	410	N/A	380	N/A	400	N/A	420	
<b>Common Anions</b>													
Chloride	34000	16	16	16	16	7.1	7.1	3.8	4.1	4.5 J	4.2 J	4.7	
Nitrate	0.5 R	1.1 U	1 U	1.1 U	1 U	1.1	1.1	0.88	0.92	0.68	0.7	0.1 U	
Sulfate	150	41	43	42	42	35	36	33	35	38	38	27	
<b>Metals</b>													
Aluminum	180 UND	680 UJ	667 UJ	200 UJ	200 UJ	447	131 J	1090 J	35 UN	57 J	36 U	1070	
Calcium	2210000 D	93000	87600	79300	84100	96000	86700	98900	87900	85300	88700	103000	
Iron	291	1350 UJ	910 UJ	150 UJ	150 UJ	768	52.1 J	1440	150 U	74.3 J	27 U	2450	
Magnesium	1490000 D	42400	42100	38900	41600	42600	40500	44800	42200	40800	42700	36800	
Manganese	140 D	84.1	55.7	5 J	11.1	53.3	6.1	51	3.8 J	27.2	28.3	95.8	
Potassium	179000 D	2250	2380	2170	2350	1410	1450	1630	1680	1920	1830	1280	
Silicon	3580 J	5310 J	5190 J	4240 J	4330 J	4710 N	4320 N	5370 J	3700 J	4050 J	4110 J	5720 D	
Sodium	15000000 D	34100	35500	34200	36000	25600 E	27000 E	22900	23200	22600	24400	20200	
<b>TOC</b>													
Total Organic Carbon	1 U	3.3	3.5	4.4	4.5	1.6	1.7	1.7	1.7	2	1.9	5.8	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	JPG-DU-090	JPG-DU-090	JPG-DU-090	JPG-DU-090	JPG-DU-090	JPG-DU-090	JPG-DU-090	JPG-DU-090	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D
	Sample ID	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	
	Depth (ft.)	34.0	33.7	33.7	34.7	34.7	34.7	34.7	85.3	85.3	88.9	88.9	88.9	
Parameter	Sample Date	04/13/2008	07/20/2008	07/20/2008	10/14/2008	10/14/2008	02/18/2009	02/18/2009	04/10/2008	04/10/2008	08/01/2008	08/01/2008	10/22/2008	
<b>Alkalinity</b>														
Alkalinity	N/A	440	N/A	450	N/A	420	N/A	260	N/A	240	N/A	230		
<b>Common Anions</b>														
Chloride	4.6	3.1	3.3	4.6	4.2	3.4 J	3.6 J	3000	3100	2700	2700	2700		
Nitrate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	7.5	0.24	0.1 U	0.1 U	0.1 U	0.1 U	1.7	
Sulfate	27	16	19	27	26	21	23	99	120	82	91	89		
<b>Metals</b>														
Aluminum	154 J	1820	35 U	3350	35 U	511	59.8 J	310 U	26.7 U	263	58.5 J	35 UN		
Calcium	103000	110000	111000	104000	106000	106000	107000	206000	102000	215000 D	212000 D	207000		
Iron	1440	5190	2380	6760	2450	2580	3960	1480	1230	1170	646	979		
Magnesium	37000	39300	40000	40200	38200	38300	38300	95500	38600	93500	92900	94100		
Manganese	88.7	115	97.4	119 E	97 E	74.7	75.2	74.6	916	43.1	53.8	62.9		
Potassium	1130	936	820	1340	911	983	887	35700	4570	30400 D	30700 D	31600		
Silicon	4860	6580	4430	9040	4310 NE	5820 J	4880 J	4710	10100	4320 N	4150 N	4110 J		
Sodium	20300	19200	19800	19700	20200	19300	19700	1430000 D	59500	1120000 ED	1180000 ED	1450000 D		
<b>TOC</b>														
Total Organic Carbon	5.3	3.2	3.6	5.6	4.6	3.4	3.3	4.1	3.4	2.3	2.6	2 U		

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

Location ID	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	JPG-DU-10D	MW-1
Sample ID	SAIC11F	SAIC12	SAIC12F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC12	SAIC12F	SAIC12F	SAIC12
Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
Depth (ft.)	88.9	89.0	89.0	65.3	65.3	69.1	69.1	42.0	42.0	69.1	69.1	69.1	34.0
Parameter	Sample Date	10/22/2008	02/19/2009	02/19/2009	04/10/2008	04/10/2008	08/01/2008	08/01/2008	10/27/2008	10/27/2008	02/18/2009	02/18/2009	02/08/2009
<b>Alkalinity</b>													
Alkalinity	N/A	230	N/A	460	N/A	610	N/A	530	N/A	560	N/A	320	
<b>Common Anions</b>													
Chloride	2600	3000	2700	33	30	44	37	82 J	74 J	71	54	0.99	
Nitrate	0.1 U	0.1 U	0.13	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.12	0.1 U	0.13	
Sulfate	96	71	73	45	48	18	18	7.7	7.6	7.4	7.7	17	
<b>Metals</b>													
Aluminum	35 UN	93.1 J	266	712	26.7 U	871	236	35 UN	35 UN	134 J	36 U	41.6 J	
Calcium	210000	204000	206000	107000	197000	97400	97100	103000	94500	105000	96500	96900	
Iron	822	1360	3790	2460	943	3730	1730	1250	1780	1790	1990	52.9 J	
Magnesium	95900	95500	96300	39900	91400	33500	33700	37600 J	34600 J	39500	35100	24300	
Manganese	64.5	58.6	80.8	1040	75.1	216	183	236	155	262	176	4.1 J	
Potassium	31800	31800	32300	4150	35500	1000	968	2000	1870	1770	1650	1400	
Silicon	4120 J	4430	4440	11400 D	3720	7990 N	6570 N	6660	5860	7500 J	6850 N	3650 N*	
Sodium	1440000 D	1320000 J	1320000 J	51800	1360000 D	129000 E	132000 E	113000	137000	101000	118000	1280 J	
<b>TOC</b>													
Total Organic Carbon	2 U	5 U	5 U	9.8	6.8	26	24	22	19	16	17	1 U	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

Location ID	MW-1	MW-10	MW-10	MW-11	MW-11	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-5
Sample ID	SAIC12F	SAIC12	SAIC12F	SAIC12	SAIC12F	SAIC12	SAIC12F	SAIC12	SAIC12D	SAIC12DF	SAIC12F	SAIC12F	SAIC12	SAIC12F	SAIC12
Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
Depth (ft.)	34.0	40.5	40.5	42.0	42.0	21.9	21.9	42.0	42.0	42.0	42.0	42.0	30.0	30.0	34.8
Parameter	Sample Date	02/08/2009	02/17/2009	02/17/2009	02/18/2009	02/18/2009	02/09/2009	02/09/2009	02/06/2009	02/06/2009	02/06/2009	02/06/2009	02/06/2009	02/06/2009	02/05/2009
<b>Alkalinity</b>															
Alkalinity	N/A	380	N/A	130	N/A	340	N/A	330	320	N/A	N/A	320	N/A	200	
<b>Common Anions</b>															
Chloride	0.87	6.9	6.8	36 J	42 J	3.4	3.3	3.4	3.6	3.9	3.9	7.8	7.8	3200	
Nitrate	0.1 U	0.1 U	0.1 U	0.23	0.34	0.45	0.38	0.12	0.12	0.11	0.11	3.1	3.1	0.57	
Sulfate	17	20	20	7.1	7.4	59	55	27	28	27	27	54	56	61	
<b>Metals</b>															
Aluminum	36 U	132 J	36 U	209	213	36 U	146 JN	104 J	639	97.6 J	36 U	36 U	36 U	180 UD	
Calcium	96900	81300	81100	35300	33200	95100	92400	83700	84600	80600	82900	70600	72800	330000 D	
Iron	56.7 J	291	27 U	617	6180	990	61.4 JN	537	792	114 J	95.6 J	43.6 J	27 U	156 JD	
Magnesium	23800	31200	30900	8200	8030	38800	37900	25500	26100	24100	24900	37100	38000	144000 D	
Manganese	0.25 J	19.7	9.5	7.7	22.7	12.7	6.6	20.9	21.4	13.3	14.3	9.9	1.4 J	35.4 D	
Potassium	1370	1220	1150	2390	2610	587	537	480	432	405	451	161 J	366	36700 D	
Silicon	3220 N*	9360	9610	1930 J	1800 J	3840	4050 N	18600 N*	11300 N*	15400 N*	18100 N*	5780 N*	5210 N*	4340 D	
Sodium	1240 J	42100	41100	28800	37500	9080	7760	12400	12800	12500	13000	17000	17200	1330000 D	
<b>TOC</b>															
Total Organic Carbon	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U	1 U	

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	MW-5	MW-6	MW-6	MW-7	MW-7	MW-8	MW-8	MW-9	MW-9	MW-DU-001	MW-DU-002	MW-DU-003	MW-DU-004
	Sample ID	SAIC12F	SAIC12	SAIC12F	SAIC12	SAIC12F	SAIC12	SAIC12F	SAIC12	SAIC12F	SAIC17E	SAIC17E	SAIC17E	SAIC17E
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	34.8	41.0	41.0	45.0	45.0	30.5	30.5	38.5	38.5	14.0	13.0	11.0	7.0
Parameter	Sample Date	02/05/2009	02/09/2009	02/09/2009	02/08/2009	02/08/2009	02/10/2009	02/10/2009	02/10/2009	02/10/2009	03/30/2012	03/30/2012	03/30/2012	03/30/2012
<b>Alkalinity</b>														
Alkalinity		N/A	240	N/A	420	N/A	280	N/A	320	N/A	N/A	N/A	N/A	N/A
<b>Common Anions</b>														
Chloride		2900	3.9	1.4	20	15	1.3	1.3	2400	2500	N/A	N/A	N/A	N/A
Nitrate		0.53	0.23	0.1 U	0.1 U	0.1 U	0.3	0.28	14	14	N/A	N/A	N/A	N/A
Sulfate		62	20	18	6.4	5.9	3.7	3.8	70	67	N/A	N/A	N/A	N/A
<b>Metals</b>														
Aluminum		180 UD	3330 N	36 UN	36 U	36 U	384	88.4 J	720 UD	720 UD	N/A	N/A	N/A	N/A
Calcium		311000 D	68500	62800	92700	89300	89900	89000	147000 D	185000 D	N/A	N/A	N/A	N/A
Iron		135 UD	3610 N	27 UN	824	1040	161	156	540 UD	540 UD	N/A	N/A	N/A	N/A
Magnesium		135000 D	18800	16300	34200	32300	14200	13900	80000 D	101000 D	N/A	N/A	N/A	N/A
Manganese		26.3 D	318	4.2 J	209	249	6.2	2.6 J	37 JD	99.1 JD	N/A	N/A	N/A	N/A
Potassium		35000 D	1030	666	1050	868	1050	1050	30400 D	32500 D	N/A	N/A	N/A	N/A
Silicon		4060 D	8960 N	4040 N	4360 N*	4680 N*	6860	6570	1940 D	2040 D	N/A	N/A	N/A	N/A
Sodium		1250000 D	8740	7340	34600	33000	2430 J	2260 J	1530000 D	1800000 D	N/A	N/A	N/A	N/A
<b>TOC</b>														
Total Organic Carbon		1 U	2.2	2.6	1 U	1 U	1 U	1 U	1.3	1 U	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID	MW-DU-005	MW-DU-006	MW-DU-007	MW-DU-007	MW-DU-008	MW-DU-009	MW-DU-010	MW-DU-011
	Sample ID	SAIC17E	SAIC17E	SAIC17DE	SAIC17E	SAIC17E	SAIC17E	SAIC17E	SAIC17E
	Sample Type	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
	Depth (ft.)	22.0	38.0	12.0	12.0	26.0	38.0	5.0	11.0
Parameter	Sample Date	03/30/2012	03/30/2012	03/30/2012	03/30/2012	03/30/2012	03/30/2012	03/30/2012	03/30/2012
<b>Alkalinity</b>									
Alkalinity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Common Anions</b>									
Chloride		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Metals</b>									
Aluminum		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calcium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Magnesium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Potassium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silicon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sodium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>									
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



**Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana**

Location ID	Sample ID	Sample Type	Depth (ft.)	Parameter	Sample Date	MW-1 SAIC09 WELL 32 4/21/2008	MW-1 SAIC09F WELL 32 4/21/2008	MW-1 SAIC10 WELL 34 7/31/2008	MW-1 SAIC10F WELL 34 7/31/2008	MW-1 SAIC11 WELL 32.7 10/23/2008	MW-1 SAIC11F WELL 32.7 10/23/2008	MW-10 SAIC09 WELL 38.1 4/23/2008	MW-10 SAIC09F WELL 38.1 4/23/2008	MW-10 SAIC10 WELL 38.5 7/17/2008	MW-10 SAIC10F WELL 38.5 7/17/2008	MW-10 SAIC11 WELL 12 10/27/2008	MW-10 SAIC11F WELL 12 10/27/2008	MW-11 SAIC09 WELL 39.4 4/23/2008	MW-11 SAIC09F WELL 39.4 4/23/2008
<b>Alkalinity</b>																			
Alkalinity	mg/l	1				220	N/A	310	N/A	330	N/A	400	N/A	370	N/A	350	N/A	120	N/A
<b>Common Anions</b>																			
Chloride	mg/l	0.1				1.4	0.1 U	0.5	0.46	0.67	0.61	8	8.2	6.7	6.5	5.6	6	51	51
Nitrate	mg/l	0.1				0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.11	0.1 U	0.1 UJ	0.1 U	0.1 U	0.31	0.33
Sulfate	mg/l	0.1				12	0.31	20	20	21	21	23	23	20	20	18	18	8.5	9.3
<b>Metals</b>																			
Aluminum	µg/l	200				32.9 J	130 J	61.6 JN	94.6 JN	35 U	35 U	130 J	26.7 U	267	35 U	35 UN	35 UN	218	26.7 U
Calcium	µg/l	1000				69200	65800	109000	111000	99300	98100	77300	78200	86400 J	79200 J	67900	77200	32400	31300
Iron	µg/l	150				110 J	143 J	427	37 J	150 U	150 U	396	15.4 U	882	21 J	200	8.2 U	296	25.4 J
Magnesium	µg/l	250				17400	16600	17400	17700	27000	26500	29300	29800	32300 J	29700 J	24300 J	27800 J	6900	6740
Manganese	µg/l	5				4.3 J	1.9 J	15.2	6.2	5 U	5 U	11.6	3.2 J	61.6	19.8	11.2	5 U	5.6	2.1 J
Potassium	µg/l	250				1310	1310	1570	1570	1600	1540	1380	1380	853	894	1920	1460	1390	1400
Silicon	µg/l	50				2700	2770	3450 N*	3230 N*	4300	4230	9370	9310	8680	8830	8660	9500	1970	1610
Sodium	µg/l	2500				2680	2520	1910 J	1690 J	1540 J	1600 J	41100	41900	37600	41100	53100	47500	40700	43600
<b>TDS</b>																			
Total Dissolved Solids						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>																			
Total Organic Carbon	mg/l	1				1.2	1	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	3	1.4	1 U	1 U

**Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana**

Location ID			MW-11	MW-11	MW-11	MW-11	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3
Sample ID	Units	Reporting Limit	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC09	SAIC09F	SAIC10	SAIC10D
Sample Type			WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
Depth (ft.)			42.3	42.3	42	42	22.9	22.9	22.9	22.9	22	22	42.5	42.5	42.5	42.5
Parameter Sample Date			8/1/2008	8/1/2008	10/27/2008	10/27/2008	4/22/2008	4/22/2008	7/22/2008	7/22/2008	10/10/2008	10/10/2008	4/22/2008	4/22/2008	7/22/2008	7/22/2008
<b>Alkalinity</b>																
Alkalinity	mg/l	1	N/A	N/A	190	N/A	300	N/A	290	N/A	330	N/A	320	N/A	300	300
<b>Common Anions</b>																
Chloride	mg/l	0.1	N/A	N/A	6600	12000	2	2	3.4	3.4	7	7.1	1.1	1.1	1.3	1.5
Nitrate	mg/l	0.1	N/A	N/A	4.6	5.2	1.5	1.5	0.1 U	0.1 U	0.1 U	0.1 U	0.15	0.14	0.1 U	0.1 U
Sulfate	mg/l	0.1	N/A	N/A	95	80	46	45	40	41	20	21	35	36	28	29
<b>Metals</b>																
Aluminum	µg/l	200	N/A	N/A	3500 UND	3500 UND	200 U	200 U	35 U	53.2 J	35 U	35 U	227 U	200 U	35 U	35 U
Calcium	µg/l	1000	N/A	N/A	893000 D	804000 D	78900	80600	83000	78200	75900 J	76500 J	92800	86500	91100	91500
Iron	µg/l	150	N/A	N/A	4040 JD	820 UD	319	150 U	134 JE	80.5 J	226	150 U	1090	150 U	509 E	373 E
Magnesium	µg/l	250	N/A	N/A	491000 J	499000 J	33400	34400	34400	33200	31700 J	32200 J	30400	28900	27800	28700
Manganese	µg/l	5	N/A	N/A	253 JD	210 JD	7.3	5.7	27.5	29.7	18.2 J	16.4 J	17.6	5.5	368	328
Potassium	µg/l	250	N/A	N/A	90300 D	81000 D	393	413	676	575	1060	1070	378	350	318	280
Silicon	µg/l	50	N/A	N/A	4270 JD	3180 JD	3660	3520	3800	3750	4510 J	4310 J	17300 D	22600 D	21800	21700
Sodium	µg/l	2500	N/A	N/A	5870000 D	5520000 D	5080	5150	8680 E	6510	18900 J	18900 J	10900	10700	13100 E	13100 E
<b>TDS</b>																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>																
Total Organic Carbon	mg/l	1	N/A	N/A	N/A	N/A	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

**Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana**

Location ID			MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-5	MW-5
Sample ID	Units	Reporting Limit	SAIC10DF	SAIC10F	SAIC11	SAIC11F	SAIC09	SAIC09F	SAIC10	SAIC10D	SAIC10DF	SAIC10F	SAIC11	SAIC11F	SAIC09	SAIC09F
Sample Type			WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
Depth (ft.)			42.5	42.5	38	38	21	21	28.3	28.3	28.3	28.3	22	22	32.8	32.8
Parameter	Sample Date		7/22/2008	7/22/2008	10/7/2008	10/7/2008	4/15/2008	4/15/2008	7/21/2008	7/21/2008	7/21/2008	7/21/2008	10/6/2008	10/6/2008	4/25/2008	4/25/2008
<b>Alkalinity</b>																
Alkalinity	mg/l	1	N/A	N/A	330	N/A	160	N/A	300	300	N/A	N/A	330	N/A	240	N/A
<b>Common Anions</b>																
Chloride	mg/l	0.1	1.5	1.4	1.2	1.6	10	9.9	7.8	8.1	8.8	8.3	8.6	9.3	2100	1900
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.11	0.1	2.1	2	0.1 U	0.1 U	0.18	0.18	1.1	1.5	0.21	0.17
Sulfate	mg/l	0.1	29	28	28	29	53	50	68	66	67	65	52	53	50	50
<b>Metals</b>																
Aluminum	µg/l	200	35 U	57.7 J	1070	49.4 J	47.1 J	53.7 J	35 U	35 U	35 U	35 U	96.5 J	94.6 J	77.9 J	28.1 J
Calcium	µg/l	1000	91500	90100	96400	96300	67700	70100	77300	80800	77700	80100	83600	84700	205000	199000
Iron	µg/l	150	55.5 JE	90.3 JE	966	210	317	67.8 J	244	300	41.2 J	23.7 J	32.6 J	15.4 U	258	40.6 J
Magnesium	µg/l	250	28700	27700	29400	31000	34600	35900	39100	41300	39000	41100	43100	43800	85000	83100
Manganese	µg/l	5	180	296	258	114	146	74.3	120	133	101	123	43.8	6.2	37.6	30.8
Potassium	µg/l	250	255	274	508 N	540 N	250 J	270	250 U	250 U	250 U	250 U	580	466	30000	29500
Silicon	µg/l	50	21800	20900	23100 N*	21900 N*	6100	5880	5320	5330	5360	5410	6110	6360	4340 N*D	4130 N*
Sodium	µg/l	2500	12600 E	13500 E	14100 E	15300 E	17800	18400	18300	18700	18200	18900	21300 E	21200 E	924000 D	900000 D
<b>TDS</b>																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>																
Total Organic Carbon	mg/l	1	1 U	1 U	1 U	1 U	1	1.1	1.2	1.1	1.2	1.6	1 U	1 U	1.1	1 U

**Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana**

Location ID			MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-7
Sample ID	Units	Reporting Limit	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC09	SAIC09F	SAIC10	SAIC10F
Sample Type			WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
Depth (ft.)			34.8	34.8	32.1	32.1	40	40	40	40	43	43	50.7	50.7	53.4	53.4
Parameter	Sample Date		7/29/2008	7/29/2008	10/21/2008	10/21/2008	4/15/2008	4/15/2008	7/30/2008	7/30/2008	10/21/2008	10/21/2008	4/9/2008	4/9/2008	7/22/2008	7/22/2008
<b>Alkalinity</b>																
Alkalinity	mg/l	1	280	N/A	210	N/A	160	N/A	340	N/A	330	N/A	400	N/A	390	N/A
<b>Common Anions</b>																
Chloride	mg/l	0.1	1800	1900	3400	3200	2.1	2.1	4.4	4.6	0.31	7.1	30	28	25	26
Nitrate	mg/l	0.1	0.28	0.23	0.66	0.66	0.1 U	0.1 J	0.1 U	0.11	0.46	0.38	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate	mg/l	0.1	52	52	56	33	17	17	11	12	12	11	7	7	6.1	6.2
<b>Metals</b>																
Aluminum	µg/l	200	65.7 J	92.1 J	35 UN	35 UN	413	30.8 J	525	263	3670 N	526 N	26.7 U	26.7 U	49.2 J	35 U
Calcium	µg/l	1000	214000	210000	192000	185000	60500	59100	83900	13600	47000	46200	91300	90800	92100	93400
Iron	µg/l	150	172	115 J	19.7 JN	15.4 UN	378	15.4 U	444	6580	3660 N	794 N	758	560	665 E	608 E
Magnesium	µg/l	250	89100	86400	83800	80900	14400	14100	24800	3400	16000	15500	34900	35000	35000	36000
Manganese	µg/l	5	21.9	19.7	37.2	36.2	64.4	4.5 J	136	656	497	108	187	150	161	141
Potassium	µg/l	250	30100 E	30000 E	41700	42000	924	904	911 E	268 E	1210	992	1370	1450	1170	1250
Silicon	µg/l	50	3900	3990	4020 N	4090 N	4430	3830	5790	7260	9150 N	5360 N	4600	4760	4300	4570
Sodium	µg/l	2500	982000 D	1000000 D	1640000 D	1570000 D	6460	6500	14500	2400 J	19000	19300	39300	41500	35100 E	38200 E
<b>TDS</b>																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>																
Total Organic Carbon	mg/l	1	1 U	1 U	1 U	1 U	2.5	2.6	1.8	1.7	N/A	N/A	1 U	1 U	1 U	1 U

**Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana**

Location ID			MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9	MW-9	MW-9	MW-9
Sample ID	Units	Reporting Limit	SAIC11	SAIC11F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F	SAIC09	SAIC09F	SAIC10	SAIC10F	SAIC11	SAIC11F
Sample Type			WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
Depth (ft.)			44	44	27	27	29	29	29.6	29.6	38	38	36	36	38	38
Parameter	Sample Date		10/7/2008	10/7/2008	4/15/2008	4/15/2008	7/21/2008	7/21/2008	10/9/2008	10/9/2008	4/25/2008	4/25/2008	7/27/2008	7/27/2008	10/14/2008	10/14/2008
<b>Alkalinity</b>																
Alkalinity	mg/l	1	400	N/A	170	N/A	230	N/A	250	N/A	N/A	N/A	N/A	N/A	320	N/A
<b>Common Anions</b>																
Chloride	mg/l	0.1	28	28	1.7	1.7	1.6	1.4	1.6	1.6	3800	N/A	3200	3300	3100	2700
Nitrate	mg/l	0.1	0.1 U	0.1 U	0.16	0.16	0.16	0.16	0.22	0.21	18	N/A	21	22 J	20	20
Sulfate	mg/l	0.1	6.7	6.7	3.7	3.8	3.5	3.4	3.6	3.5	82	N/A	88	89	95	93
<b>Metals</b>																
Aluminum	µg/l	200	39.9 J	81.6 J	511	26.7 U	35 U	35 U	109 J	33.4 J	N/A	N/A	1530	N/A	175 UD	175 UD
Calcium	µg/l	1000	98600	99000	63500	64300	76000	75400	86500	85300	N/A	N/A	225000	N/A	145000 D	138000 D
Iron	µg/l	150	596	517	2160	23.5 J	123 J	34.9 J	166	25.7 J	N/A	N/A	1860	N/A	175	8.2 U
Magnesium	µg/l	250	38700	39200	10400	10400	13200	13100	14400	14200	N/A	N/A	118000	N/A	82000	81400
Manganese	µg/l	5	141	125	9.4	0.78 J	131	111	13.8 E	6.1 E	N/A	N/A	119	N/A	47.8 ED	35.3 ED
Potassium	µg/l	250	1700 N	1740 N	972	860	823	786	1220	1130	N/A	N/A	42600	N/A	28400 D	27700 D
Silicon	µg/l	50	4680 N*	4910 N*	6060	6390	5980	6030	6390	6640	N/A	N/A	4140	N/A	2240	2020
Sodium	µg/l	2500	43900 E	44200 E	2120 J	2180 J	1410 J	1150 J	2410 J	2360 J	N/A	N/A	1920000 D	N/A	1370000 D	1310000 D
<b>TDS</b>																
Total Dissolved Solids			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOC</b>																
Total Organic Carbon	mg/l	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	Units	Reporting Limit	Kd Groundwater Spr2012 SAIC01 WELL 20.0 03/29/2012	MW-RS-1 SAIC09 WELL 10.5 04/08/2008	MW-RS-1 SAIC09F WELL 10.5 04/08/2008	MW-RS-1 SAIC10 WELL 14.9 07/27/2008	MW-RS-1 SAIC10F WELL 14.9 07/27/2008	MW-RS-1 SAIC11 WELL 13.3 10/10/2008	MW-RS-1 SAIC11D WELL 13.3 10/10/2008	MW-RS-1 SAIC11DF WELL 13.3 10/10/2008	MW-RS-1 SAIC11F WELL 13.3 10/10/2008	MW-RS-1 SAIC12 WELL 14.8 02/15/2009	MW-RS-1 SAIC12F WELL 14.8 02/15/2009
<b>Alkalinity</b>													
Alkalinity	mg/L	1	329	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	390	N/A	400	N/A	360	350	N/A	N/A	410	N/A
<b>Anions</b>													
Chloride	mg/L		8.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate	mg/L		0.016 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate	mg/L		51.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Common Anions</b>													
Chloride	mg/l	0.1	N/A	4 J	4.1	2.8	2.8	2	2	2	2	3.5	3.4
Nitrate	mg/l	0.1	N/A	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate	mg/l	0.1	N/A	22	23	14	15	12	12	13	13	20	20
<b>Metals</b>													
Aluminum	µg/L	200	2380	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	26.7 U	26.7 U	56.2 J	35 U	35 U	35 U	35 U	35 U	412 J	44 J
Calcium	µg/L	1000	86800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	76100	73500	72300	70600	69700 J	77600 J	67300 J	66300 J	126000	80800
Iron	µg/L	150	2360	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	270	219	243	221	337	475	227	235	1610	377
Magnesium	µg/L	250	27500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	42800	41500	41000	39600	40100 J	44300 J	38700 J	38200 J	73200	47800
Manganese	µg/L	5	167	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	291	276	285	274	243 J	266 J	240 J	240 J	354	223
Potassium	µg/L	250	1070	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	699	683	292 J	250 UJ	662	751	735	621	797	572
Silicon	µg/L	50	16400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	5490	5270	6250 J	6260 J	6020 J	5860 J	5690 J	6190 J	7220 J	5630 J
Sodium	µg/L	2500	25800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	28500	27900	23600	22900	21100 J	21100 J	21200 J	20900 J	28300	29200
<b>TOC</b>													
Total Organic Carbon	mg/L	1	1.1 J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	2.1	2	3.1	2.6	2.4	2.3	2.1	2.1	1.6	1.7
<b>Total Carbon</b>													
Total Carbon	mg/L		NF	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>													
Total Inorganic Carbon	mg/L		79.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID Sample ID Sample Type Depth (ft.) Parameter	MW-RS-2 SAIC09 WELL 22.7 04/08/2008	MW-RS-2 SAIC09D WELL 22.7 04/08/2008	MW-RS-2 SAIC09DF WELL 22.7 04/08/2008	MW-RS-2 SAIC09F WELL 22.7 04/08/2008	MW-RS-2 SAIC10 WELL 25.0 07/28/2008	MW-RS-2 SAIC10D WELL 25.0 07/28/2008	MW-RS-2 SAIC10DF WELL 25.0 07/28/2008	MW-RS-2 SAIC10F WELL 25.0 07/28/2008	MW-RS-2 SAIC11 WELL 26.1 10/10/2008	MW-RS-2 SAIC11D WELL 26.1 10/10/2008	MW-RS-2 SAIC11DF WELL 26.1 10/10/2008	MW-RS-2 SAIC11F WELL 26.1 10/10/2008	MW-RS-2 SAIC12 WELL 27.0 02/16/2009	MW-RS-2 SAIC12F WELL 27.0 02/16/2009
<b>Alkalinity</b>															
Alkalinity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		170	170	N/A	N/A	180	180	N/A	N/A	180	170	N/A	N/A	170	N/A
<b>Anions</b>															
Chloride		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Common Anions</b>															
Chloride		1.2	1.2	1.2	1.3	0.76	0.75	0.74	0.76	0.86	0.82	0.82	0.94	0.87	0.82
Nitrate		0.18 J	0.15	0.1 J	0.1 UJ	0.1 U	0.1	0.1 U	0.1 U	0.34	0.13	0.13	0.13	0.14	0.14
Sulfate		27	26	26	26	26	24	25	25	26	26	26	28	26	26
<b>Metals</b>															
Aluminum		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		26.7 U	31.6 J	26.7 U	91.3 J	55.2 J	49.2 J	35 U	35 U	229	35 U	35 U	35 U	93.2 J	36 UN
Calcium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		36000	36100	36700	35900	36900	35000	35200	34600	35500 J	34700 J	34600 J	34800 J	35800	35800
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		159	173	210	1100	122 J	150 U	150 U	150 U	890	150 U	150 U	8.2 U	125 J	27 U
Magnesium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		16800	16900	17100	16700	17000	16100	16300	15900	16800 J	16300 J	16200 J	16300 J	17400	17400
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		6.2	6.8	6.9	13.4	7.1	1.9 J	1.6 J	1.3 J	3.9 J	1.9 J	1.7 U	5 U	2.2 J	0.47 J
Potassium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		314	330	323	339	250 UJ	250 UJ	250 UJ	250 UJ	373	452	386	352	374	278
Silicon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		8010	8050	7700	8000	7730 J	8250 J	7060 J	7980 J	8570 J	6840 J	7780 J	8480 J	7470 J	8340 J
Sodium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		21500	21800	22100	21700	20200	20200	20400	20500	21200 J	21000 J	20900 J	20900 J	23000	23400
<b>TOC</b>															
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
<b>Total Carbon</b>															
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>															
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# **Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana**

