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U.S. DEPARTMENT OF ENERGY

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under Contract DE-AC05-76RL01830

Analytical Data Report of Sediment Samples Collected From BP-5 Operable Unit E Well (C5857)

Michael J. Lindberg
Christopher F. Brown

August 2009

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Pacific Northwest
NATIONAL LABORATORY

SDM Disclaimer

The data herein cannot be reconciled by Sample Data Management (SDM) against the analytical requests on the submitted Chains of Custody, due to the nature of Environmental Sciences Laboratory (ESL) special studies. ESL scientists choose and analyze samples at their own discretion which may or may not reflect the planned analysis generated by SDM.

ESL 080016

08/14
2009

08/10/09 16:38

To: Dale Dyekman

From: Michael J. Lindberg

Environmental Sciences Laboratory
Energy and Environment Directorate, Pacific Northwest National Laboratory

Subject: Analytical Data Report for Sediment Samples Collected From Borehole C5857 (BP 5 E Well), Sample Delivery Group ESL080016, SAF Number F08-075

This letter contains the following information for sample delivery group ESL080016

- Cover Sheet
- Narrative
- Analytical Results
- Quality Control
- Geologic Logs
- Geologic Photos
- Chain of Custodies

Introduction

Between March 17, 2008 and April 17, 2008 sediment samples were received from Borehole C5857 (BP 5 E Well) for geochemical studies.

Analytical Results/Methodology

The analyses for this project were performed at the 325 building located in the 300 Area of the Hanford Site. The analyses were performed according to Pacific Northwest National Laboratory (PNNL) approved procedures and/or nationally recognized test procedures. The data sets include the sample identification numbers, analytical results, estimated quantification limits (EQL), and quality control data.

Quality Control

The preparatory and analytical quality control requirements, calibration requirements, acceptance criteria, and failure actions are defined in the on-line QA plan "Conducting Analytical Work in Support of Regulatory Programs" (CAW). This QA plan implements the Hanford Analytical Services Quality Assurance Requirements Documents (HASQARD) for PNNL.

Definitions

Dup	Duplicate
RPD	Relative Percent Difference
NR	No Recovery (percent recovery less than zero)
ND	Non-Detectable
%REC	Percent Recovery

Sample Receipt

Samples were received with a chain of custody (COC) and were analyzed according to the sample identification numbers supplied by the client. All Samples were refrigerated upon receipt until prepared for analysis.

All samples were received with custody seals intact unless noted in the Case Narrative.

Holding Times

Holding time is defined as the time from sample preparation to the time of analyses. The prescribed holding times were met for all analytes unless noted in the Case Narrative.

Analytical Results

All reported analytical results meet the requirements of the CAW or client specified SOW unless noted in the case narrative.

Case Narrative Report

Hold Time:

Due to the requirements of the statement of work and sampling events in the field, the 28 day and the 48 hr requirements could not be met. The statement of work requires samples to be selected at the completion of the borehole. All applicable hold times were started from the time of preparation and not the time of sampling.

Preparation Blank (PB):

QC Sample 8F19015-BLK1 failed criteria for Barium in ICP-OES Vadose-WE.
MDL = 0.00879 ug/g
MRL = 0.00879 ug/g
Result = 0.0174 ug/g
Criterion = 1 x MRL
The analyte was detected in samples and QC Blank. The concentration of the QC blank was greater than 5 % of the sample concentrations. Barium was not reported for this data set.

QC Sample 8F19015-BLK2 failed criteria for Barium in ICP-OES Vadose-WE.
MDL = 0.00879 ug/g
MRL = 0.00879 ug/g
Result = 0.0333 ug/g
Criterion = 1 x MRL
The analyte was detected in samples and QC Blank. The concentration of the QC blank was greater than 5 % of the sample concentrations. Barium was not reported for this data set.

Duplicate (DUP):

No discrepancies noted

Laboratory Control Samples (LCS):

The LCS failed criteria for silver. It was determined that silver is not stable in the nitric acid digestion as performed. Silver is not reported for acid extracted samples.

Post Spike (PS):

Post-Spike Recovery for Calcium (235%) was outside acceptance limits (75-125) in 8F19015-PS2 for ICP-OES Vadose-WE
The native sample concentration was greater than 5 times the spike concentration. There should be no impact to data as reported.

Post-Spike Recovery for Sodium (214%) was outside acceptance limits (75-125) in 8F19015-PS2 for ICP-OES Vadose-WE
The native sample concentration was greater than 5 times the spike concentration. There should be no impact to data as reported.

Post-Spike Recovery for Calcium (415%) was outside acceptance limits (75-125) in 8G22019-PS1 for ICP-OES Vadose-AE

Case Narrative Report

Post Spike (PS):

The native sample concentration was greater than 5 times the spike concentration. There should be no impact to data as reported.

Post-Spike Recovery for Iron (136%) was outside acceptance limits (75-125) in 8G22019-PS1 for ICP-OES Vadose-AE
The native sample concentration was greater than 5 times the spike concentration. There should be no impact to data as reported.

Post-Spike Recovery for Aluminum (169%) was outside acceptance limits (75-125) in 8G22019-PS2 for ICP-OES Vadose-AE
The native sample concentration was greater than 5 times the spike concentration. There should be no impact to data as reported.

Post-Spike Recovery for Calcium (251%) was outside acceptance limits (75-125) in 8G22019-PS2 for ICP-OES Vadose-AE
The native sample concentration was greater than 5 times the spike concentration. There should be no impact to data as reported.

Post-Spike Recovery for Iron (250%) was outside acceptance limits (75-125) in 8G22019-PS2 for ICP-OES Vadose-AE
The native sample concentration was greater than 5 times the spike concentration. There should be no impact to data as reported.

Post-Spike Recovery for Magnesium (163%) was outside acceptance limits (75-125) in 8G22019-PS2 for ICP-OES Vadose-AE
The native sample concentration was greater than 5 times the spike concentration. There should be no impact to data as reported.

Matrix Spike (MS):

No discrepancies noted

Other QC Criteria:

No discrepancies noted

DISCLAIMER

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SAMPLES INCLUDED IN THIS REPORT

200 BP 5 OU, C5857 E-Well VZ

HEIS No.	Laboratory ID	Matrix	Date Collected	Date Received
B1TNC9-3	0803017-01	SOIL	3/13/08 10:30	3/17/08 14:45
B1TMT2	0803017-02	SOIL	3/13/08 10:38	3/17/08 14:45
B1TMT7	0803017-06	SOIL	3/13/08 13:35	3/17/08 14:45
B1TMV1	0803017-10	SOIL	3/14/08 08:20	3/17/08 14:45
B1TMV6	0803017-15	SOIL	3/14/08 10:20	3/17/08 14:45
B1TMV9	0803017-18	SOIL	3/14/08 11:05	3/17/08 14:45
B1TND0-3	0803017-22	SOIL	3/13/08 14:00	3/17/08 14:45
B1TMW2	0803017-24	SOIL	3/14/08 13:30	3/17/08 14:45
B1TND6-3	0803017-38	SOIL	3/19/08 11:40	3/24/08 15:30
B1TMW7	0803017-40	SOIL	3/19/08 11:30	3/24/08 15:30
B1TMX1	0803017-44	SOIL	3/20/08 09:00	3/24/08 15:30
B1TND9-3	0803017-50	SOIL	3/24/08 09:50	3/25/08 14:00
B1TMX5	0803017-52	SOIL	3/24/08 09:30	3/25/08 14:00
B1TMX8	0803017-61	SOIL	3/24/08 11:01	3/25/08 14:00
B1TNF5-3	0803017-68	SOIL	3/24/08 14:16	3/25/08 14:00
B1TMY1	0803017-70	SOIL	3/24/08 14:00	3/25/08 14:00
B1TMY2	0803017-71	SOIL	3/24/08 14:27	3/25/08 14:00
B1TMY6	0803017-75	SOIL	3/25/08 08:27	3/31/08 14:00
B1TMY9	0803017-82	SOIL	3/25/08 09:55	3/31/08 14:00
B1TNH1-3	0803017-89	SOIL	3/25/08 13:17	3/25/08 12:45
B1TN03	0803017-94	SOIL	3/25/08 13:26	3/31/08 14:00
B1TNH5-3	0803017-AA	SOIL	3/26/08 10:00	3/25/08 12:45
B1TN08	0803017-AF	SOIL	3/26/08 10:15	3/31/08 12:45
B1TNH9-3	0803017-AM	SOIL	3/27/08 11:30	3/25/08 12:45
B1TN11	0803017-AO	SOIL	3/27/08 10:50	3/31/08 12:45
B1TN15	0803017-AS	SOIL	3/27/08 14:30	3/31/08 12:45
B1TNJ3-3	0803017-BB	SOIL	4/1/08 08:20	4/3/08 13:30
B1TN37	0803017-BC	SOIL	4/1/08 08:55	4/3/08 13:30
B1TN22	0803017-BH	SOIL	4/2/08 08:30	4/3/08 13:30
B1TN27	0803017-BN	SOIL	4/2/08 11:12	4/3/08 13:30
B1TN31	0803017-BY	SOIL	4/3/08 09:11	4/9/08 13:50
B1TNK3-3	0803017-CE	SOIL	4/3/08 13:47	4/9/08 13:50
B1TN34	0803017-CG	SOIL	4/3/08 13:06	4/9/08 13:50
B1TNC9-3B	0803017-CL	SOIL	3/13/08 10:30	3/17/08 14:45
B1TNC9-3C	0803017-CM	SOIL	3/13/08 10:30	3/17/08 14:45
B1TND0-3B	0803017-CN	SOIL	3/13/08 14:00	3/17/08 14:45
B1TND0-3C	0803017-CO	SOIL	3/13/08 14:00	3/17/08 14:45
B1TND6-3B	0803017-CP	SOIL	3/19/08 11:40	3/24/08 15:30
B1TND6-3C	0803017-CQ	SOIL	3/19/08 11:40	3/24/08 15:30
B1TND9-3B	0803017-CR	SOIL	3/24/08 09:50	3/25/08 14:00
B1TND9-3C	0803017-CS	SOIL	3/24/08 09:50	3/25/08 14:00
B1TNF5-3B	0803017-CT	SOIL	3/24/08 14:16	3/25/08 14:00
B1TNF5-3C	0803017-CU	SOIL	3/24/08 14:16	3/25/08 14:00
B1TNH1-3B	0803017-CV	SOIL	3/25/08 13:17	3/25/08 12:45

SAMPLES INCLUDED IN THIS REPORT

200 BP 5 OU, C5857 E-Well VZ

HEIS No.	Laboratory ID	Matrix	Date Collected	Date Received
B1TNH1-3C	0803017-CW	SOIL	3/25/08 13:17	3/25/08 12:45
B1TNH5-3B	0803017-CX	SOIL	3/26/08 10:00	3/25/08 12:45
B1TNH5-3C	0803017-CY	SOIL	3/26/08 10:00	3/25/08 12:45
B1TNH9-3B	0803017-CZ	SOIL	3/27/08 11:30	3/25/08 12:45
B1TNH9-3C	0803017-DA	SOIL	3/27/08 11:30	3/25/08 12:45
B1TNJ3-3C	0803017-DB	SOIL	4/1/08 08:20	4/3/08 13:30
B1TNK3-3B	0803017-DC	SOIL	4/3/08 13:47	4/9/08 13:50
B1TNK3-3C	0803017-DD	SOIL	4/3/08 13:47	4/9/08 13:50
B1TNJ3-3B	0803017-DE	SOIL	4/1/08 08:20	4/3/08 13:30
B1TNR9-2	0804006-01	SOIL	4/8/08 13:50	4/9/08 13:50
B1TNT7	0804006-05	SOIL	4/4/08 13:30	4/9/08 13:50
B1TNT8	0804006-06	SOIL	4/4/08 14:20	4/9/08 13:50
B1TNR8-3	0804006-07	SOIL	4/4/08 10:25	4/17/08 14:00
B1TNR8-3B	0804006-09	SOIL	4/4/08 10:25	4/17/08 14:00
B1TNR8-3C	0804006-10	SOIL	4/4/08 10:25	4/17/08 14:00
B1TNR9-2B	0804006-11	SOIL	4/8/08 13:50	4/9/08 13:50
B1TNR9-2C	0804006-12	SOIL	4/8/08 13:50	4/9/08 13:50

The following analyses were performed on the following samples included in this report:

Metals 1:1 DI Water Extract by ICPMS
Metals Acid Extract by ICPMS
AGG-TOC-001
Alkalinity, Titrimetic (pH 4.5)
Anions By Ion Chromatography
Carbon, Total, Combustion or Oxidation
Cation Exchange Capacity
Cyanide by Mircodistillation/Colorimetric
GEA No Preparation
Geological Description
Inorganic Carbon, Total, Combustion or Oxidation
Iodine-129 1:1 DI Water Extract by ICPMS
Mercury Acid Extract by ICPMS
Metals 1:1 Water Extract by ICPOES
Metals Acid Extract by ICPOES
Moisture Content
pH of Waters By Electrode
Specific Conductance
Tc_U Acid Extract by ICPMS
Tc_U 1:1 DI Water Extract by ICPMS
Total Alpha Total Beta 1:1 DI Water Extract By LSC
Total Alpha Total Beta Acid Extract By LSC

SAMPLES ANALYZED IN THIS REPORT

HEIS No.	Laboratory ID	Matrix	Date Collected	Date Received
B1TNC9-3	0803017-01	SOIL	3/13/08 10:30	3/17/08 14:45
B1TMT2	0803017-02	SOIL	3/13/08 10:38	3/17/08 14:45
B1TMT7	0803017-06	SOIL	3/13/08 13:35	3/17/08 14:45
B1TMV1	0803017-10	SOIL	3/14/08 08:20	3/17/08 14:45
B1TMV6	0803017-15	SOIL	3/14/08 10:20	3/17/08 14:45
B1TMV9	0803017-18	SOIL	3/14/08 11:05	3/17/08 14:45
B1TND0-3	0803017-22	SOIL	3/13/08 14:00	3/17/08 14:45
B1TMW2	0803017-24	SOIL	3/14/08 13:30	3/17/08 14:45
B1TND6-3	0803017-38	SOIL	3/19/08 11:40	3/24/08 15:30
B1TMW7	0803017-40	SOIL	3/19/08 11:30	3/24/08 15:30
B1TMX1	0803017-44	SOIL	3/20/08 09:00	3/24/08 15:30
B1TND9-3	0803017-50	SOIL	3/24/08 09:50	3/25/08 14:00
B1TMX5	0803017-52	SOIL	3/24/08 09:30	3/25/08 14:00
B1TMX8	0803017-61	SOIL	3/24/08 11:01	3/25/08 14:00
B1TNF5-3	0803017-68	SOIL	3/24/08 14:16	3/25/08 14:00
B1TMY1	0803017-70	SOIL	3/24/08 14:00	3/25/08 14:00
B1TMY2	0803017-71	SOIL	3/24/08 14:27	3/25/08 14:00
B1TMY6	0803017-75	SOIL	3/25/08 08:27	3/31/08 14:00
B1TMY9	0803017-82	SOIL	3/25/08 09:55	3/31/08 14:00
B1TNH1-3	0803017-89	SOIL	3/25/08 13:17	3/25/08 12:45
B1TN03	0803017-94	SOIL	3/25/08 13:26	3/31/08 14:00
B1TNH5-3	0803017-AA	SOIL	3/26/08 10:00	3/25/08 12:45
B1TN08	0803017-AF	SOIL	3/26/08 10:15	3/31/08 12:45
B1TNH9-3	0803017-AM	SOIL	3/27/08 11:30	3/25/08 12:45
B1TN11	0803017-AO	SOIL	3/27/08 10:50	3/31/08 12:45
B1TN15	0803017-AS	SOIL	3/27/08 14:30	3/31/08 12:45
B1TNJ3-3	0803017-BB	SOIL	4/1/08 08:20	4/3/08 13:30
B1TN37	0803017-BC	SOIL	4/1/08 08:55	4/3/08 13:30
B1TN22	0803017-BH	SOIL	4/2/08 08:30	4/3/08 13:30
B1TN27	0803017-BN	SOIL	4/2/08 11:12	4/3/08 13:30
B1TN31	0803017-BY	SOIL	4/3/08 09:11	4/9/08 13:50
B1TNK3-3	0803017-CE	SOIL	4/3/08 13:47	4/9/08 13:50
B1TN34	0803017-CG	SOIL	4/3/08 13:06	4/9/08 13:50
B1TNC9-3B	0803017-CL	SOIL	3/13/08 10:30	3/17/08 14:45
B1TNC9-3C	0803017-CM	SOIL	3/13/08 10:30	3/17/08 14:45
B1TND0-3B	0803017-CN	SOIL	3/13/08 14:00	3/17/08 14:45
B1TND0-3C	0803017-CO	SOIL	3/13/08 14:00	3/17/08 14:45
B1TND6-3B	0803017-CP	SOIL	3/19/08 11:40	3/24/08 15:30
B1TND6-3C	0803017-CQ	SOIL	3/19/08 11:40	3/24/08 15:30
B1TND9-3B	0803017-CR	SOIL	3/24/08 09:50	3/25/08 14:00
B1TND9-3C	0803017-CS	SOIL	3/24/08 09:50	3/25/08 14:00
B1TNF5-3B	0803017-CT	SOIL	3/24/08 14:16	3/25/08 14:00
B1TNF5-3C	0803017-CU	SOIL	3/24/08 14:16	3/25/08 14:00
B1TNH1-3B	0803017-CV	SOIL	3/25/08 13:17	3/25/08 12:45
B1TNH1-3C	0803017-CW	SOIL	3/25/08 13:17	3/25/08 12:45
B1TNH5-3B	0803017-CX	SOIL	3/26/08 10:00	3/25/08 12:45

SAMPLES ANALYZED IN THIS REPORT

HEIS No.	Laboratory ID	Matrix	Date Collected	Date Received
B1TNH5-3C	0803017-CY	SOIL	3/26/08 10:00	3/25/08 12:45
B1TNH9-3B	0803017-CZ	SOIL	3/27/08 11:30	3/25/08 12:45
B1TNH9-3C	0803017-DA	SOIL	3/27/08 11:30	3/25/08 12:45
B1TNJ3-3C	0803017-DB	SOIL	4/1/08 08:20	4/3/08 13:30
B1TNK3-3B	0803017-DC	SOIL	4/3/08 13:47	4/9/08 13:50
B1TNK3-3C	0803017-DD	SOIL	4/3/08 13:47	4/9/08 13:50
B1TNJ3-3B	0803017-DE	SOIL	4/1/08 08:20	4/3/08 13:30
B1TNR9-2	0804006-01	SOIL	4/8/08 13:50	4/9/08 13:50
B1TNT7	0804006-05	SOIL	4/4/08 13:30	4/9/08 13:50
B1TNT8	0804006-06	SOIL	4/4/08 14:20	4/9/08 13:50
B1TNR8-3	0804006-07	SOIL	4/4/08 10:25	4/17/08 14:00
B1TNR8-3B	0804006-09	SOIL	4/4/08 10:25	4/17/08 14:00
B1TNR8-3C	0804006-10	SOIL	4/4/08 10:25	4/17/08 14:00
B1TNR9-2B	0804006-11	SOIL	4/8/08 13:50	4/9/08 13:50
B1TNR9-2C	0804006-12	SOIL	4/8/08 13:50	4/9/08 13:50

Wet Chemistry

Alkalinity as CaCO3 (ug/g dry) by Standard Methods 2320B

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-02	B1TMT2	4.70E1	2.34E1	6/02/08	8E30001
0803017-06	B1TMT7	5.94E1	2.33E1	6/02/08	8E30001
0803017-10	B1TMV1	5.02E1	2.35E1	6/02/08	8E30001
0803017-15	B1TMV6	3.72E1	2.35E1	6/02/08	8E30001
0803017-18	B1TMV9	8.37E1	2.33E1	6/02/08	8E30001
0803017-24	B1TMW2	4.61E1	2.38E1	6/02/08	8E30001
0803017-40	B1TMW7	1.49E2	2.33E1	6/02/08	8E30001
0803017-44	B1TMX1	6.47E1	2.35E1	6/02/08	8E30001
0803017-52	B1TMX5	6.77E1	2.35E1	6/02/08	8E30001
0803017-61	B1TMX8	4.64E1	2.35E1	6/02/08	8E30001
0803017-70	B1TMY1	4.39E1	2.34E1	6/02/08	8E30001
0803017-71	B1TMY2	3.65E1	2.35E1	6/02/08	8E30001
0803017-75	B1TMY6	3.54E1	2.33E1	6/02/08	8E30001
0803017-82	B1TMY9	2.99E1	2.37E1	6/02/08	8E30001
0803017-94	B1TN03	4.63E1	2.35E1	6/02/08	8E30001
0803017-AF	B1TN08	4.33E1	2.35E1	6/02/08	8E30001
0803017-AO	B1TN11	3.57E1	2.35E1	6/02/08	8E30001
0803017-AS	B1TN15	3.18E1	2.34E1	6/02/08	8E30001
0803017-BC	B1TN37	2.67E1	2.43E1	6/02/08	8E30001
0803017-BH	B1TN22	3.64E1	2.34E1	6/02/08	8E30001
0803017-BN	B1TN27	2.88E1	2.34E1	6/02/08	8E30001
0803017-BY	B1TN31	4.59E1	2.29E1	6/02/08	8E30001
0803017-CG	B1TN34	2.40E1	2.39E1	6/02/08	8E30001
0804006-05	B1TNT7	5.49E1	2.36E1	6/02/08	8E30001
0804006-06	B1TNT8	3.73E1	2.35E1	6/02/08	8E30001