	Location ID Sample ID Sample Type Depth (ft.) Parameter	MW-RS-3 SAIC09 WELL 11.9 04/22/2008	MW-RS-3 SAIC09F WELL 11.9 04/22/2008	MW-RS-3 SAIC10 WELL 13.9 07/28/2008	MW-RS-3 SAIC10F WELL 13.9 07/28/2008	MW-RS-3 SAIC11 WELL 13.0 10/27/2008	MW-RS-3 SAIC11F WELL 13.0 10/27/2008	MW-RS-3 SAIC12 WELL 13.9 02/03/2009	MW-RS-3 SAIC12F WELL 13.9 02/03/2009	MW-RS-4 SAIC09 WELL 14.0 04/15/2008	MW-RS-4 SAIC09F WELL 14.0 04/15/2008	MW-RS-4 SAIC10 WELL 14.4 07/17/2008	MW-RS-4 SAIC10F WELL 14.4 07/17/2008	MW-RS-4 SAIC11 WELL 16.8 10/20/2008	MW-RS-4 SAIC11F WELL 16.8 10/20/2008
<b>Alkalinity</b>															
Alkalinity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		350	N/A	360	N/A	N/A	N/A	290	N/A	110	N/A	210	N/A	230	N/A
<b>Anions</b>															
Chloride		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Common Anions</b>															
Chloride		9.3	9.7	7.9	7.6	N/A	N/A	6.3	6.8	0.84	0.86	0.78	0.76	3.8	0.93
Nitrate		0.1 U	0.1 U	0.1 U	0.1 U	N/A	N/A	0.44	0.42	0.1 U	0.1 U	0.1 U	0.1 UJ	0.34	0.15
Sulfate		96	110	57	65	N/A	N/A	93	85	14	12	12	11	17	16
<b>Metals</b>															
Aluminum		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		200 U	26.7 U	67.6 J	35 U	N/A	N/A	550	36 U	416	26.7 U	796	35 U	10700	361
Calcium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		69800	67700	65300	61300	N/A	N/A	56400	58000	39500	36800	61100 J	64400 J	111000	73500
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		432	275 U	502	457	N/A	N/A	684	35.9 J	638	15.4 U	1750	138 J	19100	735
Magnesium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		27000	26300	24700	23100	N/A	N/A	21600	22800	7690	7180	11000 J	11300 J	29900	15300
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		684	651	931	854	N/A	N/A	250	276	188	177	1570	1180	923	347
Potassium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		262 U	250 U	250 UJ	250 UJ	N/A	N/A	332	178 J	545	464	612	529	1940	522
Silicon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		11800 D	11100 D	13900 J	14200 J	N/A	N/A	12500	12500	7260	6730	7060	7890	13200	10200
Sodium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		83100	80500	75000	74100	N/A	N/A	76000	73300	4800	4850	8670	7760	7980	8380
<b>TOC</b>															
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		3.8	4	2.9	3.3	N/A	N/A	2.9	2.9	1.2	1.1	1.4	1.4	5.1	1.8
<b>Total Carbon</b>															
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>															
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



# Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID Sample ID Sample Type Depth (ft.) Parameter	MW-RS-4 SAIC12 WELL 16.4 02/04/2009	MW-RS-4 SAIC12D WELL 16.4 02/04/2009	MW-RS-4 SAIC12DF WELL 16.4 02/04/2009	MW-RS-4 SAIC12F WELL 16.4 02/04/2009	MW-RS-5 SAIC09 WELL 12.6 04/14/2008	MW-RS-5 SAIC09F WELL 12.6 04/14/2008	MW-RS-5 SAIC10 WELL 14.8 08/01/2008	MW-RS-5 SAIC10F WELL 14.8 08/01/2008	MW-RS-5 SAIC11 WELL 15.7 10/20/2008	MW-RS-5 SAIC11F WELL 15.7 10/20/2008	MW-RS-5 SAIC12 WELL 14.7 02/09/2009	MW-RS-5 SAIC12D WELL 14.7 02/09/2009	MW-RS-5 SAIC12DF WELL 14.7 02/09/2009	MW-RS-5 SAIC12F WELL 14.7 02/09/2009
<b>Alkalinity</b>															
Alkalinity		N/A 11	N/A 12	N/A N/A	N/A N/A	N/A 25	N/A N/A	N/A 73	N/A N/A	N/A 180	N/A N/A	N/A 15	N/A 15	N/A N/A	N/A N/A
<b>Anions</b>															
Chloride		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Common Anions</b>															
Chloride		0.74	0.74	0.75	0.78	1.2	1	1	0.9	1.7	1.6	0.71	0.71	0.7	0.72
Nitrate		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25	0.24	0.23	0.24	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate		11	11	11	12	10	11	12	12	18	18	12	11	11	12
<b>Metals</b>															
Aluminum		N/A 479	N/A 318	N/A 36 U	N/A 36 U	N/A 2190 UJ	N/A 200 UJ	N/A 187 J	N/A 180 J	N/A 4090	N/A 4960	N/A 7870 N	N/A 7130 N	N/A 36 U	N/A 72.1 J
Calcium		N/A 7190	N/A 6910	N/A 6560	N/A 6560	N/A 9470	N/A 7770	N/A 19500	N/A 20500	N/A 55000	N/A 77100	N/A 6820	N/A 6930	N/A 6060	N/A 5480
Iron		N/A 812	N/A 173	N/A 27 U	N/A 27 U	N/A 2240 UJ	N/A 150 UJ	N/A 232	N/A 78.5 J	N/A 4050	N/A 8200	N/A 7140 N	N/A 6350 N	N/A 34.7 J	N/A 69.3 J
Magnesium		N/A 1290	N/A 1300	N/A 1200	N/A 1190	N/A 2480	N/A 1950	N/A 6410	N/A 6640	N/A 15500	N/A 45400	N/A 2430	N/A 2420	N/A 1630	N/A 1500
Manganese		N/A 21.1	N/A 17.4	N/A 15	N/A 13.8	N/A 132	N/A 87.5	N/A 127	N/A 165	N/A 247	N/A 1530	N/A 110	N/A 107	N/A 84.6	N/A 70.3
Potassium		N/A 181 J	N/A 290	N/A 205 J	N/A 176 J	N/A 1120	N/A 893	N/A 367	N/A 250 U	N/A 1010	N/A 748	N/A 1500	N/A 1490	N/A 948	N/A 958
Silicon		N/A 5480	N/A 5150	N/A 5040	N/A 5020	N/A 5900 J	N/A 3200 J	N/A 6570 N	N/A 8080 N	N/A 9380	N/A 17600	N/A 14700 ND	N/A 11200 N	N/A 2950	N/A 2820
Sodium		N/A 2160 J	N/A 2160 J	N/A 2070 J	N/A 2050 J	N/A 3970 U	N/A 3840 U	N/A 7260 E	N/A 7020 E	N/A 9750	N/A 269000	N/A 2530	N/A 2570	N/A 2640	N/A 2570
<b>TOC</b>															
Total Organic Carbon		N/A 1.3	N/A 1.3	N/A 1	N/A 1.2	N/A 7.5	N/A 3.6	N/A 1.6	N/A 1.5	N/A 6.4	N/A 1.8	N/A 4.1	N/A 3.6	N/A 3.7	N/A 3.2
<b>Total Carbon</b>															
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>															
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana

	Location ID Sample ID Sample Type Depth (ft.) Parameter Sample Date	MW-RS-6 SAIC09 WELL 14.0 04/14/2008	MW-RS-6 SAIC09F WELL 14.0 04/14/2008	MW-RS-6 SAIC10 WELL 14.8 07/15/2008	MW-RS-6 SAIC10F WELL 14.8 07/15/2008	MW-RS-6 SAIC11 WELL 16.5 10/14/2008	MW-RS-6 SAIC11D WELL 16.5 10/14/2008	MW-RS-6 SAIC11DF WELL 16.5 10/14/2008	MW-RS-6 SAIC11F WELL 16.5 10/14/2008	MW-RS-6 SAIC12 WELL 16.0 02/10/2009	MW-RS-6 SAIC12F WELL 16.0 02/10/2009	MW-RS-7 SAIC09 WELL 12.1 04/23/2008	MW-RS-7 SAIC09F WELL 12.1 04/23/2008	MW-RS-7 SAIC10 WELL 14.0 08/01/2008	MW-RS-7 SAIC10F WELL 14.0 08/01/2008
<b>Alkalinity</b>															
Alkalinity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		370	N/A	380	N/A	360	360	N/A	N/A	15	N/A	620	N/A	650	N/A
<b>Anions</b>															
Chloride		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Common Anions</b>															
Chloride		16	16	11	12	11	11	11	11	0.27	1.3	86	90	71	74
Nitrate		0.1 U	0.1 U	0.1 U	0.1 U	0.26	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate		51	48	43	45 J	44	44	43	44	16	16	230	240	130	130
<b>Metals</b>															
Aluminum		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		575 UJ	200 UJ	346	200 U	96.2 J	35 U	35 U	35 U	1460	36 U	330	26.7 U	478	35 U
Calcium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		68600	69600	68200	67900	66100	64400	65200	64200	7720	6460	60900	59600	67000	67600
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		921 UJ	15.4 UN	460 J	150 U	181	65.1 J	11.5 J	10.8 J	1120	63.9 J	892	303	1120	157
Magnesium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		22400	21900	22400	22400	22600	22600	23100	22200	1320	964	44000	43200	41000	42100
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		125	130	131	127	182 E	171 E	171 E	169 E	30.7	23.5	1170	1110	1250	1260
Potassium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		552	465	280	369	401	380	473	384	464	241 J	284	216 J	250 U	250 U
Silicon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		9660 J	9410 J	10300	9160	11400 NE	10200 NE	11300 NE	10900 NE	6960	5960	9960 D	9410	12400 N	11600 N
Sodium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		73700	70800	77100	76500	71000	69700	70700	69100	5670	4390	277000	275000	207000 E	232000 E
<b>TOC</b>															
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1.6	1.6	1.4	1.4	1.5	1.4	1.3	1.4	1.9	1.4	14	14	11	11
<b>Total Carbon</b>															
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>															
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# **Data Presentation: Nonradiological Groundwater Data, Jefferson Proving Ground, Madison, Indiana**

	Location ID Sample ID Sample Type Depth (ft.) Parameter	MW-RS-7 SAIC11 WELL 14.8 10/20/2008	MW-RS-7 SAIC11F WELL 14.8 10/20/2008	MW-RS-7 SAIC12 WELL 14.0 02/08/2009	MW-RS-7 SAIC12F WELL 14.0 02/08/2009	MW-RS-8 SAIC09 WELL 14.8 04/24/2008	MW-RS-8 SAIC09F WELL 14.8 04/24/2008	MW-RS-8 SAIC10 WELL 17.0 07/30/2008	MW-RS-8 SAIC10F WELL 17.0 07/30/2008	MW-RS-8 SAIC11 WELL 17.7 10/21/2008	MW-RS-8 SAIC11F WELL 17.7 10/21/2008	MW-RS-8 SAIC12 WELL 16.7 02/05/2009	MW-RS-8 SAIC12D WELL 16.7 02/05/2009	MW-RS-8 SAIC12DF WELL 16.7 02/05/2009	MW-RS-8 SAIC12F WELL 16.7 02/05/2009
<b>Alkalinity</b>															
Alkalinity		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		620	N/A	650	N/A	5	N/A	47	N/A	76	N/A	2	5.9	N/A	N/A
<b>Anions</b>															
Chloride		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Common Anions</b>															
Chloride		75	74	76	74	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.1	1.1	1.1
Nitrate		0.32	0.35	0.11	0.1 U	0.14	0.1 U	0.1 U	0.1 U	0.19	2.2	0.12	0.11	0.1 U	0.1 U
Sulfate		170	170	130	140	12	12	11	11	14	15	16	18	17	17
<b>Metals</b>															
Aluminum		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		20100	875	774	36 U	2690	200 U	474	84.6 J	5120 N	35 UN	1770	2580	1510	4910
Calcium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		127000	50300	68800	66000	5490	4870	14000	79500	24400 D	12400	5300	5840	5340	5680
Iron		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		39200	960	1350	41.9 J	5200	150 U	6370	76.8 J	8180 ND	300 N	896	1980	916	3250
Magnesium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		51900	13400	43300	43800	1390	1040	3570	24500	7670 D	3640	1580	1810	1540	1770
Manganese		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		2740	118	253	78.3	245	198	662	3.5 J	445	495	62.6	67	48.3	53
Potassium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1900	676	289	142 J	459	197 J	297 E	862 E	1010	511	327	341	266	566
Silicon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		17700	6950	11700 N*	10000 N*	9970 J	7570 J	8190	4590	13700 N	7550 N	8610	10900	8020	14900
Sodium		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		264000	9880	220000	230000	3220 U	2640 U	2700	14200	3110	2770	3070	3550	3400	3790
<b>TOC</b>															
Total Organic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		20	21	9.8	10	3	2.1	3.7	3.7	4.8	3.6	2.5	2.7	1.8	2.3
<b>Total Carbon</b>															
Total Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total Inorganic Carbon</b>															
Total Inorganic Carbon		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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## **DATA QUALITY ASSESSMENT**

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## **1 DATA QUALITY SUMMARY**

A comprehensive quality assurance/quality control (QA/QC) program was followed during the 2008/2009 Jefferson Proving Ground (JPG) Depleted Uranium (DU) site characterization sampling activities and the spring 2012 resampling and  $K_d$  study to ensure that analytical results and the decisions based on these results are representative of the environmental conditions at the JPG DU Impact Area.

Science Applications International Corporation (SAIC) performed data verification on 40 percent of the data (i.e., all analytical quality control [QC] results and laboratory documentation) based on the guidelines and specifications in the JPG DU site characterization quality assurance project plan [QAPP] (SAIC 2005), and Contract Laboratory Program (CLP) *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) with modifications for non-CLP methods. CLP-like Forms 1 through 14 were reviewed to ensure that the QC results fall within appropriate QC limits for holding times, blank contamination, calibrations, matrix spike/matrix spike duplicates (MS/MSDs), laboratory control samples (LCSs), internal standards, retention times, laboratory duplicates, serial dilutions, detection limits, isotopic tracers (radionuclide methods), and any other required QC data. Laboratory QC forms were reviewed to ensure that the QC results fall within the appropriate QC limits. An additional 10 percent of the data were validated using the guidelines described above, but also included recalculations from the raw data. Any resulting data validation qualifiers were applied and a data validation checklist was prepared for each analytical parameter for each sample delivery group (SDG) that received verification or validation. This data review process was followed for both the 2008/2009 site characterization samples and the spring 2012 resampling and  $K_d$  study resulting in a thorough review of 50 percent of the data. A complete Data Quality Assessment (DQA) is provided for both the 2008/2009 site characterization samples and the spring 2012 resampling and  $K_d$  study following this summary.

## **2 2008/2009 JPG DU SITE CHARACTERIZATION DATA USABILITY**

Data verification and validation was conducted on 2008/2009 JPG DU Impact Area data. Results that have been flagged or qualified U, UJ, or J for various reasons encountered minor analytical problems, with limited impact on the data quality. Analytical data were qualified as (R) due to significant quality assurance (QA) errors. Only 11 of 11,637 data points were rejected for the 2008/2009 JPG DU Impact Area samples. Results of the JPG DU Impact Area verification and validation process indicate that the data were 99.90 percent complete. Based on the evaluation of the field and laboratory QC results presented in the DQA, 99.9 percent of JPG DU Impact Area data be used in decision making. The only data that are not usable are summarized below and discussed in detail in the DQA.

### Listing of Rejected Data from JPG Site Characterization

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	SDG	Data Validation Qualifier	Reason Code
JPG-DU-09D	SAIC09	WELL	W	Nitrate	300	4083	R	1
JPG-DU-09D	SAIC09F	WELL	W	Nitrate	300	4083	R	1
JPG-DU-09D	SAIC09D	WELL	W	Nitrate	300	4083	R	1
JPG-DU-08D	SAIC10	WELL	W	Nitrate	300	7184	R	1
JPG-DU-08D	SAIC10F	WELL	W	Nitrate	300	7184	R	1
JP-PNGR-004	SAIC03	BORE	S	Uranium-238	4523	9049	R	44
JP-SC6-006	SAIC02	BORE	S	Uranium-238	4523	9048	R	44
JPG-DU-07D	SAIC12	WELL	W	Nitrate	300	2125	R	1
JPG-DU-07D	SAIC12F	WELL	W	Nitrate	300	2125	R	1
JPG-DU-09D	SAIC12	WELL	W	Nitrate	300	2118	R	1
JPG-DU-09D	SAIC12F	WELL	W	Nitrate	300	2118	R	1
Reason Code	Reason Description							
1	Exceeding holding times.							
44	Negative analytical result where the absolute value exceeds 2x the associated MDA.							

### 3 SPRING JPG DU 2012 RESAMPLING AND KD STUDY DATA USABILITY

Data verification and validation was conducted on the spring 2012 resampling and  $K_d$  study data. Results that have been flagged or qualified U, UJ, or J for various reasons encountered minor analytical problems, with limited impact on the data quality. No data points were rejected during the verification and validation process indicating that the data were 100 percent complete and all of the spring 2012 resampling and  $K_d$  study data can be used in assessing results and providing recommendations.





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## ACRONYMS AND ABBREVIATIONS

<b><u>Acronym</u></b>	<b><u>Full Title</u></b>
ASTM	American Society for Testing and Materials
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CLP	Contract Laboratory Program
CoC	Chain-of-Custody
CRDL	Contract Required Detection Limit
DER	Duplicate Error Ratio
DF	Dilution Factor
DI	Deionized
DOD	U.S. Department of Defense
DU	Depleted Uranium
FS	Feasibility Study
I.D.	Identification
ICS	Interference Check Sample
ICP	Inductively Coupled Plasma
ICV	Initial Calibration Verification
JPG	Jefferson Proving Ground
LCG	Louisville Chemistry Guideline
LCL	Lower Control Limit
LCS	Laboratory Control Sample
MDA	Minimum Detectable Activity
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate

QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
%R	Percent Recovery
RI	Remedial Investigation
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SAIC	Science Applications International Corporation
SDG	Sample Delivery Group
TOC	Total Organic Carbon
UCL	Upper Control Limit
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound

## DATA QUALITY ASSESSMENT

### 1 INTRODUCTION

A comprehensive quality assurance/quality control (QA/QC) program was followed during the Jefferson Proving Ground (JPG) Depleted Uranium (DU) Impact Area site characterization, in Madison, Indiana, to ensure that analytical results and the decisions based on these results are representative of the environmental conditions at the JPG DU Impact Area. Paragon, GPL, TestAmerica, and Empirical Laboratories, LLC, Nashville, Tennessee, conducted the analytical work for the Site Characterization at JPG. All analytical work was performed in accordance with the U.S. Environmental Protection Agency (USEPA) *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW846* (USEPA 2009), the USEPA *Methods for Chemical Analysis of Water and Wastes* (USEPA 1983), the *Standard Methods for the Examination of Water and Wastewater*, the *American Society for Testing and Materials* (ASTM) (ASTM 2009), and the *U.S. Department of Energy Procedures Manual: Gamma Method 4.5.2.3* (EML 1990). The following were used during the evaluation of the QC data: QC requirements contained within the guidelines and specifications presented in the JPG DU Site Characterization Quality Assurance Program Plan (QAPP) (SAIC 2005), and the USEPA Contract Laboratory Program (CLP) *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) with modifications for non-CLP methods.

### 2 LABORATORY QUALITY CONTROL ASSESSMENT

All environmental samples and field QC samples collected during the JPG DU site characterization are presented in Table 1 (all tables are presented at the end of this appendix) and were analyzed using USEPA test methods from the following documents:

- *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW846* (metals by SW6010B, and Total Organic Carbon (TOC) by EPA 415.1).
- *USEPA Methods for Chemical Analysis of Water and Wastes, the Standard Methods for the Examination of Water and Wastewater* (anions by EPA 300.0, alkalinity by EPA 310.1)
- ASTM (total and isotopic uranium by alpha spec:  $^{234}\text{U}$ ,  $^{235}\text{U}$ , and  $^{238}\text{U}$  by ASTM D3972-90M).
- *U.S. Department of Energy Procedures Manual: Gamma Method 4.5.2.3* (November 1990) (Isotopic Uranium by Gamma Method) (EML 1990)

Table 1 summarizes the number of samples collected per matrix for each analytical parameter.

Science Applications International Corporation (SAIC) verified 40 percent of the data (i.e., all analytical QC results and laboratory documentation) based on the guidelines and specifications in the JPG DU site characterization QAPP (SAIC 2005), and CLP *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) with modifications for non-CLP methods. CLP-like Forms 1 through 14 were reviewed to ensure that the QC results fall within appropriate QC limits for holding times, blank contamination, calibrations, MS/MSDs, LCSs, internal standards, retention times, laboratory duplicates, serial dilutions, detection limits, isotopic tracers (radionuclide methods), and any other required QC data. Laboratory QC forms will be reviewed to ensure that the QC results fall within the appropriate QC limits. An additional 10 percent of the data were validated using the guidelines described above, but also included recalculations on 10 percent of that data. Any resulting data validation qualifiers were applied and a data validation checklist was prepared for each analytical parameter for each sample delivery group (SDG) that received verification or validation.

All data validation qualifiers applied to the data are presented in Table 2.

A secondary stage of verification occurred once the initial validation had been completed. Individual equipment rinsate blanks and field blanks associated with the corresponding environmental samples were evaluated following the same criteria as method blanks, and the associated environmental samples were appropriately qualified and are summarized in Table 2.

## **2.1 Data Verification and Data Validation Report**

All environmental and field QC samples collected at JPG DU Impact Area were submitted to the analytical laboratories in Section 1 for analysis by the methods listed in Section 2. Laboratory QC forms were reviewed to ensure that the QC results fell within the appropriate QC limits. Any resulting data validation qualifiers were applied. A data verification checklist was prepared for each parameter validated. This section summarizes these parameter-specific checklists.

The following data validation qualifiers were applied to the results:

- *U*—The analyte was analyzed for, but was not detected above the reported sample quantitation limit. These results are qualitatively acceptable.
- *J*—The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. These results are qualitatively acceptable, but estimates.
- *UJ*—The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. These results are qualitatively acceptable, but estimates.
- *R*—The analyte was rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be verified.

Data qualifications were applied based on deviations from the measurement performance criteria identified in the QAPP (SAIC 2005).

### **2.1.1 Reanalysis of Samples Using Gamma-Spec Techniques**

Soil sampling and analysis at JPG was performed to meet a variety of technical needs including defining site-specific background as well as for corrosion and partition coefficient studies. The data was initially analyzed by alpha spectrometry. GPL subsequently was contracted to augment the alpha spectrometry analyses using gamma spectroscopy, initially for higher activity uranium samples and, subsequently, as a quality control regimen as a percentage of all soil samples. Both methods of isotopic uranium analysis are included in the following data quality assessment.

### **2.1.2 Sample Shipping/Receiving/Preservation**

All chain-of-custody (CoC), analysis request, and sample receipt documentation were complete and correct. All samples were properly preserved.

### **2.1.3 Technical Holding Times**

Based on an evaluation of all samples, all technical holding time criteria were met with the exceptions discussed below. Sample results that exceeded the technical holding time by a factor of 2 or more were rejected (R) for nondetects and estimated (J) for detects. Sample results associated with technical holding times exceeded by a factor of less than 2 were qualified as estimated (J/UJ). Table 2 lists the samples that were qualified due to missed holding times with reason code 1.

**Anion Analysis**—Nine nitrate water results were rejected (R) due to holding times being exceeded by a factor of 2 or more. Thirty nitrate water results were estimated (J/UJ) due to holding times being exceeded by a factor of less than 2. One chloride water result was estimated (J) due to holding time being exceeded by a factor of less than 2.

#### **2.1.4 Initial Calibration Results**

Initial calibration of each instrument used to analyze the samples collected during the JPG DU site characterization sampling was conducted in accordance with the methods listed in Section 2. Based on an evaluation of the initial calibration analyses conducted, all criteria requirements were met.

#### **2.1.5 Continuing Calibration Results**

Continuing calibration of each instrument used to analyze the samples collected during the JPG DU site characterization sampling was conducted in accordance with the methods listed in Section 2. Based on an evaluation of the continuing calibration analyses conducted, all criteria requirements were met with the exceptions summarized below. Table 2 lists the samples that were qualified due to continuing calibration verification (CCV) results with reason code 16.

**Anion Analysis**—Ten chloride water results were estimated (J) due to CCV results outside criteria.

#### **2.1.6 Method Blank Results**

Method blanks were analyzed with each batch (i.e., sample delivery group [SDG]) of samples in accordance with the methods listed in Section 2. Isotopic uranium results where the normalized absolute difference between the sample and the method blank was less than 2.58, were qualified as estimated (J.) All other analytical parameters were qualified as nondetect (U) if a contaminant was detected in the method blank and the associated sample detects were less than five times the blank results. No isotopic uranium was detected in the associated method blanks at concentrations that resulted in qualification of the data. Table 2 lists the samples that were qualified due to method blank contamination with reason code 6 and are summarized below.

**Metals Analysis**—Twenty-seven aluminum, 17 iron, 3 magnesium, 6 manganese, 2 potassium, 1 silicon, and 16 sodium results were qualified as nondetect (U) due to levels detected in the associated method blank at levels that might bias analytical results.

#### **2.1.7 Contract Required Detection Limit Standard**

Contract required detection limit (CRDL) standards were analyzed with each batch of metals samples in accordance with the methods listed in Section 2. All CRDL standard recoveries were acceptable with the exceptions discussed below. Sample results associated with CRDL standard recoveries outside of acceptance criteria were qualified as estimated (J/UJ). Table 2 lists the samples that were qualified due to CRDL standard recovery outliers with reason code 35.

**Metals Analysis**—Thirteen potassium sample results were qualified as estimated (J/UJ) due to unacceptable CRDL standard recoveries.

#### **2.1.8 Matrix Spike/Matrix Spike Duplicate Recovery Results**

MS/MSD analyses were conducted to assess the accuracy and precision of the analytical system and to evaluate the matrix effect of the sample upon the analytical methodology based upon the percent recovery of each compound. The control limits for percent recoveries and relative percent difference (RPD) were provided in the JPG DU site characterization QAPP (SAIC 2005). Because the National Functional Guidelines do not recommend the application of data validation qualifiers based solely on

MS/MSD results, these results were used in conjunction with other QC indicators (i.e., LCSs, serial dilutions, and CCVs) when qualifying the data. Rejection criteria were nondetect results associated with MS and/or MSD recoveries of less than 30 percent. In addition, metals rejection criteria requires that the MS/and or MSD rejection criteria be met and the post digestion spike have recoveries below the LCL. No data were rejected due to MS/MSD outliers. MS/and or MSD recoveries of greater than the 30 percent, but below the LCL resulted in estimation (J/UJ) of associated results in the native sample. High MS/MSD recoveries resulted in estimation (J) of detected compounds in the native samples. In addition, if the spiking concentration was less than 25 percent of the native concentration, no action was taken for noncompliant recoveries because the spike level is considered insignificant compared to the native sample concentration.

Recoveries of the spiked compounds were within acceptable ranges with the exceptions discussed below. Table 2 lists results that were qualified due to MS/MSD recoveries outside applicable QC limits with reason code 20.

**Metals Analysis**—Thirty-four aluminum, 16 iron, and 73 silicon results were qualified as estimated (J/UJ) due to MS/MSD recovery outliers.

**Anion Analysis**—Three sulfate and 5 nitrate results were qualified as estimated (J/UJ) due to MS/MSD recovery outliers.

### **2.1.9 Matrix Spike/Matrix Spike Duplicate and Laboratory Duplicate RPD Results**

The MS/MSD or laboratory duplicate RPD is used to evaluate the precision of the analytical system. The RPDs of all MS/MSDs were within the control limits specified in the QAPP (SAIC 2005) with the exceptions discussed below. Sample detects were qualified as estimated (J) if the MS/MSD or laboratory duplicate RPD was outside of applicable control limits for non-radiological analytical parameters. Isotopic uranium results were qualified as estimated (J) in the duplicate error ratio (DER) was greater than 2. Table 2 lists the samples results that were qualified due to RPDs outside applicable QC limits with reason code 19.

**Metals Analysis**—Twelve silicon results were qualified as estimated (J) due to MS/MSD or laboratory duplicate RPD values outside applicable QC limits.

**Isotopic Uranium Analysis**—Forty U-234 and 40 U-238 results were qualified as estimated (J) due to DER values greater than 2 between laboratory duplicates.

### **2.1.10 Laboratory Control Sample Results**

The LCS monitors the overall accuracy and performance of all steps in the analysis, including the preparation, and was prepared and analyzed in accordance with the methods listed in Section 2. Recoveries of the spiked compounds were within acceptable ranges.