Wet Chemistry

Specific Conductance (EC) (mS/cm) by EPA 120.1

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-02	B1TMT2	1.08E-1	1.00E-2	5/29/08	8E28010
0803017-06	B1TMT7	1.45E-1	1.00E-2	5/29/08	8E28010
0803017-10	B1TMV1	1.31E-1	1.00E-2	5/29/08	8E28010
0803017-15	B1TMV6	1.23E-1	1.00E-2	5/29/08	8E28010
0803017-18	B1TMV9	2.10E-1	1.00E-2	5/29/08	8E28010
0803017-24	B1TMW2	1.47E-1	1.00E-2	5/29/08	8E28010
0803017-40	B1TMW7	3.89E-1	1.00E-2	5/29/08	8E28010
0803017-44	B1TMX1	1.88E-1	1.00E-2	5/29/08	8E28010
0803017-52	B1TMX5	3.03E-1	1.00E-2	5/29/08	8E28010
0803017-61	B1TMX8	2.05E-1	1.00E-2	5/29/08	8E28010
0803017-70	B1TMY1	5.58E-1	1.00E-2	5/29/08	8E28010
0803017-71	B1TMY2	3.75E-1	1.00E-2	5/29/08	8E28010
0803017-75	B1TMY6	1.74E-1	1.00E-2	5/29/08	8E28010
0803017-82	B1TMY9	1.80E-1	1.00E-2	5/29/08	8E28010
0803017-94	B1TN03	8.64E-1	1.00E-2	5/29/08	8E28010
0803017-AF	B1TN08	3.51E-1	1.00E-2	5/29/08	8E28010
0803017-AO	B1TN11	4.23E-1	1.00E-2	5/29/08	8E28010
0803017-AS	B1TN15	4.86E-1	1.00E-2	5/29/08	8E28010
0803017-BC	B1TN37	6.67E-1	1.00E-2	5/29/08	8E28010
0803017-BH	B1TN22	5.40E-1	1.00E-2	5/29/08	8E28010
0803017-BN	B1TN27	5.17E-1	1.00E-2	5/29/08	8E28010
0803017-BY	B1TN31	4.79E-1	1.00E-2	5/29/08	8E28010
0803017-CG	B1TN34	6.39E-1	1.00E-2	5/29/08	8E28010
0804006-05	B1TNT7	7.28E-1	1.00E-2	5/29/08	8E28010
0804006-06	B1TNT8	2.44E-1	1.00E-2	5/29/08	8E28010

Wet Chemistry

Moisture Content (% by Weight) by AGG-WC-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-02	B1TMT2	3.74E0	N/A	5/09/08	8E01008
0803017-06	B1TMT7	4.72E0	N/A	5/09/08	8E01008
0803017-10	B1TMV1	4.08E0	N/A	5/09/08	8E01008
0803017-15	B1TMV6	4.10E0	N/A	5/09/08	8E01008
0803017-18	B1TMV9	3.46E0	N/A	5/09/08	8E01008
0803017-24	B1TMW2	4.05E0	N/A	5/09/08	8E01008
0803017-40	B1TMW7	4.87E0	N/A	5/09/08	8E01008
0803017-44	B1TMX1	3.39E0	N/A	5/09/08	8E01008
0803017-52	B1TMX5	6.53E0	N/A	5/09/08	8E01008
0803017-61	B1TMX8	4.57E0	N/A	5/09/08	8E01008
0803017-70	B1TMY1	1.30E1	N/A	5/09/08	8E01008
0803017-71	B1TMY2	1.37E1	N/A	5/09/08	8E01008
0803017-75	B1TMY6	3.71E0	N/A	5/09/08	8E01008
0803017-82	B1TMY9	3.71E0	N/A	5/09/08	8E01008
0803017-94	B1TN03	4.58E0	N/A	5/09/08	8E01008
0803017-AF	B1TN08	3.95E0	N/A	5/09/08	8E01008
0803017-AO	B1TN11	2.85E0	N/A	5/09/08	8E01008
0803017-AS	B1TN15	3.68E0	N/A	5/09/08	8E01008
0803017-BC	B1TN37	5.14E0	N/A	5/09/08	8E01008
0803017-BH	B1TN22	4.79E0	N/A	5/09/08	8E01008
0803017-BN	B1TN27	3.78E0	N/A	5/09/08	8E01008
0803017-BY	B1TN31	2.94E0	N/A	5/09/08	8E01008
0803017-CG	B1TN34	3.97E0	N/A	5/09/08	8E01008
0804006-05	B1TNT7	7.31E0	N/A	5/09/08	8E01008
0804006-06	B1TNT8	9.86E0	N/A	5/09/08	8E01008
0804006-07	B1TNR8-3	3.43E0	N/A	9/30/08	8J06005

Wet Chemistry

pH (pH Units) by AGG-pH-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-02	B1TMT2	8.75E0	N/A	5/29/08	8E28009
0803017-06	B1TMT7	9.20E0	N/A	5/29/08	8E28009
0803017-10	B1TMV1	8.87E0	N/A	5/29/08	8E28009
0803017-15	B1TMV6	8.32E0	N/A	5/29/08	8E28009
0803017-18	B1TMV9	9.60E0	N/A	5/29/08	8E28009
0803017-24	B1TMW2	8.80E0	N/A	5/29/08	8E28009
0803017-40	B1TMW7	9.82E0	N/A	5/29/08	8E28009
0803017-44	B1TMX1	9.40E0	N/A	5/29/08	8E28009
0803017-52	B1TMX5	9.23E0	N/A	5/29/08	8E28009
0803017-61	B1TMX8	8.57E0	N/A	5/29/08	8E28009
0803017-70	B1TMY1	7.89E0	N/A	5/29/08	8E28009
0803017-71	B1TMY2	7.81E0	N/A	5/29/08	8E28009
0803017-75	B1TMY6	7.95E0	N/A	5/29/08	8E28009
0803017-82	B1TMY9	7.93E0	N/A	5/29/08	8E28009
0803017-94	B1TN03	7.75E0	N/A	5/29/08	8E28009
0803017-AF	B1TN08	7.81E0	N/A	5/29/08	8E28009
0803017-AO	B1TN11	7.85E0	N/A	5/29/08	8E28009
0803017-AS	B1TN15	7.41E0	N/A	5/29/08	8E28009
0803017-BC	B1TN37	7.48E0	N/A	5/29/08	8E28009
0803017-BH	B1TN22	7.75E0	N/A	5/29/08	8E28009
0803017-BN	B1TN27	7.47E0	N/A	5/29/08	8E28009
0803017-BY	B1TN31	7.71E0	N/A	5/29/08	8E28009
0803017-CG	B1TN34	7.44E0	N/A	5/29/08	8E28009
0804006-05	B1TNT7	7.75E0	N/A	5/29/08	8E28009
0804006-06	B1TNT8	7.87E0	N/A	5/29/08	8E28009

Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**			
16984-48-8	Fluoride	4.26E-1	ug/g dry	1.99E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	<4.99E-1	ug/g dry	4.99E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.97E-1	ug/g dry	9.97E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	3.53E0	ug/g dry	9.97E-1	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	3.60E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**			
16984-48-8	Fluoride	3.31E-1	ug/g dry	1.98E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	<4.95E-1	ug/g dry	4.95E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.90E-1	ug/g dry	9.90E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	5.73E0	ug/g dry	9.90E-1	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	5.85E0	ug/g dry	1.48E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.48E0	ug/g dry	1.48E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**			
16984-48-8	Fluoride	2.97E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	<5.00E-1	ug/g dry	5.00E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	3.86E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	8.98E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**			
16984-48-8	Fluoride	2.51E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	<5.00E-1	ug/g dry	5.00E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	7.39E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	1.32E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**			
16984-48-8	Fluoride	3.69E-1	ug/g dry	1.98E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	<4.96E-1	ug/g dry	4.96E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.92E-1	ug/g dry	9.92E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	6.45E0	ug/g dry	9.92E-1	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	9.51E0	ug/g dry	1.49E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.49E0	ug/g dry	1.49E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**			
16984-48-8	Fluoride	2.85E-1	ug/g dry	2.02E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	8.13E-1	ug/g dry	5.06E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.01E0	ug/g dry	1.01E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	7.36E0	ug/g dry	1.01E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	1.74E1	ug/g dry	1.52E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.52E0	ug/g dry	1.52E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			
16984-48-8	Fluoride	6.07E-1	ug/g dry	1.99E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	1.62E0	ug/g dry	4.96E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.93E-1	ug/g dry	9.93E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	1.66E1	ug/g dry	9.93E-1	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	1.80E1	ug/g dry	1.49E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.49E0	ug/g dry	1.49E0	5/31/08	8E28008	AGG-IC-001

Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**			
16984-48-8	Fluoride	2.37E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	<5.00E-1	ug/g dry	5.00E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	6.50E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	2.24E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**			
16984-48-8	Fluoride	3.20E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	9.84E0	ug/g dry	5.01E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	3.03E1	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	4.20E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
16984-48-8	Fluoride	2.65E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	6.51E0	ug/g dry	5.00E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	1.14E1	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	3.05E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**			
16984-48-8	Fluoride	4.93E-1	ug/g dry	1.99E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	1.97E1	ug/g dry	4.98E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.96E-1	ug/g dry	9.96E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	7.52E1	ug/g dry	9.96E-1	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	1.49E2	ug/g dry	1.49E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.49E0	ug/g dry	1.49E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**			
16984-48-8	Fluoride	2.52E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	7.71E0	ug/g dry	5.00E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	5.08E1	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	9.39E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**			
16984-48-8	Fluoride	<1.98E-1	ug/g dry	1.98E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	2.44E0	ug/g dry	4.95E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.90E-1	ug/g dry	9.90E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	1.64E1	ug/g dry	9.90E-1	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	3.05E1	ug/g dry	1.48E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.48E0	ug/g dry	1.48E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**			
16984-48-8	Fluoride	2.19E-1	ug/g dry	2.02E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	2.70E0	ug/g dry	5.05E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.01E0	ug/g dry	1.01E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	1.60E1	ug/g dry	1.01E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	3.39E1	ug/g dry	1.52E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.52E0	ug/g dry	1.52E0	5/31/08	8E28008	AGG-IC-001

Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**			
16984-48-8	Fluoride	2.98E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	6.22E0	ug/g dry	5.00E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.99E-1	ug/g dry	9.99E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	4.13E2	ug/g dry	9.99E0	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	3.62E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
16984-48-8	Fluoride	3.26E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	5.81E0	ug/g dry	4.99E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.99E-1	ug/g dry	9.99E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	9.04E2	ug/g dry	9.99E0	5/31/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	4.22E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**			
16984-48-8	Fluoride	5.17E-1	ug/g dry	2.00E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	7.01E0	ug/g dry	5.00E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.99E-1	ug/g dry	9.99E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	1.49E2	ug/g dry	9.99E0	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	3.46E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**			
16984-48-8	Fluoride	<1.99E-1	ug/g dry	1.99E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	4.13E0	ug/g dry	4.97E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.95E-1	ug/g dry	9.95E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	2.16E2	ug/g dry	9.95E0	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	2.21E1	ug/g dry	1.49E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.49E0	ug/g dry	1.49E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**			
16984-48-8	Fluoride	2.89E-1	ug/g dry	2.06E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	5.65E0	ug/g dry	5.16E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.03E0	ug/g dry	1.03E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	2.88E2	ug/g dry	1.03E1	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	6.62E1	ug/g dry	1.55E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.55E0	ug/g dry	1.55E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**			
16984-48-8	Fluoride	8.17E-1	ug/g dry	1.99E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	5.27E0	ug/g dry	4.98E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.97E-1	ug/g dry	9.97E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	1.88E2	ug/g dry	9.97E0	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	6.24E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**			
16984-48-8	Fluoride	3.68E-1	ug/g dry	1.99E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	4.22E0	ug/g dry	4.99E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<9.97E-1	ug/g dry	9.97E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	2.15E2	ug/g dry	9.97E0	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	4.08E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001

Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**			
16984-48-8	Fluoride	4.98E-1	ug/g dry	1.95E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	6.06E0	ug/g dry	4.87E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	9.86E-1	ug/g dry	9.75E-1	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	1.52E2	ug/g dry	9.75E0	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	4.48E1	ug/g dry	1.46E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.46E0	ug/g dry	1.46E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**			
16984-48-8	Fluoride	3.48E-1	ug/g dry	2.04E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	8.42E0	ug/g dry	5.09E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.02E0	ug/g dry	1.02E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	2.78E2	ug/g dry	1.02E1	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	5.40E1	ug/g dry	1.53E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.53E0	ug/g dry	1.53E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**			
16984-48-8	Fluoride	4.86E-1	ug/g dry	2.01E-1	5/31/08	8E28008	AGG-IC-001
16887-00-6	Chloride	1.12E1	ug/g dry	5.02E-1	5/31/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	2.54E0	ug/g dry	1.00E0	5/31/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	2.89E2	ug/g dry	1.00E1	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	5.26E1	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	5/31/08	8E28008	AGG-IC-001
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**			
16984-48-8	Fluoride	<2.00E0	ug/g dry	2.00E0	6/02/08	8E28008	AGG-IC-001
16887-00-6	Chloride	5.73E0	ug/g dry	5.01E0	6/02/08	8E28008	AGG-IC-001
14797-65-0	Nitrite	<1.00E1	ug/g dry	1.00E1	6/02/08	8E28008	AGG-IC-001
14797-55-8	Nitrate	4.13E1	ug/g dry	1.00E1	6/02/08	8E28008	AGG-IC-001
14808-79-8	Sulfate	2.90E1	ug/g dry	1.50E1	6/02/08	8E28008	AGG-IC-001
14265-44-2	Phosphate	<1.50E1	ug/g dry	1.50E1	6/02/08	8E28008	AGG-IC-001

Cyanide by Mircodistillation/Colorimetric

Cyanide (ug/g dry) by MICRODIST Cyanide Method

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-40	B1TMW7	<2.10E-1	2.10E-1	12/10/08	9H06005
0803017-70	B1TMY1	<2.26E-1	2.26E-1	12/10/08	9H06005
0803017-94	B1TN03	<2.09E-1	2.09E-1	12/10/08	9H06005
0803017-AF	B1TN08	<2.08E-1	2.08E-1	12/10/08	9H06005
0803017-BC	B1TN37	2.50E-1	2.10E-1	12/10/08	9H06005
0804006-05	B1TNT7	<2.15E-1	2.15E-1	12/10/08	9H06005

Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**	**Lab ID:**		**0803017-02**			
7429-90-5	Aluminum	2.10E-1	ug/g dry	8.56E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.46E0	ug/g dry	3.86E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.32E-2	ug/g dry	3.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.77E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.98E0	ug/g dry	2.32E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.24E0	ug/g dry	8.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.31E-2	ug/g dry	9.31E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.62E1	ug/g dry	6.67E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMT7**	**Lab ID:**		**0803017-06**			
7429-90-5	Aluminum	3.21E-1	ug/g dry	8.49E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.52E0	ug/g dry	3.83E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.30E-2	ug/g dry	3.30E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	3.35E-1	ug/g dry	1.41E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.59E0	ug/g dry	2.30E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	5.73E-1	ug/g dry	8.26E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.70E-2	ug/g dry	1.70E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.24E-2	ug/g dry	9.24E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.47E1	ug/g dry	6.62E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMV1**	**Lab ID:**		**0803017-10**			
7429-90-5	Aluminum	2.77E-1	ug/g dry	8.58E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	2.47E0	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	2.74E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.93E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	8.30E-1	ug/g dry	8.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.34E-2	ug/g dry	9.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.96E1	ug/g dry	6.69E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMV6**	**Lab ID:**		**0803017-15**			
7429-90-5	Aluminum	1.34E-1	ug/g dry	8.58E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.95E0	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.80E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.11E0	ug/g dry	8.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.33E-2	ug/g dry	9.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	9.93E0	ug/g dry	6.69E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMV9**	**Lab ID:**		**0803017-18**			
7429-90-5	Aluminum	4.25E-1	ug/g dry	8.51E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.27E-1	ug/g dry	3.84E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.30E-2	ug/g dry	3.30E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	5.13E-1	ug/g dry	1.41E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	<2.31E0	ug/g dry	2.31E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.00E-1	ug/g dry	8.28E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.70E-2	ug/g dry	1.70E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.26E-2	ug/g dry	9.26E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**			
7440-23-5	Sodium	3.95E1	ug/g dry	6.64E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**			
7429-90-5	Aluminum	1.55E-1	ug/g dry	8.68E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.65E0	ug/g dry	3.91E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.37E-2	ug/g dry	3.37E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.45E-1	ug/g dry	1.44E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.33E0	ug/g dry	2.35E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.20E0	ug/g dry	8.43E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.73E-2	ug/g dry	1.73E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.44E-2	ug/g dry	9.44E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.99E1	ug/g dry	6.77E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			
7429-90-5	Aluminum	4.74E-1	ug/g dry	8.52E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.39E-1	ug/g dry	3.84E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.31E-2	ug/g dry	3.31E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	6.59E-1	ug/g dry	1.41E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	<2.31E0	ug/g dry	2.31E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.49E-1	ug/g dry	8.28E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.70E-2	ug/g dry	1.70E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.26E-2	ug/g dry	9.26E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	8.78E1	ug/g dry	6.64E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**			
7429-90-5	Aluminum	3.41E-1	ug/g dry	8.59E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.32E0	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	3.76E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.46E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.35E-1	ug/g dry	8.35E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.34E-2	ug/g dry	9.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	3.15E1	ug/g dry	6.70E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**			
7429-90-5	Aluminum	3.34E-1	ug/g dry	8.59E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.86E0	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	4.07E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.12E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	5.88E-1	ug/g dry	8.35E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.34E-2	ug/g dry	9.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	5.20E1	ug/g dry	6.70E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
7429-90-5	Aluminum	2.03E-1	ug/g dry	8.58E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.78E0	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.68E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.82E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.47E0	ug/g dry	8.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.33E-2	ug/g dry	9.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.79E1	ug/g dry	6.69E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**			
7429-90-5	Aluminum	<8.55E-2	ug/g dry	8.55E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.63E1	ug/g dry	3.85E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.32E-2	ug/g dry	3.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.07E1	ug/g dry	2.32E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.46E1	ug/g dry	8.31E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.44E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.29E-2	ug/g dry	9.29E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.97E1	ug/g dry	6.66E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**			
7429-90-5	Aluminum	1.09E-1	ug/g dry	8.59E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	2.86E1	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.09E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	8.51E0	ug/g dry	8.35E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.34E-2	ug/g dry	9.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.94E1	ug/g dry	6.70E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**			
7429-90-5	Aluminum	2.12E-1	ug/g dry	8.49E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.02E1	ug/g dry	3.83E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.30E-2	ug/g dry	3.30E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.41E-1	ug/g dry	1.41E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.04E0	ug/g dry	2.30E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.78E0	ug/g dry	8.25E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.70E-2	ug/g dry	1.70E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.23E-2	ug/g dry	9.23E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.07E1	ug/g dry	6.62E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**			
7429-90-5	Aluminum	3.16E-1	ug/g dry	8.67E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.09E1	ug/g dry	3.91E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.36E-2	ug/g dry	3.36E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.44E-1	ug/g dry	1.44E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.34E0	ug/g dry	2.35E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.08E0	ug/g dry	8.43E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.73E-2	ug/g dry	1.73E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.43E-2	ug/g dry	9.43E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.13E1	ug/g dry	6.76E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**			
7429-90-5	Aluminum	1.26E-1	ug/g dry	8.57E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	2.64E1	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**			
7440-09-7	Potassium	8.94E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	7.34E0	ug/g dry	8.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.22E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.32E-2	ug/g dry	9.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.17E2	ug/g dry	6.69E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
7429-90-5	Aluminum	2.69E-1	ug/g dry	8.57E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	2.45E1	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.06E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	7.15E0	ug/g dry	8.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.32E-2	ug/g dry	9.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.08E1	ug/g dry	6.68E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**			
7429-90-5	Aluminum	4.16E-1	ug/g dry	8.57E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.56E1	ug/g dry	3.87E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.33E-2	ug/g dry	3.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.95E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.69E0	ug/g dry	8.33E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.32E-2	ug/g dry	9.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	4.76E1	ug/g dry	6.69E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**			
7429-90-5	Aluminum	<8.53E-2	ug/g dry	8.53E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.20E1	ug/g dry	3.85E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.31E-2	ug/g dry	3.31E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.41E-1	ug/g dry	1.41E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.36E0	ug/g dry	2.32E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.22E1	ug/g dry	8.30E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.70E-2	ug/g dry	1.70E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.28E-2	ug/g dry	9.28E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.43E1	ug/g dry	6.65E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**			
7429-90-5	Aluminum	<8.85E-2	ug/g dry	8.85E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.58E1	ug/g dry	3.99E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.44E-2	ug/g dry	3.44E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.47E-1	ug/g dry	1.47E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.02E1	ug/g dry	2.40E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.80E1	ug/g dry	8.61E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	3.90E-2	ug/g dry	1.77E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.63E-2	ug/g dry	9.63E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.92E1	ug/g dry	6.90E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**			
7429-90-5	Aluminum	<8.55E-2	ug/g dry	8.55E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.71E1	ug/g dry	3.86E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**			
7440-47-3	Chromium	<3.32E-2	ug/g dry	3.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.06E1	ug/g dry	2.32E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.03E1	ug/g dry	8.31E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.30E-2	ug/g dry	9.30E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	3.18E1	ug/g dry	6.67E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**			
7429-90-5	Aluminum	<8.56E-2	ug/g dry	8.56E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.65E1	ug/g dry	3.86E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.32E-2	ug/g dry	3.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.03E0	ug/g dry	2.32E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.24E1	ug/g dry	8.32E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.04E-2	ug/g dry	1.71E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.30E-2	ug/g dry	9.30E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.77E1	ug/g dry	6.67E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**			
7429-90-5	Aluminum	9.31E-2	ug/g dry	8.36E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.82E1	ug/g dry	3.77E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.25E-2	ug/g dry	3.25E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.39E-1	ug/g dry	1.39E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.04E0	ug/g dry	2.27E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.12E1	ug/g dry	8.13E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	4.50E-2	ug/g dry	1.67E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.09E-2	ug/g dry	9.09E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.09E1	ug/g dry	6.52E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**			
7429-90-5	Aluminum	<8.73E-2	ug/g dry	8.73E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.31E1	ug/g dry	3.94E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.39E-2	ug/g dry	3.39E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.45E-1	ug/g dry	1.45E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.37E0	ug/g dry	2.37E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.68E1	ug/g dry	8.49E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	3.29E-2	ug/g dry	1.74E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.50E-2	ug/g dry	9.50E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.78E1	ug/g dry	6.81E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**			
7429-90-5	Aluminum	<8.61E-2	ug/g dry	8.61E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.43E1	ug/g dry	3.88E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.34E-2	ug/g dry	3.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.43E-1	ug/g dry	1.43E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.09E1	ug/g dry	2.34E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.03E1	ug/g dry	8.37E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.97E-1	ug/g dry	1.72E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.36E-2	ug/g dry	9.36E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.82E1	ug/g dry	6.71E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**			

Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**			
7429-90-5	Aluminum	1.32E-1	ug/g dry	8.59E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.41E1	ug/g dry	3.88E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-47-3	Chromium	<3.34E-2	ug/g dry	3.34E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.79E0	ug/g dry	2.33E0	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.09E0	ug/g dry	8.35E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.30E-2	ug/g dry	1.72E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.35E-2	ug/g dry	9.35E-2	6/20/08	8F19015	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.81E1	ug/g dry	6.70E-1	6/20/08	8F19015	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**	**Lab ID:**		**0803017-02**			
7429-90-5	Aluminum	4.59E3	ug/g dry	2.43E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<5.91E1	ug/g dry	5.91E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.51E1	ug/g dry	2.32E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.55E3	ug/g dry	9.04E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	5.08E0	ug/g dry	2.02E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.03E4	ug/g dry	6.18E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.67E2	ug/g dry	5.74E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.64E3	ug/g dry	1.91E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.18E2	ug/g dry	7.24E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	6.15E0	ug/g dry	4.98E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<1.92E1	ug/g dry	1.92E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<6.48E2	ug/g dry	6.48E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMT7**	**Lab ID:**		**0803017-06**			
7429-90-5	Aluminum	4.33E3	ug/g dry	2.88E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.00E1	ug/g dry	7.00E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.92E1	ug/g dry	2.75E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.17E3	ug/g dry	1.07E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	4.51E0	ug/g dry	2.40E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.13E4	ug/g dry	7.32E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.86E2	ug/g dry	6.80E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.53E3	ug/g dry	2.27E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.99E2	ug/g dry	8.58E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	6.85E0	ug/g dry	5.89E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.28E1	ug/g dry	2.28E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<7.68E2	ug/g dry	7.68E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMV1**	**Lab ID:**		**0803017-10**			
7429-90-5	Aluminum	4.71E3	ug/g dry	3.10E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.53E1	ug/g dry	7.53E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.70E1	ug/g dry	2.95E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.65E3	ug/g dry	1.15E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	4.91E0	ug/g dry	2.57E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.09E4	ug/g dry	7.87E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.37E2	ug/g dry	7.31E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.57E3	ug/g dry	2.44E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.17E2	ug/g dry	9.22E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<6.33E0	ug/g dry	6.33E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.45E1	ug/g dry	2.45E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.25E2	ug/g dry	8.25E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMV6**	**Lab ID:**		**0803017-15**			
7429-90-5	Aluminum	4.62E3	ug/g dry	3.14E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.62E1	ug/g dry	7.62E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.80E1	ug/g dry	2.99E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.55E3	ug/g dry	1.16E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	3.71E0	ug/g dry	2.61E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.04E4	ug/g dry	7.97E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.86E2	ug/g dry	7.39E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.40E3	ug/g dry	2.47E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.03E2	ug/g dry	9.33E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**			
7440-02-0	Nickel	<6.41E0	ug/g dry	6.41E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.48E1	ug/g dry	2.48E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.35E2	ug/g dry	8.35E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**			
7429-90-5	Aluminum	4.48E3	ug/g dry	3.09E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.51E1	ug/g dry	7.51E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.23E1	ug/g dry	2.95E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.05E3	ug/g dry	1.15E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	3.88E0	ug/g dry	2.57E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.01E4	ug/g dry	7.86E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.68E2	ug/g dry	7.29E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.39E3	ug/g dry	2.43E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.99E2	ug/g dry	9.20E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<6.32E0	ug/g dry	6.32E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.44E1	ug/g dry	2.44E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.24E2	ug/g dry	8.24E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**			
7429-90-5	Aluminum	5.11E3	ug/g dry	3.13E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.60E1	ug/g dry	7.60E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.80E1	ug/g dry	2.98E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.38E3	ug/g dry	1.16E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	4.76E0	ug/g dry	2.60E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.08E4	ug/g dry	7.95E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.38E2	ug/g dry	7.38E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.63E3	ug/g dry	2.46E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.02E2	ug/g dry	9.31E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<6.39E0	ug/g dry	6.39E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.47E1	ug/g dry	2.47E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.33E2	ug/g dry	8.33E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			
7429-90-5	Aluminum	5.30E3	ug/g dry	3.14E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.62E1	ug/g dry	7.62E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.53E1	ug/g dry	2.99E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.33E3	ug/g dry	1.17E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	5.34E0	ug/g dry	2.61E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.15E4	ug/g dry	7.97E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.09E3	ug/g dry	7.40E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.81E3	ug/g dry	2.47E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.34E2	ug/g dry	9.34E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<6.42E0	ug/g dry	6.42E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.48E1	ug/g dry	2.48E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.36E2	ug/g dry	8.36E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**			
7429-90-5	Aluminum	4.96E3	ug/g dry	3.09E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.50E1	ug/g dry	7.50E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.40E1	ug/g dry	2.94E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.32E3	ug/g dry	1.15E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	7.20E0	ug/g dry	2.57E0	7/23/08	8G22019	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMX1**	**Lab ID:**		**0803017-44**			
7439-89-6	Iron	1.05E4	ug/g dry	7.84E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.43E2	ug/g dry	7.28E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.08E3	ug/g dry	2.43E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.23E2	ug/g dry	9.19E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	7.74E0	ug/g dry	6.31E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.44E1	ug/g dry	2.44E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.23E2	ug/g dry	8.23E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMX5**	**Lab ID:**		**0803017-52**			
7429-90-5	Aluminum	4.46E3	ug/g dry	3.17E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.71E1	ug/g dry	7.71E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.36E1	ug/g dry	3.02E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.92E3	ug/g dry	1.18E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	4.90E0	ug/g dry	2.64E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	9.67E3	ug/g dry	8.07E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.60E2	ug/g dry	7.49E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.60E3	ug/g dry	2.50E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.95E2	ug/g dry	9.45E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<6.49E0	ug/g dry	6.49E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.51E1	ug/g dry	2.51E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.46E2	ug/g dry	8.46E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMX8**	**Lab ID:**		**0803017-61**			
7429-90-5	Aluminum	4.93E3	ug/g dry	3.08E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<7.49E1	ug/g dry	7.49E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.49E1	ug/g dry	2.94E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.95E3	ug/g dry	1.15E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	6.36E0	ug/g dry	2.56E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	9.66E3	ug/g dry	7.83E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.09E3	ug/g dry	7.27E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.86E3	ug/g dry	2.42E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.34E2	ug/g dry	9.17E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	7.73E0	ug/g dry	6.30E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.44E1	ug/g dry	2.44E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.21E2	ug/g dry	8.21E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMY1**	**Lab ID:**		**0803017-70**			
7429-90-5	Aluminum	6.35E3	ug/g dry	3.29E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.00E1	ug/g dry	8.00E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.26E1	ug/g dry	3.14E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.17E3	ug/g dry	1.22E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	8.66E0	ug/g dry	2.74E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.09E4	ug/g dry	8.36E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.50E3	ug/g dry	7.76E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.25E3	ug/g dry	2.59E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.61E2	ug/g dry	9.80E-1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	8.80E0	ug/g dry	6.73E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.60E1	ug/g dry	2.60E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.77E2	ug/g dry	8.77E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMY2**	**Lab ID:**		**0803017-71**			
7429-90-5	Aluminum	6.18E3	ug/g dry	3.94E1	7/23/08	8G22019	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMY2**	**Lab ID:**		**0803017-71**			
7440-38-2	Arsenic	<9.57E1	ug/g dry	9.57E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	7.45E1	ug/g dry	3.75E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.59E3	ug/g dry	1.46E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	7.79E0	ug/g dry	3.27E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.27E4	ug/g dry	1.00E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.29E3	ug/g dry	9.29E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.55E3	ug/g dry	3.10E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.65E2	ug/g dry	1.17E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	8.46E0	ug/g dry	8.05E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<3.11E1	ug/g dry	3.11E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<1.05E3	ug/g dry	1.05E3	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMY6**	**Lab ID:**		**0803017-75**			
7429-90-5	Aluminum	4.80E3	ug/g dry	3.60E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.74E1	ug/g dry	8.74E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.25E1	ug/g dry	3.43E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.62E3	ug/g dry	1.34E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	7.18E0	ug/g dry	2.99E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.03E4	ug/g dry	9.14E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.43E2	ug/g dry	8.48E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.70E3	ug/g dry	2.83E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.99E2	ug/g dry	1.07E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	8.17E0	ug/g dry	7.35E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.84E1	ug/g dry	2.84E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.58E2	ug/g dry	9.58E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TMY9**	**Lab ID:**		**0803017-82**			
7429-90-5	Aluminum	5.06E3	ug/g dry	3.55E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.61E1	ug/g dry	8.61E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.02E1	ug/g dry	3.38E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.69E3	ug/g dry	1.32E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	8.23E0	ug/g dry	2.95E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.02E4	ug/g dry	9.01E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.46E2	ug/g dry	8.36E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.95E3	ug/g dry	2.79E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.19E2	ug/g dry	1.06E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	1.02E1	ug/g dry	7.25E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.80E1	ug/g dry	2.80E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.45E2	ug/g dry	9.45E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN03**	**Lab ID:**		**0803017-94**			
7429-90-5	Aluminum	5.02E3	ug/g dry	3.61E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.76E1	ug/g dry	8.76E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.68E1	ug/g dry	3.44E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.37E3	ug/g dry	1.34E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	6.55E0	ug/g dry	3.00E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.10E4	ug/g dry	9.16E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.00E3	ug/g dry	8.51E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.86E3	ug/g dry	2.84E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.24E2	ug/g dry	1.07E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.37E0	ug/g dry	7.37E0	7/23/08	8G22019	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**			
7439-92-1	Lead	<2.85E1	ug/g dry	2.85E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.61E2	ug/g dry	9.61E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
7429-90-5	Aluminum	4.80E3	ug/g dry	3.60E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.75E1	ug/g dry	8.75E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	6.41E1	ug/g dry	3.43E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.07E3	ug/g dry	1.34E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	3.91E0	ug/g dry	2.99E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.18E4	ug/g dry	9.15E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.64E2	ug/g dry	8.50E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.36E3	ug/g dry	2.83E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.19E2	ug/g dry	1.07E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.37E0	ug/g dry	7.37E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.85E1	ug/g dry	2.85E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.60E2	ug/g dry	9.60E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**			
7429-90-5	Aluminum	5.36E3	ug/g dry	3.54E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.61E1	ug/g dry	8.61E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.89E1	ug/g dry	3.38E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.72E3	ug/g dry	1.32E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	6.42E0	ug/g dry	2.94E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.17E4	ug/g dry	9.00E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.05E3	ug/g dry	8.36E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.75E3	ug/g dry	2.79E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.33E2	ug/g dry	1.05E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.25E0	ug/g dry	7.25E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.80E1	ug/g dry	2.80E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.44E2	ug/g dry	9.44E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**			
7429-90-5	Aluminum	4.72E3	ug/g dry	3.58E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.70E1	ug/g dry	8.70E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.46E1	ug/g dry	3.41E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.64E3	ug/g dry	1.33E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	3.74E0	ug/g dry	2.98E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.06E4	ug/g dry	9.10E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.76E2	ug/g dry	8.45E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.21E3	ug/g dry	2.82E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.92E2	ug/g dry	1.07E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.32E0	ug/g dry	7.32E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.83E1	ug/g dry	2.83E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.54E2	ug/g dry	9.54E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**			
7429-90-5	Aluminum	5.15E3	ug/g dry	3.62E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.78E1	ug/g dry	8.78E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.64E1	ug/g dry	3.44E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.22E3	ug/g dry	1.34E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	7.38E0	ug/g dry	3.00E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.06E4	ug/g dry	9.19E1	7/23/08	8G22019	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN37**	**Lab ID:**		**0803017-BC**			
7440-09-7	Potassium	9.92E2	ug/g dry	8.53E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.58E3	ug/g dry	2.84E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.07E2	ug/g dry	1.08E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	8.56E0	ug/g dry	7.39E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.86E1	ug/g dry	2.86E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.63E2	ug/g dry	9.63E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN22**	**Lab ID:**		**0803017-BH**			
7429-90-5	Aluminum	5.46E3	ug/g dry	3.63E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.82E1	ug/g dry	8.82E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	7.60E1	ug/g dry	3.46E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.59E3	ug/g dry	1.35E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	4.63E0	ug/g dry	3.02E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.23E4	ug/g dry	9.23E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.13E2	ug/g dry	8.57E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.05E3	ug/g dry	2.86E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.00E2	ug/g dry	1.08E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.43E0	ug/g dry	7.43E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.87E1	ug/g dry	2.87E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.68E2	ug/g dry	9.68E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN27**	**Lab ID:**		**0803017-BN**			
7429-90-5	Aluminum	4.59E3	ug/g dry	3.60E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.75E1	ug/g dry	8.75E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	7.08E1	ug/g dry	3.43E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.05E3	ug/g dry	1.34E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	2.23E1	ug/g dry	2.99E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.63E4	ug/g dry	9.15E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.42E2	ug/g dry	8.49E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.01E3	ug/g dry	2.83E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.70E2	ug/g dry	1.07E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.36E0	ug/g dry	7.36E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.85E1	ug/g dry	2.85E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.59E2	ug/g dry	9.59E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN31**	**Lab ID:**		**0803017-BY**			
7429-90-5	Aluminum	4.78E3	ug/g dry	3.56E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.65E1	ug/g dry	8.65E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	6.67E1	ug/g dry	3.39E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.51E3	ug/g dry	1.32E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	4.87E0	ug/g dry	2.96E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.07E4	ug/g dry	9.05E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	6.82E2	ug/g dry	8.40E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.98E3	ug/g dry	2.80E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.96E2	ug/g dry	1.06E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.28E0	ug/g dry	7.28E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.82E1	ug/g dry	2.82E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.49E2	ug/g dry	9.49E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TN34**	**Lab ID:**		**0803017-CG**			
7429-90-5	Aluminum	4.47E3	ug/g dry	3.37E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.18E1	ug/g dry	8.18E1	7/23/08	8G22019	PNNL-AGG-ICP-AES

Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN34**	**Lab ID:**		**0803017-CG**			
7440-39-3	Barium	7.87E1	ug/g dry	3.21E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.52E3	ug/g dry	1.25E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	6.71E0	ug/g dry	2.80E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.09E4	ug/g dry	8.56E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.37E2	ug/g dry	7.94E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.77E3	ug/g dry	2.65E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.15E2	ug/g dry	1.00E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<6.89E0	ug/g dry	6.89E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.66E1	ug/g dry	2.66E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<8.97E2	ug/g dry	8.97E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TNT7**	**Lab ID:**		**0804006-05**			
7429-90-5	Aluminum	3.64E3	ug/g dry	3.63E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<8.81E1	ug/g dry	8.81E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.07E1	ug/g dry	3.45E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.80E3	ug/g dry	1.35E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	3.56E0	ug/g dry	3.01E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	9.84E3	ug/g dry	9.21E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	5.63E2	ug/g dry	8.55E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.30E3	ug/g dry	2.85E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.56E2	ug/g dry	1.08E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.41E0	ug/g dry	7.41E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.87E1	ug/g dry	2.87E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.66E2	ug/g dry	9.66E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
HEIS No.	**B1TNT8**	**Lab ID:**		**0804006-06**			
7429-90-5	Aluminum	3.29E3	ug/g dry	3.73E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-38-2	Arsenic	<9.05E1	ug/g dry	9.05E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.18E1	ug/g dry	3.55E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.22E3	ug/g dry	1.38E2	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-47-3	Chromium	4.03E0	ug/g dry	3.10E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-89-6	Iron	8.03E3	ug/g dry	9.47E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.73E2	ug/g dry	8.79E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.24E3	ug/g dry	2.93E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.34E2	ug/g dry	1.11E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<7.62E0	ug/g dry	7.62E0	7/23/08	8G22019	PNNL-AGG-ICP-AES
7439-92-1	Lead	<2.95E1	ug/g dry	2.95E1	7/23/08	8G22019	PNNL-AGG-ICP-AES
7440-23-5	Sodium	<9.93E2	ug/g dry	9.93E2	7/23/08	8G22019	PNNL-AGG-ICP-AES

Radionuclides by ICP-MS/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**			
14133-76-7	Technetium-99	<2.93E-3	ug/g dry	2.93E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.23E-1	ug/g dry	2.13E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**			
14133-76-7	Technetium-99	<3.47E-3	ug/g dry	3.47E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.93E-1	ug/g dry	2.52E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**			
14133-76-7	Technetium-99	<3.73E-3	ug/g dry	3.73E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.73E-1	ug/g dry	2.71E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**			
14133-76-7	Technetium-99	<3.78E-3	ug/g dry	3.78E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.39E-1	ug/g dry	2.74E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**			
14133-76-7	Technetium-99	<3.72E-3	ug/g dry	3.72E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.95E-1	ug/g dry	2.70E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**			
14133-76-7	Technetium-99	<3.77E-3	ug/g dry	3.77E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.05E-1	ug/g dry	2.73E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			
14133-76-7	Technetium-99	<3.78E-3	ug/g dry	3.78E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	5.07E-1	ug/g dry	2.74E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**			
14133-76-7	Technetium-99	<3.72E-3	ug/g dry	3.72E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.96E-1	ug/g dry	2.70E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**			
14133-76-7	Technetium-99	<3.82E-3	ug/g dry	3.82E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	2.84E-1	ug/g dry	2.78E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
14133-76-7	Technetium-99	<3.71E-3	ug/g dry	3.71E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.49E-1	ug/g dry	2.70E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**			
14133-76-7	Technetium-99	<3.96E-3	ug/g dry	3.96E-3	7/15/08	8G15003	PNNL-AGG-415
	Uranium 238	3.78E-1	ug/g dry	2.88E-2	7/15/08	8G15003	PNNL-AGG-415
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**			
14133-76-7	Technetium-99	<4.74E-3	ug/g dry	4.74E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	3.58E-1	ug/g dry	3.44E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**			
14133-76-7	Technetium-99	<4.33E-3	ug/g dry	4.33E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	2.94E-1	ug/g dry	3.14E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**			
14133-76-7	Technetium-99	<4.27E-3	ug/g dry	4.27E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	2.89E-1	ug/g dry	3.10E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**			
14133-76-7	Technetium-99	<4.34E-3	ug/g dry	4.34E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	2.42E-1	ug/g dry	3.15E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
14133-76-7	Technetium-99	<4.34E-3	ug/g dry	4.34E-3	7/15/08	8G15004	PNNL-AGG-415