### **2.1.11 Serial Dilutions**

Serial dilutions provide a measure of physical or chemical interferences that exist in the sample matrix for inductively coupled plasma (ICP) metals analysis. Sample detects are estimated (J) if the original sample concentration is greater than 50 times the method detection limit (MDL) and the serial dilution analysis (a five-fold dilution) yields a percent difference from the original result greater than 10. All serial dilution results were acceptable with the exceptions discussed below. Table 2 lists the sample results that were qualified due to serial dilution results outside acceptance criteria with reason code 24.



**Metals Analysis**—Twenty-six calcium, 3 iron, 36 magnesium, 14 manganese, 22 silicon, and 28 sodium sample results were qualified as estimated (J) due to serial dilution results outside acceptance criteria.

#### **2.1.12 ICP Interference Check Sample**

The ICP interference check sample (ICS) verifies the analytical instrument's ability to overcome interferences typical of those found in samples for ICP metals. The ICS consists of two solutions: Solution A and Solution AB. Solution A consists of the interferents, and Solution AB consists of the analytes mixed with the interferents. All ICSAB recovery criteria were met for the target ICP metals with the exception of those listed below. Table 2 lists the sample results that were qualified due to ICSAB recoveries outside acceptance limits with reason code 18.

**Metals Analysis**—Thirteen silicon sample results were qualified as estimated (J) due to ICSAB recovery outside acceptance criteria.

#### **2.1.13 Isotopic Uranium Total Propagated Uncertainty**

Isotopic uranium results greater than the MDC were qualified as estimated (J) if the total propagated uncertainty (TPU) was greater than 50 percent of the sample result. Table 2 lists sample results that were estimated due to TPUs greater than 50 percent of the sample result with reason code 37 and are summarized below.

**Isotopic Uranium Analysis**—One-hundred and ninety-four U-234, 730 U-235, and 181 U-238 sample results were qualified as estimated (J) due to having TPUs greater than 50 percent of the sample result.

#### **2.1.14 Chemical Yield**

Thirty-nine U-234 sample results, 37 U-235 sample results, and 39 U-238 sample results were qualified as estimated (J) due to chemical yield (tracer recovery) outside QC limits for alpha spec analysis. Table 2 lists the samples qualified due to poor chemical yield with reason code 38.

#### **2.1.15 Negative Gamma Method Isotopic Uranium Result**

In instances where the sample result produced a negative value that exceeded twice the associated minimum detectable activity (MDA), results were rejected. U-238 was rejected in Samples JP-PNGR-004 SAIC03 and JP-SC6-006 SAIC02 because the U-238 value was a negative value and was more than twice the MDA. Table 2 lists the samples rejected (R) due to negative values that exceed twice the MDA with reason code 44.

#### **2.1.16 Analytical Results less than both the associated counting uncertainty and MDA**

In instances where the gamma spec isotopic uranium analytical result was less than both the associated counting uncertainty and the MDA, results were qualified as estimated (UJ). Table 2 list samples where the reporting limit is estimated (UJ) due to results being less than the associated counting uncertainty and MDA with reason code 41.

#### **2.1.17 Analytical Results less the MDA but greater than the counting uncertainty.**

In instances where the gamma spec isotopic uranium analytical result was less than the MDA but greater than the associated counting uncertainty, results were qualified as nondetect, (U). Table 2 list

samples that were qualified as nondetect due to results being less than the MDA but greater than the counting uncertainty with reason code 42.

#### **2.1.18 Target Compound Identification**

The target compounds that were reported as detects satisfied all qualitative and quantitative identification as specified in the USEPA methods.

#### **2.1.19 Reporting Limits**

All reporting limit criteria specified in the JPG DU site characterization QAPP (SAIC 2005) were met except in instances where dilutions were required. In instances where dilutions were required, lesser diluted analyses were used wherever possible.

#### **2.1.20 System Performance**

Based on instrument performance indicators, all analytical systems remained within parameters throughout the duration of all soil and water sample analysis with the exceptions noted in Section 2.1.

### **3 FIELD QUALITY CONTROL ASSESSMENT**

During all activities conducted as part of JPG DU site characterization sampling program, QC samples were collected to gauge the impacts from various components of field activities. Field QC samples were obtained to determine the degree of cross-contamination, ensure successful decontamination procedures, or determine the effects of media heterogeneity on results. Equipment rinsate blanks and field blanks provide a measure of various cross-contamination, decontamination efficiency, and any other potential error that can be introduced from sources other than the sample. Field sample results associated with contaminants found in field QC blanks are considered nondetect if they are at concentrations less than five times the level found in the associated blank.

#### **3.1 Equipment Rinsate Blanks**

Rinsate blanks were collected in the field by rinsing the sampling equipment with deionized (DI) water and collecting in the appropriate sample container.

The following subsections summarize the compounds detected in the equipment rinsate blanks and the impact of this interference on the environmental data quality. Various metals and anions were detected in the equipment rinsate blanks at concentrations that might bias analytical results. No samples were qualified based on the equipment rinsate blanks with the exceptions listed below. Table 2 lists the samples that were qualified due to equipment rinsate blank results with reason code 8.

**Metals Analysis**—Four Aluminum, 8 iron, and 2 silicon sample detects that were less than five times the level found in the associated equipment rinsate blank were qualified as nondetect (U).

**Anion Analysis**—Five nitrate sample detects that were less than five times that of the associated equipment rinsate blank were qualified as nondetect (U).

#### **3.2 Field Blanks**

Field blanks were obtained in the field by collecting the source tap water and source DI water used for equipment decontamination into the appropriate sample container. The tap source field blank was not used to evaluate inorganics because inorganics exist in tap water at substantial concentrations. Sample detects that were associated with field blank detects at concentration of less than 5 times those in the field blank were qualified as nondetect (U) and are discussed below. Table 2 lists the samples that were qualified due to field blank contamination with reason code 27.

**Metals Analysis**—Four manganese and 6 silicon sample detects that were less than five times the level found in the associated field blank were qualified as nondetect (U).

#### 4 DATA USABILITY

Data verification and validation was conducted on JPG DU Impact Area data. Results that have been flagged or qualified U, UJ, or J for various reasons encountered minor analytical problems, with limited impact on the data quality. Analytical data were qualified as rejected (R) due to significant QA errors. Only 11 of 11,637 data points were rejected for the JPG DU Impact Area. For analytical data to be usable, each data point must be validated satisfactorily. Results of the JPG DU Impact Area verification and validation process indicate that the data were 99.90 percent complete. Based on the evaluation of the field and laboratory QC results presented in this report, 99.90 percent of JPG DU Impact Area data can be used in assessing results and providing recommendations. The only data that are not usable are the 11 rejected data points provided in Table 2 and summarized below:

Rejected Data										
Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization										
Site ID	Sample ID	Sample		Matrix	Analyte	Method	SDG	Data		
		Type	Site					Validation	Reason	UNITS
								Qualifier	Code	
JPG-DU-09D	SAIC09	WELL	DU	W	Nitrate	300	4083	R	1	mg/l
JPG-DU-09D	SAIC09F	WELL	DU	W	Nitrate	300	4083	R	1	mg/l
JPG-DU-09D	SAIC09D	WELL	DU	W	Nitrate	300	4083	R	1	mg/l
JPG-DU-08D	SAIC10	WELL	DU	W	Nitrate	300	7184	R	1	mg/l
JPG-DU-08D	SAIC10F	WELL	DU	W	Nitrate	300	7184	R	1	mg/l
JP-PNGR-004	SAIC03	BORE	PNGR	S	Uranium-2	4523	9049	R	44	pci/g
JP-SC6-006	SAIC02	BORE	SC6	S	Uranium-2	4523	9048	R	44	pci/g
JPG-DU-07D	SAIC12	WELL	DU	W	Nitrate	300	2125	R	1	mg/l
JPG-DU-07D	SAIC12F	WELL	DU	W	Nitrate	300	2125	R	1	mg/l
JPG-DU-09D	SAIC12	WELL	DU	W	Nitrate	300	2118	R	1	mg/l
JPG-DU-09D	SAIC12F	WELL	DU	W	Nitrate	300	2118	R	1	mg/l

Reason Code Reason Description

1 Exceeding holding times.

44 Negative analytical result where the absolute value exceeds 2x the associated MDA.

## 5 REFERENCES

- ASTM (American Society for Testing and Materials). 2009. Standard Test Method for Isotopic Uranium in Water by Radiochemistry. February.
- EML (Environmental Measurements Laboratory) Procedures Manual, U.S. Department of Energy, HASL-300, 27<sup>th</sup> Edition, Volume 1, 1990.
- SAIC (Science Applications International Corporation). 2005. Appendix A: Quality Assurance Program Plan; Depleted Uranium Impact Area Site Characterization Field Sampling Plan; Final. May.
- USEPA (U.S. Environmental Protection Agency). 1983. Methods for Chemical Analysis of Water and Wastes. March
- USEPA. 2002. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. EPA 540-R-01-008. July
- USEPA. 2009. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW846. March.

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
DR-DUA-07	SAIRB01	RNSW	Total/Isotopic Uranium
SOURCE-DI	SAIC01	FBLK	Total/Isotopic Uranium
DR-BHZ-07	SAIRB03	RNSW	Total/Isotopic Uranium
DR-NHZ-03	SAIRB02	RNSW	Total/Isotopic Uranium
JP-D-01	SAIC09	CREK	Total/Isotopic Uranium
JP-D-02	SAIC09	CREK	Total/Isotopic Uranium
JP-D-03	SAIC09	CREK	Total/Isotopic Uranium
JP-D-04	SAIC09	CREK	Total/Isotopic Uranium
JP-D-04	SAIC09D	CREK	Total/Isotopic Uranium
JP-D-05	SAIC09	CREK	Total/Isotopic Uranium
JP-D-06	SAIC09	CREK	Total/Isotopic Uranium
JP-D-07	SAIC09	CREK	Total/Isotopic Uranium
JP-D-08	SAIC09	CREK	Total/Isotopic Uranium
JP-D-09	SAIC09	CREK	Total/Isotopic Uranium
JP-D-10	SAIC09	CREK	Total/Isotopic Uranium
JP-D-11	SAIC09	CREK	Total/Isotopic Uranium
JP-D-12	SAIC09	CREK	Total/Isotopic Uranium
JP-D-13	SAIC09	CREK	Total/Isotopic Uranium
JP-D-14	SAIC09	CREK	Total/Isotopic Uranium
JP-D-15	SAIC09	CREK	Total/Isotopic Uranium
JP-D-16	SAIC09	CREK	Total/Isotopic Uranium
JP-D-19	SAIC09	CREK	Total/Isotopic Uranium
JP-W-01	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-01	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-02	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-02	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-03	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-03	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-04	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-04	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-05	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-05	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-06	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-06	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-07	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-07	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-08	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-08	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC09N	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC09ND	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC09FN	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC09FND	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-10	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-10	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-12	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-12	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-W-13	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-14	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-14	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC09D	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC09FD	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-16	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-16	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC09N	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC09NF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC09ND	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC09NDF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02D	SAIC09	WELL	Total/Isotopic Uranium
JPG-DU-02I	SAIRB51	RNSW	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02I	SAIRB51F	RNSW	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02I	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02I	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02I	SAIC09D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02I	SAIC09DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03I	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03I	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04D	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04D	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05D	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05D	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05I	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05I	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06D	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06D	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06I	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06I	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06O	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06O	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07D	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07D	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07I	SAIC09	WELL	Alkalinity, Common Anions, TOC, Total/Isotopic Uranium
JPG-DU-07I	SAIC09F	WELL	Common Anions, TOC, Total/Isotopic Uranium
JPG-DU-08D	SAIC09	WELL	Common Anions, Metals, Total/Isotopic Uranium
JPG-DU-08D	SAIC09F	WELL	Common Anions, Metals, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<b>Site ID</b>	<b>Sample ID</b>	<b>Sample Type</b>	<b>Analysis</b>
JPG-DU-08I	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-08I	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC09D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC09DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10D	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10D	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10O	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10O	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-7	SAIRB50	RNSW	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-7	SAIRB50F	RNSW	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC09D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC09DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-3	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-3	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-7	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-7	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCE-DI	SAIFB50	FBLK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCE-DI	SAIFB50F	FBLK	Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCETAP	SAIFB51	FBLK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCETAP	SAIFB51F	FBLK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-D-17	SAIC09	CREK	Total/Isotopic Uranium
JP-D-17	SAIC09D	CREK	Total/Isotopic Uranium
JP-D-18	SAIC09N	CREK	Total/Isotopic Uranium
JP-D-18	SAIC09ND	CREK	Total/Isotopic Uranium
JP-D-18	SAIC09	CREK	Total/Isotopic Uranium
JP-D-20	SAIC09	CREK	Total/Isotopic Uranium
JP-W-17	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-17	SAIC09FD	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-17	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-17	SAIC09D	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-18	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-18	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-20	SAIC09	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-20	SAIC09F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01D	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JPG-DU-01D	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC09	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC09F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC09D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC09DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-D-04	SAIC10	CREK	Total/Isotopic Uranium
JP-D-04	SAIC10N	CREK	Total/Isotopic Uranium
JP-D-04	SAIC10ND	CREK	Total/Isotopic Uranium
JP-D-05	SAIC10	CREK	Total/Isotopic Uranium
JP-D-07	SAIC10	CREK	Total/Isotopic Uranium
JP-D-08	SAIC10	CREK	Total/Isotopic Uranium
JP-D-09	SAIC10	CREK	Total/Isotopic Uranium
JP-D-10	SAIC10	CREK	Total/Isotopic Uranium
JP-D-11	SAIC10	CREK	Total/Isotopic Uranium
JP-D-13	SAIC10	CREK	Total/Isotopic Uranium
JP-D-14	SAIC10	CREK	Total/Isotopic Uranium
JP-D-15	SAIC10	CREK	Total/Isotopic Uranium
JP-D-17	SAIC10	CREK	Total/Isotopic Uranium
JP-D-19	SAIC10	CREK	Total/Isotopic Uranium
JP-D-19	SAIC10D	CREK	Total/Isotopic Uranium
JP-W-04	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-04	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-05	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-05	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-07	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-07	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-10	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-10	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC10N	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC10ND	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC10D	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC10DF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-17	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-17	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC10D	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC10DF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-21	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-21	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-22	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-22	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium



**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JPG-DU-01I	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC10N	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC10ND	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC10D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC10DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06O	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06O	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIRB52	RNSW	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIRB52F	RNSW	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCE-DI	SAIFB52	FBLK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCE-DI	SAIFB52F	FBLK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-D-01	SAIC10	CREK	Total/Isotopic Uranium
JP-D-02	SAIC10	CREK	Total/Isotopic Uranium
JP-D-03	SAIC10	CREK	Total/Isotopic Uranium
JP-D-06	SAIC10	CREK	Total/Isotopic Uranium
JP-D-12	SAIC10	CREK	Total/Isotopic Uranium
JP-D-12	SAIC10D	CREK	Total/Isotopic Uranium
JP-D-16	SAIC10	CREK	Total/Isotopic Uranium
JP-D-18	SAIC10	CREK	Total/Isotopic Uranium
JP-D-20	SAIC10	CREK	Total/Isotopic Uranium
JP-W-12	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-12	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-23	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-23	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-24	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-24	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-25	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-25	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-26	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-26	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-27	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-27	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-28	SAIC10	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-28	SAIC10F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01D	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01D	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02D	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02D	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02I	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JPG-DU-02I	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03I	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03I	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04D	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04D	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05D	SAIC10	WELL	Total/Isotopic Uranium
JPG-DU-05I	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05I	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06D	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06D	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06I	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06I	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07D	SAIC10	WELL	Total/Isotopic Uranium
JPG-DU-07I	SAIC10	WELL	Total/Isotopic Uranium
JPG-DU-08D	SAIC10	WELL	Common Anions, Total/Isotopic Uranium
JPG-DU-08D	SAIC10F	WELL	Common Anions, Total/Isotopic Uranium
JPG-DU-08I	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-08I	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10D	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10D	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-100	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-100	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC10D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC10DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-3	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-3	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-7	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-7	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC10	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC10F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-D-01	SAIC11	CREK	Total/Isotopic Uranium
JP-D-02	SAIC11	CREK	Total/Isotopic Uranium
JP-D-03	SAIC11	CREK	Total/Isotopic Uranium
JP-D-04	SAIC11	CREK	Total/Isotopic Uranium
JP-D-04	SAIC11N	CREK	Total/Isotopic Uranium
JP-D-04	SAIC11ND	CREK	Total/Isotopic Uranium
JP-D-05	SAIC11	CREK	Total/Isotopic Uranium
JP-D-06	SAIC11	CREK	Total/Isotopic Uranium
JP-D-07	SAIC11	CREK	Total/Isotopic Uranium
JP-D-08	SAIC11	CREK	Total/Isotopic Uranium
JP-D-08	SAIC11D	CREK	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-D-09	SAIC11	CREK	Total/Isotopic Uranium
JP-D-10	SAIC11	CREK	Total/Isotopic Uranium
JP-D-10	SAIC11D	CREK	Total/Isotopic Uranium
JP-D-11	SAIC11	CREK	Total/Isotopic Uranium
JP-D-12	SAIC11	CREK	Total/Isotopic Uranium
JP-D-13	SAIC11	CREK	Total/Isotopic Uranium
JP-D-14	SAIC11	CREK	Total/Isotopic Uranium
JP-D-15	SAIC11	CREK	Total/Isotopic Uranium
JP-D-16	SAIC11	CREK	Total/Isotopic Uranium
JP-D-17	SAIC11	CREK	Total/Isotopic Uranium
JP-D-18	SAIC11	CREK	Total/Isotopic Uranium
JP-D-19	SAIC11	CREK	Total/Isotopic Uranium
JP-D-20	SAIC11	CREK	Total/Isotopic Uranium
JP-PNAC-001	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-001	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-001	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-001	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-002	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-002	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-002	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-002	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-003	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-003	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-003	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-003	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-004	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-004	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-004	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-004	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-005	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-005	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-005	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-005	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-006	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-006	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-006	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-006	SAIC04	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-006	SAIC05	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-007	SAIRB70	RNSW	Metals, Total/Isotopic Uranium
JP-PNAC-007	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-007	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-007	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-007	SAIC04	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-007	SAIC05	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-008	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-008	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-008	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-008	SAIC04	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-008	SAIC05	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-009	SAIRB69	RNSW	Metals, Total/Isotopic Uranium
JP-PNAC-009	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-PNAC-009	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-009	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-009	SAIC04	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-009	SAIC05	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-010	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-010	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-010	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-010	SAIC04	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNAC-010	SAIC05	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-001	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-001	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-001	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-001	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-001	SAIC01N	BORE	Total/Isotopic Uranium
JP-PNCR-001	SAIC02N	BORE	Total/Isotopic Uranium
JP-PNCR-001	SAIC03N	BORE	Total/Isotopic Uranium
JP-PNCR-001	SAIC04N	BORE	Total/Isotopic Uranium
JP-PNCR-001	SAIC01ND	BORE	Total/Isotopic Uranium
JP-PNCR-001	SAIC02ND	BORE	Total/Isotopic Uranium
JP-PNCR-001	SAIC03ND	BORE	Total/Isotopic Uranium
JP-PNCR-001	SAIC04ND	BORE	Total/Isotopic Uranium
JP-PNCR-002	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-002	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-002	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-002	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-003	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-003	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-003	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-004	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-004	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-004	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-005	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-005	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-005	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC04	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC05	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC01D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC02D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC03D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC04D	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-006	SAIC05D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-007	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-007	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-007	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-008	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-008	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-008	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-008	SAIC04	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-PNCR-009	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-009	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-009	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-010	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-010	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-010	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNCR-010	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-001	SAIRB68	RNSW	Metals, Total/Isotopic Uranium
JP-PNGR-001	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-001	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-001	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-001	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-002	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-002	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-002	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-003	SAIC01	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-003	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-003	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-003	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-003	SAIC01D	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-003	SAIC02D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-003	SAIC03D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-003	SAIC04D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-004	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-004	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-004	SAIC03	BORE	Fe/Mn, pH, TOC/TC, Total/Isotopic Uranium, Total/Isotopic Uranium
JP-PNGR-004	SAIC04	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SAC-001	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-001	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SAC-002	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-002	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-002	SAIC04	BORE	Total/Isotopic Uranium
JP-SAC-003	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-003	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-003	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-003	SAIC04	BORE	Total/Isotopic Uranium
JP-SAC-004	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-004	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SAC-005	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-005	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-005	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-005	SAIC04	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC04	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SAC-006	SAIC01N	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC02N	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC03N	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC04N	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC03ND	BORE	Total/Isotopic Uranium
JP-SAC-006	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SAC-007	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-007	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SAC-007	SAIC01D	BORE	Total/Isotopic Uranium
JP-SAC-007	SAIC02D	BORE	Total/Isotopic Uranium
JP-SAC-007	SAIC03D	BORE	Total/Isotopic Uranium
JP-SAC-007	SAIC04D	BORE	Total/Isotopic Uranium
JP-SAC-008	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-008	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SAC-009	SAIC01	BORE	Total/Isotopic Uranium
JP-SAC-009	SAIC02	BORE	Total/Isotopic Uranium
JP-SAC-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SAC-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-001	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-001	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-002	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-002	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-002	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-003	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-003	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-003	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-003	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-003	SAIRB59	RNSW	Total/Isotopic Uranium
JP-SC1-004	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-004	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-005	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-005	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-006	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-006	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-006	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-006	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC1-006	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC1-006	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC1-006	SAIC04D	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC1-007	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC01N	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC02N	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC03N	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC04N	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC03ND	BORE	Total/Isotopic Uranium
JP-SC1-007	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SC1-008	SAIRB56	RNSW	Total/Isotopic Uranium
JP-SC1-008	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-008	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-009	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-009	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-010	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-010	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-010	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-010	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-011	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-011	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-011	SAIC03	BORE	Total/Isotopic Uranium
JP-SC1-011	SAIC04	BORE	Total/Isotopic Uranium
JP-SC1-012	SAIC01	BORE	Total/Isotopic Uranium
JP-SC1-012	SAIC02	BORE	Total/Isotopic Uranium
JP-SC1-012	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-001	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-001	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-001	SAIRB53	RNSW	Total/Isotopic Uranium
JP-SC2-002	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-002	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-002	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-003	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-003	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-003	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-003	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-004	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-004	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-005	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-005	SAIC02	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC2-005	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-005	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC01N	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC02N	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC03N	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC04N	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC03ND	BORE	Total/Isotopic Uranium
JP-SC2-006	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SC2-007	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-007	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-008	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-008	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-009	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-009	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-010	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-010	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-010	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-010	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-011	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-011	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-011	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-011	SAIC04	BORE	Total/Isotopic Uranium
JP-SC2-011	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC2-011	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC2-011	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC2-011	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC2-012	SAIC01	BORE	Total/Isotopic Uranium
JP-SC2-012	SAIC02	BORE	Total/Isotopic Uranium
JP-SC2-012	SAIC03	BORE	Total/Isotopic Uranium
JP-SC2-012	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-001	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-001	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-001	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-002	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-002	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-002	SAIC04	BORE	Total/Isotopic Uranium



**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC3-002	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-003	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-003	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-003	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-003	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-003	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-004	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-004	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-004	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-005	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC3-005	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-005	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-005	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-005	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC3-006	SAIC05D	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC3-007	SAIC05D	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC01N	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC02N	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC03N	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC04N	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC05N	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC03ND	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SC3-008	SAIC05ND	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC3-009	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-009	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-009	SAIC05	BORE	Total/Isotopic Uranium
JP-SC3-010	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-010	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-010	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-010	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-010	SAIRB61	RNSW	Total/Isotopic Uranium
JP-SC3-011	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-011	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-011	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-011	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-012	SAIC01	BORE	Total/Isotopic Uranium
JP-SC3-012	SAIC02	BORE	Total/Isotopic Uranium
JP-SC3-012	SAIC03	BORE	Total/Isotopic Uranium
JP-SC3-012	SAIC04	BORE	Total/Isotopic Uranium
JP-SC3-012	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-001	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-001	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-001	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-002	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-002	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-002	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-003	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-003	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-003	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-003	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-003	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-004	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-004	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-004	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC01N	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC02N	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC03N	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC04N	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC05N	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC03ND	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC4-005	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SC4-005	SAIC05ND	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC4-006	SAIC05D	BORE	Total/Isotopic Uranium
JP-SC4-007	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-007	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-007	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC01N	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC02N	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC03N	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC04N	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC05N	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC03ND	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SC4-008	SAIC05ND	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC01N	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC02N	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC03N	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC04N	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC05N	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC03ND	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SC4-009	SAIC05ND	BORE	Total/Isotopic Uranium
JP-SC4-010	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-010	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-010	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-010	SAIC04	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC4-010	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-011	SAIRB54	RNSW	Total/Isotopic Uranium
JP-SC4-011	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-011	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-011	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-011	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC01	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC02	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC03	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC04	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC05	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC4-012	SAIC05D	BORE	Total/Isotopic Uranium
JP-SC5-001	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-001	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-002	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-002	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-002	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-003	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-003	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-003	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-003	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-004	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-004	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-005	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-005	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-005	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-005	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-006	SAIRB60	RNSW	Total/Isotopic Uranium
JP-SC5-006	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-006	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-006	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-007	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-007	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-008	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-008	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-009	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-009	SAIC02	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC5-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-009	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC5-009	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC5-009	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC5-009	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC5-010	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-010	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-010	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-010	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-011	SAIRB58	RNSW	Total/Isotopic Uranium
JP-SC5-011	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-011	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-011	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-011	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-012	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-012	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-012	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-012	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-013	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-013	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-013	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-013	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-014	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-014	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-014	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-014	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-015	SAIRB57	RNSW	Total/Isotopic Uranium
JP-SC5-015	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-015	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-015	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-015	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-016	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-016	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-016	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-016	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-017	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-017	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-017	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-017	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-018	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-018	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-018	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-018	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-019	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-019	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-019	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-019	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-020	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-020	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-020	SAIC03	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC5-020	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-021	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-021	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-021	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-021	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-022	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-022	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-022	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-022	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-023	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-023	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-023	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-023	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-024	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-024	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-024	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-024	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-025	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-025	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-025	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-025	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-026	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-026	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-026	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-027	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-027	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-027	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-027	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC01N	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC02N	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC03N	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC04N	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC03ND	BORE	Total/Isotopic Uranium
JP-SC5-028	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SC5-029	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-029	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-029	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-029	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-030	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-030	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-030	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-030	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-030	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC5-030	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC5-030	SAIC03D	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC5-030	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC5-031	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-031	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-031	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-031	SAIC04	BORE	Total/Isotopic Uranium
JP-SC5-031	SAIC01D	BORE	Total/Isotopic Uranium
JP-SC5-031	SAIC02D	BORE	Total/Isotopic Uranium
JP-SC5-031	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC5-031	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC5-032	SAIRB55	RNSW	Total/Isotopic Uranium
JP-SC5-032	SAIC01	BORE	Total/Isotopic Uranium
JP-SC5-032	SAIC02	BORE	Total/Isotopic Uranium
JP-SC5-032	SAIC03	BORE	Total/Isotopic Uranium
JP-SC5-032	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-001	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-001	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-001	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-002	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-002	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-002	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-002	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-002	SAIC01D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-002	SAIC02D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-002	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC6-002	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC6-002	SAIC05D	BORE	Total/Isotopic Uranium
JP-SC6-003	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-003	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-003	SAIC03	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-003	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-003	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-003	SAIRB67	RNSW	Total/Isotopic Uranium
JP-SC6-004	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-004	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-004	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-005	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-005	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-005	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-005	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-005	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-006	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-006	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-006	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-006	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-007	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SC6-007	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-007	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-008	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-008	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-008	SAIC05	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-008	SAIC01D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-008	SAIC02D	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-008	SAIC03D	BORE	Total/Isotopic Uranium
JP-SC6-008	SAIC04D	BORE	Total/Isotopic Uranium
JP-SC6-008	SAIC05D	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-009	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC01N	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC02N	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC03N	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC04N	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC05N	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC01ND	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC02ND	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC03ND	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC04ND	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIC05ND	BORE	Total/Isotopic Uranium
JP-SC6-009	SAIRB66	RNSW	Metals, Total/Isotopic Uranium
JP-SC6-010	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-010	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-010	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-010	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-010	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-011	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-011	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-011	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-011	SAIC04	BORE	Total/Isotopic Uranium
JP-SC6-011	SAIC05	BORE	Total/Isotopic Uranium
JP-SC6-012	SAIC01	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-012	SAIC02	BORE	Total/Isotopic Uranium, Total/Isotopic Uranium
JP-SC6-012	SAIC03	BORE	Total/Isotopic Uranium
JP-SC6-012	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-001	SAIRB62	RNSW	Total/Isotopic Uranium
JP-SCR-001	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-001	SAIC02	BORE	Total/Isotopic Uranium
JP-SCR-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-002	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-002	SAIC02	BORE	Total/Isotopic Uranium



**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SCR-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-002	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-003	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-003	SAIC02	BORE	Total/Isotopic Uranium
JP-SCR-003	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-003	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-004	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-004	SAIC02	BORE	Total/Isotopic Uranium
JP-SCR-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-005	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-005	SAIC02	BORE	Total/Isotopic Uranium
JP-SCR-005	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-005	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-006	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-006	SAIC02	BORE	Total/Isotopic Uranium
JP-SCR-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-006	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-007	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-007	SAIC02	BORE	Total/Isotopic Uranium
JP-SCR-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-008	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-008	SAIC02	BORE	Total/Isotopic Uranium
JP-SCR-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SCR-008	SAIC01D	BORE	Total/Isotopic Uranium
JP-SCR-008	SAIC02D	BORE	Total/Isotopic Uranium
JP-SCR-008	SAIC03D	BORE	Total/Isotopic Uranium
JP-SCR-008	SAIC04D	BORE	Total/Isotopic Uranium
JP-SCR-009	SAIC01	BORE	Total/Isotopic Uranium
JP-SCR-009	SAIC02	BORE	Total/Isotopic Uranium
JP-SCR-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SCR-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SGR-001	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-001	SAIC02	BORE	Total/Isotopic Uranium
JP-SGR-001	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-001	SAIC04	BORE	Total/Isotopic Uranium
JP-SGR-002	SAIRB64	RNSW	Total/Isotopic Uranium
JP-SGR-002	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-002	SAIC02	BORE	Total/Isotopic Uranium
JP-SGR-002	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-003	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-003	SAIC02	BORE	Total/Isotopic Uranium
JP-SGR-003	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-004	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-004	SAIC02	BORE	Total/Isotopic Uranium
JP-SGR-004	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-004	SAIC04	BORE	Total/Isotopic Uranium
JP-SGR-005	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-005	SAIC02	BORE	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-SGR-005	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-005	SAIC04	BORE	Total/Isotopic Uranium
JP-SGR-006	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-006	SAIC02	BORE	Total/Isotopic Uranium
JP-SGR-006	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-006	SAIC04	BORE	Total/Isotopic Uranium
JP-SGR-006	SAIC01D	BORE	Total/Isotopic Uranium
JP-SGR-006	SAIC02D	BORE	Total/Isotopic Uranium
JP-SGR-006	SAIC03D	BORE	Total/Isotopic Uranium
JP-SGR-006	SAIC04D	BORE	Total/Isotopic Uranium
JP-SGR-007	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-007	SAIC02	BORE	Total/Isotopic Uranium
JP-SGR-007	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-007	SAIC04	BORE	Total/Isotopic Uranium
JP-SGR-008	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-008	SAIC02	BORE	Total/Isotopic Uranium
JP-SGR-008	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-008	SAIC04	BORE	Total/Isotopic Uranium
JP-SGR-009	SAIC01	BORE	Total/Isotopic Uranium
JP-SGR-009	SAIC02	BORE	Total/Isotopic Uranium
JP-SGR-009	SAIC03	BORE	Total/Isotopic Uranium
JP-SGR-009	SAIC04	BORE	Total/Isotopic Uranium
JP-SGR-009	SAIRB63	RNSW	Total/Isotopic Uranium
JP-W-04	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-04	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-04	SAIC11D	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-04	SAIC11DF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-05	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-05	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-07	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-07	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-12	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-12	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC11D	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC11DF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC11N	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC11NF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC11ND	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC11NDF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-21	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-21	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-W-22	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-22	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-23	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-23	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-24	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-24	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-26	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-26	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-27	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-27	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-28	SAIC11	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-28	SAIC11F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01D	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01D	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02D	SAIC11	WELL	Common Anions, Metals, Total/Isotopic Uranium
JPG-DU-02D	SAIC11F	WELL	Common Anions, Total/Isotopic Uranium
JPG-DU-02I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC11D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC11DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIRB65	RNSW	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIRB65F	RNSW	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05D	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05D	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06D	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06D	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06O	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06O	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07D	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07D	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-08D	SAIC11	WELL	Total/Isotopic Uranium
JPG-DU-08I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-08I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JPG-DU-09I	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10D	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10D	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10O	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10O	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC11D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC11DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC11D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC11DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-3	SAIC11	WELL	Total/Isotopic Uranium
MW-RS-3	SAIC11F	WELL	Total/Isotopic Uranium
MW-RS-4	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC11D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC11DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-7	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-7	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCETAP	SAIFB53	FBLK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCETAP	SAIFB53F	FBLK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04D	SAIC11	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04D	SAIC11F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-WKI-001	SAIC01	GRAB	Common Anions, Total/Isotopic Uranium
JP-D-01	SAIC12	CREK	Total/Isotopic Uranium
JP-D-02	SAIC12	CREK	Total/Isotopic Uranium
JP-D-03	SAIC12	CREK	Total/Isotopic Uranium
JP-D-04	SAIC12	CREK	Total/Isotopic Uranium
JP-D-05	SAIC12	CREK	Total/Isotopic Uranium
JP-D-06	SAIC12	CREK	Total/Isotopic Uranium
JP-D-07	SAIC12	CREK	Total/Isotopic Uranium
JP-D-08	SAIC12	CREK	Total/Isotopic Uranium
JP-D-09	SAIC12	CREK	Total/Isotopic Uranium
JP-D-10	SAIC12	CREK	Total/Isotopic Uranium
JP-D-10	SAIC12D	CREK	Total/Isotopic Uranium
JP-D-11	SAIC12	CREK	Total/Isotopic Uranium
JP-D-12	SAIC12	CREK	Total/Isotopic Uranium
JP-D-12	SAIC12N	CREK	Total/Isotopic Uranium
JP-D-12	SAIC12ND	CREK	Total/Isotopic Uranium
JP-D-13	SAIC12	CREK	Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-D-14	SAIC12	CREK	Total/Isotopic Uranium
JP-D-15	SAIC12	CREK	Total/Isotopic Uranium
JP-D-15	SAIC12D	CREK	Total/Isotopic Uranium
JP-D-16	SAIC12	CREK	Total/Isotopic Uranium
JP-D-17	SAIC12	CREK	Total/Isotopic Uranium
JP-D-18	SAIC12	CREK	Total/Isotopic Uranium
JP-D-19	SAIC12	CREK	Total/Isotopic Uranium
JP-D-20	SAIC12	CREK	Total/Isotopic Uranium
JP-W-01	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-01	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-02	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-02	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-03	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-03	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-04	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-04	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-05	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-05	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-06	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-06	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-07	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-07	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-08	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-08	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-09	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-10	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-10	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIRB72	RNSW	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIRB72F	RNSW	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC12D	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-11	SAIC12DF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-12	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-12	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-13	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-14	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-14	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC12D	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-15	SAIC12DF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-16	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-16	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-17	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-17	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-18	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-18	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
JP-W-19	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC12N	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC12NF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC12ND	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-19	SAIC12NDF	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-20	SAIC12	CREK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-W-20	SAIC12F	CREK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01D	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01D	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-01I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02D	SAIC12	WELL	Total/Isotopic Uranium
JPG-DU-02I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-02I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-03O	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04D	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04D	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-04O	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05D	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05D	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-05I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06D	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06D	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06O	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-06O	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07D	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07D	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-07I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-08D	SAIC12	WELL	Total/Isotopic Uranium
JPG-DU-08I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-08I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09D	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09I	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-09O	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10D	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10D	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10O	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
JPG-DU-10O	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<u>Site ID</u>	<u>Sample ID</u>	<u>Sample Type</u>	<u>Analysis</u>
MW-1	SAIRB71	RNSW	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-1	SAIRB71F	RNSW	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-1	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-1	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-10	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-10	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-11	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-11	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-2	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-2	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-3	SAIC12D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-3	SAIC12DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-3	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-3	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-4	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-4	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-4	SAIC12N	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-4	SAIC12NF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-4	SAIC12ND	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-4	SAIC12NDF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-5	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-5	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-6	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-6	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-7	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-7	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-7	SAIC12N	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-7	SAIC12NF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-7	SAIC12ND	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-7	SAIC12NDF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-8	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-8	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-9	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-9	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-1	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-2	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-3	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-3	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC12D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-4	SAIC12DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC12D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-5	SAIC12DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-6	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-7	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium

**Table 1. Sample Collection Summary**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

<b><u>Site ID</u></b>	<b><u>Sample ID</u></b>	<b><u>Sample Type</u></b>	<b><u>Analysis</u></b>
MW-RS-7	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC12	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC12F	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC12D	WELL	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
MW-RS-8	SAIC12DF	WELL	Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCE-DI	SAIFB54	FBLK	Alkalinity, Common Anions, Metals, TOC, Total/Isotopic Uranium
SOURCE-DI	SAIFB54F	FBLK	Common Anions, Metals, TOC, Total/Isotopic Uranium
JP-KAC-009	SAIC01	BORE	Fe/Mn, pH, TOC/TC
JP-KAC-010	SAIC04	BORE	Fe/Mn, pH, TOC/TC
JP-KCR-009	SAIC01	BORE	Fe/Mn, pH, TOC/TC
JP-KCR-010	SAIC04	BORE	Fe/Mn, pH, TOC/TC
JP-KGR-003	SAIC01	BORE	Fe/Mn, pH, TOC/TC
JP-KGR-004	SAIC04	BORE	Fe/Mn, pH, TOC/TC
JP-KAC-011	SAIRB73	RNSW	Metals, TOC, Total&Isotopic Uranium
JP-KAC-011	SAIC01	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total&Isotopic Uranium
JP-KAC-011	SAIC01D	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total&Isotopic Uranium
JP-KAC-012	SAIC01	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total&Isotopic Uranium
JP-KAC-012	SAIC01N	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total/Isotopic Uranium
JP-KAC-012	SAIC01ND	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total/Isotopic Uranium
JP-KAC-013	SAIC01	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total&Isotopic Uranium
JP-KCR-011	SAIC01	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total&Isotopic Uranium
JP-KCR-011	SAIRB74	RNSW	Metals, pH, TOC, Total&Isotopic Uranium
JP-KCR-012	SAIC01	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total&Isotopic Uranium
JP-KGR-005	SAIC01	BORE	Fe/Mn, Moisture, pH, TC, TOC, Total&Isotopic Uranium
SOURCE-DI	SAIFB55	FBLK	Metals, TOC, Total&Isotopic Uranium
SOURCE-TAP	SAIFB56	FBLK	Metals, TOC, Total&Isotopic Uranium



**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-D-02	SAIC09	CREK	S	Uranium-235	DOEU	4157		J	37	pCi/g
JP-D-03	SAIC09	CREK	S	Uranium-235	DOEU	4146		J	37	pCi/g
JP-D-05	SAIC09	CREK	S	Uranium-234	DOEU	4157		J	37	pCi/g
JP-D-09	SAIC09	CREK	S	Uranium-235	DOEU	4167		J	37	pci/g
JP-D-11	SAIC09	CREK	S	Uranium-234	DOEU	4157		J	37	pCi/g
JP-D-11	SAIC09	CREK	S	Uranium-238	DOEU	4157		J	37	pCi/g
JP-D-14	SAIC09	CREK	S	Uranium-234	DOEU	4157		J	37	pCi/g
JP-D-04	SAIC10	CREK	S	Uranium-234	DOEU	7120		J	37	pci/g
JP-D-05	SAIC10	CREK	S	Uranium-234	DOEU	7109		J	37	pci/g
JP-D-05	SAIC10	CREK	S	Uranium-235	DOEU	7109		J	37	pci/g
JP-W-01	SAIC09F	CREK	W	Uranium-238	SM75	4082		J	37	pCi/L
JP-W-02	SAIC09	CREK	W	Uranium-238	SM75	4157		J	37	pCi/L
JP-W-02	SAIC09F	CREK	W	Uranium-238	SM75	4157		J	37	pCi/L
JP-W-03	SAIC09	CREK	W	Nitrate	300	4146		UJ	1	mg/l
JP-W-03	SAIC09	CREK	W	Sodium	6010	4146		U	6	ug/l
JP-W-03	SAIC09	CREK	W	Uranium-234	SM75	4146		J	37	pCi/L
JP-W-03	SAIC09	CREK	W	Uranium-238	SM75	4146		J	37	pCi/L
JP-W-03	SAIC09F	CREK	W	Manganese	6010	4146	5	U	6,17	ug/l
JP-W-03	SAIC09F	CREK	W	Nitrate	300	4146		UJ	1	mg/l
JP-W-03	SAIC09F	CREK	W	Sodium	6010	4146		U	6	ug/l
JP-W-03	SAIC09F	CREK	W	Uranium-234	SM75	4146		J	37	pCi/L
JP-W-03	SAIC09F	CREK	W	Uranium-238	SM75	4146		J	37	pCi/L
JP-W-04	SAIC09	CREK	W	Uranium-234	SM75	4177		J	37	pci/L
JP-W-04	SAIC09F	CREK	W	Uranium-234	SM75	4177		J	37	pci/L
JP-W-05	SAIC09	CREK	W	Uranium-235	SM75	4157		J	37	pCi/L
JP-W-06	SAIC09	CREK	W	Aluminum	6010	4167	200	U	17	ug/l
JP-W-06	SAIC09	CREK	W	Iron	6010	4167	150	U	17	ug/l
JP-W-06	SAIC09	CREK	W	Manganese	6010	4167	5	U	27	ug/l
JP-W-06	SAIC09	CREK	W	Nitrate	300	4167		J	1	mg/l
JP-W-06	SAIC09	CREK	W	Silicon	6010	4167		J	19,20	ug/l
JP-W-06	SAIC09	CREK	W	Sodium	6010	4167		U	6,17	ug/l
JP-W-06	SAIC09	CREK	W	Uranium-234	SM75	4167		J	37	pci/L
JP-W-06	SAIC09F	CREK	W	Iron	6010	4167	150	U	17	ug/l
JP-W-06	SAIC09F	CREK	W	Manganese	6010	4167	5	U	6,17,27	ug/l
JP-W-06	SAIC09F	CREK	W	Nitrate	300	4167		J	1	mg/l
JP-W-06	SAIC09F	CREK	W	Silicon	6010	4167		J	19,20	ug/l
JP-W-06	SAIC09F	CREK	W	Sodium	6010	4167		U	6,17	ug/l
JP-W-06	SAIC09F	CREK	W	Uranium-234	SM75	4167		J	37	pci/L
JP-W-06	SAIC09F	CREK	W	Uranium-238	SM75	4167		J	37	pci/L
JP-W-07	SAIC09	CREK	W	Uranium-234	SM75	4177		J	37	pci/L
JP-W-07	SAIC09F	CREK	W	Uranium-234	SM75	4177		J	37	pci/L
JP-W-08	SAIC09	CREK	W	Nitrate	300	4146		UJ	1	mg/l
JP-W-08	SAIC09	CREK	W	Sodium	6010	4146	2500	U	6,17	ug/l
JP-W-08	SAIC09	CREK	W	Uranium-234	SM75	4146		J	37	pCi/L
JP-W-08	SAIC09F	CREK	W	Iron	6010	4146	150	U	6,17	ug/l
JP-W-08	SAIC09F	CREK	W	Manganese	6010	4146	5	U	17	ug/l
JP-W-08	SAIC09F	CREK	W	Nitrate	300	4146		UJ	1	mg/l
JP-W-08	SAIC09F	CREK	W	Sodium	6010	4146	2500	U	6,17	ug/l
JP-W-08	SAIC09F	CREK	W	Uranium-234	SM75	4146		J	37	pCi/L
JP-W-08	SAIC09F	CREK	W	Uranium-238	SM75	4146		J	37	pCi/L
JP-W-09	SAIC09	CREK	W	Aluminum	6010	4167	200	U	17	ug/l
JP-W-09	SAIC09	CREK	W	Iron	6010	4167	150	U	17	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-W-09	SAIC09	CREK	W	Manganese	6010	4167	5	U	6,27	ug/l
JP-W-09	SAIC09	CREK	W	Nitrate	300	4167		J	1	mg/l
JP-W-09	SAIC09	CREK	W	Silicon	6010	4167		J	19,20	ug/l
JP-W-09	SAIC09	CREK	W	Sodium	6010	4167	2500	U	6,17	ug/l
JP-W-09	SAIC09	CREK	W	Uranium-234	SM75	4167		J	37	pci/L
JP-W-09	SAIC09	CREK	W	Uranium-238	SM75	4167		J	37	pci/L
JP-W-09	SAIC09F	CREK	W	Iron	6010	4167	150	U	17	ug/l
JP-W-09	SAIC09F	CREK	W	Manganese	6010	4167	5	U	6,17	ug/l
JP-W-09	SAIC09F	CREK	W	Nitrate	300	4167		J	1	mg/l
JP-W-09	SAIC09F	CREK	W	Silicon	6010	4167		J	19,20	ug/l
JP-W-09	SAIC09F	CREK	W	Sodium	6010	4167	2500	U	6,17	ug/l
JP-W-10	SAIC09F	CREK	W	Uranium-234	SM75	4177		J	37	pci/L
JP-W-11	SAIC09	CREK	W	Uranium-234	SM75	4157		J	37	pCi/L
JP-W-11	SAIC09F	CREK	W	Uranium-234	SM75	4157		J	37	pCi/L
JP-W-12	SAIC09	CREK	W	Aluminum	6010	4146	200	U	6	ug/l
JP-W-12	SAIC09	CREK	W	Iron	6010	4146		U	17	ug/l
JP-W-12	SAIC09	CREK	W	Uranium-234	SM75	4146		J	37	pCi/L
JP-W-12	SAIC09	CREK	W	Uranium-238	SM75	4146		J	37	pCi/L
JP-W-12	SAIC09F	CREK	W	Iron	6010	4146	150	U	6,17	ug/l
JP-W-12	SAIC09F	CREK	W	Nitrate	300	4146		UJ	1	mg/l
JP-W-12	SAIC09F	CREK	W	Uranium-234	SM75	4146		J	37	pCi/L
JP-W-12	SAIC09F	CREK	W	Uranium-238	SM75	4146		J	37	pCi/L
JP-W-13	SAIC09	CREK	W	Silicon	6010	4167		J	19,20	ug/l
JP-W-13	SAIC09	CREK	W	Uranium-234	SM75	4167		J	37	pci/L
JP-W-13	SAIC09	CREK	W	Uranium-238	SM75	4167		J	37	pci/L
JP-W-13	SAIC09F	CREK	W	Iron	6010	4167	150	U	17	ug/l
JP-W-13	SAIC09F	CREK	W	Silicon	6010	4167		J	19,20	ug/l
JP-W-13	SAIC09F	CREK	W	Uranium-234	SM75	4167		J	37	pci/L
JP-W-13	SAIC09F	CREK	W	Uranium-238	SM75	4167		J	37	pci/L
JP-W-14	SAIC09	CREK	W	Uranium-235	SM75	4157		J	37	pCi/L
JP-W-14	SAIC09F	CREK	W	Uranium-235	SM75	4157		J	37	pCi/L
JP-W-15	SAIC09	CREK	W	Uranium-238	SM75	4177		J	37	pci/L
JP-W-15	SAIC09F	CREK	W	Uranium-238	SM75	4177		J	37	pci/L
JP-W-16	SAIC09	CREK	W	Silicon	6010	4167		J	19,20	ug/l
JP-W-16	SAIC09	CREK	W	Uranium-238	SM75	4167		J	37	pci/L
JP-W-16	SAIC09F	CREK	W	Aluminum	6010	4167	200	U	17	ug/l
JP-W-16	SAIC09F	CREK	W	Nitrate	300	4167		UJ	1	mg/l
JP-W-16	SAIC09F	CREK	W	Silicon	6010	4167		J	19,20	ug/l
JP-W-19	SAIC09	CREK	W	Uranium-234	SM75	4177		J	37	pci/L
JP-W-19	SAIC09	CREK	W	Uranium-238	SM75	4177		J	37	pci/L
JP-W-19	SAIC09F	CREK	W	Uranium-234	SM75	4177		J	37	pci/L
JP-W-19	SAIC09F	CREK	W	Uranium-238	SM75	4177		J	37	pci/L
JPG-DU-01I	SAIC09	WELL	W	Aluminum	6010	4074		U	17	ug/l
JPG-DU-01I	SAIC09	WELL	W	Uranium-238	SM75	4074		J	37	pCi/L
JPG-DU-01I	SAIC09F	WELL	W	Uranium-234	SM75	4074		J	37	pCi/L
JPG-DU-02D	SAIC09	WELL	W	Uranium-235	SM75	4177		J	37	pci/L
JPG-DU-02I	SAIRB51	RNSW	W	Aluminum	6010	4083		J	20	ug/l
JPG-DU-02I	SAIRB51	RNSW	W	Chloride	300	4083		U	17	mg/l
JPG-DU-02I	SAIRB51	RNSW	W	Iron	6010	4083		J	20	ug/l
JPG-DU-02I	SAIRB51	RNSW	W	Magnesium	6010	4083	250	U	17	ug/l
JPG-DU-02I	SAIRB51	RNSW	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-02I	SAIRB51	RNSW	W	Sodium	6010	4083	2500	U	6,17	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JPG-DU-02I	SAIRB51	RNSW	W	Uranium-234	SM75	4083		J	37	pCi/L
JPG-DU-02I	SAIRB51F	RNSW	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
JPG-DU-02I	SAIRB51F	RNSW	W	Chloride	300	4083		U	17	mg/l
JPG-DU-02I	SAIRB51F	RNSW	W	Magnesium	6010	4083	250	U	17	ug/l
JPG-DU-02I	SAIRB51F	RNSW	W	Manganese	6010	4083	5	U	6	ug/l
JPG-DU-02I	SAIRB51F	RNSW	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-02I	SAIRB51F	RNSW	W	Sodium	6010	4083	2500	U	6,17	ug/l
JPG-DU-02I	SAIC09	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
JPG-DU-02I	SAIC09	WELL	W	Iron	6010	4083		UJ	8,20	ug/l
JPG-DU-02I	SAIC09	WELL	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-02I	SAIC09	WELL	W	Uranium-234	SM75	4083		J	37	pCi/L
JPG-DU-02I	SAIC09	WELL	W	Uranium-238	SM75	4083		J	37	pCi/L
JPG-DU-02I	SAIC09F	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
JPG-DU-02I	SAIC09F	WELL	W	Iron	6010	4083		J	20	ug/l
JPG-DU-02I	SAIC09F	WELL	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-02I	SAIC09F	WELL	W	Uranium-234	SM75	4083		J	37	pCi/L
JPG-DU-02I	SAIC09D	WELL	W	Aluminum	6010	4083		UJ	6,17,20	ug/l
JPG-DU-02I	SAIC09D	WELL	W	Iron	6010	4083		UJ	8,20	ug/l
JPG-DU-02I	SAIC09D	WELL	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-02I	SAIC09D	WELL	W	Uranium-234	SM75	4083		J	37	pCi/L
JPG-DU-02I	SAIC09D	WELL	W	Uranium-238	SM75	4083		J	37	pCi/L
JPG-DU-02I	SAIC09DF	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
JPG-DU-02I	SAIC09DF	WELL	W	Iron	6010	4083		J	20	ug/l
JPG-DU-02I	SAIC09DF	WELL	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-02I	SAIC09DF	WELL	W	Uranium-234	SM75	4083		J	37	pCi/L
JPG-DU-02I	SAIC09DF	WELL	W	Uranium-238	SM75	4083		J	37	pCi/L
JPG-DU-03I	SAIC09F	WELL	W	Uranium-235	SM75	4062		J	37	pCi/L
JPG-DU-04D	SAIC09	WELL	W	Uranium-234	SM75	4177		J	37	pCi/L
JPG-DU-04D	SAIC09	WELL	W	Uranium-238	SM75	4177		J	37	pCi/L
JPG-DU-04D	SAIC09F	WELL	W	Uranium-234	SM75	4177		J	37	pCi/L
JPG-DU-04D	SAIC09F	WELL	W	Uranium-238	SM75	4177		J	37	pCi/L
JPG-DU-04I	SAIC09	WELL	W	Uranium-235	SM75	4105		J	37	pCi/L
JPG-DU-04I	SAIC09F	WELL	W	Uranium-235	SM75	4105		J	37	pCi/L
JPG-DU-04O	SAIC09	WELL	W	Uranium-234	SM75	4105		J	37	pCi/L
JPG-DU-04O	SAIC09	WELL	W	Uranium-238	SM75	4105		J	37	pCi/L
JPG-DU-04O	SAIC09F	WELL	W	Uranium-238	SM75	4105		J	37	pCi/L
JPG-DU-05D	SAIC09	WELL	W	Uranium-235	SM75	4177		J	37	pCi/L
JPG-DU-05I	SAIC09	WELL	W	Uranium-235	SM75	4105		J	37	pCi/L
JPG-DU-05I	SAIC09F	WELL	W	Uranium-235	SM75	4105		J	37	pCi/L
JPG-DU-06D	SAIC09	WELL	W	Uranium-235	SM75	4140		J	37	pCi/L
JPG-DU-06D	SAIC09F	WELL	W	Uranium-235	SM75	4140		J	37	pCi/L
JPG-DU-06O	SAIC09	WELL	W	Uranium-235	SM75	4105		J	37	pCi/L
JPG-DU-07D	SAIC09	WELL	W	Uranium-234	SM75	4177		J	37	pCi/L
JPG-DU-08D	SAIC09	WELL	W	Uranium-235	SM75	4177		J	37	pCi/L
JPG-DU-08I	SAIC09	WELL	W	Silicon	6010	4167		J	19,20	ug/l
JPG-DU-08I	SAIC09F	WELL	W	Nitrate	300	4167		J	1	mg/l
JPG-DU-08I	SAIC09F	WELL	W	Silicon	6010	4167		J	19,20	ug/l
JPG-DU-08I	SAIC09F	WELL	W	Uranium-235	SM75	4167		J	37	pCi/L
JPG-DU-09I	SAIC09	WELL	W	Aluminum	6010	4083		UJ	8,20	ug/l
JPG-DU-09I	SAIC09	WELL	W	Iron	6010	4083		UJ	8,20	ug/l
JPG-DU-09I	SAIC09	WELL	W	Nitrate	300	4083		U	8	mg/l
JPG-DU-09I	SAIC09	WELL	W	Silicon	6010	4083		J	20	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JPG-DU-09I	SAIC09F	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
JPG-DU-09I	SAIC09F	WELL	W	Iron	6010	4083	150	UJ	6,17,20	ug/l
JPG-DU-09I	SAIC09F	WELL	W	Nitrate	300	4083		U	8	mg/l
JPG-DU-09I	SAIC09F	WELL	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-09I	SAIC09F	WELL	W	Uranium-238	SM75	4083		J	37	pCi/L
JPG-DU-09I	SAIC09D	WELL	W	Aluminum	6010	4083		UJ	8,20	ug/l
JPG-DU-09I	SAIC09D	WELL	W	Iron	6010	4083		UJ	8,20	ug/l
JPG-DU-09I	SAIC09D	WELL	W	Nitrate	300	4083		U	8	mg/l
JPG-DU-09I	SAIC09D	WELL	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-09I	SAIC09D	WELL	W	Uranium-238	SM75	4083		J	37	pCi/L
JPG-DU-09I	SAIC09DF	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
JPG-DU-09I	SAIC09DF	WELL	W	Iron	6010	4083	150	UJ	6,17,20	ug/l
JPG-DU-09I	SAIC09DF	WELL	W	Nitrate	300	4083		U	8	mg/l
JPG-DU-09I	SAIC09DF	WELL	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-10D	SAIC09	WELL	W	Aluminum	6010	4074		U	17	ug/l
MW-1	SAIC09	WELL	W	Uranium-234	SM75	4140		J	37	pCi/L
MW-1	SAIC09	WELL	W	Uranium-238	SM75	4140		J	37	pCi/L
MW-1	SAIC09F	WELL	W	Uranium-234	SM75	4140		J	37	pCi/L
MW-1	SAIC09F	WELL	W	Uranium-238	SM75	4140		J	37	pCi/L
MW-11	SAIC09	WELL	W	Uranium-234	SM75	4157		J	37	pCi/L
MW-2	SAIC09	WELL	W	Aluminum	6010	4146	200	U	6	ug/l
MW-2	SAIC09F	WELL	W	Aluminum	6010	4146	200	U	6	ug/l
MW-2	SAIC09F	WELL	W	Iron	6010	4146	150	U	6,17	ug/l
MW-3	SAIC09	WELL	W	Aluminum	6010	4146		U	6	ug/l
MW-3	SAIC09	WELL	W	Uranium-238	SM75	4146		J	37	pCi/L
MW-3	SAIC09F	WELL	W	Aluminum	6010	4146	200	U	6	ug/l
MW-3	SAIC09F	WELL	W	Iron	6010	4146	150	U	6,17	ug/l
MW-3	SAIC09F	WELL	W	Uranium-238	SM75	4146		J	37	pCi/L
MW-5	SAIC09	WELL	W	Uranium-234	SM75	4177		J	37	pCi/L
MW-5	SAIC09	WELL	W	Uranium-238	SM75	4177		J	37	pCi/L
MW-5	SAIC09F	WELL	W	Uranium-234	SM75	4177		J	37	pCi/L
MW-5	SAIC09F	WELL	W	Uranium-238	SM75	4177		J	37	pCi/L
MW-7	SAIRB50	RNSW	W	Uranium-238	SM75	4062		J	37	pCi/L
MW-8	SAIC09	WELL	W	Uranium-234	SM75	4105		J	37	pCi/L
MW-8	SAIC09	WELL	W	Uranium-238	SM75	4105		J	37	pCi/L
MW-8	SAIC09F	WELL	W	Uranium-234	SM75	4105		J	37	pCi/L
MW-8	SAIC09F	WELL	W	Uranium-238	SM75	4105		J	37	pCi/L
MW-9	SAIC09	WELL	W	Uranium-238	SM75	4177		J	37	pCi/L
MW-RS-1	SAIC09	WELL	W	Chloride	300	4061		J	1	mg/l
MW-RS-1	SAIC09	WELL	W	Uranium-235	SM75	4061		J	37	pCi/L
MW-RS-1	SAIC09F	WELL	W	Nitrate	300	4061		UJ	1	mg/l
MW-RS-2	SAIC09	WELL	W	Nitrate	300	4061		J	1	mg/l
MW-RS-2	SAIC09	WELL	W	Uranium-234	SM75	4061		J	37	pCi/L
MW-RS-2	SAIC09	WELL	W	Uranium-238	SM75	4061		J	37	pCi/L
MW-RS-2	SAIC09F	WELL	W	Nitrate	300	4061		UJ	1	mg/l
MW-RS-2	SAIC09F	WELL	W	Uranium-234	SM75	4061		J	37	pCi/L
MW-RS-2	SAIC09D	WELL	W	Uranium-234	SM75	4061		J	37	pCi/L
MW-RS-2	SAIC09DF	WELL	W	Nitrate	300	4061		J	1	mg/l
MW-RS-2	SAIC09DF	WELL	W	Uranium-234	SM75	4061		J	37	pCi/L
MW-RS-2	SAIC09DF	WELL	W	Uranium-238	SM75	4061		J	37	pCi/L
MW-RS-3	SAIC09	WELL	W	Aluminum	6010	4146	200	U	6	ug/l
MW-RS-3	SAIC09	WELL	W	Potassium	6010	4146		U	6	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
MW-RS-3	SAIC09	WELL	W	Uranium-235	SM75	4146		J	37	pCi/L
MW-RS-3	SAIC09F	WELL	W	Iron	6010	4146		U	6	ug/l
MW-RS-3	SAIC09F	WELL	W	Potassium	6010	4146	250	U	6	ug/l
MW-RS-5	SAIC09	WELL	W	Aluminum	6010	4083		UJ	8,20	ug/l
MW-RS-5	SAIC09	WELL	W	Iron	6010	4083		UJ	8,20	ug/l
MW-RS-5	SAIC09	WELL	W	Silicon	6010	4083		J	20	ug/l
MW-RS-5	SAIC09	WELL	W	Sodium	6010	4083		U	6	ug/l
MW-RS-5	SAIC09	WELL	W	Uranium-234	SM75	4083		J	37	pCi/L
MW-RS-5	SAIC09	WELL	W	Uranium-238	SM75	4083		J	37	pCi/L
MW-RS-5	SAIC09F	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
MW-RS-5	SAIC09F	WELL	W	Iron	6010	4083	150	UJ	6,17,20	ug/l
MW-RS-5	SAIC09F	WELL	W	Silicon	6010	4083		J	20	ug/l
MW-RS-5	SAIC09F	WELL	W	Sodium	6010	4083		U	6,17	ug/l
MW-RS-5	SAIC09F	WELL	W	Uranium-238	SM75	4083		J	37	pCi/L
MW-RS-6	SAIC09	WELL	W	Aluminum	6010	4083		UJ	8,20	ug/l
MW-RS-6	SAIC09	WELL	W	Iron	6010	4083		UJ	8,20	ug/l
MW-RS-6	SAIC09	WELL	W	Silicon	6010	4083		J	20	ug/l
MW-RS-6	SAIC09F	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
MW-RS-6	SAIC09F	WELL	W	Silicon	6010	4083		J	20	ug/l
MW-RS-6	SAIC09F	WELL	W	Uranium-235	SM75	4083		J	37	pCi/L
MW-RS-8	SAIC09	WELL	W	Silicon	6010	4167		J	19,20	ug/l
MW-RS-8	SAIC09	WELL	W	Sodium	6010	4167		U	6	ug/l
MW-RS-8	SAIC09	WELL	W	Uranium-238	SM75	4167		J	37	pCi/L
MW-RS-8	SAIC09F	WELL	W	Aluminum	6010	4167	200	U	17	ug/l
MW-RS-8	SAIC09F	WELL	W	Iron	6010	4167	150	U	17	ug/l
MW-RS-8	SAIC09F	WELL	W	Silicon	6010	4167		J	19,20	ug/l
MW-RS-8	SAIC09F	WELL	W	Sodium	6010	4167		U	6,17	ug/l
SOURCE-DI	SAIFB50	FBLK	W	Nitrate	300	4061		UJ	1	mg/l
SOURCE-DI	SAIFB50	FBLK	W	Sodium	6010	4061	2500	U	6,17	ug/l
SOURCE-DI	SAIFB50F	FBLK	W	Sodium	6010	4061	2500	U	6,17	ug/l
SOURCETAP	SAIFB51	FBLK	W	Nitrate	300	4061		J	1	mg/l
SOURCETAP	SAIFB51	FBLK	W	Uranium-234	SM75	4061		J	37	pCi/L
SOURCETAP	SAIFB51	FBLK	W	Uranium-238	SM75	4061		J	37	pCi/L
SOURCETAP	SAIFB51F	FBLK	W	Uranium-234	SM75	4061		J	37	pCi/L
JP-D-10	SAIC10	CREK	S	Uranium-234	DOEU	7109		J	37	pCi/L
JP-W-17	SAIC09	CREK	W	Uranium-238	SM75	4184		J	37	pCi/L
JP-W-17	SAIC09D	CREK	W	Uranium-238	SM75	4184		J	37	pCi/L
JP-W-18	SAIC09	CREK	W	Uranium-234	SM75	4184		J	37	pCi/L
JP-W-18	SAIC09	CREK	W	Uranium-238	SM75	4184		J	37	pCi/L
JP-W-18	SAIC09F	CREK	W	Uranium-234	SM75	4184		J	37	pCi/L
JP-W-18	SAIC09F	CREK	W	Uranium-238	SM75	4184		J	37	pCi/L
JP-W-20	SAIC09	CREK	W	Uranium-234	SM75	4184		J	37	pCi/L
JP-W-20	SAIC09	CREK	W	Uranium-238	SM75	4184		J	37	pCi/L
JP-W-20	SAIC09F	CREK	W	Uranium-234	SM75	4184		J	37	pCi/L
JPG-DU-09D	SAIC09	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l
JPG-DU-09D	SAIC09	WELL	W	Iron	6010	4083		UJ	8,20	ug/l
JPG-DU-09D	SAIC09	WELL	W	Nitrate	300	4083		R	1	mg/l
JPG-DU-09D	SAIC09	WELL	W	Silicon	6010	4083		UJ	8,20	ug/l
JPG-DU-09D	SAIC09F	WELL	W	Iron	6010	4083		J	20	ug/l
JPG-DU-09D	SAIC09F	WELL	W	Nitrate	300	4083		R	1	mg/l
JPG-DU-09D	SAIC09F	WELL	W	Silicon	6010	4083		J	20	ug/l
JPG-DU-09D	SAIC09D	WELL	W	Aluminum	6010	4083	200	UJ	6,17,20	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JPG-DU-09D	SAIC09D	WELL	W	Iron	6010	4083		UJ	8,20	ug/l
JPG-DU-09D	SAIC09D	WELL	W	Nitrate	300	4083		R	1	mg/l
JPG-DU-09D	SAIC09D	WELL	W	Silicon	6010	4083		UJ	8,20	ug/l
JPG-DU-09D	SAIC09DF	WELL	W	Iron	6010	4083		J	20	ug/l
JPG-DU-09D	SAIC09DF	WELL	W	Nitrate	300	4083		UJ	1,8	mg/l
JPG-DU-09D	SAIC09DF	WELL	W	Silicon	6010	4083		J	20	ug/l
JP-D-10	SAIC10	CREK	S	Uranium-238	DOEU	7109		J	37	pci/g
JP-D-11	SAIC10	CREK	S	Uranium-234	DOEU	7120		J	37	pci/g
JP-D-11	SAIC10	CREK	S	Uranium-238	DOEU	7120		J	37	pci/g
JP-D-15	SAIC10	CREK	S	Uranium-235	DOEU	7128		J	37	pci/g
JP-D-19	SAIC10	CREK	S	Uranium-235	DOEU	7128		J	37	pci/g
JP-D-19	SAIC10D	CREK	S	Uranium-235	DOEU	7128		J	37	pci/g
JP-D-07	SAIC11	CREK	S	Uranium-235	DOEU	79		J	37	pci/g
JP-D-13	SAIC11	CREK	S	Uranium-235	DOEU	71		J	37	pci/g
JP-D-14	SAIC11	CREK	S	Uranium-235	DOEU	133		J	37	pci/g
JP-D-15	SAIC11	CREK	S	Uranium-235	DOEU	79		J	37	pci/g
JP-D-17	SAIC11	CREK	S	Uranium-235	DOEU	71		J	37	pci/g
JP-D-18	SAIC11	CREK	S	Uranium-235	DOEU	71		J	37	pci/g
JP-W-04	SAIC10	CREK	W	Calcium	6010	7120		J	24	ug/l
JP-W-04	SAIC10	CREK	W	Magnesium	6010	7120		J	24	ug/l
JP-W-04	SAIC10F	CREK	W	Calcium	6010	7120		J	24	ug/l
JP-W-04	SAIC10F	CREK	W	Magnesium	6010	7120		J	24	ug/l
JP-W-04	SAIC10F	CREK	W	Nitrate	300	7120		UJ	20	mg/l
JP-W-04	SAIC10F	CREK	W	Silicon	6010	7120		U	27	ug/l
JP-W-04	SAIC10F	CREK	W	Uranium-234	SM75	7120		J	37	pci/L
JP-W-05	SAIC10	CREK	W	Uranium-235	SM75	7109		J	37	pCi/L
JP-W-05	SAIC10F	CREK	W	Uranium-235	SM75	7109		J	37	pCi/L
JP-W-07	SAIC10	CREK	W	Uranium-234	SM75	7153		J	37	pci/L
JP-W-07	SAIC10	CREK	W	Uranium-238	SM75	7153		J	37	pci/L
JP-W-07	SAIC10F	CREK	W	Uranium-234	SM75	7153		J	37	pci/L
JP-W-09	SAIC10	CREK	W	Uranium-234	SM75	7153		J	37	pci/L
JP-W-09	SAIC10	CREK	W	Uranium-238	SM75	7153		J	37	pci/L
JP-W-10	SAIC10	CREK	W	Uranium-234	SM75	7109		J	37	pCi/L
JP-W-10	SAIC10F	CREK	W	Uranium-234	SM75	7109		J	37	pCi/L
JP-W-11	SAIC10	CREK	W	Calcium	6010	7120		J	24	ug/l
JP-W-11	SAIC10	CREK	W	Magnesium	6010	7120		J	24	ug/l
JP-W-11	SAIC10	CREK	W	Uranium-234	SM75	7120		J	37	pci/L
JP-W-11	SAIC10F	CREK	W	Calcium	6010	7120		J	24	ug/l
JP-W-11	SAIC10F	CREK	W	Magnesium	6010	7120		J	24	ug/l
JP-W-11	SAIC10F	CREK	W	Uranium-234	SM75	7120		J	37	pci/L
JP-W-13	SAIC10	CREK	W	Uranium-234	SM75	7153		J	37	pci/L
JP-W-13	SAIC10	CREK	W	Uranium-238	SM75	7153		J	37	pci/L
JP-W-13	SAIC10F	CREK	W	Uranium-234	SM75	7153		J	37	pci/L
JP-W-13	SAIC10F	CREK	W	Uranium-238	SM75	7153		J	37	pci/L
JP-W-15	SAIC10	CREK	W	Uranium-234	SM75	7128		J	37	pci/L
JP-W-15	SAIC10	CREK	W	Uranium-238	SM75	7128		J	37	pci/L
JP-W-15	SAIC10F	CREK	W	Silicon	6010	7128		U	27	ug/l
JP-W-15	SAIC10F	CREK	W	Uranium-234	SM75	7128		J	37	pci/L
JP-W-15	SAIC10F	CREK	W	Uranium-238	SM75	7128		J	37	pci/L
JP-W-15	SAIC10D	CREK	W	Silicon	6010	7128		U	27	ug/l
JP-W-15	SAIC10D	CREK	W	Uranium-234	SM75	7128		J	37	pci/L
JP-W-15	SAIC10D	CREK	W	Uranium-235	SM75	7128		J	37	pci/L