Radionuclides by ICP-MS/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
	Uranium 238	3.43E-1	ug/g dry	3.15E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**			
14133-76-7	Technetium-99	<4.27E-3	ug/g dry	4.27E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	3.20E-1	ug/g dry	3.10E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**			
14133-76-7	Technetium-99	<4.32E-3	ug/g dry	4.32E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	3.61E-1	ug/g dry	3.13E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**			
14133-76-7	Technetium-99	<4.36E-3	ug/g dry	4.36E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	3.11E-1	ug/g dry	3.16E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**			
14133-76-7	Technetium-99	<4.37E-3	ug/g dry	4.37E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	3.72E-1	ug/g dry	3.18E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**			
14133-76-7	Technetium-99	<4.34E-3	ug/g dry	4.34E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	4.24E-1	ug/g dry	3.15E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**			
14133-76-7	Technetium-99	<4.29E-3	ug/g dry	4.29E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	3.10E-1	ug/g dry	3.11E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**			
14133-76-7	Technetium-99	<4.06E-3	ug/g dry	4.06E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	2.96E-1	ug/g dry	2.95E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**			
14133-76-7	Technetium-99	<4.37E-3	ug/g dry	4.37E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	2.83E-1	ug/g dry	3.17E-2	7/15/08	8G15004	PNNL-AGG-415
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**			
14133-76-7	Technetium-99	<4.49E-3	ug/g dry	4.49E-3	7/15/08	8G15004	PNNL-AGG-415
	Uranium 238	4.19E-1	ug/g dry	3.26E-2	7/15/08	8G15004	PNNL-AGG-415

Radionuclides by ICP-MS/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**			
15046-84-1	Iodine-129	<3.76E-4	ug/g dry	3.76E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**			
15046-84-1	Iodine-129	<3.74E-4	ug/g dry	3.74E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**			
15046-84-1	Iodine-129	<3.78E-4	ug/g dry	3.78E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**			
15046-84-1	Iodine-129	<3.75E-4	ug/g dry	3.75E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**			
15046-84-1	Iodine-129	<3.82E-4	ug/g dry	3.82E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			
15046-84-1	Iodine-129	<3.75E-4	ug/g dry	3.75E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**			
15046-84-1	Iodine-129	<3.78E-4	ug/g dry	3.78E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**			
15046-84-1	Iodine-129	<3.78E-4	ug/g dry	3.78E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**			
15046-84-1	Iodine-129	<3.76E-4	ug/g dry	3.76E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**			
15046-84-1	Iodine-129	<3.78E-4	ug/g dry	3.78E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**			
15046-84-1	Iodine-129	<3.74E-4	ug/g dry	3.74E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**			
15046-84-1	Iodine-129	<3.81E-4	ug/g dry	3.81E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**			
15046-84-1	Iodine-129	<3.76E-4	ug/g dry	3.76E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**			
15046-84-1	Iodine-129	<3.90E-4	ug/g dry	3.90E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**			
15046-84-1	Iodine-129	<3.76E-4	ug/g dry	3.76E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**			
15046-84-1	Iodine-129	<3.76E-4	ug/g dry	3.76E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**			
15046-84-1	Iodine-129	<3.68E-4	ug/g dry	3.68E-4	7/28/08	8G28009	PNNL-AGG-415
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**			
15046-84-1	Iodine-129	<3.84E-4	ug/g dry	3.84E-4	7/28/08	8G28009	PNNL-AGG-415

Radionuclides by ICP-MS/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**			
15046-84-1	Iodine-129	<3.79E-4	ug/g dry	3.79E-4	7/28/08	8G28009	PNNL-AGG-415

Radionuclides by ICP-MS/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**			
14133-76-7	Technetium-99	<2.29E-5	ug/g dry	2.29E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	1.00E-3	ug/g dry	5.62E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**			
14133-76-7	Technetium-99	<2.28E-5	ug/g dry	2.28E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	1.39E-3	ug/g dry	5.58E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	1.58E-3	ug/g dry	5.64E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	1.13E-3	ug/g dry	5.63E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**			
14133-76-7	Technetium-99	<2.28E-5	ug/g dry	2.28E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	8.09E-3	ug/g dry	5.59E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**			
14133-76-7	Technetium-99	<2.33E-5	ug/g dry	2.33E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	6.71E-4	ug/g dry	5.70E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			
14133-76-7	Technetium-99	<2.28E-5	ug/g dry	2.28E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	8.73E-3	ug/g dry	5.59E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	9.06E-4	ug/g dry	5.64E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	8.98E-4	ug/g dry	5.64E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	9.10E-4	ug/g dry	5.63E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**			
14133-76-7	Technetium-99	3.66E-5	ug/g dry	2.29E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	1.37E-3	ug/g dry	5.61E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	8.23E-4	ug/g dry	5.64E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**			
14133-76-7	Technetium-99	<2.28E-5	ug/g dry	2.28E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.58E-4	ug/g dry	5.58E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**			
14133-76-7	Technetium-99	<2.32E-5	ug/g dry	2.32E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.69E-4	ug/g dry	5.69E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**			
14133-76-7	Technetium-99	4.11E-4	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	1.13E-3	ug/g dry	5.63E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
14133-76-7	Technetium-99	1.21E-4	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415

Radionuclides by ICP-MS/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
	Uranium 238	7.35E-4	ug/g dry	5.63E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**			
14133-76-7	Technetium-99	9.37E-5	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.63E-4	ug/g dry	5.63E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**			
14133-76-7	Technetium-99	2.01E-4	ug/g dry	2.29E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.61E-4	ug/g dry	5.61E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**			
14133-76-7	Technetium-99	2.76E-4	ug/g dry	2.37E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	8.04E-4	ug/g dry	5.82E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**			
14133-76-7	Technetium-99	2.93E-5	ug/g dry	2.29E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.62E-4	ug/g dry	5.62E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**			
14133-76-7	Technetium-99	1.20E-4	ug/g dry	2.29E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.62E-4	ug/g dry	5.62E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**			
14133-76-7	Technetium-99	4.64E-5	ug/g dry	2.24E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.49E-4	ug/g dry	5.49E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**			
14133-76-7	Technetium-99	1.63E-4	ug/g dry	2.34E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.74E-4	ug/g dry	5.74E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**			
14133-76-7	Technetium-99	<2.31E-5	ug/g dry	2.31E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	6.95E-4	ug/g dry	5.65E-4	6/09/08	8F04004	PNNL-AGG-415
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	6/09/08	8F04004	PNNL-AGG-415
	Uranium 238	<5.64E-4	ug/g dry	5.64E-4	6/09/08	8F04004	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**			
14119-06-3	Copper	<4.83E-3	ug/g dry	4.83E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	1.04E-2	ug/g dry	6.23E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.23E-4	ug/g dry	9.23E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.94E-4	ug/g dry	2.94E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.39E-4	ug/g dry	5.39E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.59E-4	ug/g dry	5.59E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**			
14119-06-3	Copper	<4.79E-3	ug/g dry	4.79E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	1.12E-2	ug/g dry	6.19E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.09E-2	ug/g dry	1.09E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.16E-4	ug/g dry	9.16E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.92E-4	ug/g dry	2.92E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.35E-4	ug/g dry	5.35E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.54E-4	ug/g dry	5.54E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	1.03E-2	ug/g dry	6.25E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.26E-4	ug/g dry	9.26E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	6/03/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	8.22E-3	ug/g dry	6.25E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.25E-4	ug/g dry	9.25E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**			
14119-06-3	Copper	<4.80E-3	ug/g dry	4.80E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	2.39E-2	ug/g dry	6.20E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.18E-4	ug/g dry	9.18E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.93E-4	ug/g dry	2.93E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.36E-4	ug/g dry	5.36E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.56E-4	ug/g dry	5.56E-4	6/03/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**			
14119-06-3	Copper	<4.89E-3	ug/g dry	4.89E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	1.12E-2	ug/g dry	6.32E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.12E-2	ug/g dry	1.12E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.35E-4	ug/g dry	9.35E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.98E-4	ug/g dry	2.98E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.46E-4	ug/g dry	5.46E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.66E-4	ug/g dry	5.66E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			

RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			
14119-06-3	Copper	<4.81E-3	ug/g dry	4.81E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	2.85E-2	ug/g dry	6.21E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.18E-4	ug/g dry	9.18E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.93E-4	ug/g dry	2.93E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.36E-4	ug/g dry	5.36E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.56E-4	ug/g dry	5.56E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	1.39E-2	ug/g dry	6.26E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.26E-4	ug/g dry	9.26E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.41E-4	ug/g dry	5.41E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.61E-4	ug/g dry	5.61E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	1.55E-2	ug/g dry	6.26E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.26E-4	ug/g dry	9.26E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.41E-4	ug/g dry	5.41E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.61E-4	ug/g dry	5.61E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	1.49E-2	ug/g dry	6.25E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.25E-4	ug/g dry	9.25E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	6/03/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**			
14119-06-3	Copper	<4.82E-3	ug/g dry	4.82E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.22E-3	ug/g dry	6.22E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.21E-4	ug/g dry	9.21E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.94E-4	ug/g dry	2.94E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.38E-4	ug/g dry	5.38E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.58E-4	ug/g dry	5.58E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.25E-3	ug/g dry	6.25E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.26E-4	ug/g dry	9.26E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**			

RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMY6**	**Lab ID:**		**0803017-75**			
14119-06-3	Copper	<4.79E-3	ug/g dry	4.79E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.19E-3	ug/g dry	6.19E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.09E-2	ug/g dry	1.09E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.16E-4	ug/g dry	9.16E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.92E-4	ug/g dry	2.92E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.34E-4	ug/g dry	5.34E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	1.07E-2	ug/g dry	5.54E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TMY9**	**Lab ID:**		**0803017-82**			
14119-06-3	Copper	<4.89E-3	ug/g dry	4.89E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.31E-3	ug/g dry	6.31E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.12E-2	ug/g dry	1.12E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.35E-4	ug/g dry	9.35E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.98E-4	ug/g dry	2.98E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.46E-4	ug/g dry	5.46E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.66E-4	ug/g dry	5.66E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN03**	**Lab ID:**		**0803017-94**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.25E-3	ug/g dry	6.25E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.24E-4	ug/g dry	9.24E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	6/03/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN08**	**Lab ID:**		**0803017-AF**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.24E-3	ug/g dry	6.24E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.24E-4	ug/g dry	9.24E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.39E-4	ug/g dry	5.39E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.59E-4	ug/g dry	5.59E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN11**	**Lab ID:**		**0803017-AO**			
14119-06-3	Copper	<4.84E-3	ug/g dry	4.84E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.25E-3	ug/g dry	6.25E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.24E-4	ug/g dry	9.24E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN15**	**Lab ID:**		**0803017-AS**			
14119-06-3	Copper	<4.81E-3	ug/g dry	4.81E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.22E-3	ug/g dry	6.22E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.20E-4	ug/g dry	9.20E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.93E-4	ug/g dry	2.93E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.37E-4	ug/g dry	5.37E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.57E-4	ug/g dry	5.57E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN37**	**Lab ID:**		**0803017-BC**			

RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**			
14119-06-3	Copper	<4.99E-3	ug/g dry	4.99E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.45E-3	ug/g dry	6.45E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.14E-2	ug/g dry	1.14E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.55E-4	ug/g dry	9.55E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<3.04E-4	ug/g dry	3.04E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.57E-4	ug/g dry	5.57E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.78E-4	ug/g dry	5.78E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**			
14119-06-3	Copper	<4.82E-3	ug/g dry	4.82E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.23E-3	ug/g dry	6.23E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.22E-4	ug/g dry	9.22E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.94E-4	ug/g dry	2.94E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.38E-4	ug/g dry	5.38E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.58E-4	ug/g dry	5.58E-4	6/03/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**			
14119-06-3	Copper	<4.83E-3	ug/g dry	4.83E-3	6/02/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.23E-3	ug/g dry	6.23E-3	6/02/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	6/02/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.22E-4	ug/g dry	9.22E-4	6/02/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.94E-4	ug/g dry	2.94E-4	6/02/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.38E-4	ug/g dry	5.38E-4	6/02/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.58E-4	ug/g dry	5.58E-4	6/02/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**			
14119-06-3	Copper	<4.72E-3	ug/g dry	4.72E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.09E-3	ug/g dry	6.09E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.08E-2	ug/g dry	1.08E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.02E-4	ug/g dry	9.02E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.88E-4	ug/g dry	2.88E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	5.87E-4	ug/g dry	5.26E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.46E-4	ug/g dry	5.46E-4	6/03/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**			
14119-06-3	Copper	<4.93E-3	ug/g dry	4.93E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.36E-3	ug/g dry	6.36E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.12E-2	ug/g dry	1.12E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.42E-4	ug/g dry	9.42E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<3.00E-4	ug/g dry	3.00E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.50E-4	ug/g dry	5.50E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.70E-4	ug/g dry	5.70E-4	6/03/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**			
14119-06-3	Copper	<4.86E-3	ug/g dry	4.86E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.27E-3	ug/g dry	6.27E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.28E-4	ug/g dry	9.28E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.96E-4	ug/g dry	2.96E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.42E-4	ug/g dry	5.42E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.62E-4	ug/g dry	5.62E-4	6/03/08	8F02008	PNNL-AGG-415
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**			

RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TNT8**	**Lab ID:**		**0804006-06**			
14119-06-3	Copper	<4.85E-3	ug/g dry	4.85E-3	6/03/08	8F02008	PNNL-AGG-415
7440-38-2	Arsenic	<6.26E-3	ug/g dry	6.26E-3	6/03/08	8F02008	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	6/03/08	8F02008	PNNL-AGG-415
14378-37-1	Silver	<9.27E-4	ug/g dry	9.27E-4	6/03/08	8F02008	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	6/03/08	8F02008	PNNL-AGG-415
14265-72-6	Antimony	<5.41E-4	ug/g dry	5.41E-4	6/03/08	8F02008	PNNL-AGG-415
13966-28-4	Lead	<5.61E-4	ug/g dry	5.61E-4	6/03/08	8F02008	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**	**Lab ID:**		**0803017-02**			
14191-86-7	Mercury	4.56E-3	ug/g dry	2.55E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMT7**	**Lab ID:**		**0803017-06**			
14191-86-7	Mercury	3.97E-3	ug/g dry	3.02E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMV1**	**Lab ID:**		**0803017-10**			
14191-86-7	Mercury	4.69E-3	ug/g dry	3.24E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMV6**	**Lab ID:**		**0803017-15**			
14191-86-7	Mercury	<3.28E-3	ug/g dry	3.28E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMV9**	**Lab ID:**		**0803017-18**			
14191-86-7	Mercury	<3.24E-3	ug/g dry	3.24E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMW2**	**Lab ID:**		**0803017-24**			
14191-86-7	Mercury	6.24E-3	ug/g dry	3.27E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMW7**	**Lab ID:**		**0803017-40**			
14191-86-7	Mercury	5.56E-3	ug/g dry	3.28E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMX1**	**Lab ID:**		**0803017-44**			
14191-86-7	Mercury	3.96E-3	ug/g dry	3.23E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMX5**	**Lab ID:**		**0803017-52**			
14191-86-7	Mercury	5.39E-3	ug/g dry	3.32E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMX8**	**Lab ID:**		**0803017-61**			
14191-86-7	Mercury	5.20E-3	ug/g dry	3.23E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMY1**	**Lab ID:**		**0803017-70**			
14191-86-7	Mercury	3.77E-3	ug/g dry	3.45E-3	7/14/08	8G14002	PNNL-AGG-415
HEIS No.	**B1TMY2**	**Lab ID:**		**0803017-71**			
14191-86-7	Mercury	4.38E-3	ug/g dry	4.12E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TMY6**	**Lab ID:**		**0803017-75**			
14191-86-7	Mercury	4.00E-3	ug/g dry	3.76E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TMY9**	**Lab ID:**		**0803017-82**			
14191-86-7	Mercury	<3.71E-3	ug/g dry	3.71E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN03**	**Lab ID:**		**0803017-94**			
14191-86-7	Mercury	7.25E-3	ug/g dry	3.78E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN08**	**Lab ID:**		**0803017-AF**			
14191-86-7	Mercury	<3.77E-3	ug/g dry	3.77E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN11**	**Lab ID:**		**0803017-AO**			
14191-86-7	Mercury	4.97E-3	ug/g dry	3.71E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN15**	**Lab ID:**		**0803017-AS**			
14191-86-7	Mercury	4.70E-3	ug/g dry	3.75E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN37**	**Lab ID:**		**0803017-BC**			
14191-86-7	Mercury	5.54E-3	ug/g dry	3.79E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN22**	**Lab ID:**		**0803017-BH**			
14191-86-7	Mercury	<3.80E-3	ug/g dry	3.80E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN27**	**Lab ID:**		**0803017-BN**			
14191-86-7	Mercury	4.70E-3	ug/g dry	3.77E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN31**	**Lab ID:**		**0803017-BY**			
14191-86-7	Mercury	<3.73E-3	ug/g dry	3.73E-3	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TN34**	**Lab ID:**		**0803017-CG**			
14191-86-7	Mercury	1.69E-2	ug/g dry	3.53E-3	7/14/08	8G14003	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**			
15756-10-2	Mercury	<4.80E-2	ug/g dry	4.80E-2	7/14/08	8G14003	PNNL-AGG-415
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**			
15756-10-2	Mercury	<4.93E-2	ug/g dry	4.93E-2	7/14/08	8G14003	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**			
14119-06-3	Copper	1.03E1	ug/g dry	4.24E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<8.08E-1	ug/g dry	8.08E-1	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	4.55E-2	ug/g dry	3.47E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<5.62E-2	ug/g dry	5.62E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**			
14119-06-3	Copper	9.97E0	ug/g dry	5.02E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<9.57E-1	ug/g dry	9.57E-1	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	5.24E-2	ug/g dry	4.11E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<6.65E-2	ug/g dry	6.65E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**			
14119-06-3	Copper	9.85E0	ug/g dry	5.39E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.03E0	ug/g dry	1.03E0	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	4.90E-2	ug/g dry	4.42E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.15E-2	ug/g dry	7.15E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**			
14119-06-3	Copper	9.68E0	ug/g dry	5.46E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.04E0	ug/g dry	1.04E0	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	<4.47E-2	ug/g dry	4.47E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.24E-2	ug/g dry	7.24E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**			
14119-06-3	Copper	8.09E0	ug/g dry	5.38E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.03E0	ug/g dry	1.03E0	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	<4.41E-2	ug/g dry	4.41E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.14E-2	ug/g dry	7.14E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**			
14119-06-3	Copper	9.81E0	ug/g dry	5.44E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.04E0	ug/g dry	1.04E0	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	4.87E-2	ug/g dry	4.46E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.22E-2	ug/g dry	7.22E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**			
14119-06-3	Copper	1.02E1	ug/g dry	5.46E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.04E0	ug/g dry	1.04E0	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	5.02E-2	ug/g dry	4.48E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.24E-2	ug/g dry	7.24E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**			
14119-06-3	Copper	9.78E0	ug/g dry	5.38E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.03E0	ug/g dry	1.03E0	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	<4.41E-2	ug/g dry	4.41E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.13E-2	ug/g dry	7.13E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**			
14119-06-3	Copper	9.32E0	ug/g dry	5.53E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.05E0	ug/g dry	1.05E0	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	<4.53E-2	ug/g dry	4.53E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.33E-2	ug/g dry	7.33E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
14119-06-3	Copper	8.91E0	ug/g dry	5.37E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.02E0	ug/g dry	1.02E0	7/10/08	8G10005	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**			
14336-64-2	Cadmium	4.66E-2	ug/g dry	4.40E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.11E-2	ug/g dry	7.11E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**			
14119-06-3	Copper	1.13E1	ug/g dry	5.73E-1	7/10/08	8G10005	PNNL-AGG-415
14687-58-2	Selenium	<1.09E0	ug/g dry	1.09E0	7/10/08	8G10005	PNNL-AGG-415
14336-64-2	Cadmium	7.26E-2	ug/g dry	4.70E-2	7/10/08	8G10005	PNNL-AGG-415
14265-72-6	Antimony	<7.60E-2	ug/g dry	7.60E-2	7/10/08	8G10005	PNNL-AGG-415
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**			
14119-06-3	Copper	1.21E1	ug/g dry	6.86E-1	7/10/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.31E0	ug/g dry	1.31E0	7/10/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	6.17E-2	ug/g dry	5.62E-2	7/10/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<9.09E-2	ug/g dry	9.09E-2	7/10/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**			
14119-06-3	Copper	9.24E0	ug/g dry	6.26E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.19E0	ug/g dry	1.19E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.13E-2	ug/g dry	5.13E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.30E-2	ug/g dry	8.30E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**			
14119-06-3	Copper	9.47E0	ug/g dry	6.17E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.18E0	ug/g dry	1.18E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.06E-2	ug/g dry	5.06E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.18E-2	ug/g dry	8.18E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**			
14119-06-3	Copper	9.57E0	ug/g dry	6.28E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.20E0	ug/g dry	1.20E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.15E-2	ug/g dry	5.15E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.32E-2	ug/g dry	8.32E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**			
14119-06-3	Copper	1.01E1	ug/g dry	6.27E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.20E0	ug/g dry	1.20E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.14E-2	ug/g dry	5.14E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.31E-2	ug/g dry	8.31E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**			
14119-06-3	Copper	1.02E1	ug/g dry	6.17E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.18E0	ug/g dry	1.18E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.06E-2	ug/g dry	5.06E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.18E-2	ug/g dry	8.18E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**			
14119-06-3	Copper	9.25E0	ug/g dry	6.24E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.19E0	ug/g dry	1.19E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.11E-2	ug/g dry	5.11E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.27E-2	ug/g dry	8.27E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**			
14119-06-3	Copper	1.08E1	ug/g dry	6.30E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.20E0	ug/g dry	1.20E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.16E-2	ug/g dry	5.16E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.35E-2	ug/g dry	8.35E-2	7/11/08	8G10006	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**			
14119-06-3	Copper	1.20E1	ug/g dry	6.32E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.21E0	ug/g dry	1.21E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	5.44E-2	ug/g dry	5.18E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.38E-2	ug/g dry	8.38E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**			
14119-06-3	Copper	1.17E1	ug/g dry	6.27E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.20E0	ug/g dry	1.20E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	5.57E-2	ug/g dry	5.14E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.31E-2	ug/g dry	8.31E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**			
14119-06-3	Copper	1.17E1	ug/g dry	6.20E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.18E0	ug/g dry	1.18E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.08E-2	ug/g dry	5.08E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.22E-2	ug/g dry	8.22E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**			
14119-06-3	Copper	1.15E1	ug/g dry	5.86E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.12E0	ug/g dry	1.12E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	6.25E-2	ug/g dry	4.81E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<7.77E-2	ug/g dry	7.77E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**			
14119-06-3	Copper	1.08E1	ug/g dry	6.31E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.20E0	ug/g dry	1.20E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.17E-2	ug/g dry	5.17E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.37E-2	ug/g dry	8.37E-2	7/11/08	8G10006	PNNL-AGG-415
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**			
14119-06-3	Copper	1.09E1	ug/g dry	6.49E-1	7/11/08	8G10006	PNNL-AGG-415
14687-58-2	Selenium	<1.24E0	ug/g dry	1.24E0	7/11/08	8G10006	PNNL-AGG-415
14336-64-2	Cadmium	<5.32E-2	ug/g dry	5.32E-2	7/11/08	8G10006	PNNL-AGG-415
14265-72-6	Antimony	<8.60E-2	ug/g dry	8.60E-2	7/11/08	8G10006	PNNL-AGG-415

Carbon Analysis/Soil

Total Organic Carbon (ug/g) by AGG-TOC-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-02	B1TMT2	<2.00E2	2.00E2	7/28/08	[CALC]
0803017-06	B1TMT7	<2.00E2	2.00E2	7/28/08	[CALC]
0803017-10	B1TMV1	<2.00E2	2.00E2	7/28/08	[CALC]
0803017-15	B1TMV6	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-18	B1TMV9	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-24	B1TMW2	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-40	B1TMW7	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-44	B1TMX1	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-52	B1TMX5	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-61	B1TMX8	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-70	B1TMY1	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-71	B1TMY2	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-75	B1TMY6	4.14E2	2.00E2	7/30/08	[CALC]
0803017-82	B1TMY9	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-94	B1TN03	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-AF	B1TN08	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-AO	B1TN11	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-AS	B1TN15	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-BC	B1TN37	2.23E2	2.00E2	7/30/08	[CALC]
0803017-BH	B1TN22	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-BN	B1TN27	<2.00E2	2.00E2	7/30/08	[CALC]
0803017-BY	B1TN31	2.62E2	2.00E2	7/30/08	[CALC]
0803017-CG	B1TN34	2.56E2	2.00E2	7/30/08	[CALC]
0804006-05	B1TNT7	2.50E2	2.00E2	8/01/08	[CALC]
0804006-06	B1TNT8	2.26E2	2.00E2	8/01/08	[CALC]

Carbon Analysis/Soil

Total Carbon (ug/g) by AGG-TOC-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-02	B1TMT2	1.97E3	2.00E2	7/17/08	8G17002
0803017-06	B1TMT7	1.73E3	2.00E2	7/17/08	8G17002
0803017-10	B1TMV1	1.71E3	2.00E2	7/17/08	8G17002
0803017-15	B1TMV6	2.20E3	2.00E2	7/17/08	8G17002
0803017-18	B1TMV9	1.92E3	2.00E2	7/17/08	8G17002
0803017-24	B1TMW2	2.93E3	2.00E2	7/17/08	8G17002
0803017-40	B1TMW7	1.76E3	2.00E2	7/17/08	8G17002
0803017-44	B1TMX1	1.95E3	2.00E2	7/17/08	8G17002
0803017-52	B1TMX5	2.13E3	2.00E2	7/17/08	8G17002
0803017-61	B1TMX8	1.83E3	2.00E2	7/17/08	8G17002
0803017-70	B1TMY1	2.19E3	2.00E2	7/17/08	8G17002
0803017-71	B1TMY2	1.97E3	2.00E2	7/17/08	8G17002
0803017-75	B1TMY6	1.52E3	2.00E2	7/17/08	8G17002
0803017-82	B1TMY9	1.56E3	2.00E2	7/17/08	8G17002
0803017-94	B1TN03	1.63E3	2.00E2	7/18/08	8G17002
0803017-AF	B1TN08	1.43E3	2.00E2	7/18/08	8G17002
0803017-AO	B1TN11	1.48E3	2.00E2	7/18/08	8G17002
0803017-AS	B1TN15	1.32E3	2.00E2	7/18/08	8G17002
0803017-BC	B1TN37	1.29E3	2.00E2	7/18/08	8G17002
0803017-BH	B1TN22	1.12E3	2.00E2	7/18/08	8G17002
0803017-BN	B1TN27	8.45E2	2.00E2	7/18/08	8G17002
0803017-BY	B1TN31	5.79E2	2.00E2	7/18/08	8G17002
0803017-CG	B1TN34	6.38E2	2.00E2	7/18/08	8G17002
0804006-05	B1TNT7	7.44E2	2.00E2	7/18/08	8G17002
0804006-06	B1TNT8	5.27E2	2.00E2	7/18/08	8G17002

Carbon Analysis/Soil

Total Inorganic Carbon (ug/g) by AGG-TOC-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-02	B1TMT2	1.86E3	2.00E2	7/28/08	8G28012
0803017-06	B1TMT7	1.68E3	2.00E2	7/28/08	8G28012
0803017-10	B1TMV1	1.60E3	2.00E2	7/28/08	8G28012
0803017-15	B1TMV6	2.14E3	2.00E2	7/30/08	8G28012
0803017-18	B1TMV9	1.84E3	2.00E2	7/30/08	8G28012
0803017-24	B1TMW2	2.75E3	2.00E2	7/30/08	8G28012
0803017-40	B1TMW7	1.64E3	2.00E2	7/30/08	8G28012
0803017-44	B1TMX1	1.78E3	2.00E2	7/30/08	8G28012
0803017-52	B1TMX5	2.02E3	2.00E2	7/30/08	8G28012
0803017-61	B1TMX8	1.73E3	2.00E2	7/30/08	8G28012
0803017-70	B1TMY1	2.07E3	2.00E2	7/30/08	8G28012
0803017-71	B1TMY2	1.85E3	2.00E2	7/30/08	8G28012
0803017-75	B1TMY6	1.11E3	2.00E2	7/30/08	8G28012
0803017-82	B1TMY9	1.40E3	2.00E2	7/30/08	8G28012
0803017-94	B1TN03	1.48E3	2.00E2	7/30/08	8G28012
0803017-AF	B1TN08	1.29E3	2.00E2	7/30/08	8G28012
0803017-AO	B1TN11	1.35E3	2.00E2	7/30/08	8G28012
0803017-AS	B1TN15	1.18E3	2.00E2	7/30/08	8G28012
0803017-BC	B1TN37	1.07E3	2.00E2	7/30/08	8G28012
0803017-BH	B1TN22	9.53E2	2.00E2	7/30/08	8G28012
0803017-BN	B1TN27	6.80E2	2.00E2	7/30/08	8G28012
0803017-BY	B1TN31	3.17E2	2.00E2	7/30/08	8G28012
0803017-CG	B1TN34	3.82E2	2.00E2	7/30/08	8G28012
0804006-05	B1TNT7	4.94E2	2.00E2	8/01/08	8G28012
0804006-06	B1TNT8	3.01E2	2.00E2	8/01/08	8G28012

GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**				
10198-40-0	Cobalt-60	<1.95E-1	pCi/g dry	1.95E-1		7/07/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.04E-1	pCi/g dry	2.04E-1		7/07/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<7.04E-1	pCi/g dry	7.04E-1		7/07/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.43E-1	pCi/g dry	4.43E-1		7/07/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<7.03E-1	pCi/g dry	7.03E-1		7/07/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**				
10198-40-0	Cobalt-60	<2.01E-1	pCi/g dry	2.01E-1		7/07/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.42E-1	pCi/g dry	2.42E-1		7/07/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<9.15E-1	pCi/g dry	9.15E-1		7/07/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<5.20E-1	pCi/g dry	5.20E-1		7/07/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<8.71E-1	pCi/g dry	8.71E-1		7/07/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**				
10198-40-0	Cobalt-60	<1.65E-1	pCi/g dry	1.65E-1		7/07/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.03E-1	pCi/g dry	2.03E-1		7/07/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<6.72E-1	pCi/g dry	6.72E-1		7/07/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.16E-1	pCi/g dry	4.16E-1		7/07/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<6.47E-1	pCi/g dry	6.47E-1		7/07/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**				
10198-40-0	Cobalt-60	<1.95E-1	pCi/g dry	1.95E-1		7/07/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.26E-1	pCi/g dry	2.26E-1		7/07/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<9.22E-1	pCi/g dry	9.22E-1		7/07/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<5.09E-1	pCi/g dry	5.09E-1		7/07/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<8.57E-1	pCi/g dry	8.57E-1		7/07/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**				
10198-40-0	Cobalt-60	<1.70E-1	pCi/g dry	1.70E-1		7/07/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<1.86E-1	pCi/g dry	1.86E-1		7/07/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<6.82E-1	pCi/g dry	6.82E-1		7/07/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.22E-1	pCi/g dry	4.22E-1		7/07/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<6.76E-1	pCi/g dry	6.76E-1		7/07/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**				
10198-40-0	Cobalt-60	<1.95E-1	pCi/g dry	1.95E-1		7/07/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.37E-1	pCi/g dry	2.37E-1		7/07/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<9.14E-1	pCi/g dry	9.14E-1		7/07/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<5.30E-1	pCi/g dry	5.30E-1		7/07/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<8.93E-1	pCi/g dry	8.93E-1		7/07/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**				
10198-40-0	Cobalt-60	<1.93E-1	pCi/g dry	1.93E-1		7/08/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<1.95E-1	pCi/g dry	1.95E-1		7/08/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<6.86E-1	pCi/g dry	6.86E-1		7/08/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.56E-1	pCi/g dry	4.56E-1		7/08/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<6.77E-1	pCi/g dry	6.77E-1		7/08/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**				
10198-40-0	Cobalt-60	<2.13E-1	pCi/g dry	2.13E-1		7/08/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.51E-1	pCi/g dry	2.51E-1		7/08/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<9.94E-1	pCi/g dry	9.94E-1		7/08/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<5.59E-1	pCi/g dry	5.59E-1		7/08/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<9.41E-1	pCi/g dry	9.41E-1		7/08/08	8G08001	AGG-RRL-001

GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**				
10198-40-0	Cobalt-60	<1.79E-1	pCi/g dry	1.79E-1		7/08/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<1.89E-1	pCi/g dry	1.89E-1		7/08/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<7.00E-1	pCi/g dry	7.00E-1		7/08/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.31E-1	pCi/g dry	4.31E-1		7/08/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<6.70E-1	pCi/g dry	6.70E-1		7/08/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**				
10198-40-0	Cobalt-60	<2.15E-1	pCi/g dry	2.15E-1		7/08/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.65E-1	pCi/g dry	2.65E-1		7/08/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<9.71E-1	pCi/g dry	9.71E-1		7/08/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<5.58E-1	pCi/g dry	5.58E-1		7/08/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<9.42E-1	pCi/g dry	9.42E-1		7/08/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**				
10198-40-0	Cobalt-60	<1.94E-1	pCi/g dry	1.94E-1		7/08/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.21E-1	pCi/g dry	2.21E-1		7/08/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<8.02E-1	pCi/g dry	8.02E-1		7/08/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.99E-1	pCi/g dry	4.99E-1		7/08/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<8.04E-1	pCi/g dry	8.04E-1		7/08/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**				
10198-40-0	Cobalt-60	<2.06E-1	pCi/g dry	2.06E-1		7/08/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.70E-1	pCi/g dry	2.70E-1		7/08/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<1.02E0	pCi/g dry	1.02E0		7/08/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<5.78E-1	pCi/g dry	5.78E-1		7/08/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<9.60E-1	pCi/g dry	9.60E-1		7/08/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**				
10198-40-0	Cobalt-60	<1.89E-1	pCi/g dry	1.89E-1		7/09/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.12E-1	pCi/g dry	2.12E-1		7/09/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<7.37E-1	pCi/g dry	7.37E-1		7/09/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.53E-1	pCi/g dry	4.53E-1		7/09/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<7.18E-1	pCi/g dry	7.18E-1		7/09/08	8G08001	AGG-RRL-001
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**				
10198-40-0	Cobalt-60	<2.01E-1	pCi/g dry	2.01E-1		7/09/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.52E-1	pCi/g dry	2.52E-1		7/09/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<9.51E-1	pCi/g dry	9.51E-1		7/09/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<5.50E-1	pCi/g dry	5.50E-1		7/09/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<9.18E-1	pCi/g dry	9.18E-1		7/09/08	8G08001	AGG-RRL-001
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**				
10198-40-0	Cobalt-60	<1.59E-1	pCi/g dry	1.59E-1		7/09/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<1.99E-1	pCi/g dry	1.99E-1		7/09/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<6.45E-1	pCi/g dry	6.45E-1		7/09/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.05E-1	pCi/g dry	4.05E-1		7/09/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<6.36E-1	pCi/g dry	6.36E-1		7/09/08	8G08001	AGG-RRL-001
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**				
10198-40-0	Cobalt-60	<1.86E-1	pCi/g dry	1.86E-1		7/09/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.37E-1	pCi/g dry	2.37E-1		7/09/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<8.12E-1	pCi/g dry	8.12E-1		7/09/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.88E-1	pCi/g dry	4.88E-1		7/09/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<8.20E-1	pCi/g dry	8.20E-1		7/09/08	8G08001	AGG-RRL-001

GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**				
10198-40-0	Cobalt-60	<1.59E-1	pCi/g dry	1.59E-1		7/09/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<1.82E-1	pCi/g dry	1.82E-1		7/09/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<6.10E-1	pCi/g dry	6.10E-1		7/09/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<3.77E-1	pCi/g dry	3.77E-1		7/09/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<6.14E-1	pCi/g dry	6.14E-1		7/09/08	8G08001	AGG-RRL-001
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**				
10198-40-0	Cobalt-60	<2.07E-1	pCi/g dry	2.07E-1		7/09/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.41E-1	pCi/g dry	2.41E-1		7/09/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<8.78E-1	pCi/g dry	8.78E-1		7/09/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.99E-1	pCi/g dry	4.99E-1		7/09/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<8.48E-1	pCi/g dry	8.48E-1		7/09/08	8G08001	AGG-RRL-001
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**				
10198-40-0	Cobalt-60	<1.77E-1	pCi/g dry	1.77E-1		7/10/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.01E-1	pCi/g dry	2.01E-1		7/10/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<6.40E-1	pCi/g dry	6.40E-1		7/10/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.04E-1	pCi/g dry	4.04E-1		7/10/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<6.33E-1	pCi/g dry	6.33E-1		7/10/08	8G08001	AGG-RRL-001
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**				
10198-40-0	Cobalt-60	<1.90E-1	pCi/g dry	1.90E-1		7/10/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.21E-1	pCi/g dry	2.21E-1		7/10/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<8.57E-1	pCi/g dry	8.57E-1		7/10/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.78E-1	pCi/g dry	4.78E-1		7/10/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<8.19E-1	pCi/g dry	8.19E-1		7/10/08	8G08001	AGG-RRL-001
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**				
10198-40-0	Cobalt-60	<1.44E-1	pCi/g dry	1.44E-1		7/10/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<1.72E-1	pCi/g dry	1.72E-1		7/10/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<5.58E-1	pCi/g dry	5.58E-1		7/10/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<3.51E-1	pCi/g dry	3.51E-1		7/10/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<5.73E-1	pCi/g dry	5.73E-1		7/10/08	8G08001	AGG-RRL-001
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**				
10198-40-0	Cobalt-60	<1.86E-1	pCi/g dry	1.86E-1		7/10/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.07E-1	pCi/g dry	2.07E-1		7/10/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<8.18E-1	pCi/g dry	8.18E-1		7/10/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.63E-1	pCi/g dry	4.63E-1		7/10/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<7.77E-1	pCi/g dry	7.77E-1		7/10/08	8G08001	AGG-RRL-001
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**				
10198-40-0	Cobalt-60	<1.78E-1	pCi/g dry	1.78E-1		7/10/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<1.84E-1	pCi/g dry	1.84E-1		7/10/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<6.34E-1	pCi/g dry	6.34E-1		7/10/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<3.92E-1	pCi/g dry	3.92E-1		7/10/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<6.30E-1	pCi/g dry	6.30E-1		7/10/08	8G08001	AGG-RRL-001
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**				
10198-40-0	Cobalt-60	<1.74E-1	pCi/g dry	1.74E-1		7/10/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<2.10E-1	pCi/g dry	2.10E-1		7/10/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<7.70E-1	pCi/g dry	7.70E-1		7/10/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.37E-1	pCi/g dry	4.37E-1		7/10/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<7.45E-1	pCi/g dry	7.45E-1		7/10/08	8G08001	AGG-RRL-001

GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**				
10198-40-0	Cobalt-60	<1.61E-1	pCi/g dry	1.61E-1		7/11/08	8G08001	AGG-RRL-001
10045-97-3	Cesium-137	<1.97E-1	pCi/g dry	1.97E-1		7/11/08	8G08001	AGG-RRL-001
14683-23-9	Europium-152	<7.31E-1	pCi/g dry	7.31E-1		7/11/08	8G08001	AGG-RRL-001
15585-10-1	Europium-154	<4.45E-1	pCi/g dry	4.45E-1		7/11/08	8G08001	AGG-RRL-001
14391-16-3	Europium-155	<7.37E-1	pCi/g dry	7.37E-1		7/11/08	8G08001	AGG-RRL-001

Total Alpha Total Beta/Acid Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**				
12587-47-2	Gross Beta	<9.78E0	pCi/g dry	9.78E0		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<4.09E0	pCi/g dry	4.09E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**				
12587-47-2	Gross Beta	<1.16E1	pCi/g dry	1.16E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<4.84E0	pCi/g dry	4.84E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**				
12587-47-2	Gross Beta	<1.24E1	pCi/g dry	1.24E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.21E0	pCi/g dry	5.21E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**				
12587-47-2	Gross Beta	<1.26E1	pCi/g dry	1.26E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.27E0	pCi/g dry	5.27E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**				
12587-47-2	Gross Beta	<1.24E1	pCi/g dry	1.24E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.20E0	pCi/g dry	5.20E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**				
12587-47-2	Gross Beta	<1.26E1	pCi/g dry	1.26E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.25E0	pCi/g dry	5.25E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**				
12587-47-2	Gross Beta	<1.26E1	pCi/g dry	1.26E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.27E0	pCi/g dry	5.27E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**				
12587-47-2	Gross Beta	<1.24E1	pCi/g dry	1.24E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.19E0	pCi/g dry	5.19E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**				
12587-47-2	Gross Beta	<1.28E1	pCi/g dry	1.28E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.33E0	pCi/g dry	5.33E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**				
12587-47-2	Gross Beta	<1.24E1	pCi/g dry	1.24E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.18E0	pCi/g dry	5.18E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**				
12587-47-2	Gross Beta	<1.32E1	pCi/g dry	1.32E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.53E0	pCi/g dry	5.53E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**				
12587-47-2	Gross Beta	<1.58E1	pCi/g dry	1.58E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.62E0	pCi/g dry	6.62E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**				
12587-47-2	Gross Beta	<1.44E1	pCi/g dry	1.44E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.04E0	pCi/g dry	6.04E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**				
12587-47-2	Gross Beta	<1.42E1	pCi/g dry	1.42E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.96E0	pCi/g dry	5.96E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**				
12587-47-2	Gross Beta	<1.45E1	pCi/g dry	1.45E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.06E0	pCi/g dry	6.06E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**				
12587-47-2	Gross Beta	<1.45E1	pCi/g dry	1.45E1		7/15/08	8G15015	AGG-RRL-002

Total Alpha Total Beta/Acid Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**				
12587-46-1	Gross Alpha	<6.05E0	pCi/g dry	6.05E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**				
12587-47-2	Gross Beta	<1.42E1	pCi/g dry	1.42E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.95E0	pCi/g dry	5.95E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**				
12587-47-2	Gross Beta	<1.44E1	pCi/g dry	1.44E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.02E0	pCi/g dry	6.02E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**				
12587-47-2	Gross Beta	<1.45E1	pCi/g dry	1.45E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.08E0	pCi/g dry	6.08E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**				
12587-47-2	Gross Beta	<1.46E1	pCi/g dry	1.46E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.10E0	pCi/g dry	6.10E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**				
12587-47-2	Gross Beta	<1.45E1	pCi/g dry	1.45E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.05E0	pCi/g dry	6.05E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**				
12587-47-2	Gross Beta	<1.43E1	pCi/g dry	1.43E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.98E0	pCi/g dry	5.98E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**				
12587-47-2	Gross Beta	<1.35E1	pCi/g dry	1.35E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<5.66E0	pCi/g dry	5.66E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**				
12587-47-2	Gross Beta	<1.46E1	pCi/g dry	1.46E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.09E0	pCi/g dry	6.09E0		7/15/08	8G15015	AGG-RRL-002
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**				
12587-47-2	Gross Beta	<1.50E1	pCi/g dry	1.50E1		7/15/08	8G15015	AGG-RRL-002
12587-46-1	Gross Alpha	<6.26E0	pCi/g dry	6.26E0		7/15/08	8G15015	AGG-RRL-002