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-W-15	SAIC10D	CREK	W	Uranium-238	SM75	7128		J	37	pci/L
JP-W-15	SAIC10DF	CREK	W	Silicon	6010	7128		U	27	ug/l
JP-W-15	SAIC10DF	CREK	W	Uranium-234	SM75	7128		J	37	pci/L
JP-W-15	SAIC10DF	CREK	W	Uranium-238	SM75	7128		J	37	pci/L
JP-W-17	SAIC10	CREK	W	Uranium-234	SM75	7153		J	37	pci/L
JP-W-17	SAIC10	CREK	W	Uranium-238	SM75	7153		J	37	pci/L
JP-W-17	SAIC10F	CREK	W	Uranium-234	SM75	7153		J	37	pci/L
JP-W-17	SAIC10F	CREK	W	Uranium-238	SM75	7153		J	37	pci/L
JP-W-19	SAIC10	CREK	W	Uranium-234	SM75	7128		J	37	pci/L
JP-W-19	SAIC10	CREK	W	Uranium-238	SM75	7128		J	37	pci/L
JP-W-19	SAIC10F	CREK	W	Iron	6010	7128	150	U	17	ug/l
JP-W-19	SAIC10F	CREK	W	Uranium-234	SM75	7128		J	37	pci/L
JP-W-19	SAIC10F	CREK	W	Uranium-238	SM75	7128		J	37	pci/L
JP-W-19	SAIC10D	CREK	W	Uranium-234	SM75	7128		J	37	pci/L
JP-W-19	SAIC10D	CREK	W	Uranium-238	SM75	7128		J	37	pci/L
JP-W-19	SAIC10DF	CREK	W	Uranium-238	SM75	7128		J	37	pci/L
JP-W-21	SAIC10	CREK	W	Calcium	6010	7120		J	24	ug/l
JP-W-21	SAIC10	CREK	W	Magnesium	6010	7120		J	24	ug/l
JP-W-21	SAIC10	CREK	W	Uranium-234	SM75	7120		J	37	pci/L
JP-W-21	SAIC10F	CREK	W	Calcium	6010	7120		J	24	ug/l
JP-W-21	SAIC10F	CREK	W	Magnesium	6010	7120		J	24	ug/l
JP-W-21	SAIC10F	CREK	W	Nitrate	300	7120		UJ	20	mg/l
JP-W-22	SAIC10	CREK	W	Iron	6010	7128	150	U	17	ug/l
JP-W-22	SAIC10	CREK	W	Silicon	6010	7128		U	27	ug/l
JP-W-22	SAIC10F	CREK	W	Iron	6010	7128	150	U	17	ug/l
JP-W-22	SAIC10F	CREK	W	Manganese	6010	7128		U	27	ug/l
JP-W-22	SAIC10F	CREK	W	Silicon	6010	7128		U	27	ug/l
JP-W-22	SAIC10F	CREK	W	Uranium-234	SM75	7128		J	37	pci/L
JP-W-22	SAIC10F	CREK	W	Uranium-235	SM75	7128		J	37	pci/L
JPG-DU-01I	SAIC10	WELL	W	Uranium-238	SM75	7153		J	37	pci/L
JPG-DU-01I	SAIC10F	WELL	W	Uranium-234	SM75	7153		J	37	pci/L
JPG-DU-03O	SAIC10	WELL	W	Iron	6010	7097		J	24	ug/l
JPG-DU-03O	SAIC10F	WELL	W	Aluminum	6010	7097	200	U	6	ug/l
JPG-DU-03O	SAIC10F	WELL	W	Sulfate	300	7097		J	20	mg/l
JPG-DU-03O	SAIC10F	WELL	W	Uranium-235	SM75	7097		J	37	pci/L
JPG-DU-04I	SAIC10	WELL	W	Iron	6010	7097		J	24	ug/l
JPG-DU-04I	SAIC10	WELL	W	Uranium-235	SM75	7097		J	37	pci/L
JPG-DU-04I	SAIC10F	WELL	W	Aluminum	6010	7097	200	U	6	ug/l
JPG-DU-04I	SAIC10F	WELL	W	Sulfate	300	7097		J	20	mg/l
JPG-DU-04O	SAIC10	WELL	W	Uranium-234	SM75	7128		J	37	pci/L
JPG-DU-04O	SAIC10	WELL	W	Uranium-238	SM75	7128		J	37	pci/L
JPG-DU-04O	SAIC10F	WELL	W	Uranium-234	SM75	7128		J	37	pci/L
JPG-DU-04O	SAIC10F	WELL	W	Uranium-238	SM75	7128		J	37	pci/L
JPG-DU-04O	SAIC10D	WELL	W	Uranium-234	SM75	7128		J	37	pci/L
JPG-DU-04O	SAIC10D	WELL	W	Uranium-238	SM75	7128		J	37	pci/L
JPG-DU-04O	SAIC10DF	WELL	W	Uranium-234	SM75	7128		J	37	pci/L
JPG-DU-04O	SAIC10DF	WELL	W	Uranium-238	SM75	7128		J	37	pci/L
JPG-DU-06O	SAIC10	WELL	W	Uranium-235	SM75	7109		J	37	pCi/L
JPG-DU-06O	SAIC10F	WELL	W	Uranium-235	SM75	7109		J	37	pCi/L
JPG-DU-09O	SAIC10F	WELL	W	Uranium-235	SM75	7153		J	37	pci/L
MW-10	SAIC10	WELL	W	Calcium	6010	7120		J	24	ug/l
MW-10	SAIC10	WELL	W	Magnesium	6010	7120		J	24	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
MW-10	SAIC10F	WELL	W	Calcium	6010	7120		J	24	ug/l
MW-10	SAIC10F	WELL	W	Magnesium	6010	7120		J	24	ug/l
MW-10	SAIC10F	WELL	W	Nitrate	300	7120		UJ	20	mg/l
MW-2	SAIC10	WELL	W	Uranium-235	SM75	7154		J	37	pci/L
MW-2	SAIC10F	WELL	W	Uranium-235	SM75	7154		J	37	pci/L
MW-3	SAIC10F	WELL	W	Uranium-238	SM75	7154		J	37	pci/L
MW-3	SAIC10D	WELL	W	Uranium-238	SM75	7154		J	37	pci/L
MW-3	SAIC10DF	WELL	W	Uranium-238	SM75	7154		J	37	pci/L
MW-4	SAIC10	WELL	W	Uranium-235	SM75	7153		J	37	pci/L
MW-8	SAIC10	WELL	W	Uranium-234	SM75	7153		J	37	pci/L
MW-8	SAIC10	WELL	W	Uranium-238	SM75	7153		J	37	pci/L
MW-8	SAIC10F	WELL	W	Uranium-234	SM75	7153		J	37	pci/L
MW-RS-4	SAIC10	WELL	W	Calcium	6010	7120		J	24	ug/l
MW-RS-4	SAIC10	WELL	W	Magnesium	6010	7120		J	24	ug/l
MW-RS-4	SAIC10	WELL	W	Uranium-235	SM75	7120		J	37	pci/L
MW-RS-4	SAIC10F	WELL	W	Calcium	6010	7120		J	24	ug/l
MW-RS-4	SAIC10F	WELL	W	Magnesium	6010	7120		J	24	ug/l
MW-RS-4	SAIC10F	WELL	W	Nitrate	300	7120		UJ	20	mg/l
MW-RS-6	SAIC10	WELL	W	Iron	6010	7097		J	24	ug/l
MW-RS-6	SAIC10F	WELL	W	Aluminum	6010	7097	200	U	6	ug/l
MW-RS-6	SAIC10F	WELL	W	Iron	6010	7097	150	U	17	ug/l
MW-RS-6	SAIC10F	WELL	W	Sulfate	300	7097		J	20	mg/l
MW-RS-6	SAIC10F	WELL	W	Uranium-235	SM75	7097		J	37	pci/L
SOURCE-DI	SAIFB52	FBLK	W	Iron	6010	7084	150	U	17	ug/l
SOURCE-DI	SAIFB52	FBLK	W	Magnesium	6010	7084	250	U	6,17	ug/l
SOURCE-DI	SAIFB52	FBLK	W	Manganese	6010	7084	5	U	6,17	ug/l
SOURCE-DI	SAIFB52F	FBLK	W	Aluminum	6010	7084	200	U	6	ug/l
SOURCE-DI	SAIFB52F	FBLK	W	Magnesium	6010	7084	250	U	6,17	ug/l
JP-D-19	SAIC11	CREK	S	Uranium-235	DOEU	79		J	37	pci/g
JP-D-20	SAIC11	CREK	S	Uranium-235	DOEU	133		J	37	pci/g
JP-PNAC-001	SAIC01	BORE	S	Uranium-234	DOEU	8884		J	19,38	pci/g
JP-PNAC-001	SAIC01	BORE	S	Uranium-235	DOEU	8884		J	38	pci/g
JP-PNAC-001	SAIC01	BORE	S	Uranium-238	DOEU	8884		J	19,38	pci/g
JP-PNAC-001	SAIC02	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-W-12	SAIC10	CREK	W	Uranium-234	SM75	7195		J	37	pci/L
JP-W-12	SAIC10F	CREK	W	Uranium-234	SM75	7195		J	37	pci/L
JP-W-23	SAIC10	CREK	W	Aluminum	6010	7184	200	U	6,17	ug/l
JP-W-23	SAIC10	CREK	W	Iron	6010	7184	15	U	6,17	ug/l
JP-W-23	SAIC10	CREK	W	Uranium-238	SM75	7184		J	37	pci/L
JP-W-23	SAIC10F	CREK	W	Aluminum	6010	7184	200	U	6,17	ug/l
JP-W-23	SAIC10F	CREK	W	Iron	6010	7184	150	U	6,17	ug/l
JP-W-23	SAIC10F	CREK	W	Uranium-234	SM75	7184		J	37	pci/L
JP-W-24	SAIC10	CREK	W	Aluminum	6010	7184		U	6,17	ug/l
JP-W-24	SAIC10F	CREK	W	Potassium	6010	7186		J	35	ug/l
JP-W-24	SAIC10F	CREK	W	Silicon	6010	7186		J	18	ug/l
JP-W-24	SAIC10F	CREK	W	Uranium-234	SM75	7186		J	37	pci/L
JP-W-25	SAIC10	CREK	W	Potassium	6010	7186		J	35	ug/l
JP-W-25	SAIC10	CREK	W	Silicon	6010	7186		J	18	ug/l
JP-W-25	SAIC10	CREK	W	Uranium-235	SM75	7186		J	37	pci/L
JP-W-25	SAIC10F	CREK	W	Iron	6010	7186	150	U	6	ug/l
JP-W-25	SAIC10F	CREK	W	Potassium	6010	7186		J	35	ug/l
JP-W-25	SAIC10F	CREK	W	Silicon	6010	7186		J	18	ug/l



**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-W-26	SAIC10	CREK	W	Potassium	6010	7186	150	J	35	ug/l
JP-W-26	SAIC10	CREK	W	Silicon	6010	7186		J	18	ug/l
JP-W-26	SAIC10F	CREK	W	Iron	6010	7186		U	6	ug/l
JP-W-26	SAIC10F	CREK	W	Nitrate	300	7186		UJ	20	mg/l
JP-W-26	SAIC10F	CREK	W	Potassium	6010	7186		J	35	ug/l
JP-W-26	SAIC10F	CREK	W	Silicon	6010	7186		J	18	ug/l
JP-W-27	SAIC10	CREK	W	Uranium-234	SM75	7195	200	J	37	pci/L
JP-W-27	SAIC10	CREK	W	Uranium-238	SM75	7195		J	37	pci/L
JP-W-28	SAIC10	CREK	W	Uranium-234	SM75	7195		J	37	pci/L
JP-W-28	SAIC10	CREK	W	Uranium-238	SM75	7195		J	37	pci/L
JP-W-28	SAIC10F	CREK	W	Uranium-238	SM75	7195		J	37	pci/L
JPG-DU-02D	SAIC10	WELL	W	Aluminum	6010	7184		U	17	ug/l
JPG-DU-02D	SAIC10	WELL	W	Nitrate	300	7184		J	1	mg/l
JPG-DU-02D	SAIC10	WELL	W	Uranium-235	SM75	7184		J	37	pci/L
JPG-DU-02D	SAIC10F	WELL	W	Nitrate	300	7184		J	1	mg/l
JPG-DU-02D	SAIC10F	WELL	W	Uranium-235	SM75	7184		J	37	pci/L
JPG-DU-02I	SAIC10	WELL	W	Uranium-234	SM75	8022		J	37	pci/L
JPG-DU-02I	SAIC10	WELL	W	Uranium-238	SM75	8022		J	37	pci/L
JPG-DU-03I	SAIC10	WELL	W	Uranium-235	SM75	8022		J	37	pci/L
JPG-DU-03I	SAIC10F	WELL	W	Uranium-235	SM75	8022		J	37	pci/L
JPG-DU-04D	SAIC10F	WELL	W	Uranium-234	SM75	8021		J	37	pci/L
JPG-DU-04D	SAIC10F	WELL	W	Uranium-238	SM75	8021		J	37	pci/L
JPG-DU-05I	SAIC10	WELL	W	Uranium-235	SM75	8022		J	37	pci/L
JPG-DU-06D	SAIC10	WELL	W	Uranium-235	SM75	8005		J	37	pci/L
JPG-DU-06D	SAIC10F	WELL	W	Uranium-235	SM75	8005		J	37	pci/L
JPG-DU-06I	SAIC10	WELL	W	Uranium-235	SM75	8005		J	37	pci/L
JPG-DU-08D	SAIC10	WELL	W	Nitrate	300	7184		R	1	mg/l
JPG-DU-08D	SAIC10	WELL	W	Uranium-235	SM75	7184		J	37	pci/L
JPG-DU-08D	SAIC10F	WELL	W	Nitrate	300	7184		R	1	mg/l
JPG-DU-08I	SAIC10	WELL	W	Aluminum	6010	7184		U	17	ug/l
JPG-DU-08I	SAIC10F	WELL	W	Aluminum	6010	7184		U	6,17	ug/l
JPG-DU-08I	SAIC10F	WELL	W	Nitrate	300	7184		J	1	mg/l
MW-1	SAIC10	WELL	W	Uranium-234	SM75	8022	200	J	37	pci/L
MW-1	SAIC10	WELL	W	Uranium-238	SM75	8022		J	37	pci/L
MW-1	SAIC10F	WELL	W	Uranium-234	SM75	8022		J	37	pci/L
MW-1	SAIC10F	WELL	W	Uranium-238	SM75	8022		J	37	pci/L
MW-11	SAIC10	WELL	W	Uranium-238	SM75	8021		J	37	pci/L
MW-11	SAIC10F	WELL	W	Uranium-234	SM75	8021		J	37	pci/L
MW-11	SAIC10F	WELL	W	Uranium-238	SM75	8021		J	37	pci/L
MW-5	SAIC10	WELL	W	Uranium-234	SM75	7195		J	37	pci/L
MW-5	SAIC10	WELL	W	Uranium-238	SM75	7195		J	37	pci/L
MW-5	SAIC10F	WELL	W	Uranium-234	SM75	7195		J	37	pci/L
MW-5	SAIC10F	WELL	W	Uranium-238	SM75	7195		J	37	pci/L
MW-6	SAIC10	WELL	W	Uranium-235	SM75	8005		J	37	pci/L
MW-6	SAIC10F	WELL	W	Uranium-235	SM75	8005		J	37	pci/L
MW-9	SAIC10F	WELL	W	Nitrate	300	7184		J	1	mg/l
MW-RS-1	SAIC10	WELL	W	Potassium	6010	7186		J	35	ug/l
MW-RS-1	SAIC10	WELL	W	Silicon	6010	7186		J	18	ug/l
MW-RS-1	SAIC10F	WELL	W	Potassium	6010	7186		UJ	35	ug/l
MW-RS-1	SAIC10F	WELL	W	Silicon	6010	7186		J	18	ug/l
MW-RS-2	SAIC10	WELL	W	Potassium	6010	7186		UJ	35	ug/l
MW-RS-2	SAIC10	WELL	W	Silicon	6010	7186		J	18	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
MW-RS-2	SAIC10	WELL	W	Uranium-234	SM75	7186		J	37	pci/L
MW-RS-2	SAIC10F	WELL	W	Iron	6010	7186	150	U	6	ug/l
MW-RS-2	SAIC10F	WELL	W	Potassium	6010	7186		UJ	35	ug/l
MW-RS-2	SAIC10F	WELL	W	Silicon	6010	7186		J	18	ug/l
MW-RS-2	SAIC10F	WELL	W	Uranium-234	SM75	7186		J	37	pci/L
MW-RS-2	SAIC10F	WELL	W	Uranium-238	SM75	7186		J	37	pci/L
MW-RS-2	SAIC10D	WELL	W	Iron	6010	7186	150	U	6	ug/l
MW-RS-2	SAIC10D	WELL	W	Potassium	6010	7186		UJ	35	ug/l
MW-RS-2	SAIC10D	WELL	W	Silicon	6010	7186		J	18	ug/l
MW-RS-2	SAIC10D	WELL	W	Uranium-234	SM75	7186		J	37	pci/L
MW-RS-2	SAIC10D	WELL	W	Uranium-238	SM75	7186		J	37	pci/L
MW-RS-2	SAIC10DF	WELL	W	Iron	6010	7186	150	U	6	ug/l
MW-RS-2	SAIC10DF	WELL	W	Potassium	6010	7186		UJ	35	ug/l
MW-RS-2	SAIC10DF	WELL	W	Silicon	6010	7186		J	18	ug/l
MW-RS-2	SAIC10DF	WELL	W	Uranium-234	SM75	7186		J	37	pci/L
MW-RS-2	SAIC10DF	WELL	W	Uranium-238	SM75	7186		J	37	pci/L
MW-RS-3	SAIC10	WELL	W	Potassium	6010	7186		UJ	35	ug/l
MW-RS-3	SAIC10	WELL	W	Silicon	6010	7186		J	18	ug/l
MW-RS-3	SAIC10F	WELL	W	Potassium	6010	7186		UJ	35	ug/l
MW-RS-3	SAIC10F	WELL	W	Silicon	6010	7186		J	18	ug/l
MW-RS-5	SAIC10	WELL	W	Uranium-238	SM75	8021		J	37	pci/L
MW-RS-5	SAIC10F	WELL	W	Uranium-235	SM75	8021		J	37	pci/L
MW-RS-7	SAIC10	WELL	W	Uranium-235	SM75	8021		J	37	pci/L
MW-RS-7	SAIC10F	WELL	W	Uranium-235	SM75	8021		J	37	pci/L
MW-RS-8	SAIC10	WELL	W	Uranium-234	SM75	8005		J	37	pci/L
MW-RS-8	SAIC10	WELL	W	Uranium-238	SM75	8005		J	37	pci/L
MW-RS-8	SAIC10F	WELL	W	Uranium-234	SM75	8005		J	37	pci/L
JP-PNAC-001	SAIC02	BORE	S	Uranium-235	DOEU	8884		J	37	pci/g
JP-PNAC-001	SAIC02	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-001	SAIC03	BORE	S	Uranium-234	DOEU	8884		J	19,37	pci/g
JP-PNAC-001	SAIC03	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-001	SAIC04	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-001	SAIC04	BORE	S	Uranium-235	DOEU	8884		J	37	pci/g
JP-PNAC-001	SAIC04	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-002	SAIC01	BORE	S	Uranium-234	DOEU	8884		J	19,38	pci/g
JP-PNAC-002	SAIC01	BORE	S	Uranium-235	DOEU	8884		J	38	pci/g
JP-PNAC-002	SAIC01	BORE	S	Uranium-238	DOEU	8884		J	19,38	pci/g
JP-PNAC-002	SAIC02	BORE	S	Uranium-234	DOEU	8884		J	19,37	pci/g
JP-PNAC-002	SAIC02	BORE	S	Uranium-235	DOEU	8884		J	37	pci/g
JP-PNAC-002	SAIC02	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-002	SAIC03	BORE	S	Uranium-234	DOEU	8884		J	19,37	pci/g
JP-PNAC-002	SAIC03	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-002	SAIC04	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-002	SAIC04	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-003	SAIC01	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-003	SAIC01	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-003	SAIC04	BORE	S	Uranium-234	DOEU	8887		J	37	pci/g
JP-PNAC-004	SAIC01	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-004	SAIC01	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-004	SAIC02	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-004	SAIC02	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-004	SAIC02	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-PNAC-004	SAIC03	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-004	SAIC03	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-004	SAIC03	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-004	SAIC04	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-004	SAIC04	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-004	SAIC04	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-005	SAIC02	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNAC-005	SAIC03	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNAC-005	SAIC04	BORE	S	Uranium-234	DOEU	8839		J	37	pci/g
JP-PNAC-006	SAIC01	BORE	S	Uranium-234	DOEU	8884		J	19,38	pci/g
JP-PNAC-006	SAIC01	BORE	S	Uranium-235	DOEU	8884		J	38	pci/g
JP-PNAC-006	SAIC01	BORE	S	Uranium-238	DOEU	8884		J	19,38	pci/g
JP-PNAC-006	SAIC02	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-002	SAIC04	BORE	S	Uranium-235	4523	9050		J	37	pci/g
JP-PNAC-006	SAIC02	BORE	S	Uranium-235	DOEU	8884		J	37	pci/g
JP-PNAC-006	SAIC02	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-006	SAIC03	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-006	SAIC03	BORE	S	Uranium-235	DOEU	8884		J	37	pci/g
JP-PNAC-003	SAIC04	BORE	S	Uranium-235	4523	9051		J	37	pci/g
JP-PNAC-006	SAIC03	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-006	SAIC04	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-006	SAIC04	BORE	S	Uranium-235	DOEU	8884		J	37	pci/g
JP-PNAC-006	SAIC04	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-006	SAIC05	BORE	S	Uranium-234	DOEU	8884		J	19,38	pci/g
JP-PNAC-006	SAIC05	BORE	S	Uranium-235	DOEU	8884		J	38	pci/g
JP-PNAC-006	SAIC05	BORE	S	Uranium-238	DOEU	8884		J	19,38	pci/g
JP-PNAC-007	SAIC01	BORE	S	Uranium-234	DOEU	8905		J	19,38	pci/g
JP-PNAC-007	SAIC01	BORE	S	Uranium-235	DOEU	8905		J	37,38	pci/g
JP-PNAC-007	SAIC01	BORE	S	Uranium-238	DOEU	8905		J	19,38	pci/g
JP-PNAC-007	SAIC02	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-007	SAIC02	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-007	SAIC02	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-007	SAIC03	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-007	SAIC03	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-007	SAIC03	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-007	SAIC04	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-007	SAIC04	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-007	SAIC04	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-007	SAIC05	BORE	S	Uranium-234	DOEU	8905		J	19,38	pci/g
JP-PNAC-007	SAIC05	BORE	S	Uranium-235	DOEU	8905		J	37,38	pci/g
JP-PNAC-007	SAIC05	BORE	S	Uranium-238	DOEU	8905		J	19,38	pci/g
JP-PNAC-008	SAIC02	BORE	S	Uranium-234	DOEU	8839		J	38	pci/g
JP-PNAC-008	SAIC02	BORE	S	Uranium-235	DOEU	8839		J	38	pci/g
JP-PNAC-008	SAIC02	BORE	S	Uranium-238	DOEU	8839		J	38	pci/g
JP-PNAC-008	SAIC03	BORE	S	Uranium-234	DOEU	8839		J	37	pci/g
JP-PNAC-008	SAIC04	BORE	S	Uranium-234	DOEU	8839		J	37	pci/g
JP-PNAC-008	SAIC05	BORE	S	Uranium-234	DOEU	8839		J	38	pci/g
JP-PNAC-008	SAIC05	BORE	S	Uranium-235	DOEU	8839		J	38	pci/g
JP-PNAC-008	SAIC05	BORE	S	Uranium-238	DOEU	8839		J	38	pci/g
JP-PNAC-009	SAIC01	BORE	S	Uranium-234	DOEU	8884		J	19, 38	pci/g
JP-PNAC-009	SAIC01	BORE	S	Uranium-235	DOEU	8884		J	38	pci/g
JP-PNAC-009	SAIC01	BORE	S	Uranium-238	DOEU	8884		J	19, 38	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-PNAC-009	SAIC02	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-009	SAIC02	BORE	S	Uranium-235	DOEU	8884		J	37	pci/g
JP-PNAC-009	SAIC02	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-009	SAIC03	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-009	SAIC03	BORE	S	Uranium-235	DOEU	8884		J	37	pci/g
JP-PNAC-009	SAIC03	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-009	SAIC04	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNAC-009	SAIC04	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNAC-009	SAIC05	BORE	S	Uranium-234	DOEU	8884		J	19,38	pci/g
JP-PNAC-009	SAIC05	BORE	S	Uranium-235	DOEU	8884		J	38	pci/g
JP-PNAC-009	SAIC05	BORE	S	Uranium-238	DOEU	8884		J	19,38	pci/g
JP-PNAC-010	SAIC01	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-010	SAIC01	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-010	SAIC02	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-010	SAIC02	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-010	SAIC02	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-008	SAIC04	BORE	S	Uranium-235	4523	9053		UJ	41	pci/g
JP-PNAC-010	SAIC03	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-010	SAIC03	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-010	SAIC03	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-009	SAIRB69	RNSW	W	Uranium-238	SM75	8838		J	37	pci/L
JP-PNAC-010	SAIC04	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-010	SAIC04	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNAC-010	SAIC04	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNAC-010	SAIC05	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNAC-010	SAIC05	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNCR-001	SAIC01	BORE	S	Uranium-234	DOEU	8881		J	38	pci/g
JP-PNCR-001	SAIC01	BORE	S	Uranium-235	DOEU	8881		J	38	pci/g
JP-PNCR-001	SAIC01	BORE	S	Uranium-238	DOEU	8881		J	38	pci/g
JP-PNCR-001	SAIC02	BORE	S	Uranium-234	DOEU	8884		J	19	pci/g
JP-PNCR-001	SAIC02	BORE	S	Uranium-238	DOEU	8884		J	19	pci/g
JP-PNCR-001	SAIC03	BORE	S	Uranium-234	DOEU	8887		J	38	pci/g
JP-PNCR-001	SAIC03	BORE	S	Uranium-235	DOEU	8887		J	37	pci/g
JP-PNCR-001	SAIC03	BORE	S	Uranium-238	DOEU	8887		J	38	pci/g
JP-PNCR-001	SAIC04	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNCR-001	SAIC04	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNCR-002	SAIC02	BORE	S	Uranium-235	DOEU	8887		J	37	pci/g
JP-PNCR-002	SAIC03	BORE	S	Uranium-234	DOEU	8887		J	37	pci/g
JP-PNCR-003	SAIC02	BORE	S	Uranium-235	DOEU	8887		J	37	pci/g
JP-PNCR-004	SAIC01	BORE	S	Uranium-234	DOEU	8905		J	19,38	pci/g
JP-PNCR-004	SAIC01	BORE	S	Uranium-235	DOEU	8905		J	38	pci/g
JP-PNCR-004	SAIC01	BORE	S	Uranium-238	DOEU	8905		J	19,38	pci/g
JP-PNCR-004	SAIC02	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNCR-004	SAIC02	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNCR-004	SAIC02	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNCR-004	SAIC03	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNCR-004	SAIC03	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNCR-004	SAIC03	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNCR-005	SAIC01	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNCR-005	SAIC02	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNCR-006	SAIC01	BORE	S	Uranium-235	DOEU	8887		J	37	pci/g
JP-PNCR-006	SAIC04	BORE	S	Uranium-235	DOEU	8887		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-PNCR-006	SAIC03D	BORE	S	Uranium-235	DOEU	8887		J	37	pci/g
JP-PNCR-006	SAIC04D	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNCR-006	SAIC04D	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNCR-006	SAIC05D	BORE	S	Uranium-234	DOEU	8905		J	19	pci/g
JP-PNCR-006	SAIC05D	BORE	S	Uranium-235	DOEU	8905		J	37	pci/g
JP-PNCR-006	SAIC05D	BORE	S	Uranium-238	DOEU	8905		J	19	pci/g
JP-PNCR-007	SAIC01	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNCR-007	SAIC02	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNCR-007	SAIC03	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNCR-008	SAIC02	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNCR-008	SAIC03	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNCR-009	SAIC01	BORE	S	Uranium-235	DOEU	8839		J	37	pci/g
JP-PNCR-009	SAIC02	BORE	S	Uranium-235	DOEU	8840		J	37	pci/g
JP-PNCR-010	SAIC02	BORE	S	Uranium-235	DOEU	8840		J	37	pci/g
JP-PNCR-010	SAIC03	BORE	S	Uranium-235	DOEU	8840		J	37	pci/g
JP-PNCR-010	SAIC04	BORE	S	Uranium-235	DOEU	8840		J	37	pci/g
JP-PNGR-001	SAIC01	BORE	S	Uranium-234	DOEU	8881		J	38	pci/g
JP-PNGR-001	SAIC01	BORE	S	Uranium-235	DOEU	8881		J	38	pci/g
JP-PNGR-001	SAIC01	BORE	S	Uranium-238	DOEU	8881		J	38	pci/g
JP-PNGR-001	SAIC02	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-PNGR-001	SAIC03	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-PNGR-001	SAIC04	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-PNGR-002	SAIC02	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-PNGR-002	SAIC03	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-PNGR-003	SAIC04	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-PNGR-003	SAIC02D	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-PNGR-003	SAIC03D	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-PNGR-004	SAIC02	BORE	S	Uranium-234	DOEU	8881		J	38	pci/g
JP-PNGR-004	SAIC02	BORE	S	Uranium-235	DOEU	8881		J	38	pci/g
JP-PNGR-004	SAIC02	BORE	S	Uranium-238	DOEU	8881		J	38	pci/g
JP-SAC-001	SAIC01	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SAC-001	SAIC02	BORE	S	Uranium-234	DOEU	8795		J	38	pci/g
JP-SAC-001	SAIC02	BORE	S	Uranium-235	DOEU	8795		J	37,38	pci/g
JP-SAC-001	SAIC02	BORE	S	Uranium-238	DOEU	8795		J	38	pci/g
JP-SAC-001	SAIC03	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SAC-001	SAIC04	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SAC-002	SAIC01	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SAC-002	SAIC02	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SAC-002	SAIC03	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SAC-002	SAIC04	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SAC-004	SAIC01	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SAC-004	SAIC02	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-PNGR-001	SAIC03	BORE	S	Uranium-235	4523	9049		J	37	pci/g
JP-SAC-004	SAIC03	BORE	S	Uranium-234	DOEU	8789		J	38	pci/g
JP-SAC-004	SAIC03	BORE	S	Uranium-235	DOEU	8789		J	37,38	pci/g
JP-SAC-004	SAIC03	BORE	S	Uranium-238	DOEU	8789		J	38	pci/g
JP-SAC-004	SAIC04	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SAC-005	SAIC01	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SAC-005	SAIC02	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SAC-005	SAIC03	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SAC-005	SAIC04	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SAC-006	SAIC01	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-SAC-006	SAIC02	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SAC-006	SAIC03	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-PNGR-004	SAIC03	BORE	S	Uranium-235	4523	9049		UJ	41,43	pci/g
JP-PNGR-004	SAIC03	BORE	S	Uranium-238	4523	9049		R	44	pci/g
JP-SAC-006	SAIC04	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SC1-001	SAIC01	BORE	S	Uranium-235	DOEU	8736		J	37	pci/g
JP-SC1-001	SAIC02	BORE	S	Uranium-235	DOEU	8736		J	37	pci/g
JP-SC1-001	SAIC03	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC1-001	SAIC04	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC1-002	SAIC01	BORE	S	Uranium-235	DOEU	8743		J	37	pci/g
JP-SC1-002	SAIC02	BORE	S	Uranium-235	DOEU	8744		J	37	pci/g
JP-SC1-002	SAIC03	BORE	S	Uranium-235	DOEU	8744		J	37	pci/g
JP-SC1-002	SAIC04	BORE	S	Uranium-235	DOEU	8744		J	37	pci/g
JP-SC1-003	SAIC01	BORE	S	Uranium-235	DOEU	8743		J	37	pci/g
JP-SC1-003	SAIC02	BORE	S	Uranium-235	DOEU	8743		J	37	pci/g
JP-SC1-003	SAIC03	BORE	S	Uranium-235	DOEU	8743		J	37	pci/g
JP-SC1-003	SAIC04	BORE	S	Uranium-235	DOEU	8743		J	37	pci/g
JP-SC1-012	SAIC01	BORE	S	Uranium-235	DOEU	8728		J	37	pci/g
JP-SC1-012	SAIC02	BORE	S	Uranium-235	DOEU	8728		J	37	pci/g
JP-SC1-012	SAIC03	BORE	S	Uranium-235	DOEU	8728		J	37	pci/g
JP-SC2-003	SAIC01	BORE	S	Uranium-235	DOEU	8735		J	37	pci/g
JP-SC2-003	SAIC02	BORE	S	Uranium-235	DOEU	8735		J	37	pci/g
JP-SC2-003	SAIC03	BORE	S	Uranium-235	DOEU	8735		J	37	pci/g
JP-SC2-003	SAIC04	BORE	S	Uranium-234	DOEU	8735		J	38	pci/g
JP-SC2-003	SAIC04	BORE	S	Uranium-235	DOEU	8735		J	37,38	pci/g
JP-SC2-003	SAIC04	BORE	S	Uranium-238	DOEU	8735		J	38	pci/g
JP-SC2-004	SAIC01	BORE	S	Uranium-234	DOEU	8724		J	38	pci/g
JP-SC2-004	SAIC01	BORE	S	Uranium-235	DOEU	8724		J	37,38	pci/g
JP-SC2-004	SAIC01	BORE	S	Uranium-238	DOEU	8724		J	38	pci/g
JP-SC2-004	SAIC02	BORE	S	Uranium-234	DOEU	8724		J	38	pci/g
JP-SC2-004	SAIC02	BORE	S	Uranium-235	DOEU	8724		J	37,38	pci/g
JP-SC2-004	SAIC02	BORE	S	Uranium-238	DOEU	8724		J	38	pci/g
JP-SC2-004	SAIC03	BORE	S	Uranium-234	DOEU	8724		J	38	pci/g
JP-SC2-004	SAIC03	BORE	S	Uranium-235	DOEU	8724		J	37,38	pci/g
JP-SC2-004	SAIC03	BORE	S	Uranium-238	DOEU	8724		J	38	pci/g
JP-SC2-008	SAIC01	BORE	S	Uranium-235	DOEU	8744		J	37	pci/g
JP-SC2-008	SAIC02	BORE	S	Uranium-235	DOEU	8744		J	37	pci/g
JP-SC2-008	SAIC03	BORE	S	Uranium-235	DOEU	8745		J	37	pci/g
JP-SC2-008	SAIC04	BORE	S	Uranium-235	DOEU	8745		J	37	pci/g
JP-SC3-003	SAIC01	BORE	S	Uranium-234	DOEU	8736		J	38	pci/g
JP-SC3-003	SAIC01	BORE	S	Uranium-235	DOEU	8736		J	37,38	pci/g
JP-SC3-003	SAIC01	BORE	S	Uranium-238	DOEU	8736		J	38	pci/g
JP-SC3-003	SAIC02	BORE	S	Uranium-235	DOEU	8736		J	37	pci/g
JP-SC3-003	SAIC03	BORE	S	Uranium-235	DOEU	8736		J	37	pci/g
JP-SC3-003	SAIC04	BORE	S	Uranium-235	DOEU	8736		J	37	pci/g
JP-SC3-006	SAIC02	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC3-006	SAIC03	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC3-006	SAIC04	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC3-006	SAIC05	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC3-006	SAIC01D	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC3-006	SAIC02D	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC3-006	SAIC03D	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-SC3-006	SAIC04D	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC3-006	SAIC05D	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC3-007	SAIC01	BORE	S	Uranium-235	DOEU	8745		J	37	pci/g
JP-SC3-007	SAIC02	BORE	S	Uranium-235	DOEU	8745		J	37	pci/g
JP-SC3-007	SAIC03	BORE	S	Uranium-235	DOEU	8745		J	37	pci/g
JP-SC3-007	SAIC04	BORE	S	Uranium-235	DOEU	8746		J	37	pci/g
JP-SC3-007	SAIC05	BORE	S	Uranium-235	DOEU	8746		J	37	pci/g
JP-SC3-007	SAIC02D	BORE	S	Uranium-235	DOEU	8746		J	37	pci/g
JP-SC3-007	SAIC03D	BORE	S	Uranium-235	DOEU	8746		J	37	pci/g
JP-SC3-007	SAIC04D	BORE	S	Uranium-235	DOEU	8747		J	37	pci/g
JP-SC3-007	SAIC05D	BORE	S	Uranium-235	DOEU	8747		J	37	pci/g
JP-SC3-008	SAIC01	BORE	S	Uranium-235	DOEU	8743		J	37	pci/g
JP-SC3-008	SAIC02	BORE	S	Uranium-235	DOEU	8744		J	37	pci/g
JP-SC3-008	SAIC03	BORE	S	Uranium-235	DOEU	8745		J	37	pci/g
JP-SC3-008	SAIC04	BORE	S	Uranium-235	DOEU	8746		J	37	pci/g
JP-SC3-008	SAIC05	BORE	S	Uranium-235	DOEU	8747		J	37	pci/g
JP-SC3-009	SAIC01	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC3-009	SAIC02	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC3-009	SAIC03	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC3-009	SAIC04	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC3-009	SAIC05	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC3-012	SAIC01	BORE	S	Uranium-235	DOEU	8729		J	37	pci/g
JP-SC3-012	SAIC02	BORE	S	Uranium-235	DOEU	8729		J	37	pci/g
JP-SC3-012	SAIC03	BORE	S	Uranium-235	DOEU	8729		J	37	pci/g
JP-SC3-012	SAIC04	BORE	S	Uranium-235	DOEU	8729		J	37	pci/g
JP-SC3-012	SAIC05	BORE	S	Uranium-234	DOEU	8729		J	38	pci/g
JP-SC3-012	SAIC05	BORE	S	Uranium-235	DOEU	8729		J	37,38	pci/g
JP-SC3-012	SAIC05	BORE	S	Uranium-238	DOEU	8729		J	38	pci/g
JP-SC4-001	SAIC01	BORE	S	Uranium-235	DOEU	8734		J	37	pci/g
JP-SC4-001	SAIC02	BORE	S	Uranium-235	DOEU	8734		J	37	pci/g
JP-SC4-001	SAIC03	BORE	S	Uranium-235	DOEU	8734		J	37	pci/g
JP-SC4-001	SAIC04	BORE	S	Uranium-234	DOEU	8734		J	38	pci/g
JP-SC4-001	SAIC04	BORE	S	Uranium-235	DOEU	8734		J	37,38	pci/g
JP-SC4-001	SAIC04	BORE	S	Uranium-238	DOEU	8734		J	38	pci/g
JP-SC4-001	SAIC05	BORE	S	Uranium-235	DOEU	8734		J	37	pci/g
JP-SC4-005	SAIC01	BORE	S	Uranium-235	DOEU	8728		J	37	pci/g
JP-SC4-005	SAIC02	BORE	S	Uranium-235	DOEU	8729		J	37	pci/g
JP-SC4-005	SAIC03	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC4-005	SAIC04	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC4-005	SAIC05	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC4-010	SAIC01	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC4-010	SAIC02	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC4-010	SAIC03	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC4-010	SAIC04	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC4-010	SAIC05	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC5-002	SAIC01	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-002	SAIC02	BORE	S	Uranium-234	DOEU	8733		J	38	pci/g
JP-SC5-002	SAIC02	BORE	S	Uranium-235	DOEU	8733		J	37,38	pci/g
JP-SC5-002	SAIC02	BORE	S	Uranium-238	DOEU	8733		J	38	pci/g
JP-SC5-002	SAIC03	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-002	SAIC04	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-003	SAIC01	BORE	S	Uranium-235	DOEU	8735		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-SC5-003	SAIC02	BORE	S	Uranium-235	DOEU	8735		J	37	pci/g
JP-SC5-003	SAIC03	BORE	S	Uranium-235	DOEU	8736		J	37	pci/g
JP-SC5-003	SAIC04	BORE	S	Uranium-235	DOEU	8736		J	37	pci/g
JP-SC5-008	SAIC01	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-008	SAIC02	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-008	SAIC03	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-008	SAIC04	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-010	SAIC01	BORE	S	Uranium-234	DOEU	8728		J	38	pci/g
JP-SC5-010	SAIC01	BORE	S	Uranium-235	DOEU	8728		J	37,38	pci/g
JP-SC5-010	SAIC01	BORE	S	Uranium-238	DOEU	8728		J	38	pci/g
JP-SC5-010	SAIC02	BORE	S	Uranium-235	DOEU	8728		J	37	pci/g
JP-SC5-010	SAIC03	BORE	S	Uranium-235	DOEU	8728		J	37	pci/g
JP-SC5-010	SAIC04	BORE	S	Uranium-235	DOEU	8728		J	37	pci/g
JP-SC5-011	SAIC01	BORE	S	Uranium-235	DOEU	8734		J	37	pci/g
JP-SC5-011	SAIC02	BORE	S	Uranium-235	DOEU	8734		J	37	pci/g
JP-SC5-011	SAIC03	BORE	S	Uranium-234	DOEU	8734		J	38	pci/g
JP-SC5-011	SAIC03	BORE	S	Uranium-235	DOEU	8734		J	37,38	pci/g
JP-SC5-011	SAIC03	BORE	S	Uranium-238	DOEU	8734		J	38	pci/g
JP-SC5-011	SAIC04	BORE	S	Uranium-235	DOEU	8734		J	37	pci/g
JP-SC5-012	SAIC01	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-012	SAIC02	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-012	SAIC03	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-012	SAIC04	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-013	SAIC01	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-013	SAIC02	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-013	SAIC04	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-014	SAIC01	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC5-014	SAIC02	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC5-014	SAIC03	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC5-014	SAIC04	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC5-015	SAIC02	BORE	S	Uranium-235	DOEU	8729		J	37	pci/g
JP-SC5-015	SAIC03	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC5-015	SAIC04	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC5-016	SAIC01	BORE	S	Uranium-234	DOEU	8728		J	38	pci/g
JP-SC5-016	SAIC01	BORE	S	Uranium-235	DOEU	8728		J	37,38	pci/g
JP-SC5-016	SAIC01	BORE	S	Uranium-238	DOEU	8728		J	38	pci/g
JP-SC5-016	SAIC03	BORE	S	Uranium-235	DOEU	8729		J	37	pci/g
JP-SC5-016	SAIC04	BORE	S	Uranium-235	DOEU	8729		J	37	pci/g
JP-SC5-019	SAIC01	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-019	SAIC02	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-019	SAIC03	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-019	SAIC04	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-020	SAIC01	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-020	SAIC02	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-020	SAIC03	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-020	SAIC04	BORE	S	Uranium-235	DOEU	8774		J	37	pci/g
JP-SC5-022	SAIC01	BORE	S	Uranium-235	DOEU	8747		J	37	pci/g
JP-SC5-022	SAIC02	BORE	S	Uranium-235	DOEU	8747		J	37	pci/g
JP-SC5-022	SAIC03	BORE	S	Uranium-235	DOEU	8747		J	37	pci/g
JP-SC5-022	SAIC04	BORE	S	Uranium-235	DOEU	8747		J	37	pci/g
JP-SC5-024	SAIC01	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-024	SAIC02	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g