Total Alpha Total Beta/Water Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1TMT2**		**Lab ID:**	**0803017-02**				
12587-47-2	Gross Beta	<1.35E1	pCi/g dry	1.35E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.90E0	pCi/g dry	6.90E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMT7**		**Lab ID:**	**0803017-06**				
12587-47-2	Gross Beta	<1.34E1	pCi/g dry	1.34E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.85E0	pCi/g dry	6.85E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMV1**		**Lab ID:**	**0803017-10**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.92E0	pCi/g dry	6.92E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMV6**		**Lab ID:**	**0803017-15**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.92E0	pCi/g dry	6.92E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMV9**		**Lab ID:**	**0803017-18**				
12587-47-2	Gross Beta	<1.35E1	pCi/g dry	1.35E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.87E0	pCi/g dry	6.87E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMW2**		**Lab ID:**	**0803017-24**				
12587-47-2	Gross Beta	<1.37E1	pCi/g dry	1.37E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<7.00E0	pCi/g dry	7.00E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMW7**		**Lab ID:**	**0803017-40**				
12587-47-2	Gross Beta	<1.35E1	pCi/g dry	1.35E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.87E0	pCi/g dry	6.87E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMX1**		**Lab ID:**	**0803017-44**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.93E0	pCi/g dry	6.93E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMX5**		**Lab ID:**	**0803017-52**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.93E0	pCi/g dry	6.93E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMX8**		**Lab ID:**	**0803017-61**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.92E0	pCi/g dry	6.92E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMY1**		**Lab ID:**	**0803017-70**				
12587-47-2	Gross Beta	<1.35E1	pCi/g dry	1.35E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.89E0	pCi/g dry	6.89E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMY2**		**Lab ID:**	**0803017-71**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.92E0	pCi/g dry	6.92E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMY6**		**Lab ID:**	**0803017-75**				
12587-47-2	Gross Beta	<1.34E1	pCi/g dry	1.34E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.85E0	pCi/g dry	6.85E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TMY9**		**Lab ID:**	**0803017-82**				
12587-47-2	Gross Beta	<1.37E1	pCi/g dry	1.37E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.99E0	pCi/g dry	6.99E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN03**		**Lab ID:**	**0803017-94**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.91E0	pCi/g dry	6.91E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002

Total Alpha Total Beta/Water Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1TN08**		**Lab ID:**	**0803017-AF**				
12587-46-1	Gross Alpha	<6.91E0	pCi/g dry	6.91E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN11**		**Lab ID:**	**0803017-AO**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.91E0	pCi/g dry	6.91E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN15**		**Lab ID:**	**0803017-AS**				
12587-47-2	Gross Beta	<1.35E1	pCi/g dry	1.35E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.88E0	pCi/g dry	6.88E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN37**		**Lab ID:**	**0803017-BC**				
12587-47-2	Gross Beta	<1.40E1	pCi/g dry	1.40E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<7.14E0	pCi/g dry	7.14E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN22**		**Lab ID:**	**0803017-BH**				
12587-47-2	Gross Beta	<1.35E1	pCi/g dry	1.35E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.90E0	pCi/g dry	6.90E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN27**		**Lab ID:**	**0803017-BN**				
12587-47-2	Gross Beta	<1.35E1	pCi/g dry	1.35E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.90E0	pCi/g dry	6.90E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN31**		**Lab ID:**	**0803017-BY**				
12587-47-2	Gross Beta	<1.32E1	pCi/g dry	1.32E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.74E0	pCi/g dry	6.74E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TN34**		**Lab ID:**	**0803017-CG**				
12587-47-2	Gross Beta	<1.38E1	pCi/g dry	1.38E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<7.04E0	pCi/g dry	7.04E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TNT7**		**Lab ID:**	**0804006-05**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.94E0	pCi/g dry	6.94E0		7/16/08	8G15016	AGG-RRL-002
HEIS No.	**B1TNT8**		**Lab ID:**	**0804006-06**				
12587-47-2	Gross Beta	<1.36E1	pCi/g dry	1.36E1		7/16/08	8G15016	AGG-RRL-002
12587-46-1	Gross Alpha	<6.93E0	pCi/g dry	6.93E0		7/16/08	8G15016	AGG-RRL-002

Physical Characteristics

Cation-exchange capacity of soils (meq/100 g) by CEC Ammonium Acetate

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0803017-01	B1TNC9-3	6.43E0	N/A	10/30/08	9H07001
0803017-22	B1TND0-3	6.59E0	N/A	10/30/08	9H07001
0803017-38	B1TND6-3	6.42E0	N/A	10/30/08	9H07001
0803017-50	B1TND9-3	6.50E0	N/A	10/30/08	9H07001
0803017-68	B1TNF5-3	7.35E0	N/A	10/30/08	9H07001
0803017-89	B1TNH1-3	6.73E0	N/A	10/30/08	9H07001
0803017-AA	B1TNH5-3	6.87E0	N/A	10/30/08	9H07001
0803017-AM	B1TNH9-3	7.20E0	N/A	10/30/08	9H07001
0803017-BB	B1TNJ3-3	9.06E0	N/A	10/30/08	9H07001
0803017-CE	B1TNK3-3	6.39E0	N/A	10/30/08	9H07001
0803017-CL	B1TNC9-3B	5.91E0	N/A	10/30/08	9H07001
0803017-CM	B1TNC9-3C	6.28E0	N/A	10/30/08	9H07001
0803017-CN	B1TND0-3B	6.58E0	N/A	10/30/08	9H07001
0803017-CO	B1TND0-3C	6.66E0	N/A	10/30/08	9H07001
0803017-CP	B1TND6-3B	6.94E0	N/A	10/30/08	9H07001
0803017-CQ	B1TND6-3C	6.75E0	N/A	10/30/08	9H07001
0803017-CR	B1TND9-3B	6.22E0	N/A	10/30/08	9H07001
0803017-CS	B1TND9-3C	6.35E0	N/A	10/30/08	9H07001
0803017-CT	B1TNF5-3B	7.39E0	N/A	10/30/08	9H07001
0803017-CU	B1TNF5-3C	7.36E0	N/A	10/30/08	9H07001
0803017-CV	B1TNH1-3B	6.62E0	N/A	10/30/08	9H07001
0803017-CW	B1TNH1-3C	6.79E0	N/A	10/30/08	9H07001
0803017-CX	B1TNH5-3B	6.71E0	N/A	10/30/08	9H07001
0803017-CY	B1TNH5-3C	6.53E0	N/A	10/30/08	9H07001
0803017-CZ	B1TNH9-3B	7.15E0	N/A	10/30/08	9H07001
0803017-DA	B1TNH9-3C	7.30E0	N/A	10/30/08	9H07001
0803017-DB	B1TNJ3-3C	8.95E0	N/A	10/30/08	9H07001
0803017-DC	B1TNK3-3B	6.91E0	N/A	10/30/08	9H07001
0803017-DD	B1TNK3-3C	6.42E0	N/A	10/30/08	9H07001
0803017-DE	B1TNJ3-3B	9.06E0	N/A	10/30/08	9H07001
0804006-01	B1TNR9-2	4.95E0	N/A	10/16/08	9H07002
0804006-07	B1TNR8-3	7.79E0	N/A	10/16/08	9H07002
0804006-09	B1TNR8-3B	7.78E0	N/A	10/16/08	9H07002
0804006-10	B1TNR8-3C	7.27E0	N/A	10/16/08	9H07002
0804006-11	B1TNR9-2B	4.50E0	N/A	10/16/08	9H07002
0804006-12	B1TNR9-2C	4.41E0	N/A	10/16/08	9H07002

Wet Chemistry - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8E28009 - 1:1 Water Extract (pH_EC_Alk)										
Duplicate (8E28009-DUP1)		**Source: 0803017-71**		Prepared & Analyzed: 05/29/08						
pH	7.53E0	N/A	pH Units		7.81E0			3.65	35	
Duplicate (8E28009-DUP2)		**Source: 0803017-70**		Prepared & Analyzed: 05/29/08						
pH	7.81E0	N/A	pH Units		7.89E0			1.02	35	
Duplicate (8E28009-DUP3)		**Source: 0803017-52**		Prepared & Analyzed: 05/29/08						
pH	8.39E0	N/A	pH Units		9.23E0			9.53	35	
Batch 8E28010 - 1:1 Water Extract (pH_EC_Alk)										
Blank (8E28010-BLK1)				Prepared & Analyzed: 05/29/08						
Specific Conductance (EC)	<1.00E-2	1.00E-2	mS/cm							
Blank (8E28010-BLK2)				Prepared & Analyzed: 05/29/08						
Specific Conductance (EC)	<1.00E-2	1.00E-2	mS/cm							
Duplicate (8E28010-DUP1)		**Source: 0803017-71**		Prepared & Analyzed: 05/29/08						
Specific Conductance (EC)	3.37E-1	1.00E-2	mS/cm		3.75E-1			10.7	35	
Duplicate (8E28010-DUP2)		**Source: 0803017-70**		Prepared & Analyzed: 05/29/08						
Specific Conductance (EC)	5.46E-1	1.00E-2	mS/cm		5.58E-1			2.17	35	
Batch 8E30001 - 1:1 Water Extract (pH_EC_Alk)										
Blank (8E30001-BLK1)				Prepared: 05/30/08 Analyzed: 06/02/08						
Alkalinity as CaCO3	<2.35E1	2.35E1	ug/g wet							

Wet Chemistry - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8E30001 - 1:1 Water Extract (pH_EC_Alk)										
Blank (8E30001-BLK2)				Prepared: 05/30/08	Analyzed: 06/02/08					
Alkalinity as CaCO3	<2.35E1	2.35E1	ug/g wet							
Duplicate (8E30001-DUP1)		**Source: 0803017-71**		Prepared: 05/30/08	Analyzed: 06/02/08					
Alkalinity as CaCO3	4.03E1	2.35E1	ug/g dry		3.65E1			9.85	35	
Duplicate (8E30001-DUP2)		**Source: 0803017-70**		Prepared: 05/30/08	Analyzed: 06/02/08					
Alkalinity as CaCO3	4.27E1	2.36E1	ug/g dry		4.39E1			2.78	35	

Anions by Ion Chromatography - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8E28008 - 1:1 Water Extract (IC)										
Blank (8E28008-BLK1)				Prepared: 05/29/08 Analyzed: 06/01/08						
Fluoride	<2.00E-1	2.00E-1	ug/g wet							
Chloride	<5.00E-1	5.00E-1	"							
Nitrite	<1.00E0	1.00E0	"							
Nitrate	<1.00E0	1.00E0	"							
Sulfate	<1.50E0	1.50E0	"							
Phosphate	<1.50E0	1.50E0	"							
Blank (8E28008-BLK2)				Prepared: 05/29/08 Analyzed: 06/01/08						
Fluoride	<2.00E-1	2.00E-1	ug/g wet							
Chloride	<5.00E-1	5.00E-1	"							
Nitrite	<1.00E0	1.00E0	"							
Nitrate	<1.00E0	1.00E0	"							
Sulfate	<1.50E0	1.50E0	"							
Phosphate	<1.50E0	1.50E0	"							
LCS (8E28008-BS1)				Prepared: 05/29/08 Analyzed: 06/01/08						
Fluoride	2.19E0	2.00E-1	ug/g wet	2.00E0		110	80-120			
Chloride	5.47E0	5.00E-1	"	5.00E0		109	80-120			
Nitrite	1.07E1	1.00E0	"	1.00E1		107	80-120			
Nitrate	1.10E1	1.00E0	"	1.00E1		110	80-120			
Sulfate	1.65E1	1.50E0	"	1.50E1		110	80-120			
Phosphate	1.62E1	1.50E0	"	1.50E1		108	80-120			
LCS (8E28008-BS2)				Prepared: 05/29/08 Analyzed: 06/01/08						
Fluoride	2.19E0	2.00E-1	ug/g wet	2.00E0		110	80-120			
Chloride	5.46E0	5.00E-1	"	5.00E0		109	80-120			
Nitrite	1.08E1	1.00E0	"	1.00E1		108	80-120			
Nitrate	1.10E1	1.00E0	"	1.00E1		110	80-120			
Sulfate	1.64E1	1.50E0	"	1.50E1		109	80-120			
Phosphate	1.62E1	1.50E0	"	1.50E1		108	80-120			

Anions by Ion Chromatography - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8E28008 - 1:1 Water Extract (IC)										
Duplicate (8E28008-DUP1)		**Source: 0803017-71**		Prepared: 05/29/08	Analyzed: 05/31/08					
Fluoride	2.90E-1	2.00E-1	ug/g dry		2.52E-1			14.0	35	D
Chloride	7.29E0	5.00E-1	"		7.71E0			5.66	35	D
Nitrite	<1.00E0	1.00E0	"		ND				35	
Nitrate	4.84E1	1.00E0	"		5.08E1			4.88	35	D
Sulfate	8.94E1	1.50E0	"		9.39E1			4.90	35	D
Phosphate	<1.50E0	1.50E0	"		ND				35	
Duplicate (8E28008-DUP2)		**Source: 0803017-70**		Prepared: 05/29/08	Analyzed: 05/31/08					
Fluoride	4.96E-1	2.01E-1	ug/g dry		4.93E-1			0.528	35	D
Chloride	1.84E1	5.02E-1	"		1.97E1			6.77	35	D
Nitrite	<1.00E0	1.00E0	"		ND				35	
Nitrate	7.02E1	1.00E0	"		7.52E1			6.91	35	D
Sulfate	1.46E2	1.50E0	"		1.49E2			1.93	35	D
Phosphate	<1.50E0	1.50E0	"		ND				35	
Post Spike (8E28008-PS1)		**Source: 0803017-02**		Prepared: 05/29/08	Analyzed: 06/01/08					
Fluoride	1.28E0	N/A	ug/mL	8.00E-1	4.27E-1	107	75-125			D
Chloride	2.46E0	N/A	"	2.00E0	3.23E-1	107	75-125			D
Nitrite	4.20E0	N/A	"	4.00E0	ND	105	75-125			D
Nitrate	7.74E0	N/A	"	4.00E0	3.54E0	105	75-125			D
Sulfate	9.99E0	N/A	"	6.00E0	3.61E0	106	75-125			D
Phosphate	6.07E0	N/A	"	6.00E0	ND	101	75-125			D
Post Spike (8E28008-PS2)		**Source: 0804006-06**		Prepared: 05/29/08	Analyzed: 06/02/08					
Fluoride	8.50E-1	N/A	ug/mL	8.00E-1	ND	107	75-125			D
Chloride	2.70E0	N/A	"	2.00E0	5.72E-1	106	75-125			D
Nitrite	4.33E0	N/A	"	4.00E0	5.00E-3	108	75-125			D
Nitrate	8.40E0	N/A	"	4.00E0	4.13E0	107	75-125			D
Sulfate	9.25E0	N/A	"	6.00E0	2.89E0	106	75-125			D
Phosphate	6.13E0	N/A	"	6.00E0	ND	102	75-125			D

Cyanide by Mircodistillation/Colorimetric - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9H06005 - NO PREP										
Blank (9H06005-BLK1)				Prepared & Analyzed: 12/10/08						
Cyanide	<2.00E-1	2.00E-1	ug/g wet							
LCS (9H06005-BS1)				Prepared & Analyzed: 12/10/08						
Cyanide	8.78E-1	N/A	ug/g	1.00E0		8.78	80-120			
Duplicate (9H06005-DUP1)		**Source: 0803017-94**		Prepared & Analyzed: 12/10/08						
Cyanide	<2.09E-1	2.09E-1	ug/g dry		ND				20	
Post Spike (9H06005-PS1)		**Source: 0803017-94**		Prepared & Analyzed: 12/10/08						
Cyanide	1.00E0	N/A	ug/g	1.00E0	ND	100	75-125			

Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8F19015 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8F19015-BLK1)				Prepared: 05/28/08 Analyzed: 06/20/08						
Aluminum	<8.58E-2	8.58E-2	ug/g wet							
Calcium	<3.87E-1	3.87E-1	"							
Chromium	<3.33E-2	3.33E-2	"							
Iron	<1.42E-1	1.42E-1	"							
Potassium	<2.33E0	2.33E0	"							
Magnesium	<8.34E-2	8.34E-2	"							
Manganese	<1.71E-2	1.71E-2	"							
Nickel	<9.33E-2	9.33E-2	"							
Sodium	<6.69E-1	6.69E-1	"							
Blank (8F19015-BLK2)				Prepared: 05/28/08 Analyzed: 06/20/08						
Aluminum	<8.58E-2	8.58E-2	ug/g wet							
Calcium	<3.87E-1	3.87E-1	"							
Chromium	<3.33E-2	3.33E-2	"							
Iron	<1.42E-1	1.42E-1	"							
Potassium	<2.33E0	2.33E0	"							
Magnesium	<8.34E-2	8.34E-2	"							
Manganese	<1.71E-2	1.71E-2	"							
Nickel	<9.33E-2	9.33E-2	"							
Sodium	<6.69E-1	6.69E-1	"							
LCS (8F19015-BS1)				Prepared: 05/28/08 Analyzed: 06/20/08						
Aluminum	4.75E0	8.58E-2	ug/g wet	4.99E0		95.2	80-120			
Calcium	4.84E0	3.87E-1	"	4.99E0		97.0	80-120			
Chromium	5.09E0	3.33E-2	"	4.99E0		102	80-120			
Iron	4.93E0	1.42E-1	"	4.99E0		98.8	80-120			
Potassium	4.97E1	2.33E0	"	4.99E1		99.6	80-120			
Magnesium	4.81E0	8.34E-2	"	4.99E0		96.3	80-120			
Manganese	4.89E0	1.71E-2	"	4.99E0		97.8	80-120			
Nickel	4.88E0	9.33E-2	"	4.99E0		97.8	80-120			
Sodium	5.38E0	6.69E-1	"	4.99E0		108	80-120			

Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8F19015 - 1:1 Water Extract (ICP/ICPMS)										
LCS (8F19015-BS2)				Prepared: 05/28/08		Analyzed: 06/20/08				
Aluminum	4.72E0	8.58E-2	ug/g wet	5.00E0		94.6	80-120			
Calcium	4.78E0	3.87E-1	"	5.00E0		95.8	80-120			
Chromium	5.03E0	3.33E-2	"	5.00E0		101	80-120			
Iron	4.88E0	1.42E-1	"	5.00E0		97.6	80-120			
Potassium	4.94E1	2.33E0	"	5.00E1		98.9	80-120			
Magnesium	4.76E0	8.34E-2	"	5.00E0		95.3	80-120			
Manganese	4.83E0	1.71E-2	"	5.00E0		96.7	80-120			
Nickel	4.87E0	9.33E-2	"	5.00E0		97.4	80-120			
Sodium	5.29E0	6.69E-1	"	5.00E0		106	80-120			
Duplicate (8F19015-DUP1)		**Source: 0803017-71**		Prepared: 05/28/08		Analyzed: 06/20/08				
Aluminum	8.78E-2	8.58E-2	ug/g dry		1.09E-1			21.2	35	
Calcium	2.74E1	3.87E-1	"		2.86E1			4.53	35	
Chromium	<3.33E-2	3.33E-2	"		ND				35	
Iron	<1.42E-1	1.42E-1	"		ND				35	
Potassium	6.88E0	2.33E0	"		7.09E0			3.05	35	
Magnesium	8.10E0	8.34E-2	"		8.51E0			4.93	35	
Manganese	<1.71E-2	1.71E-2	"		ND				35	
Nickel	<9.33E-2	9.33E-2	"		ND				35	
Sodium	1.82E1	6.69E-1	"		1.94E1			6.25	35	
Duplicate (8F19015-DUP2)		**Source: 0803017-70**		Prepared: 05/28/08		Analyzed: 06/20/08				
Aluminum	<8.61E-2	8.61E-2	ug/g dry		ND				35	
Calcium	4.29E1	3.88E-1	"		4.63E1			7.77	35	
Chromium	<3.34E-2	3.34E-2	"		ND				35	
Iron	<1.43E-1	1.43E-1	"		ND				35	
Potassium	9.73E0	2.34E0	"		1.07E1			9.81	35	
Magnesium	1.40E1	8.37E-2	"		1.46E1			4.56	35	
Manganese	<1.72E-2	1.72E-2	"		2.44E-2				35	
Nickel	<9.36E-2	9.36E-2	"		ND				35	
Sodium	2.70E1	6.71E-1	"		2.97E1			9.65	35	

Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8F19015 - 1:1 Water Extract (ICP/ICPMS)										
Post Spike (8F19015-PS1)		**Source: 0803017-71**		Prepared: 06/19/08	Analyzed: 06/20/08					
Aluminum	5.17E2	N/A	ug/L	5.00E2	3.62E1	96.1	75-125			
Calcium	9.94E3	N/A	"	5.00E2	9.53E3	80.5	75-125			
Chromium	1.25E2	N/A	"	1.25E2	ND	101	75-125			
Iron	5.14E2	N/A	"	5.00E2	1.16E1	100	75-125			
Potassium	3.61E3	N/A	"	1.25E3	2.36E3	99.9	75-125			
Magnesium	3.35E3	N/A	"	5.00E2	2.83E3	104	75-125			
Manganese	2.52E2	N/A	"	2.50E2	ND	102	75-125			
Nickel	4.93E2	N/A	"	5.00E2	ND	98.7	75-125			
Sodium	6.91E3	N/A	"	5.00E2	6.46E3	90.2	75-125			
Post Spike (8F19015-PS2)		**Source: 0803017-70**		Prepared: 06/19/08	Analyzed: 06/20/08					
Aluminum	5.02E2	N/A	ug/L	5.00E2	1.53E1	97.3	75-125			
Calcium	1.67E4	N/A	"	5.00E2	1.55E4	235	75-125			
Chromium	1.26E2	N/A	"	1.25E2	ND	102	75-125			
Iron	5.06E2	N/A	"	5.00E2	1.87E0	101	75-125			
Potassium	5.07E3	N/A	"	1.25E3	3.59E3	119	75-125			
Magnesium	5.43E3	N/A	"	5.00E2	4.90E3	105	75-125			
Manganese	2.63E2	N/A	"	2.50E2	8.17E0	102	75-125			
Nickel	4.94E2	N/A	"	5.00E2	7.98E-1	98.6	75-125			
Sodium	1.10E4	N/A	"	5.00E2	9.95E3	214	75-125			

Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G22019 - ASTM D 5198 (ICP/ICPMS)										
Blank (8G22019-BLK1)				Prepared: 07/07/08 Analyzed: 07/23/08						
Aluminum	<3.46E1	3.46E1	ug/g wet							
Arsenic	<8.40E1	8.40E1	"							
Barium	<3.29E0	3.29E0	"							
Calcium	<1.28E2	1.28E2	"							
Chromium	<2.87E0	2.87E0	"							
Iron	<8.78E1	8.78E1	"							
Potassium	<8.16E1	8.16E1	"							
Magnesium	<2.72E1	2.72E1	"							
Manganese	<1.03E0	1.03E0	"							
Nickel	<7.07E0	7.07E0	"							
Lead	<2.73E1	2.73E1	"							
Sodium	<9.21E2	9.21E2	"							
Blank (8G22019-BLK2)				Prepared: 07/02/08 Analyzed: 07/23/08						
Aluminum	<3.47E1	3.47E1	ug/g wet							
Arsenic	<8.43E1	8.43E1	"							
Barium	<3.31E0	3.31E0	"							
Calcium	<1.29E2	1.29E2	"							
Chromium	<2.89E0	2.89E0	"							
Iron	<8.82E1	8.82E1	"							
Potassium	<8.19E1	8.19E1	"							
Magnesium	<2.73E1	2.73E1	"							
Manganese	<1.03E0	1.03E0	"							
Nickel	<7.10E0	7.10E0	"							
Lead	<2.74E1	2.74E1	"							
Sodium	<9.25E2	9.25E2	"							
LCS (8G22019-BS1)				Prepared: 07/07/08 Analyzed: 07/23/08						
Aluminum	4.66E0	1.39E-1	ug/g wet	5.00E0		93.2	80-120			
Arsenic	4.81E0	3.39E-1	"	5.00E0		96.2	80-120			
Barium	5.24E0	1.33E-2	"	5.00E0		105	80-120			
Calcium	5.14E0	5.18E-1	"	5.00E0		103	80-120			
Chromium	5.26E0	1.16E-2	"	5.00E0		105	80-120			
Iron	5.16E0	3.54E-1	"	5.00E0		103	80-120			
Potassium	5.13E1	3.29E-1	"	5.00E1		103	80-120			
Magnesium	4.71E0	1.10E-1	"	5.00E0		94.2	80-120			
Manganese	5.11E0	4.15E-3	"	5.00E0		102	80-120			
Nickel	5.01E0	2.85E-2	"	5.00E0		100	80-120			
Lead	5.01E0	1.10E-1	"	5.00E0		100	80-120			
Sodium	5.69E0	3.71E0	"	5.00E0		114	80-120			

Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G22019 - ASTM D 5198 (ICP/ICPMS)										
LCS (8G22019-BS2)				Prepared: 07/02/08 Analyzed: 07/23/08						
Aluminum	4.68E0	1.40E-1	ug/g wet	5.00E0		93.5	80-120			
Arsenic	4.84E0	3.41E-1	"	5.00E0		96.8	80-120			
Barium	5.16E0	1.34E-2	"	5.00E0		103	80-120			
Calcium	5.08E0	5.21E-1	"	5.00E0		102	80-120			
Chromium	5.30E0	1.17E-2	"	5.00E0		106	80-120			
Iron	5.17E0	3.56E-1	"	5.00E0		103	80-120			
Potassium	5.08E1	3.31E-1	"	5.00E1		102	80-120			
Magnesium	4.70E0	1.10E-1	"	5.00E0		94.0	80-120			
Manganese	5.14E0	4.17E-3	"	5.00E0		103	80-120			
Nickel	5.00E0	2.87E-2	"	5.00E0		100	80-120			
Lead	4.98E0	1.11E-1	"	5.00E0		99.7	80-120			
Sodium	5.55E0	3.73E0	"	5.00E0		111	80-120			
Duplicate (8G22019-DUP1)		**Source: 0803017-70**		Prepared: 07/07/08 Analyzed: 07/23/08						
Aluminum	5.36E3	3.32E1	ug/g dry		6.35E3			16.9	35	
Arsenic	<8.06E1	8.06E1	"		ND				35	
Barium	4.83E1	3.16E0	"		5.26E1			8.58	35	
Calcium	7.94E3	1.23E2	"		8.17E3			2.89	35	
Chromium	8.43E0	2.76E0	"		8.66E0			2.59	35	
Iron	9.27E3	8.43E1	"		1.09E4			16.5	35	
Potassium	1.44E3	7.82E1	"		1.50E3			4.29	35	
Magnesium	3.82E3	2.61E1	"		4.25E3			10.8	35	
Manganese	2.36E2	9.87E-1	"		2.61E2			10.1	35	
Nickel	8.41E0	6.78E0	"		8.80E0			4.48	35	
Lead	<2.62E1	2.62E1	"		ND				35	
Sodium	<8.84E2	8.84E2	"		ND				35	
Duplicate (8G22019-DUP2)		**Source: 0803017-71**		Prepared: 07/02/08 Analyzed: 07/23/08						
Aluminum	5.74E3	3.97E1	ug/g dry		6.18E3			7.39	35	
Arsenic	<9.64E1	9.64E1	"		ND				35	
Barium	5.85E1	3.78E0	"		7.45E1			24.1	35	
Calcium	7.91E3	1.47E2	"		7.59E3			4.07	35	
Chromium	6.36E0	3.30E0	"		7.79E0			20.2	35	
Iron	1.17E4	1.01E2	"		1.27E4			8.38	35	
Potassium	1.23E3	9.36E1	"		1.29E3			4.66	35	
Magnesium	4.29E3	3.12E1	"		4.55E3			5.84	35	
Manganese	2.47E2	1.18E0	"		2.65E2			7.00	35	
Nickel	<8.12E0	8.12E0	"		8.46E0				35	
Lead	<3.14E1	3.14E1	"		ND				35	
Sodium	<1.06E3	1.06E3	"		ND				35	

Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G22019 - ASTM D 5198 (ICP/ICPMS)										
Post Spike (8G22019-PS1)		**Source: 0803017-70**		Prepared: 07/22/08	Analyzed: 07/23/08					
Aluminum	1.95E4	N/A	µg/L	5.00E2	1.91E4	79.3	75-125			
Arsenic	4.29E2	N/A	"	5.00E2	ND	94.4	75-125			
Barium	4.31E2	N/A	"	2.50E2	1.58E2	109	75-125			
Calcium	2.66E4	N/A	"	5.00E2	2.45E4	415	75-125			
Chromium	1.55E2	N/A	"	1.25E2	2.60E1	103	75-125			
Iron	3.35E4	N/A	"	5.00E2	3.28E4	136	75-125			
Potassium	6.01E3	N/A	"	1.25E3	4.51E3	120	75-125			
Magnesium	1.33E4	N/A	"	5.00E2	1.28E4	103	75-125			
Manganese	1.07E3	N/A	"	2.50E2	7.84E2	115	75-125			
Nickel	5.16E2	N/A	"	5.00E2	2.64E1	98	75-125			
Lead	4.91E2	N/A	"	5.00E2	ND	101	75-125			
Sodium	1.08E3	N/A	"	5.00E2	5.44E2	107	75-125			
Post Spike (8G22019-PS2)		**Source: 0803017-71**		Prepared: 07/22/08	Analyzed: 07/23/08					
Aluminum	1.63E4	N/A	µg/L	5.00E2	1.55E4	169	75-125			
Arsenic	4.62E2	N/A	"	5.00E2	ND	104	75-125			
Barium	4.54E2	N/A	"	2.50E2	1.87E2	107	75-125			
Calcium	2.03E4	N/A	"	5.00E2	1.90E4	251	75-125			
Chromium	1.51E2	N/A	"	1.25E2	1.95E1	105	75-125			
Iron	3.32E4	N/A	"	5.00E2	3.20E4	250	75-125			
Potassium	4.62E3	N/A	"	1.25E3	3.23E3	111	75-125			
Magnesium	1.22E4	N/A	"	5.00E2	1.14E4	163	75-125			
Manganese	9.42E2	N/A	"	2.50E2	6.64E2	111	75-125			
Nickel	5.19E2	N/A	"	5.00E2	2.12E1	99.7	75-125			
Lead	5.05E2	N/A	"	5.00E2	ND	104	75-125			
Sodium	9.38E2	N/A	"	5.00E2	4.21E2	103	75-125			

Radionuclides by ICP-MS/Acid Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G15003 - ASTM D 5198 (ICP/ICPMS)										
Blank (8G15003-BLK1)				Prepared & Analyzed: 07/15/08						
Technetium-99	<4.16E-3	4.16E-3	ug/g wet							
Uranium 238	<3.02E-2	3.02E-2	"							
Duplicate (8G15003-DUP1)		Source: 0803017-70		Prepared & Analyzed: 07/15/08						
Technetium-99	<4.00E-3	4.00E-3	ug/g dry		ND				35	
Uranium 238	3.54E-1	2.90E-2	"		3.78E-1			6.59	35	
Batch 8G15004 - ASTM D 5198 (ICP/ICPMS)										
Blank (8G15004-BLK1)				Prepared & Analyzed: 07/15/08						
Technetium-99	<4.18E-3	4.18E-3	ug/g wet							
Uranium 238	<3.04E-2	3.04E-2	"							
Duplicate (8G15004-DUP1)		Source: 0803017-71		Prepared & Analyzed: 07/15/08						
Technetium-99	<4.78E-3	4.78E-3	ug/g dry		ND				35	
Uranium 238	3.60E-1	3.47E-2	"		3.58E-1			0.626	35	
Post Spike (8G15004-PS1)		Source: 0803017-71		Prepared & Analyzed: 07/15/08						
Technetium-99	4.78E-1	N/A	ug/L	5.00E-1	2.30E-3	95.1	75-125			
Uranium 238	1.41E0	N/A	"	5.00E-1	8.98E-1	103	75-125			

Radionuclides by ICP-MS/Water Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8F04004 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8F04004-BLK1)				Prepared: 06/04/08	Analyzed: 06/09/08					
Technetium-99	<2.30E-5	2.30E-5	ug/g wet							
Uranium 238	<5.64E-4	5.64E-4	"							
Blank (8F04004-BLK2)				Prepared: 06/04/08	Analyzed: 06/09/08					
Technetium-99	<2.30E-5	2.30E-5	ug/g wet							
Uranium 238	<5.64E-4	5.64E-4	"							
Duplicate (8F04004-DUP1)		**Source: 0803017-71**		Prepared: 06/04/08	Analyzed: 06/09/08					
Technetium-99	<2.30E-5	2.30E-5	ug/g dry		ND				35	
Uranium 238	8.72E-4	5.64E-4	"		8.23E-4			5.67	35	
Duplicate (8F04004-DUP2)		**Source: 0803017-70**		Prepared: 06/04/08	Analyzed: 06/09/08					
Technetium-99	3.17E-5	2.31E-5	ug/g dry		3.66E-5			14.5	35	
Uranium 238	1.32E-3	5.65E-4	"		1.37E-3			3.73	35	
Post Spike (8F04004-PS1)		**Source: 0803017-71**		Prepared: 06/04/08	Analyzed: 06/09/08					
Technetium-99	4.86E-1	N/A	ug/L	5.00E-1	2.24E-3	96.8	75-125			
Uranium 238	6.69E-1	N/A	"	5.00E-1	1.65E-1	101	75-125			
Post Spike (8F04004-PS2)		**Source: 0803017-70**		Prepared: 06/04/08	Analyzed: 06/09/08					
Technetium-99	4.86E-1	N/A	ug/L	5.00E-1	7.36E-3	95.8	75-125			
Uranium 238	7.76E-1	N/A	"	5.00E-1	2.75E-1	100	75-125			
Batch 8G28009 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8G28009-BLK1)				Prepared & Analyzed: 07/28/08						
Iodine-129	<3.78E-4	3.78E-4	ug/g wet							

Radionuclides by ICP-MS/Water Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G28009 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8G28009-BLK2)				Prepared & Analyzed: 07/28/08						
Iodine-129	<3.78E-4	3.78E-4	ug/g wet							
Duplicate (8G28009-DUP1)		Source: 0803017-70		Prepared & Analyzed: 07/28/08						
Iodine-129	<3.73E-4	3.73E-4	ug/g dry		ND				35	
Duplicate (8G28009-DUP2)		Source: 0803017-71		Prepared & Analyzed: 07/28/08						
Iodine-129	<3.84E-4	3.84E-4	ug/g dry		ND				35	
Post Spike (8G28009-PS1)		Source: 0803017-70		Prepared & Analyzed: 07/28/08						
Iodine-129	5.08E-1	N/A	ug/L	5.00E-1	1.90E-2	97.8	75-125			
Post Spike (8G28009-PS2)		Source: 0803017-71		Prepared & Analyzed: 07/28/08						
Iodine-129	5.26E-1	N/A	ug/L	5.00E-1	1.24E-2	102	75-125			

RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8F02008 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8F02008-BLK1)				Prepared & Analyzed: 06/02/08						
Copper	<4.84E-3	4.84E-3	ug/g wet							
Arsenic	<6.25E-3	6.25E-3	"							
Selenium	<1.10E-2	1.10E-2	"							
Silver	<9.25E-4	9.25E-4	"							
Cadmium	<2.95E-4	2.95E-4	"							
Antimony	<5.40E-4	5.40E-4	"							
Lead	<5.60E-4	5.60E-4	"							
Blank (8F02008-BLK2)				Prepared & Analyzed: 06/02/08						
Copper	<4.84E-3	4.84E-3	ug/g wet							
Arsenic	<6.25E-3	6.25E-3	"							
Selenium	<1.10E-2	1.10E-2	"							
Silver	<9.25E-4	9.25E-4	"							
Cadmium	<2.95E-4	2.95E-4	"							
Antimony	<5.40E-4	5.40E-4	"							
Lead	<5.60E-4	5.60E-4	"							
LCS (8F02008-BS1)				Prepared: 06/02/08 Analyzed: 06/03/08						
Copper	5.16E0	4.84E-1	ug/g wet	4.99E0		103	80-120			
Arsenic	4.86E0	6.25E-1	"	4.99E0		97.2	80-120			
Selenium	4.31E0	1.10E0	"	4.99E0		86.2	80-120			
Silver	4.75E0	9.25E-2	"	4.99E0		95.1	80-120			
Cadmium	4.35E0	2.95E-2	"	4.99E0		87.0	80-120			
Antimony	4.17E0	5.40E-2	"	4.99E0		83.5	80-120			
Lead	4.93E0	5.60E-2	"	4.99E0		98.7	80-120			
LCS (8F02008-BS2)				Prepared: 06/02/08 Analyzed: 06/03/08						
Copper	4.98E0	4.84E-1	ug/g wet	5.00E0		99.7	80-120			
Arsenic	4.80E0	6.25E-1	"	5.00E0		96.1	80-120			
Selenium	4.10E0	1.10E0	"	5.00E0		82.1	80-120			
Silver	4.69E0	9.25E-2	"	5.00E0		93.9	80-120			
Cadmium	4.35E0	2.95E-2	"	5.00E0		87.1	80-120			
Antimony	4.17E0	5.40E-2	"	5.00E0		83.4	80-120			
Lead	4.90E0	5.60E-2	"	5.00E0		98.1	80-120			

RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8F02008 - 1:1 Water Extract (ICP/ICPMS)										
Duplicate (8F02008-DUP1)		**Source: 0803017-71**		Prepared: 06/02/08 Analyzed: 06/03/08						
Copper	<4.84E-3	4.84E-3	ug/g dry		ND				35	
Arsenic	<6.25E-3	6.25E-3	"		ND				35	
Selenium	<1.11E-2	1.11E-2	"		ND				35	
Silver	<9.25E-4	9.25E-4	"		ND				35	
Cadmium	<2.95E-4	2.95E-4	"		ND				35	
Antimony	<5.40E-4	5.40E-4	"		ND				35	
Lead	<5.60E-4	5.60E-4	"		ND				35	
Duplicate (8F02008-DUP2)		**Source: 0803017-70**		Prepared: 06/02/08 Analyzed: 06/03/08						
Copper	<4.86E-3	4.86E-3	ug/g dry		ND				35	
Arsenic	<6.27E-3	6.27E-3	"		ND				35	
Selenium	<1.11E-2	1.11E-2	"		ND				35	
Silver	<9.28E-4	9.28E-4	"		ND				35	
Cadmium	<2.96E-4	2.96E-4	"		ND				35	
Antimony	<5.42E-4	5.42E-4	"		ND				35	
Lead	<5.62E-4	5.62E-4	"		ND				35	
Post Spike (8F02008-PS1)		**Source: 0803017-71**		Prepared & Analyzed: 06/02/08						
Copper	5.11E0	N/A	ug/L	5.00E0	5.15E-1	92	75-125			
Arsenic	6.33E0	N/A	"	5.00E0	1.07E0	105	75-125			
Selenium	5.08E0	N/A	"	5.00E0	1.92E-1	97.8	75-125			
Silver	4.61E0	N/A	"	5.00E0	5.80E-3	92.1	75-125			
Cadmium	4.47E0	N/A	"	5.00E0	3.19E-2	88.7	75-125			
Antimony	4.51E0	N/A	"	5.00E0	5.86E-2	89	75-125			
Lead	4.87E0	N/A	"	5.00E0	2.79E-2	96.9	75-125			
Post Spike (8F02008-PS2)		**Source: 0803017-70**		Prepared & Analyzed: 06/02/08						
Copper	4.91E0	N/A	ug/L	5.00E0	2.09E-1	94.1	75-125			
Arsenic	6.08E0	N/A	"	5.00E0	1.10E0	99.7	75-125			
Selenium	5.10E0	N/A	"	5.00E0	8.47E-1	85.1	75-125			
Silver	4.58E0	N/A	"	5.00E0	8.10E-3	91.4	75-125			
Cadmium	4.52E0	N/A	"	5.00E0	3.16E-2	89.8	75-125			
Antimony	4.46E0	N/A	"	5.00E0	8.38E-2	87.5	75-125			
Lead	4.89E0	N/A	"	5.00E0	1.26E-2	97.5	75-125			

RCRA Metals By PNNL-AGG-415/Acid Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G10005 - ASTM D 5198 (ICP/ICPMS)										
Blank (8G10005-BLK1)				Prepared & Analyzed: 07/10/08						
Copper	<6.02E-1	6.02E-1	ug/g wet							
Selenium	<1.15E0	1.15E0	"							
Cadmium	<4.94E-2	4.94E-2	"							
Antimony	<7.98E-2	7.98E-2	"							
LCS (8G10005-BS1)				Prepared & Analyzed: 07/10/08						
Copper	5.39E0	1.21E-1	ug/g wet	5.00E0		108	80-120			
Selenium	5.22E0	2.31E-1	"	5.00E0		104	80-120			
Cadmium	4.99E0	9.95E-3	"	5.00E0		99.9	80-120			
Antimony	4.83E0	1.61E-2	"	5.00E0		96.5	80-120			
Duplicate (8G10005-DUP1)		**Source: 0803017-70**		Prepared & Analyzed: 07/10/08						
Copper	1.04E1	5.78E-1	ug/g dry		1.13E1			8.67	35	
Selenium	<1.10E0	1.10E0	"		ND				35	
Cadmium	6.75E-2	4.73E-2	"		7.26E-2			7.24	35	
Antimony	<7.66E-2	7.66E-2	"		ND				35	
Post Spike (8G10005-PS1)		**Source: 0803017-70**		Prepared & Analyzed: 07/10/08						
Copper	3.81E1	N/A	ug/L	5.00E0	3.40E1	81.6	75-125			
Selenium	5.48E0	N/A	"	5.00E0	1.92E-1	106	75-125			
Cadmium	4.85E0	N/A	"	5.00E0	2.18E-1	92.7	75-125			
Antimony	4.59E0	N/A	"	5.00E0	9.73E-3	91.6	75-125			
Batch 8G10006 - ASTM D 5198 (ICP/ICPMS)										
Blank (8G10006-BLK1)				Prepared & Analyzed: 07/10/08						
Copper	<6.04E-1	6.04E-1	ug/g wet							
Selenium	<1.15E0	1.15E0	"							
Cadmium	<4.96E-2	4.96E-2	"							
Antimony	<8.01E-2	8.01E-2	"							