**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-SC5-024	SAIC03	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-024	SAIC04	BORE	S	Uranium-235	DOEU	8773		J	37	pci/g
JP-SC5-026	SAIC01	BORE	S	Uranium-234	DOEU	8735		J	38	pci/g
JP-SC5-026	SAIC01	BORE	S	Uranium-235	DOEU	8735		J	37,38	pci/g
JP-SC5-026	SAIC01	BORE	S	Uranium-238	DOEU	8735		J	38	pci/g
JP-SC5-026	SAIC02	BORE	S	Uranium-234	DOEU	8735		J	38	pci/g
JP-SC5-026	SAIC02	BORE	S	Uranium-235	DOEU	8735		J	37,38	pci/g
JP-SC5-026	SAIC02	BORE	S	Uranium-238	DOEU	8735		J	38	pci/g
JP-SC5-028	SAIC01	BORE	S	Uranium-234	DOEU	8734		J	38	pci/g
JP-SC5-028	SAIC01	BORE	S	Uranium-235	DOEU	8734		J	37,38	pci/g
JP-SC5-028	SAIC01	BORE	S	Uranium-238	DOEU	8734		J	38	pci/g
JP-SC5-028	SAIC02	BORE	S	Uranium-235	DOEU	8735		J	37	pci/g
JP-SC5-028	SAIC03	BORE	S	Uranium-235	DOEU	8736		J	37	pci/g
JP-SC5-028	SAIC04	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-030	SAIC01	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-030	SAIC02	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-030	SAIC03	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-030	SAIC04	BORE	S	Uranium-234	DOEU	8822		J	38	pci/g
JP-SC5-030	SAIC04	BORE	S	Uranium-235	DOEU	8822		J	37,38	pci/g
JP-SC5-030	SAIC04	BORE	S	Uranium-238	DOEU	8822		J	38	pci/g
JP-SC5-030	SAIC01D	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-030	SAIC02D	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-030	SAIC03D	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-030	SAIC04D	BORE	S	Uranium-235	DOEU	8822		J	37	pci/g
JP-SC5-031	SAIC01	BORE	S	Uranium-234	DOEU	8732		J	38	pci/g
JP-SC5-031	SAIC01	BORE	S	Uranium-235	DOEU	8732		J	37,38	pci/g
JP-SC5-031	SAIC01	BORE	S	Uranium-238	DOEU	8732		J	38	pci/g
JP-SC5-031	SAIC02	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC5-031	SAIC03	BORE	S	Uranium-235	DOEU	8732		J	37	pci/g
JP-SC5-031	SAIC04	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-031	SAIC01D	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-031	SAIC02D	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-031	SAIC03D	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-031	SAIC04D	BORE	S	Uranium-235	DOEU	8733		J	37	pci/g
JP-SC5-032	SAIC01	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SC5-032	SAIC03	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SC5-032	SAIC04	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SCR-002	SAIC01	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-002	SAIC02	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-002	SAIC03	BORE	S	Uranium-235	DOEU	8796		J	37	pci/g
JP-SCR-002	SAIC04	BORE	S	Uranium-235	DOEU	8796		J	37	pci/g
JP-SCR-003	SAIC01	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-003	SAIC02	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-003	SAIC03	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-003	SAIC04	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-005	SAIC01	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SCR-005	SAIC02	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SCR-005	SAIC03	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-005	SAIC04	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-006	SAIC01	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-006	SAIC02	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-006	SAIC03	BORE	S	Uranium-234	DOEU	8795		J	38	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-SCR-006	SAIC03	BORE	S	Uranium-235	DOEU	8795		J	37,38	pci/g
JP-SCR-006	SAIC03	BORE	S	Uranium-238	DOEU	8795		J	38	pci/g
JP-SCR-006	SAIC04	BORE	S	Uranium-235	DOEU	8795		J	37	pci/g
JP-SCR-007	SAIC01	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SCR-007	SAIC02	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SCR-007	SAIC03	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SCR-007	SAIC04	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SCR-008	SAIC01	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g
JP-SCR-008	SAIC02	BORE	S	Uranium-234	DOEU	8786		J	38	pci/g
JP-SCR-008	SAIC02	BORE	S	Uranium-235	DOEU	8786		J	37,38	pci/g
JP-SCR-008	SAIC02	BORE	S	Uranium-238	DOEU	8786		J	38	pci/g
JP-SCR-008	SAIC03	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g
JP-SCR-008	SAIC04	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g
JP-SCR-008	SAIC01D	BORE	S	Uranium-234	DOEU	8786		J	38	pci/g
JP-SCR-008	SAIC01D	BORE	S	Uranium-238	DOEU	8786		J	38	pci/g
JP-SCR-008	SAIC02D	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g
JP-SCR-008	SAIC03D	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g
JP-SCR-008	SAIC04D	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SCR-009	SAIC01	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SCR-009	SAIC02	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SCR-009	SAIC03	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SCR-009	SAIC04	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SGR-001	SAIC01	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-001	SAIC02	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-001	SAIC03	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-001	SAIC04	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-002	SAIC01	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-002	SAIC02	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-002	SAIC03	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-003	SAIC01	BORE	S	Uranium-234	DOEU	8793		J	38	pci/g
JP-SGR-003	SAIC01	BORE	S	Uranium-235	DOEU	8793		J	37,38	pci/g
JP-SGR-003	SAIC01	BORE	S	Uranium-238	DOEU	8793		J	38	pci/g
JP-SGR-003	SAIC02	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-003	SAIC03	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-004	SAIC01	BORE	S	Uranium-234	DOEU	8788		J	38	pci/g
JP-SGR-004	SAIC01	BORE	S	Uranium-235	DOEU	8788		J	37,38	pci/g
JP-SGR-004	SAIC01	BORE	S	Uranium-238	DOEU	8788		J	38	pci/g
JP-SGR-004	SAIC02	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SGR-004	SAIC03	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SGR-004	SAIC04	BORE	S	Uranium-235	DOEU	8789		J	37	pci/g
JP-SGR-005	SAIC01	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-005	SAIC02	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-005	SAIC03	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-005	SAIC04	BORE	S	Uranium-235	DOEU	8793		J	37	pci/g
JP-SGR-006	SAIC01	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SGR-006	SAIC02	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SGR-006	SAIC03	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SGR-006	SAIC04	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SGR-006	SAIC01D	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SGR-006	SAIC02D	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SGR-006	SAIC03D	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g
JP-SGR-006	SAIC04D	BORE	S	Uranium-235	DOEU	8788		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-SGR-007	SAIC01	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SGR-007	SAIC02	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SGR-007	SAIC03	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SGR-007	SAIC04	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SGR-008	SAIC01	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g
JP-SGR-008	SAIC02	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g
JP-SGR-008	SAIC03	BORE	S	Uranium-234	DOEU	8786		J	38	pci/g
JP-SGR-008	SAIC03	BORE	S	Uranium-235	DOEU	8786		J	37,38	pci/g
JP-SGR-008	SAIC03	BORE	S	Uranium-238	DOEU	8786		J	38	pci/g
JP-SGR-008	SAIC04	BORE	S	Uranium-235	DOEU	8786		J	37	pci/g
JP-SGR-009	SAIC01	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SGR-009	SAIC02	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SGR-009	SAIC03	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-SGR-009	SAIC04	BORE	S	Uranium-235	DOEU	8787		J	37	pci/g
JP-D-01	SAIC12	CREK	S	Uranium-235	DOEU	8963		J	37	pci/g
JP-D-04	SAIC12	CREK	S	Uranium-235	DOEU	8945		J	37	pci/g
JP-SC4-011	SAIRB54	RNSW	W	Uranium-234	SM75	8716		J	37	pci/L
JP-D-05	SAIC12	CREK	S	Uranium-235	DOEU	8945		J	37	pci/g
JP-D-07	SAIC12	CREK	S	Uranium-235	DOEU	8963		J	37	pci/g
JP-D-08	SAIC12	CREK	S	Uranium-235	DOEU	8938		J	37	pci/g
JP-D-10	SAIC12	CREK	S	Uranium-235	DOEU	8953		J	37	pci/g
JP-D-10	SAIC12D	CREK	S	Uranium-235	DOEU	8953		J	37	pci/g
JP-D-11	SAIC12	CREK	S	Uranium-235	DOEU	8963		J	37	pci/g
JP-D-13	SAIC12	CREK	S	Uranium-235	DOEU	8953		J	37	pci/g
JP-D-17	SAIC12	CREK	S	Uranium-235	DOEU	8940		J	37	pci/g
JP-D-18	SAIC12	CREK	S	Uranium-235	DOEU	8938		J	37	pci/g
JP-D-19	SAIC12	CREK	S	Uranium-235	DOEU	8963		J	37	pci/g
JP-D-07	SAIC09	CREK	S	Uranium-234	DOEU	4177		J	37	pci/g
JP-D-07	SAIC09	CREK	S	Uranium-238	DOEU	4177		J	37	pci/g
JP-D-19	SAIC09	CREK	S	Uranium-235	DOEU	4177		J	37	pci/g
JP-D-20	SAIC09	CREK	S	Uranium-238	DOEU	4184		J	37	pci/g
JP-D-07	SAIC10	CREK	S	Uranium-234	DOEU	7153		J	37	pci/g
JP-D-07	SAIC10	CREK	S	Uranium-238	DOEU	7153		J	37	pci/g
JP-D-01	SAIC10	CREK	S	Uranium-235	DOEU	7184		J	37	pci/g
JP-D-02	SAIC10	CREK	S	Uranium-235	DOEU	7186		J	37	pci/g
JP-D-12	SAIC10	CREK	S	Uranium-235	DOEU	7195		J	37	pCi/g
JP-D-16	SAIC10	CREK	S	Uranium-235	DOEU	7195		J	37	pCi/g
JP-D-20	SAIC10	CREK	S	Uranium-234	DOEU	7184		J	37	pci/g
JP-D-20	SAIC10	CREK	S	Uranium-238	DOEU	7184		J	37	pci/g
JP-D-01	SAIC11	CREK	S	Uranium-235	DOEU	54		J	37	pci/g
JP-D-02	SAIC11	CREK	S	Uranium-235	DOEU	154		J	37	pci/g
JP-D-03	SAIC11	CREK	S	Uranium-235	DOEU	61		J	37	pci/g
JP-D-04	SAIC11	CREK	S	Uranium-235	DOEU	154		J	37	pci/g
JP-D-05	SAIC11	CREK	S	Uranium-235	DOEU	154		J	37	pci/g
JP-D-08	SAIC11D	CREK	S	Uranium-235	DOEU	61		J	37	pci/g
JP-D-09	SAIC11	CREK	S	Uranium-235	DOEU	54		J	37	pci/g
JP-D-10	SAIC11	CREK	S	Uranium-235	DOEU	154		J	37	pci/g
JP-D-12	SAIC11	CREK	S	Uranium-235	DOEU	61		J	37	pci/g
JP-D-16	SAIC11	CREK	S	Uranium-235	DOEU	154		J	37	pci/g
JP-PNGR-003	SAIC04D	BORE	S	Uranium-235	DOEU	8881		J	37	pci/g
JP-SAC-003	SAIC01	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-003	SAIC02	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data		Reason Code	UNITS
							New Value	Validation Qualifier		
JP-SAC-003	SAIC04	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SC5-006	SAIRB60	RNSW	W	Uranium-234	SM75	8757		J	37	pci/L
JP-SAC-007	SAIC01	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-007	SAIC02	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-007	SAIC03	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-007	SAIC04	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-007	SAIC01D	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-007	SAIC02D	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-007	SAIC03D	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-007	SAIC04D	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-008	SAIC01	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-008	SAIC02	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-008	SAIC04	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-009	SAIC01	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-009	SAIC02	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-009	SAIC03	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SAC-009	SAIC04	BORE	S	Uranium-235	DOEU	8777		J	37	pci/g
JP-SC1-004	SAIC01	BORE	S	Uranium-235	DOEU	8755		J	37	pci/g
JP-SC1-004	SAIC02	BORE	S	Uranium-235	DOEU	8755		J	37	pci/g
JP-SC1-004	SAIC03	BORE	S	Uranium-235	DOEU	8755		J	37	pci/g
JP-SC1-004	SAIC04	BORE	S	Uranium-235	DOEU	8755		J	37	pci/g
JP-SC1-005	SAIC01	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SC1-005	SAIC02	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SC1-006	SAIC01	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-006	SAIC02	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-006	SAIC03	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-006	SAIC04	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-006	SAIC01D	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-006	SAIC02D	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-006	SAIC03D	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-006	SAIC04D	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-007	SAIC01	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-007	SAIC02	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-007	SAIC03	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-007	SAIC04	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC1-008	SAIC01	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC1-008	SAIC02	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC1-008	SAIC03	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC1-008	SAIC04	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC1-009	SAIC01	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC1-009	SAIC02	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC1-009	SAIC03	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC1-009	SAIC04	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC1-010	SAIC01	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC1-010	SAIC02	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC1-010	SAIC03	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC1-010	SAIC04	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC1-011	SAIC01	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC1-011	SAIC02	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC1-011	SAIC03	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC1-011	SAIC04	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC2-001	SAIC01	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-SC2-001	SAIC02	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC2-001	SAIC03	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC2-001	SAIC04	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC2-002	SAIC01	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC2-002	SAIC02	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC2-002	SAIC03	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC2-002	SAIC04	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC2-004	SAIC04	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SC2-005	SAIC01	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC2-005	SAIC02	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC2-005	SAIC03	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC2-005	SAIC04	BORE	S	Uranium-235	DOEU	41		J	37	pci/g
JP-SC2-006	SAIC01	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC2-006	SAIC02	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC2-006	SAIC03	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC2-006	SAIC04	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-007	SAIC01	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC2-007	SAIC02	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC2-007	SAIC03	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC2-007	SAIC04	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC2-009	SAIC01	BORE	S	Uranium-235	DOEU	8863		J	37	pci/g
JP-SC2-009	SAIC02	BORE	S	Uranium-235	DOEU	8863		J	37	pci/g
JP-SC2-009	SAIC03	BORE	S	Uranium-235	DOEU	8741		J	37	pci/g
JP-SC2-009	SAIC04	BORE	S	Uranium-235	DOEU	8742		J	37	pci/g
JP-SC2-010	SAIC01	BORE	S	Uranium-235	DOEU	8755		J	37	pci/g
JP-SC2-010	SAIC02	BORE	S	Uranium-235	DOEU	8756		J	37	pci/g
JP-SC2-010	SAIC03	BORE	S	Uranium-235	DOEU	8756		J	37	pci/g
JP-SC2-010	SAIC04	BORE	S	Uranium-235	DOEU	8756		J	37	pci/g
JP-SC2-011	SAIC01	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-011	SAIC02	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-011	SAIC03	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-011	SAIC04	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-011	SAIC01D	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-011	SAIC02D	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-011	SAIC03D	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-011	SAIC04D	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC2-012	SAIC01	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC2-012	SAIC02	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC2-012	SAIC03	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC2-012	SAIC04	BORE	S	Uranium-235	DOEU	8731		J	37	pci/g
JP-SC3-001	SAIC01	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC3-001	SAIC02	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC3-001	SAIC03	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC3-001	SAIC04	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC3-001	SAIC05	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC3-002	SAIC01	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC3-002	SAIC02	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC3-002	SAIC03	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC3-002	SAIC04	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC3-002	SAIC05	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC3-004	SAIC01	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC3-004	SAIC02	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data		Reason Code	UNITS
							New Value	Validation Qualifier		
JP-SC3-004	SAIC03	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC3-004	SAIC04	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC3-004	SAIC05	BORE	S	Uranium-235	DOEU	8713		J	37	pci/g
JP-SC3-005	SAIC02	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC3-005	SAIC03	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC3-005	SAIC04	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC3-005	SAIC05	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC3-010	SAIC01	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC3-010	SAIC02	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC3-010	SAIC03	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC3-010	SAIC04	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC3-011	SAIC01	BORE	S	Uranium-235	DOEU	8752		J	37	pci/g
JP-SC3-011	SAIC02	BORE	S	Uranium-235	DOEU	8752		J	37	pci/g
JP-SC3-011	SAIC03	BORE	S	Uranium-235	DOEU	8752		J	37	pci/g
JP-SC3-011	SAIC04	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC4-002	SAIC01	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC4-002	SAIC02	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC4-002	SAIC03	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC4-002	SAIC04	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC4-003	SAIC01	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC4-003	SAIC02	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC4-003	SAIC03	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC4-003	SAIC04	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC4-003	SAIC05	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC4-004	SAIC01	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC4-004	SAIC02	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC4-004	SAIC03	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC4-004	SAIC04	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC4-004	SAIC05	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC4-006	SAIC01	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC6-001	SAIC01	BORE	S	Uranium-235	4523	9054		UJ	41,43	pci/g
JP-SC4-006	SAIC02	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC6-001	SAIC01	BORE	S	Uranium-238	4523	9054		UJ	41	pci/g
JP-SC6-001	SAIC02	BORE	S	Uranium-235	4523	9054		UJ	41,43	pci/g
JP-SC4-006	SAIC03	BORE	S	Uranium-235	DOEU	8721		J	37	pci/g
JP-SC4-006	SAIC04	BORE	S	Uranium-235	DOEU	8722		J	37	pci/g
JP-SC4-006	SAIC05	BORE	S	Uranium-235	DOEU	8722		J	37	pci/g
JP-SC4-006	SAIC01D	BORE	S	Uranium-235	DOEU	8722		J	37	pci/g
JP-SC6-002	SAIC01	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC4-006	SAIC02D	BORE	S	Uranium-235	DOEU	8722		J	37	pci/g
JP-SC6-002	SAIC02	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC4-006	SAIC03D	BORE	S	Uranium-235	DOEU	8722		J	37	pci/g
JP-SC4-006	SAIC04D	BORE	S	Uranium-235	DOEU	8722		J	37	pci/g
JP-SC4-006	SAIC05D	BORE	S	Uranium-235	DOEU	8722		J	37	pci/g
JP-SC4-007	SAIC01	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC4-007	SAIC02	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC6-002	SAIC02D	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC4-007	SAIC03	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC6-002	SAIC02D	BORE	S	Uranium-238	4523	9048		UJ	41,43	pci/g
JP-SC4-007	SAIC04	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC4-007	SAIC05	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC4-008	SAIC01	BORE	S	Uranium-235	DOEU	8752		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-SC4-008	SAIC02	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC6-004	SAIC01	BORE	S	Uranium-235	4523	9054		UJ	41	pci/g
JP-SC6-004	SAIC02	BORE	S	Uranium-235	4523	9054		UJ	41,42	pci/g
JP-SC4-008	SAIC03	BORE	S	Uranium-235	DOEU	8754		J	37	pci/g
JP-SC4-008	SAIC04	BORE	S	Uranium-235	DOEU	8755		J	37	pci/g
JP-SC4-009	SAIC01	BORE	S	Uranium-235	DOEU	8738		J	37	pci/g
JP-SC4-009	SAIC02	BORE	S	Uranium-235	DOEU	NULL		J	37	pci/g
JP-SC6-005	SAIC01	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC4-009	SAIC03	BORE	S	Uranium-235	DOEU	8863		J	37	pci/g
JP-SC6-005	SAIC01	BORE	S	Uranium-238	4523	9048		UJ	41	pci/g
JP-SC6-005	SAIC02	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC4-009	SAIC04	BORE	S	Uranium-235	DOEU	8741		J	37	pci/g
JP-SC6-005	SAIC02	BORE	S	Uranium-238	4523	9048		UJ	41,43	pci/g
JP-SC4-009	SAIC05	BORE	S	Uranium-235	DOEU	8742		J	37	pci/g
JP-SC4-011	SAIC01	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC4-011	SAIC02	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC6-006	SAIC01	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC4-011	SAIC03	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC6-006	SAIC01	BORE	S	Uranium-238	4523	9048		UJ	41,43	pci/g
JP-SC6-006	SAIC02	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC4-011	SAIC04	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC6-006	SAIC02	BORE	S	Uranium-238	4523	9048		R	44	pci/g
JP-SC4-012	SAIC01	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC4-012	SAIC02	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC4-012	SAIC03	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC6-007	SAIC02	BORE	S	Uranium-235	4523	9054		UJ	41,43	pci/g
JP-SC4-012	SAIC04	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC4-012	SAIC05	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC4-012	SAIC01D	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC6-008	SAIC02	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC4-012	SAIC02D	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC4-012	SAIC03D	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC4-012	SAIC04D	BORE	S	Uranium-235	DOEU	8714		J	37	pci/g
JP-SC6-008	SAIC05	BORE	S	Uranium-235	4523	9054		UJ	41,43	pci/g
JP-SC6-008	SAIC05	BORE	S	Uranium-238	4523	9054		UJ	41	pci/g
JP-SC4-012	SAIC05D	BORE	S	Uranium-235	DOEU	8715		J	37	pci/g
JP-SC6-008	SAIC01D	BORE	S	Uranium-238	4523	9048		UJ	41	pci/g
JP-SC6-008	SAIC02D	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC5-001	SAIC01	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-001	SAIC02	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-001	SAIC03	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-001	SAIC04	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-004	SAIC01	BORE	S	Uranium-235	DOEU	8756		J	37	pci/g
JP-SC6-009	SAIC01	BORE	S	Uranium-238	4523	9048		UJ	41	pci/g
JP-SC6-009	SAIC02	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC5-004	SAIC02	BORE	S	Uranium-235	DOEU	8756		J	37	pci/g
JP-SC5-004	SAIC03	BORE	S	Uranium-235	DOEU	8756		J	37	pci/g
JP-SC5-004	SAIC04	BORE	S	Uranium-235	DOEU	8756		J	37	pci/g
JP-SC5-005	SAIC01	BORE	S	Uranium-235	DOEU	8754		J	37	pci/g
JP-SC6-010	SAIC01	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC5-005	SAIC02	BORE	S	Uranium-235	DOEU	8754		J	37	pci/g
JP-SC6-010	SAIC01	BORE	S	Uranium-238	4523	9048		UJ	41	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-SC6-010	SAIC02	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC5-005	SAIC03	BORE	S	Uranium-235	DOEU	8755		J	37	pci/g
JP-SC6-010	SAIC02	BORE	S	Uranium-238	4523	9048		UJ	41	pci/g
JP-SC5-005	SAIC04	BORE	S	Uranium-235	DOEU	8755		J	37	pci/g
JP-SC5-006	SAIC01	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC5-006	SAIC02	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC6-011	SAIC01	BORE	S	Uranium-235	4523	9054		UJ	41,43	pci/g
JP-SC5-006	SAIC03	BORE	S	Uranium-235	DOEU	8753		J	37	pci/g
JP-SC6-011	SAIC01	BORE	S	Uranium-238	4523	9054		J	37	pci/g
JP-SC6-011	SAIC02	BORE	S	Uranium-235	4523	9054		UJ	41,43	pci/g
JP-SC5-006	SAIC04	BORE	S	Uranium-235	DOEU	8754		J	37	pci/g
JP-SC6-011	SAIC02	BORE	S	Uranium-238	4523	9054		J	37	pci/g
JP-SC5-007	SAIC01	BORE	S	Uranium-235	DOEU	8754		J	37	pci/g
JP-SC5-007	SAIC02	BORE	S	Uranium-235	DOEU	8754		J	37	pci/g
JP-SC5-007	SAIC03	BORE	S	Uranium-235	DOEU	8754		J	37	pci/g
JP-SC6-012	SAIC01	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC5-007	SAIC04	BORE	S	Uranium-235	DOEU	8754		J	37	pci/g
JP-SC6-012	SAIC01	BORE	S	Uranium-238	4523	9048		UJ	41,43	pci/g
JP-SC6-012	SAIC02	BORE	S	Uranium-235	4523	9048		UJ	41,43	pci/g
JP-SC5-009	SAIC01	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SC6-012	SAIC02	BORE	S	Uranium-238	4523	9048		UJ	41,43	pci/g
JP-SC5-009	SAIC02	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SC5-009	SAIC03	BORE	S	Uranium-235	DOEU	8724		J	37	pci/g
JP-SC5-009	SAIC04	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-009	SAIC01D	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-009	SAIC02D	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-009	SAIC03D	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-009	SAIC04D	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-017	SAIC01	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC5-017	SAIC02	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC5-017	SAIC03	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC5-017	SAIC04	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC5-018	SAIC01	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC5-018	SAIC02	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC5-018	SAIC03	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC5-018	SAIC04	BORE	S	Uranium-235	DOEU	8768		J	37	pci/g
JP-SC5-021	SAIC01	BORE	S	Uranium-235	DOEU	8752		J	37	pci/g
JP-SC5-021	SAIC02	BORE	S	Uranium-235	DOEU	8752		J	37	pci/g
JP-SC5-021	SAIC03	BORE	S	Uranium-235	DOEU	8752		J	37	pci/g
JP-SC5-021	SAIC04	BORE	S	Uranium-235	DOEU	8752		J	37	pci/g
JP-SC5-023	SAIC01	BORE	S	Uranium-235	DOEU	8738		J	37	pci/g
JP-SC5-023	SAIC02	BORE	S	Uranium-235	DOEU	8738		J	37	pci/g
JP-SC5-023	SAIC03	BORE	S	Uranium-235	DOEU	NULL		J	37	pci/g
JP-SC5-023	SAIC04	BORE	S	Uranium-235	DOEU	NULL		J	37	pci/g
JP-SC5-025	SAIC01	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC5-025	SAIC02	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC5-025	SAIC03	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC5-025	SAIC04	BORE	S	Uranium-235	DOEU	8726		J	37	pci/g
JP-SC5-027	SAIC01	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-027	SAIC02	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-027	SAIC03	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g
JP-SC5-027	SAIC04	BORE	S	Uranium-235	DOEU	8725		J	37	pci/g



**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
JP-SC5-029	SAIC01	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC5-029	SAIC02	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC5-029	SAIC03	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC5-029	SAIC04	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SC6-001	SAIC01	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-001	SAIC02	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-001	SAIC03	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-001	SAIC04	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-001	SAIC05	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-002	SAIC01	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC02	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC03	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC04	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC05	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC01D	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC02D	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC03D	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC04D	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-002	SAIC05D	BORE	S	Uranium-235	DOEU	8712		J	37	pci/g
JP-SC6-003	SAIC05	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-004	SAIC02	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-004	SAIC03	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-004	SAIC04	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-004	SAIC05	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-005	SAIC01	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-005	SAIC02	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-005	SAIC03	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-005	SAIC04	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-005	SAIC05	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-006	SAIC01	BORE	S	Uranium-235	DOEU	8816		J	37	pci/g
JP-SC6-006	SAIC02	BORE	S	Uranium-235	DOEU	8816		J	37	pci/g
JP-SC6-006	SAIC03	BORE	S	Uranium-235	DOEU	8816		J	37	pci/g
JP-SC6-006	SAIC04	BORE	S	Uranium-235	DOEU	8817		J	37	pci/g
JP-SC6-006	SAIC05	BORE	S	Uranium-235	DOEU	8817		J	37	pci/g
JP-SC6-007	SAIC03	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-007	SAIC04	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-007	SAIC05	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-008	SAIC02	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-008	SAIC03	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-008	SAIC04	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-008	SAIC01D	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-008	SAIC02D	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-008	SAIC03D	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-008	SAIC04D	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-008	SAIC05D	BORE	S	Uranium-235	DOEU	8831		J	37	pci/g
JP-SC6-009	SAIC01	BORE	S	Uranium-235	DOEU	8816		J	37	pci/g
JP-SC6-009	SAIC02	BORE	S	Uranium-235	DOEU	8817		J	37	pci/g
JP-SC6-009	SAIC03	BORE	S	Uranium-235	DOEU	8818		J	37	pci/g
JP-SC6-009	SAIC04	BORE	S	Uranium-235	DOEU	8819		J	37	pci/g
JP-SC6-009	SAIC05	BORE	S	Uranium-235	DOEU	8820		J	37	pci/g
JP-SC6-010	SAIC01	BORE	S	Uranium-235	DOEU	8817		J	37	pci/g
JP-SC6-010	SAIC02	BORE	S	Uranium-235	DOEU	8818		J	37	pci/g

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-SC6-010	SAIC03	BORE	S	Uranium-235	DOEU	8818		J	37	pci/g
JP-SC6-010	SAIC04	BORE	S	Uranium-235	DOEU	8818		J	37	pci/g
JP-SC6-010	SAIC05	BORE	S	Uranium-235	DOEU	8819		J	37	pci/g
JP-SC6-011	SAIC01	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-011	SAIC02	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-011	SAIC03	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-011	SAIC04	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-W-04	SAIC11F	CREK	W	Uranium-234	SM75	154		J	37	pci/L
JP-W-04	SAIC11DF	CREK	W	Uranium-234	SM75	154		J	37	pci/L
JP-W-04	SAIC11DF	CREK	W	Uranium-235	SM75	154		J	37	pci/L
JP-W-05	SAIC11	CREK	W	Uranium-235	SM75	154		J	37	pci/L
JP-W-05	SAIC11F	CREK	W	Uranium-235	SM75	154		J	37	pci/L
JP-W-07	SAIC11	CREK	W	Uranium-234	SM75	79		J	37	pci/L
JP-W-07	SAIC11	CREK	W	Uranium-238	SM75	79		J	37	pci/L
JP-W-07	SAIC11F	CREK	W	Uranium-234	SM75	79		J	37	pci/L
JP-W-09	SAIC11	CREK	W	Uranium-234	SM75	54		J	37	pci/L
JP-W-09	SAIC11	CREK	W	Uranium-238	SM75	54		J	37	pci/L
JP-W-09	SAIC11F	CREK	W	Uranium-234	SM75	54		J	37	pci/L
JP-W-09	SAIC11F	CREK	W	Uranium-238	SM75	54		J	37	pci/L
JP-W-11	SAIC11	CREK	W	Uranium-234	SM75	54		J	37	pci/L
JP-W-13	SAIC11	CREK	W	Calcium	6010	71		J	24	ug/l
JP-W-13	SAIC11	CREK	W	Magnesium	6010	71		J	24	ug/l
JP-W-13	SAIC11	CREK	W	Manganese	6010	71		J	24	ug/l
JP-W-13	SAIC11	CREK	W	Silicon	6010	71		J	20,24	ug/l
JP-W-13	SAIC11	CREK	W	Sodium	6010	71		J	24	ug/l
JP-W-13	SAIC11	CREK	W	Uranium-234	SM75	71		J	37	pci/L
JP-W-13	SAIC11	CREK	W	Uranium-238	SM75	71		J	37	pci/L
JP-W-13	SAIC11F	CREK	W	Calcium	6010	71		J	24	ug/l
JP-W-13	SAIC11F	CREK	W	Iron	6010	71	150	U	17	ug/l
JP-W-13	SAIC11F	CREK	W	Magnesium	6010	71		J	24	ug/l
JP-W-13	SAIC11F	CREK	W	Manganese	6010	71		J	24	ug/l
JP-W-13	SAIC11F	CREK	W	Silicon	6010	71		J	20,24	ug/l
JP-W-13	SAIC11F	CREK	W	Sodium	6010	71		J	24	ug/l
JP-W-13	SAIC11F	CREK	W	Uranium-234	SM75	71		J	37	pci/L
JP-W-13	SAIC11F	CREK	W	Uranium-238	SM75	71		J	37	pci/L
JP-W-13	SAIC11D	CREK	W	Calcium	6010	71		J	24	ug/l
JP-W-13	SAIC11D	CREK	W	Magnesium	6010	71		J	24	ug/l
JP-W-13	SAIC11D	CREK	W	Manganese	6010	71		J	24	ug/l
JP-W-13	SAIC11D	CREK	W	Silicon	6010	71		J	20,24	ug/l
JP-W-13	SAIC11D	CREK	W	Sodium	6010	71		J	24	ug/l
JP-W-13	SAIC11D	CREK	W	Uranium-234	SM75	71		J	37	pci/L
JP-W-13	SAIC11D	CREK	W	Uranium-238	SM75	71		J	37	pci/L
JP-W-13	SAIC11DF	CREK	W	Calcium	6010	71		J	24	ug/l
JP-W-13	SAIC11DF	CREK	W	Iron	6010	71	150	U	17	ug/l
JP-W-13	SAIC11DF	CREK	W	Magnesium	6010	71		J	24	ug/l
JP-W-13	SAIC11DF	CREK	W	Manganese	6010	71		J	24	ug/l
JP-W-13	SAIC11DF	CREK	W	Silicon	6010	71		J	20,24	ug/l
JP-W-13	SAIC11DF	CREK	W	Sodium	6010	71		J	24	ug/l
JP-W-13	SAIC11DF	CREK	W	Uranium-234	SM75	71		J	37	pci/L
JP-W-13	SAIC11DF	CREK	W	Uranium-238	SM75	71		J	37	pci/L
JP-W-15	SAIC11F	CREK	W	Uranium-235	SM75	79		J	37	pci/L
JP-W-19	SAIC11	CREK	W	Uranium-234	SM75	79		J	37	pci/L

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-W-19	SAIC11	CREK	W	Uranium-238	SM75	79		J	37	pci/L
JP-W-19	SAIC11F	CREK	W	Uranium-238	SM75	93		J	37	pci/L
JP-W-22	SAIC11	CREK	W	Uranium-235	SM75	61		J	37	pci/L
JP-W-23	SAIC11	CREK	W	Uranium-234	SM75	133		J	37	pci/L
JP-W-23	SAIC11	CREK	W	Uranium-238	SM75	133		J	37	pci/L
JP-W-23	SAIC11F	CREK	W	Uranium-234	SM75	133		J	37	pci/L
JP-W-23	SAIC11F	CREK	W	Uranium-238	SM75	133		J	37	pci/L
JP-W-24	SAIC11	CREK	W	Uranium-234	SM75	54		J	37	pci/L
JP-W-26	SAIC11F	CREK	W	Uranium-234	SM75	133		J	37	pci/L
JP-W-27	SAIC11	CREK	W	Uranium-234	SM75	61		J	37	pci/L
JP-W-27	SAIC11	CREK	W	Uranium-238	SM75	61		J	37	pci/L
JP-W-27	SAIC11F	CREK	W	Uranium-234	SM75	61		J	37	pci/L
JP-W-27	SAIC11F	CREK	W	Uranium-238	SM75	61		J	37	pci/L
JP-W-28	SAIC11	CREK	W	Calcium	6010	71		J	24	ug/l
JP-W-28	SAIC11	CREK	W	Iron	6010	71		U	17	ug/l
JP-W-28	SAIC11	CREK	W	Magnesium	6010	71		J	24	ug/l
JP-W-28	SAIC11	CREK	W	Manganese	6010	71		J	24	ug/l
JP-W-28	SAIC11	CREK	W	Silicon	6010	71		J	20,24	ug/l
JP-W-28	SAIC11	CREK	W	Sodium	6010	71		J	24	ug/l
JP-W-28	SAIC11	CREK	W	Uranium-234	SM75	71		J	37	pci/L
JP-W-28	SAIC11	CREK	W	Uranium-238	SM75	71		J	37	pci/L
JP-W-28	SAIC11F	CREK	W	Calcium	6010	71		J	24	ug/l
JP-W-28	SAIC11F	CREK	W	Iron	6010	71	150	U	17	ug/l
JP-W-28	SAIC11F	CREK	W	Magnesium	6010	71		J	24	ug/l
JP-W-28	SAIC11F	CREK	W	Manganese	6010	71		J	24	ug/l
JP-W-28	SAIC11F	CREK	W	Silicon	6010	71		J	20,24	ug/l
JP-W-28	SAIC11F	CREK	W	Sodium	6010	71		J	24	ug/l
JP-W-28	SAIC11F	CREK	W	Uranium-238	SM75	71		J	37	pci/L
JPG-DU-01D	SAIC11	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-01D	SAIC11F	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-01D	SAIC11F	WELL	W	Uranium-234	SM75	184		J	37	pci/L
JPG-DU-02D	SAIC11	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-02D	SAIC11	WELL	W	Nitrate	300	184		J	1	mg/l
JPG-DU-02D	SAIC11	WELL	W	Uranium-235	SM75	184		J	37	pci/L
JPG-DU-02D	SAIC11F	WELL	W	Nitrate	300	184		J	1	mg/l
JPG-DU-02D	SAIC11F	WELL	W	Uranium-235	SM75	184		J	37	pci/L
JPG-DU-02I	SAIC11	WELL	W	Uranium-234	SM75	179		J	37	pci/L
JPG-DU-02I	SAIC11	WELL	W	Uranium-238	SM75	179		J	37	pci/L
JPG-DU-02I	SAIC11F	WELL	W	Uranium-234	SM75	179		J	37	pci/L
JPG-DU-02I	SAIC11F	WELL	W	Uranium-238	SM75	179		J	37	pci/L
JPG-DU-03I	SAIC11	WELL	W	Chloride	300	210		J	16	mg/l
JPG-DU-03I	SAIC11	WELL	W	Magnesium	6010	210		J	24	ug/l
JPG-DU-03I	SAIC11	WELL	W	Uranium-238	SM75	210		J	37	pci/L
JPG-DU-03I	SAIC11F	WELL	W	Chloride	300	210		J	16	mg/l
JPG-DU-03I	SAIC11F	WELL	W	Iron	6010	210	150	U	6	ug/l
JPG-DU-03I	SAIC11F	WELL	W	Magnesium	6010	210		J	24	ug/l
JPG-DU-03I	SAIC11F	WELL	W	Uranium-234	SM75	210		J	37	pci/L
JPG-DU-03I	SAIC11F	WELL	W	Uranium-238	SM75	210		J	37	pci/L
JPG-DU-03O	SAIC11	WELL	W	Uranium-235	SM75	79		J	37	pci/L
JPG-DU-03O	SAIC11F	WELL	W	Uranium-235	SM75	79		J	37	pci/L
JPG-DU-03O	SAIC11D	WELL	W	Uranium-234	SM75	79		J	37	pci/L
JPG-DU-03O	SAIC11D	WELL	W	Uranium-238	SM75	79		J	37	pci/L

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JPG-DU-04O	SAIC11	WELL	W	Aluminum	6010	164		U	6	ug/l
JPG-DU-04O	SAIC11	WELL	W	Silicon	6010	164		J	20,24	ug/l
JPG-DU-04O	SAIC11	WELL	W	Uranium-238	SM75	164		J	37	pci/L
JPG-DU-04O	SAIC11F	WELL	W	Aluminum	6010	164		U	6	ug/l
JPG-DU-04O	SAIC11F	WELL	W	Silicon	6010	164		J	20,24	ug/l
JPG-DU-04O	SAIC11F	WELL	W	Uranium-234	SM75	164		J	37	pci/L
JPG-DU-04O	SAIC11F	WELL	W	Uranium-238	SM75	164		J	37	pci/L
JPG-DU-04I	SAIRB65	RNSW	W	Magnesium	6010	179	250	U	6	ug/l
JPG-DU-04I	SAIRB65	RNSW	W	Manganese	6010	179	5	U	17	ug/l
JPG-DU-04I	SAIRB65	RNSW	W	Silicon	6010	179	50	U	6	ug/l
JPG-DU-04I	SAIC11	WELL	W	Uranium-235	SM75	179		J	37	pci/L
JPG-DU-05D	SAIC11	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-05D	SAIC11F	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-05D	SAIC11F	WELL	W	Uranium-235	SM75	184		J	37	pci/L
JPG-DU-05I	SAIC11	WELL	W	Uranium-235	SM75	54		J	37	pci/L
JPG-DU-06D	SAIC11F	WELL	W	Uranium-235	SM75	29		J	37	pci/L
JPG-DU-06I	SAIC11	WELL	W	Uranium-235	SM75	29		J	37	pci/L
JPG-DU-06O	SAIC11F	WELL	W	Uranium-235	SM75	29		J	37	pci/L
JPG-DU-07D	SAIC11	WELL	W	Aluminum	6010	184		J	20	ug/l
JPG-DU-07D	SAIC11	WELL	W	Uranium-234	SM75	184		J	37	pci/L
JPG-DU-07D	SAIC11F	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-07I	SAIC11	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-07I	SAIC11	WELL	W	Uranium-235	SM75	184		J	37	pci/L
JPG-DU-07I	SAIC11F	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-08I	SAIC11	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-08I	SAIC11	WELL	W	Nitrate	300	184		J	1	mg/l
JPG-DU-08I	SAIC11F	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-08I	SAIC11F	WELL	W	Nitrate	300	184		J	1	mg/l
JPG-DU-09D	SAIC11	WELL	W	Magnesium	6010	210		J	24	ug/l
JPG-DU-09D	SAIC11	WELL	W	Nitrate	300	210		J	1	mg/l
JPG-DU-09D	SAIC11F	WELL	W	Magnesium	6010	210		J	24	ug/l
JPG-DU-09D	SAIC11F	WELL	W	Nitrate	300	210		J	1	mg/l
JPG-DU-09I	SAIC11	WELL	W	Aluminum	6010	164		J	20	ug/l
JPG-DU-09I	SAIC11	WELL	W	Silicon	6010	164		J	20,24	ug/l
JPG-DU-09I	SAIC11F	WELL	W	Iron	6010	164	150	U	6	ug/l
JPG-DU-09I	SAIC11F	WELL	W	Silicon	6010	164		J	20,24	ug/l
JPG-DU-09O	SAIC11	WELL	W	Uranium-235	SM75	93		J	37	pci/L
JPG-DU-09O	SAIC11F	WELL	W	Uranium-235	SM75	93		J	37	pci/L
JPG-DU-10D	SAIC11	WELL	W	Silicon	6010	164		J	20,24	ug/l
JPG-DU-10D	SAIC11F	WELL	W	Silicon	6010	164		J	20,24	ug/l
JPG-DU-10O	SAIC11	WELL	W	Chloride	300	210		J	16	mg/l
JPG-DU-10O	SAIC11	WELL	W	Magnesium	6010	210		J	24	ug/l
JPG-DU-10O	SAIC11F	WELL	W	Chloride	300	210		J	16	mg/l
JPG-DU-10O	SAIC11F	WELL	W	Magnesium	6010	210		J	24	ug/l
JPG-DU-10O	SAIC11F	WELL	W	Uranium-235	SM75	210		J	37	pci/L
MW-1	SAIC11	WELL	W	Iron	6010	179	150	U	17	ug/l
MW-1	SAIC11	WELL	W	Manganese	6010	179	5	U	17	ug/l
MW-1	SAIC11F	WELL	W	Iron	6010	179	150	U	17	ug/l
MW-1	SAIC11F	WELL	W	Manganese	6010	179	5	U	17	ug/l
MW-10	SAIC11	WELL	W	Magnesium	6010	210		J	24	ug/l
MW-10	SAIC11F	WELL	W	Magnesium	6010	210		J	24	ug/l
MW-10	SAIC11F	WELL	W	Manganese	6010	210	5	U	17	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
MW-10	SAIC11F	WELL	W	Uranium-235	SM75	210		J	37	pci/L
MW-11	SAIC11	WELL	W	Magnesium	6010	210		J	24	ug/l
MW-11	SAIC11	WELL	W	Uranium-238	SM75	210		J	37	pci/L
MW-11	SAIC11F	WELL	W	Magnesium	6010	210		J	24	ug/l
MW-11	SAIC11F	WELL	W	Uranium-238	SM75	210		J	37	pci/L
MW-2	SAIC11	WELL	W	Calcium	6010	71		J	24	ug/l
MW-2	SAIC11	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-2	SAIC11	WELL	W	Manganese	6010	71		J	24	ug/l
MW-2	SAIC11	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-2	SAIC11	WELL	W	Sodium	6010	71		J	24	ug/l
MW-2	SAIC11F	WELL	W	Calcium	6010	71		J	24	ug/l
MW-2	SAIC11F	WELL	W	Iron	6010	71	150	U	17	ug/l
MW-2	SAIC11F	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-2	SAIC11F	WELL	W	Manganese	6010	71		J	24	ug/l
MW-2	SAIC11F	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-2	SAIC11F	WELL	W	Sodium	6010	71		J	24	ug/l
MW-2	SAIC11F	WELL	W	Uranium-235	SM75	8750		J	37	pci/L
MW-4	SAIC11F	WELL	W	Uranium-235	SM75	32		J	37	pci/L
MW-5	SAIC11	WELL	W	Uranium-234	SM75	154		J	37	pci/L
MW-5	SAIC11	WELL	W	Uranium-238	SM75	154		J	37	pci/L
MW-5	SAIC11F	WELL	W	Uranium-234	SM75	154		J	37	pci/L
MW-5	SAIC11F	WELL	W	Uranium-238	SM75	154		J	37	pci/L
MW-6	SAIC11	WELL	W	Uranium-235	SM75	154		J	37	pci/L
MW-6	SAIC11F	WELL	W	Uranium-235	SM75	154		J	37	pci/L
MW-RS-1	SAIC11	WELL	W	Calcium	6010	71		J	24	ug/l
MW-RS-1	SAIC11	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-RS-1	SAIC11	WELL	W	Manganese	6010	71		J	24	ug/l
MW-RS-1	SAIC11	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-RS-1	SAIC11	WELL	W	Sodium	6010	71		J	24	ug/l
MW-RS-1	SAIC11	WELL	W	Uranium-235	SM75	71		J	37	pci/L
MW-RS-1	SAIC11F	WELL	W	Calcium	6010	71		J	24	ug/l
MW-RS-1	SAIC11F	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-RS-1	SAIC11F	WELL	W	Manganese	6010	71		J	24	ug/l
MW-RS-1	SAIC11F	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-RS-1	SAIC11F	WELL	W	Sodium	6010	71		J	24	ug/l
MW-RS-1	SAIC11D	WELL	W	Calcium	6010	71		J	24	ug/l
MW-RS-1	SAIC11D	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-RS-1	SAIC11D	WELL	W	Manganese	6010	71		J	24	ug/l
MW-RS-1	SAIC11D	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-RS-1	SAIC11D	WELL	W	Sodium	6010	71		J	24	ug/l
MW-RS-1	SAIC11DF	WELL	W	Calcium	6010	71		J	24	ug/l
MW-RS-1	SAIC11DF	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-RS-1	SAIC11DF	WELL	W	Manganese	6010	71		J	24	ug/l
MW-RS-1	SAIC11DF	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-RS-1	SAIC11DF	WELL	W	Sodium	6010	71		J	24	ug/l
MW-RS-2	SAIC11	WELL	W	Calcium	6010	71		J	24	ug/l
MW-RS-2	SAIC11	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-RS-2	SAIC11	WELL	W	Manganese	6010	71		J	24	ug/l
MW-RS-2	SAIC11	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-RS-2	SAIC11	WELL	W	Sodium	6010	71		J	24	ug/l
MW-RS-2	SAIC11	WELL	W	Uranium-238	SM75	71		J	37	pci/L
MW-RS-2	SAIC11F	WELL	W	Calcium	6010	71		J	24	ug/l

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			UNITS
							New Value	Validation Qualifier	Reason Code	
MW-RS-2	SAIC11F	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-RS-2	SAIC11F	WELL	W	Manganese	6010	71	5	U	17	ug/l
MW-RS-2	SAIC11F	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-RS-2	SAIC11F	WELL	W	Sodium	6010	71		J	24	ug/l
MW-RS-2	SAIC11F	WELL	W	Uranium-234	SM75	71		J	37	pci/L
MW-RS-2	SAIC11F	WELL	W	Uranium-238	SM75	71		J	37	pci/L
MW-RS-2	SAIC11D	WELL	W	Calcium	6010	71		J	24	ug/l
MW-RS-2	SAIC11D	WELL	W	Iron	6010	71	150	U	17	ug/l
MW-RS-2	SAIC11D	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-RS-2	SAIC11D	WELL	W	Manganese	6010	71		J	24	ug/l
MW-RS-2	SAIC11D	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-RS-2	SAIC11D	WELL	W	Sodium	6010	71		J	24	ug/l
MW-RS-2	SAIC11D	WELL	W	Uranium-238	SM75	71		J	37	pci/L
MW-RS-2	SAIC11DF	WELL	W	Calcium	6010	71		J	24	ug/l
MW-RS-2	SAIC11DF	WELL	W	Iron	6010	71	150	U	17	ug/l
MW-RS-2	SAIC11DF	WELL	W	Magnesium	6010	71		J	24	ug/l
MW-RS-2	SAIC11DF	WELL	W	Manganese	6010	71		U	17	ug/l
MW-RS-2	SAIC11DF	WELL	W	Silicon	6010	71		J	20,24	ug/l
MW-RS-2	SAIC11DF	WELL	W	Sodium	6010	71		J	24	ug/l
MW-RS-2	SAIC11DF	WELL	W	Uranium-234	SM75	8750		J	37	pci/L
MW-RS-2	SAIC11DF	WELL	W	Uranium-238	SM75	8750		J	37	pci/L
MW-RS-3	SAIC11	WELL	W	Uranium-235	SM75	210		J	37	pci/L
MW-RS-4	SAIC11	WELL	W	Uranium-235	SM75	133		J	37	pci/L
MW-RS-5	SAIC11	WELL	W	Uranium-235	SM75	133		J	37	pci/L
MW-RS-5	SAIC11F	WELL	W	Uranium-235	SM75	133		J	37	pci/L
MW-RS-7	SAIC11	WELL	W	Uranium-235	SM75	133		J	37	pci/L
MW-RS-7	SAIC11F	WELL	W	Uranium-235	SM75	133		J	37	pci/L
MW-RS-8	SAIC11F	WELL	W	Uranium-234	SM75	154		J	37	pci/L
MW-RS-8	SAIC11F	WELL	W	Uranium-238	SM75	154		J	37	pci/L
SOURCETAP	SAIFB53	FBLK	W	Uranium-234	SM75	32		J	37	pci/L
SOURCETAP	SAIFB53	FBLK	W	Uranium-238	SM75	35		J	37	pci/L
SOURCETAP	SAIFB53F	FBLK	W	Uranium-238	SM75	32		J	37	pci/L
JPG-DU-04D	SAIC11	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JPG-DU-04D	SAIC11F	WELL	W	Aluminum	6010	184		UJ	20	ug/l
JP-SC6-011	SAIC05	BORE	S	Uranium-235	DOEU	8832		J	37	pci/g
JP-SC6-012	SAIC01	BORE	S	Uranium-235	DOEU	8819		J	37	pci/g
JP-SC6-012	SAIC02	BORE	S	Uranium-235	DOEU	8819		J	37	pci/g
JP-SC6-012	SAIC04	BORE	S	Uranium-235	DOEU	8820		J	37	pci/g
JP-SCR-001	SAIC01	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SCR-001	SAIC02	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SCR-001	SAIC03	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SCR-001	SAIC04	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SCR-004	SAIC01	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SCR-004	SAIC02	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SCR-004	SAIC03	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-SCR-004	SAIC04	BORE	S	Uranium-235	DOEU	8775		J	37	pci/g
JP-W-01	SAIC12	CREK	W	Uranium-234	SM75	8952		J	37	pci/L
JP-W-01	SAIC12	CREK	W	Uranium-238	SM75	8952		J	37	pci/L
JP-W-01	SAIC12F	CREK	W	Uranium-234	SM75	8952		J	37	pci/L
JP-W-01	SAIC12F	CREK	W	Uranium-238	SM75	8952		J	37	pci/L
JP-W-02	SAIC12	CREK	W	Uranium-234	SM75	8946		J	37	pci/L
JP-W-02	SAIC12	CREK	W	Uranium-238	SM75	8946		J	37	pci/L

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JP-W-02	SAIC12F	CREK	W	Uranium-234	SM75	8946		J	37	pci/L
JP-W-02	SAIC12F	CREK	W	Uranium-238	SM75	8946		J	37	pci/L
JP-W-03	SAIC12	CREK	W	Uranium-234	SM75	8942		J	37	pci/L
JP-W-03	SAIC12F	CREK	W	Uranium-234	SM75	8942		J	37	pci/L
JP-W-04	SAIC12	CREK	W	Uranium-234	SM75	8946		J	37	pci/L
JP-W-04	SAIC12F	CREK	W	Uranium-234	SM75	8946		J	37	pci/L
JP-W-05	SAIC12F	CREK	W	Uranium-235	SM75	8944		J	37	pci/L
JP-W-06	SAIC12	CREK	W	Uranium-235	SM75	8944		J	37	pci/L
JP-W-07	SAIC12	CREK	W	Uranium-234	SM75	8961		J	37	pci/L
JP-W-07	SAIC12	CREK	W	Uranium-238	SM75	8961		J	37	pci/L
JP-W-07	SAIC12F	CREK	W	Uranium-238	SM75	8962		J	37	pci/L
JP-W-08	SAIC12	CREK	W	Uranium-234	SM75	8941		J	37	pci/L
JP-W-08	SAIC12F	CREK	W	Uranium-234	SM75	8941		J	37	pci/L
JP-W-09	SAIC12	CREK	W	Uranium-234	SM75	8952		J	37	pci/L
JP-W-09	SAIC12	CREK	W	Uranium-238	SM75	8952		J	37	pci/L
JP-W-09	SAIC12F	CREK	W	Uranium-234	SM75	8952		J	37	pci/L
JP-W-09	SAIC12F	CREK	W	Uranium-238	SM75	8952		J	37	pci/L
JP-W-10	SAIC12	CREK	W	Uranium-234	SM75	8952		J	37	pci/L
JP-W-10	SAIC12	CREK	W	Uranium-238	SM75	8952		J	37	pci/L
JP-W-10	SAIC12F	CREK	W	Uranium-238	SM75	8952		J	37	pci/L
JP-W-11	SAIRB72	RNSW	W	Uranium-234	SM75	8962		J	37	pci/L
JP-W-11	SAIRB72F	RNSW	W	Uranium-234	SM75	8962		J	37	pci/L
JP-W-11	SAIC12	CREK	W	Uranium-238	SM75	8962		J	37	pci/L
JP-W-11	SAIC12F	CREK	W	Uranium-234	SM75	8962		J	37	pci/L
JP-W-11	SAIC12F	CREK	W	Uranium-238	SM75	8962		J	37	pci/L
JP-W-11	SAIC12D	CREK	W	Uranium-238	SM75	8962		J	37	pci/L
JP-W-11	SAIC12DF	CREK	W	Uranium-234	SM75	8962		J	37	pci/L
JP-W-11	SAIC12DF	CREK	W	Uranium-238	SM75	8962		J	37	pci/L
JP-W-12	SAIC12	CREK	W	Uranium-234	SM75	8942		J	37	pci/L
JP-W-12	SAIC12	CREK	W	Uranium-238	SM75	8942		J	37	pci/L
JP-W-12	SAIC12F	CREK	W	Uranium-234	SM75	8942		J	37	pci/L
JP-W-12	SAIC12F	CREK	W	Uranium-238	SM75	8942		J	37	pci/L
JP-W-13	SAIC12F	CREK	W	Uranium-234	SM75	8952		J	37	pci/L
JP-W-17	SAIC12F	CREK	W	Uranium-234	SM75	8939		J	37	pci/L
JP-W-18	SAIC12	CREK	W	Uranium-234	SM75	8941		J	37	pci/L
JP-W-18	SAIC12	CREK	W	Uranium-238	SM75	8941		J	37	pci/L
JP-W-19	SAIC12	CREK	W	Uranium-234	SM75	8961		J	37	pci/L
JP-W-19	SAIC12	CREK	W	Uranium-238	SM75	8961		J	37	pci/L
JP-W-19	SAIC12F	CREK	W	Uranium-234	SM75	8962		J	37	pci/L
JP-W-19	SAIC12F	CREK	W	Uranium-238	SM75	8962		J	37	pci/L
JP-W-20	SAIC12	CREK	W	Uranium-238	SM75	8941		J	37	pci/L
JP-W-20	SAIC12F	CREK	W	Uranium-238	SM75	8941		J	37	pci/L
JPG-DU-01D	SAIC12	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-01D	SAIC12F	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-01D	SAIC12F	WELL	W	Uranium-238	SM75	8977		J	37	pci/L
JPG-DU-01I	SAIC12	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-01I	SAIC12	WELL	W	Uranium-234	SM75	8977		J	37	pci/L
JPG-DU-01I	SAIC12	WELL	W	Uranium-238	SM75	8977		J	37	pci/L
JPG-DU-01I	SAIC12F	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-01I	SAIC12F	WELL	W	Uranium-234	SM75	8977		J	37	pci/L
JPG-DU-01I	SAIC12F	WELL	W	Uranium-238	SM75	8977		J	37	pci/L
JPG-DU-02D	SAIC12	WELL	W	Uranium-235	SM75	8972		J	37	pci/L

**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	New Value	Data	Reason Code	UNITS
								Validation Qualifier		
JPG-DU-02I	SAIC12	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-02I	SAIC12	WELL	W	Uranium-234	SM75	8977		J	37	pci/L
JPG-DU-02I	SAIC12	WELL	W	Uranium-238	SM75	8977		J	37	pci/L
JPG-DU-02I	SAIC12F	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-02I	SAIC12F	WELL	W	Uranium-234	SM75	8977		J	37	pci/L
JPG-DU-02I	SAIC12F	WELL	W	Uranium-238	SM75	8977		J	37	pci/L
JPG-DU-03I	SAIC12	WELL	W	Uranium-238	SM75	8971		J	37	pci/L
JPG-DU-03O	SAIC12	WELL	W	Uranium-235	SM75	8971		J	37	pci/L
JPG-DU-04I	SAIC12	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-04I	SAIC12F	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-04O	SAIC12	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-04O	SAIC12	WELL	W	Uranium-238	SM75	8977		J	37	pci/L
JPG-DU-04O	SAIC12F	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-04O	SAIC12F	WELL	W	Uranium-234	SM75	8977		J	37	pci/L
JPG-DU-04O	SAIC12F	WELL	W	Uranium-238	SM75	8977		J	37	pci/L
JPG-DU-05I	SAIC12	WELL	W	Aluminum	6010	2118		J	20	ug/l
JPG-DU-05I	SAIC12	WELL	W	Silicon	6010	2118		J	20	ug/l
JPG-DU-05I	SAIC12	WELL	W	Uranium-235	SM75	8965		J	37	pci/L
JPG-DU-05I	SAIC12F	WELL	W	Silicon	6010	2118		J	20	ug/l
JPG-DU-06D	SAIC12	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-06D	SAIC12	WELL	W	Uranium-235	SM75	8972		J	37	pci/L
JPG-DU-06D	SAIC12F	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-06I	SAIC12	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-06I	SAIC12F	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-06O	SAIC12	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-06O	SAIC12	WELL	W	Uranium-235	SM75	8972		J	37	pci/L
JPG-DU-06O	SAIC12F	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-06O	SAIC12F	WELL	W	Uranium-235	SM75	8972		J	37	pci/L
JPG-DU-07D	SAIC12	WELL	W	Nitrate	300	2125		R	1	mg/l
JPG-DU-07D	SAIC12	WELL	W	Uranium-238	SM75	8971		J	37	pci/L
JPG-DU-07D	SAIC12F	WELL	W	Nitrate	300	2125		R	1	mg/l
JPG-DU-07D	SAIC12F	WELL	W	Uranium-234	SM75	8971		J	37	pci/L
JPG-DU-07D	SAIC12F	WELL	W	Uranium-238	SM75	8971		J	37	pci/L
JPG-DU-07I	SAIC12	WELL	W	Nitrate	300	2125		J	1	mg/l
JPG-DU-07I	SAIC12F	WELL	W	Nitrate	300	2125		J	1	mg/l
JPG-DU-08I	SAIC12	WELL	W	Uranium-235	SM75	8971		J	37	pci/L
JPG-DU-09D	SAIC12	WELL	W	Nitrate	300	2118		R	1	mg/l
JPG-DU-09D	SAIC12	WELL	W	Silicon	6010	2118		J	20	ug/l
JPG-DU-09D	SAIC12F	WELL	W	Nitrate	300	2118		R	1	mg/l
JPG-DU-09D	SAIC12F	WELL	W	Silicon	6010	2118		J	20	ug/l
JPG-DU-09I	SAIC12	WELL	W	Chloride	300	2136		J	16	mg/l
JPG-DU-09I	SAIC12	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-09I	SAIC12	WELL	W	Uranium-238	SM75	8972		J	37	pci/L
JPG-DU-09I	SAIC12F	WELL	W	Chloride	300	2136		J	16	mg/l
JPG-DU-09I	SAIC12F	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-09I	SAIC12F	WELL	W	Uranium-238	SM75	8972		J	37	pci/L
JPG-DU-09O	SAIC12	WELL	W	Chloride	300	2136		J	16	mg/l
JPG-DU-09O	SAIC12	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-09O	SAIC12F	WELL	W	Chloride	300	2136		J	16	mg/l
JPG-DU-09O	SAIC12F	WELL	W	Silicon	6010	2136		J	20	ug/l
JPG-DU-10D	SAIC12	WELL	W	Sodium	6010	2149		J	24	ug/l
JPG-DU-10D	SAIC12F	WELL	W	Sodium	6010	2149		J	24	ug/l



**Table 2. Qualified Data**  
**Jefferson Proving Ground Depleted Uranium Impact Area Site Characterization**

Site ID	Sample ID	Sample Type	Matrix	Analyte	Method	Lot	Data			
							New Value	Validation Qualifier	Reason Code	UNITS
JPG-DU-100	SAIC12	WELL	W	Silicon	6010	2136		J	20	ug/l
MW-11	SAIC12	WELL	W	Chloride	300	2136		J	16	mg/l
MW-11	SAIC12	WELL	W	Silicon	6010	2136		J	20	ug/l
MW-11	SAIC12	WELL	W	Uranium-234	SM75	8972		J	37	pci/L
MW-11	SAIC12F	WELL	W	Chloride	300	2136		J	16	mg/l
MW-11	SAIC12F	WELL	W	Silicon	6010	2136		J	20	ug/l
MW-11	SAIC12F	WELL	W	Uranium-234	SM75	8972		J	37	pci/L
MW-11	SAIC12F	WELL	W	Uranium-238	SM75	8972		J	37	pci/L
MW-2	SAIC12	WELL	W	Uranium-235	SM75	8952		J	37	pci/L
MW-2	SAIC12F	WELL	W	Uranium-235	SM75	8952		J	37	pci/L
MW-5	SAIC12	WELL	W	Uranium-234	SM75	8942		J	37	pci/L
MW-5	SAIC12	WELL	W	Uranium-238	SM75	8942		J	37	pci/L
MW-5	SAIC12F	WELL	W	Uranium-234	SM75	8942		J	37	pci/L
MW-5	SAIC12F	WELL	W	Uranium-238	SM75	8942		J	37	pci/L
MW-6	SAIC12	WELL	W	Uranium-235	SM75	8952		J	37	pci/L
MW-8	SAIC12F	WELL	W	Uranium-238	SM75	8961		J	37	pci/L
MW-RS-1	SAIC12	WELL	W	Aluminum	6010	2118		J	20	ug/l
MW-RS-1	SAIC12	WELL	W	Silicon	6010	2118		J	20	ug/l
MW-RS-1	SAIC12F	WELL	W	Aluminum	6010	2118		J	20	ug/l
MW-RS-1	SAIC12F	WELL	W	Silicon	6010	2118		J	20	ug/l
MW-RS-2	SAIC12	WELL	W	Aluminum	6010	2118		J	20	ug/l
MW-RS-2	SAIC12	WELL	W	Silicon	6010	2118		J	20	ug/l
MW-RS-2	SAIC12	WELL	W	Uranium-238	SM75	8965		J	37	pci/L
MW-RS-2	SAIC12F	WELL	W	Silicon	6010	2118		J	20	ug/l
MW-RS-2	SAIC12F	WELL	W	Uranium-234	SM75	8965		J	37	pci/L
MW-RS-2	SAIC12F	WELL	W	Uranium-235	SM75	8965		J	37	pci/L
MW-RS-2	SAIC12F	WELL	W	Uranium-238	SM75	8965		J	37	pci/L
MW-RS-3	SAIC12	WELL	W	Uranium-235	SM75	8939		J	37	pci/L
MW-RS-3	SAIC12F	WELL	W	Uranium-235	SM75	8939		J	37	pci/L
MW-RS-4	SAIC12	WELL	W	Uranium-234	SM75	8937		J	37	pci/L
MW-RS-4	SAIC12	WELL	W	Uranium-238	SM75	8937		J	37	pci/L
MW-RS-4	SAIC12F	WELL	W	Uranium-234	SM75	2052		J	37	pci/L
MW-RS-4	SAIC12D	WELL	W	Uranium-234	SM75	8937		J	37	pci/L
MW-RS-4	SAIC12D	WELL	W	Uranium-238	SM75	8937		J	37	pci/L
MW-RS-4	SAIC12DF	WELL	W	Uranium-238	SM75	8941		J	37	pci/L
MW-RS-5	SAIC12	WELL	W	Uranium-234	SM75	8952		J	37	pci/L
MW-RS-5	SAIC12	WELL	W	Uranium-238	SM75	8952		J	37	pci/L
MW-RS-5	SAIC12F	WELL	W	Uranium-238	SM75	8952		J	37	pci/L
MW-RS-5	SAIC12D	WELL	W	Uranium-234	SM75	8952		J	37	pci/L
MW-RS-5	SAIC12D	WELL	W	Uranium-238	SM75	8952		J	37	pci/L
MW-RS-5	SAIC12DF	WELL	W	Uranium-234	SM75	8952		J	37	pci/L
MW-RS-5	SAIC12DF	WELL	W	Uranium-238	SM75	8952		J	37	pci/L
MW-RS-6	SAIC12	WELL	W	Uranium-238	SM75	8961		J	37	pci/L
MW-RS-8	SAIC12	WELL	W	Uranium-234	SM75	8942		J	37	pci/L
MW-RS-8	SAIC12F	WELL	W	Uranium-234	SM75	8942		J	37	pci/L
MW-RS-8	SAIC12F	WELL	W	Uranium-238	SM75	8942		J	37	pci/L
MW-RS-8	SAIC12D	WELL	W	Uranium-234	SM75	8942		J	37	pci/L
MW-RS-8	SAIC12D	WELL	W	Uranium-238	SM75	8942		J	37	pci/L
MW-RS-8	SAIC12DF	WELL	W	Uranium-234	SM75	8942		J	37	pci/L
MW-RS-8	SAIC12DF	WELL	W	Uranium-238	SM75	8942		J	37	pci/L
SOURCE-DI	SAIFB54F	FBLK	W	Uranium-234	SM75	8939		J	37	pci/L
SOURCE-DI	SAIFB54F	FBLK	W	Uranium-235	SM75	8939		J	37	pci/L

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