RCRA Metals By PNNL-AGG-415/Acid Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G10006 - ASTM D 5198 (ICP/ICPMS)										
LCS (8G10006-BS1)				Prepared: 07/10/08 Analyzed: 07/11/08						
Copper	5.20E0	1.22E-1	ug/g wet	5.00E0		104	80-120			
Selenium	5.07E0	2.33E-1	"	5.00E0		101	80-120			
Cadmium	4.97E0	1.00E-2	"	5.00E0		99.4	80-120			
Antimony	4.81E0	1.62E-2	"	5.00E0		96.2	80-120			
Duplicate (8G10006-DUP1)		**Source: 0803017-71**		Prepared & Analyzed: 07/10/08						
Copper	1.13E1	6.91E-1	ug/g dry		1.21E1			7.36	35	
Selenium	<1.32E0	1.32E0	"		ND				35	
Cadmium	<5.66E-2	5.66E-2	"		6.17E-2				35	
Antimony	<9.16E-2	9.16E-2	"		ND				35	
Post Spike (8G10006-PS1)		**Source: 0803017-71**		Prepared & Analyzed: 07/10/08						
Copper	3.46E1	N/A	ug/L	5.00E0	3.04E1	84	75-125			
Selenium	5.38E0	N/A	"	5.00E0	2.80E-1	102	75-125			
Cadmium	4.79E0	N/A	"	5.00E0	1.55E-1	92.6	75-125			
Antimony	4.66E0	N/A	"	5.00E0	9.90E-3	92.9	75-125			
Batch 8G14002 - ASTM D 5198 (ICP/ICPMS)										
Blank (8G14002-BLK1)				Prepared & Analyzed: 07/14/08						
Mercury	<3.62E-3	3.62E-3	ug/g wet							U
Duplicate (8G14002-DUP1)		**Source: 0803017-70**		Prepared & Analyzed: 07/14/08						
Mercury	4.74E-3	3.47E-3	ug/g dry		3.77E-3			22.9	35	
Post Spike (8G14002-PS1)		**Source: 0803017-70**		Prepared & Analyzed: 07/14/08						
Mercury	8.21E-1	N/A	ug/L	1.00E0	1.13E-2	81	75-125			

RCRA Metals By PNNL-AGG-415/Acid Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G14003 - ASTM D 5198 (ICP/ICPMS)										
Blank (8G14003-BLK1)				Prepared & Analyzed: 07/14/08						
Mercury	<3.63E-3	3.63E-3	ug/g wet							U
Duplicate (8G14003-DUP1)		Source: 0803017-71		Prepared & Analyzed: 07/14/08						
Mercury	4.34E-3	4.16E-3	ug/g dry		4.38E-3			0.969	35	
Post Spike (8G14003-PS1)		Source: 0803017-71		Prepared & Analyzed: 07/14/08						
Mercury	8.63E-1	N/A	ug/L	1.00E0	1.10E-2	85.2	75-125			

Total Alpha Total Beta/Acid Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G15015 - ASTM D 5198 (RadChem)										
Blank (8G15015-BLK1)				Prepared & Analyzed: 07/15/08						
Gross Beta	<3.97E0	3.97E0	pCi/g wet							
Gross Alpha	<1.66E0	1.66E0	"							
Blank (8G15015-BLK2)				Prepared & Analyzed: 07/15/08						
Gross Beta	<3.97E0	3.97E0	pCi/g wet							
Gross Alpha	<1.66E0	1.66E0	"							
Duplicate (8G15015-DUP1)		**Source: 0803017-70**		Prepared & Analyzed: 07/15/08						
Gross Beta	<1.33E1	1.33E1	pCi/g dry		ND				35	
Gross Alpha	<5.57E0	5.57E0	"		ND				35	
Duplicate (8G15015-DUP2)		**Source: 0803017-71**		Prepared & Analyzed: 07/15/08						
Gross Beta	<1.59E1	1.59E1	pCi/g dry		ND				35	
Gross Alpha	<6.67E0	6.67E0	"		ND				35	

Total Alpha Total Beta/Water Extract - Quality Control

Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8G15016 - 1:1 Water Extract (RadChem)										
Blank (8G15016-BLK1)				Prepared: 07/15/08 Analyzed: 07/16/08						
Gross Beta	<1.36E1	1.36E1	pCi/g wet							
Gross Alpha	<6.92E0	6.92E0	"							
Blank (8G15016-BLK2)				Prepared: 07/15/08 Analyzed: 07/16/08						
Gross Beta	<1.36E1	1.36E1	pCi/g wet							
Gross Alpha	<6.92E0	6.92E0	"							
Duplicate (8G15016-DUP1)		**Source: 0803017-70**		Prepared: 07/15/08 Analyzed: 07/16/08						
Gross Beta	<1.34E1	1.34E1	pCi/g dry		ND				35	
Gross Alpha	<6.83E0	6.83E0	"		ND				35	
Duplicate (8G15016-DUP2)		**Source: 0803017-71**		Prepared: 07/15/08 Analyzed: 07/16/08						
Gross Beta	<1.38E1	1.38E1	pCi/g dry		ND				35	
Gross Alpha	<7.03E0	7.03E0	"		ND				35	

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857/211-E33-242	Depth 20.1-45	Date 5/6/06	Sheet 1 of 10
		Location	Project 200-BP-5 E Unit		

Logged by Michelle Valencia (Print) Michelle Valencia (Sign) | (Print) (Sign)

Reviewed by (Print) (Sign) Date

Lithologic Class. Scheme Folk-Wentworth Procedure Rev

Drilling Contractor

Driller

Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
20.1	G	BITMT2	SM		S- coarse to v. coarse S. trace G + Z. poorly-sorted. max. part. = 5mm. 30% mafic aggregates of Z + S. weak rxn to HCl. S weak rxn to HCl. 2.5Y 4/2 (dark grayish brown).	G = gravel samples in 11 poly bags
25	G	BITMT4	SM		same as above. less aggregates. max part. = 11 mm.	depths not given in intervals, so used depth of upper sample + 1.5, 5 (+ for gravel) 1%
27.5	G	BITMT5	SM		same as above. 95% S, 5% G. max part. = 5mm. no aggregates.	
30	G	BITMT6	SM		same as above. 95% S, 5% G. trace Z. max part. = 4mm.	
32	G	BITMT7	SM		S coarse to v. coarse sand. 95%, 5% G. poorly sorted. max part. = 9mm 40% mafic. 2.5Y 4/2 (dark grayish brown). no rxn to HCl.	
34.8	G	BITMT8	SM		same as above. max part. = 7mm.	
37	G	BITMT9	SM		same as above. max. part. = 8mm.	
40	G	BITMV0	SM		GS - gravelly sand. 85% coarse to v. coarse sand 15% G. mod-sorted. max. part. = 8mm. 50% mafic. 2.5Y 4/2 (dark grayish brown). weak rxn to HCl.	
42.5	G	BITMV1	SM		S- coarse to v. coarse sand. 95% S, 5% G. trace Z. poorly sorted. max. part. = 6mm. aggregates w sand + Z. weak rxn to HCl. 20% mafic. S weak rxn to HCl. 2.5Y 4/2 (dk. grayish brown).	
45	G	BITMV2 BITMV3	SM		same as above. max. part. = 15mm. no aggregates. MV3 - same as above. max part. = 4mm. aggregates	BITMV3 duplicate of BITMV2

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

PART II

ESL080016

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Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857/ 299-E33-[illegible] Location	Depth 50 - 72.5 Date 5/[illegible] Project 200 BP-5 E well	Sheet 2 of 10

Logged by Michelle Valera Michelle Valera (Print / Sign) | Drilling Contractor
Reviewed by (Print / Sign) Date | Driller
Lithologic Class. Scheme Folk - Wentworth Procedure Rev | Drill Method

DEPTH (ft.)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics	COMMENTS
50	G	BITMV4	SM		S-coarse to v. coarse sand. well sorted. max. part. = v. coarse sand. 20% mafic. 2.5Y 4/2 (dark grayish brown).	
52.5	G	BITMV5	SM		Same as above.	
55	G	BITMV6	SM		S-coarse to v. coarse sand. trace gravel. mod-sorted. 40% mafic. 2.5Y 4/2 (dark grayish brown). no rxn to HCl.	
57.5	G	BITMV7	SM		S-coarse to v. coarse sand 95%, 5% G. poorly sorted. 30% mafic. max. part. = 12mm. 2.5Y 4/2 (dk. grayish brown). weak rxn to HCl	
60	G	BITMV8	SM		same as above. max. part. = 6mm	
62.5	G	BITMV9	SM		same as above. max. part = 7mm	
65	G	BITMW0	SM		gS-gravelly sand. 85% coarse to v. coarse sand 15% G. poorly sorted. max. part. = 18mm. 40% mafic. 2.5Y 4/2 (dark grayish brown). weak rxn to HCl. G-mafic.	
67.5	G	BITMW1	SM		gS gravelly sand. 80% coarse to v. coarse sand, 20% G. poorly sorted max part = 20mm. 60% mafic. 2.5Y 4/2 (dark grayish brown) weak rxn to HCl.	
70	G	BITMW2	SM			
72.5	G	BITMW3	SM		(g)S-slightly gravelly sand. 10% G, 90% coarse sand. trace fines. mod-sorted. max. part. = 7mm. aggregates - lamination - weak rxn to HCl 30% mafic S-weak rxn to HCl. 2.5Y 4/2 (dark grayish brown).	
					S-coarse to v. coarse sand. well sorted. max. part. = v. coarse sand. 30% mafic. 2.5Y 4/2 (dark grayish brown) weak rxn to HCl	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

ESL080016

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857/[illegible]	Depth 75.5 - 95	Date 5/[illegible]	Sheet 3 of 10
		Location	Project 200-BP-5 E well		

Logged by Michelle Valenta (Print) Michelle Valeo (Sign) | Drilling Contractor
Reviewed by (Print) (Sign) Date | Driller
Lithologic Class. Scheme Folk - Wentworth | Procedure | Rev | Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics	COMMENTS
75.5	G	BITMW4	SM		S. coarse to v. coarse sand - 95% S, 5% G max = 6mm. mod-sorted. 40% mafic. 2.5Y 4/2 (dark grayish brown). weak rxn to HCl.	
77.5	G	BITMW5	SM		S. med to v. coarse sand - 95% 5% G. trace Z. poorly sorted max = 7mm. 20% mafic, aggregates w/ S + Z. weak rxn to HCl 2.5Y 4/2 (dark grayish brown).	
80	G	BITMW6	SM		S med. to coarse S. trace G + Z poorly sorted. max = 5mm. aggregates w/ S + Z - weak rxn to HCl. S weak rxn to HCl. 2.5Y 4/2 (dk grayish brown).	
82.5	G	BITMW7	SM		S- med to coarse S - 95%, 5% G 20% mafic. poorly sorted. max. = 6mm. 2.5Y 5/2 (grayish brown).	
85	G	BITMW8	SM		S. coarse to v. coarse S. trace G. poorly sorted. max = 5mm. 30% mafic. 2.5Y 4/2 (dark grayish brown) no rxn to HCl.	
87.5	G	BITMW9	SM		same as above. max = 5mm.	
90	G	BITMX0 BITMX1	SM		S. coarse sand. trace G. mod. sorted. max = 5mm. 40% mafic. 2.5Y 4/2 (dark grayish brown). weak rxn to HCl. MX1 - same, max = v. coarse sand.	BITMX1 [illegible] of BITMX0
95	G	BITMX2	SM		same as above. max = 4mm.	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857 [illegible]	Depth 97.5 - 120	Date 5/7/08	Sheet 4 of 10
		Location	Project 200-BP-5 [illegible]		

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | (Print) (Sign)
Reviewed by (Print) (Sign) Date
Lithologic Class. Scheme Folk - Wentworth Procedure Rev
Drilling Contractor
Driller
Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics	COMMENTS
97.5	G	BITMX3	SM		S-med. to v. coarse sand. trace gravel. max = 5mm. poorly sorted. 30% mafic. 2.5Y 4/2 (dark grayish brown). weak rxn to HCl.	
100	G	BITMX4	SM		same as above. max = 5mm.	
102.5	G	BITMX5	SM		same as above. trace fine. max = 7mm. aggregates [illegible] z - strong rxn to HCl. S - weak rxn to HCl.	
105	G	BITMX6	SM		S-med to coarse sand. trace G + z. max = 7mm. poorly sorted. 50% mafic. aggregates w/ S + z - mod. rxn to HCl. S - weak rxn to HCl. 2.5Y 5/2 (grayish brown).	
107.2	G	BITMX7	SM		same as above. max = 3mm.	
109.5	G	BITMX8	SM		same as above ((90%) med [illegible] coarse S).	
112.5	G	BITMX9	SM		S - 95% med. to v. coarse sand. 5% G. poorly sorted max - 5mm. 30% mafic. 2.5Y 5/2 (grayish brown). weak rxn to HCl.	
115	G	BITMY0	SM		S. med. sand 95%, 5% z. poorly-sorted. trace gravel. max = 6mm. 20% mafic. mod. consol. aggregates (S + z) w/ laminations - strong rxn to HCl. S - mod. rxn to HCl 2.5Y 6/2 (lt. brownish gray)	
117	G	BITMY1	M			
120	G	BITMY2	M		(m)S - slightly muddy sand v. fine to fine S - 90%, 10% z. well-sorted. max = med. sand. mod consol. aggregates w/ S + z - strong rxn to HCl. S - mod. rxn to HCl. 2.5Y 5/2 (grayish brown).	
					S - fine to coarse sand. 95%, 5% z. poorly sorted. max = v. coarse sand. coarse S. 40% mafic. aggregates w/ fine sand + z - strong rxn to HCl. S - strong rxn to HCl. 2.5Y 4/2 (dark grayish brown).	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857/299-E33-2A2	Depth 122.5 - 145	Date 5/7/00	Sheet 5 of 10
		Location	Project 200-BP-5 E well		

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | (Print) (Sign)
Reviewed by (Print) (Sign) Date
Lithologic Class. Scheme Folk - Wentworth Procedure Rev
Drilling Contractor
Driller
Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics	COMMENTS
122.5	G	BITMY3	SM		S- coarse to v. coarse sand. trace G+Z. max=4mm. 40% mafic. some mod. consol. aggregates w/ sand & Z 2.5Y 4/2 (dk. grayish brown). weak rxn to HCl. poorly sorted.	
125	G	BITMY4	SM		same as above. max = 4mm. no aggregates.	
127.5	G	BITMY5	SM		S- med. to coarse sand. mod. sorted. max = v. coarse sand. 30% mafic. 2.5Y 5/2 (grayish brown). weak rxn to HCl.	
130	G	BITMY6	SM		S- med. to v. coarse sand trace G. max = 6mm. poorly sorted. 40% mafic. 2.5Y 4/2 (dark grayish brown). weak rxn to HCl.	
132.5	G	BITMY7	SM		same as above. higher % of med sand. G max = 4mm.	
135	G	BITMY8	SM		S- med. to coarse sand. mod-sorted. max = v. coarse sand. 20% mafic. 2.5Y 4/2 (dark grayish brown) mod. rxn to HCl.	
137.2	G	BITMY9	SM		same as above.	
140	G	BITN00	SM		S- med (80%) to v. coarse (20%) sand. trace G max = 4mm. poorly sorted. 20% mafic. 2.5Y 5/2 (grayish brown). weak rxn to HCl.	
143	G	BITN01	SM		gs gravelly sand. 20% G, 80% med to v. coarse sand trace Z. max = 8mm. S- 60% mafic. mod. consol. aggregate w/ S+Z - strong rxn to HCl. S- mod. rxn to HCl. 2.5Y 5/2 (grayish brown).	
145	G	BITN02	SM		S- med to v. coarse sand - 95%, 5% G. max = 11mm. poorly sorted. 70% mafic. 2.5Y 4/2 (dk. grayish brown). weak rxn to HCl.	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857/299-E3-342	Depth 147-162.5	Date 5/7/08	Sheet 6 of 10
		Location	Project 200-BP-5 [illegible]		

Logged by Michelle Valenta (Print) [illegible] (Sign) | (Print) (Sign)
Reviewed by (Print) (Sign) Date
Lithologic Class. Scheme Folk - Wentworth Procedure Rev
Drilling Contractor
Driller
Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics	COMMENTS
147	G	BITN03	SM		S-med (90%) to v. coarse (10%) S. - 90%, 5% G, 5% Z. max = 5mm. poorly sorted 30% mafic. mod consol. aggregates w/ S + Z - strong rxn to HCl. S - mod. rxn to HCl. 2.5Y 6/2 (lt. brownish gray).	
150	G	BITN04	SM		S-med (80%) to v. coarse (20%) S. - 95%, 5% G. max = 3mm. poorly sorted 30% mafic. 2.5Y 6/2 (lt. brownish gray). mod rxn to HCl.	
152.5	G	BITN05	SM		S-med (80%) to v. coarse (20%) S, trace G. max = 10mm. poorly sorted 30% mafic. 2.5Y 5/2 (grayish brown). weak rxn to HCl	
154.5	G	BITN06	SM		Same as above. max = 3mm.	
157.9	G	BITN07	D		S coarse to v. coarse sand, trace G. max = 6mm. poorly sorted. 40% mafic. 2.5Y 5/2 (grayish brown) weak rxn to HCl.	
160	G	BITN08	D		(g)S slightly gravelly sand 90% - med (90%) to (10%) v. coarse sand. 10% G, trace Z. max = 7mm. mod consol. aggregates w/ S + Z - strong rxn to HCl. S - med rxn to HCl. 2.5Y 6/2 (lt. brownish gray).	
162.5	G	BITN09	D		S med (90%) to (10%) coarse sand trace Z + G. max = 4mm. poorly sorted. mod. cemented aggregates - strong rxn to HCl. sand - weak rxn to HCl. 2.5Y 6/2 (lt. brownish gray).	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857 / 24" + 32" Grid	Depth 165-187.5	Date 5/8/08	Sheet 7 of 10
		Location	Project 200-PW-5 L-Unit		

Logged by Michelle Valenta (Print) [signature] (Sign) | Drilling Contractor
Reviewed by (Print) (Sign) Date | Driller
Lithologic Class. Scheme Folk Wentworth Procedure Rev | Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
165	G	BITN10	D		S- f-c to coarse sand- 90%, 5% G, 5% Z, max = 5mm, poorly sorted. Mod. cemented aggregates w/ C+Z - strong rxn to HCl. G- strong rxn to HCl. 2.5Y 6/2 (lt. brownish gray).	
167.5	G	BITN11	D		Same as above. max = 6mm	
170	G	BITN12	SM		S- med to v. coarse sand 95%, 5% G. max = 6mm. poorly sorted. 60% mafic. weak rxn to HCl. 2.5Y 5/2 (grayish brown).	
172.5	G	BITN13	SM		Same as above. max = 10mm	
175	G	BITN14	SM		Same as above. max = 10mm.	
177.5	G	BITN15	SM		(G)S slightly gravelly med to v. coarse sand - 90%, 10% G max = 14mm. poorly sorted. 60% mafic. Mod. rxn to HCl. G- sub. ang to sub round. 2.5Y 5/2 (grayish brown).	
180	G	BITN16	SM		Same as above. max = 11mm.	
182.5	G	BITN17	SM		gS- gravelly sand. 80% med to v. coarse sand, 20% G. max = 11mm. poorly sorted. 40% mafic. small amt of mod. cemented aggregates w/ C+Z. Strong rxn to HCl. G- weak rxn to HCl. 2.5Y 5/2 (grayish brown).	
185	G	BITN18	SM		(G)S slightly gravelly sand. 95% coarse sand 10% G max = 7mm. poorly sorted 40% mafic. G- 90% mafic, sub ang to sub round. weak rxn to HCl 2.5Y 5/2 (grayish brown).	
187.5	G	BITN19	SM		S- med. sand + trace C+Z. Mod. sorted. max = 8mm, G- mafic. Mod cemented aggregates w/ C+Z - strong rxn to HCl. G- [illegible] rxn to HCl 2.5Y 6/2 (lt. brownish gray).	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857 / 299 E33-342	Depth 190 - 210	Date 5/8/00	Sheet 8 of 10
		Location	Project 200-BP-5 E-well		

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | Drilling Contractor
Reviewed by (Print) (Sign) Date | Driller
Lithologic Class. Scheme Folk - Wentworth | Procedure | Rev | Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics	COMMENTS
190	G	BITN37	SM		SG - Sandy gravel. Med sand - 30%, 70% G. poorly sorted max = 26mm G - mafic. Sub-ang to rounded. S - mod. rxn to HCl. 2.5Y 5/2 (grayish brown).	
192.5	G	BITN20	SM		SG - Sandy gravel 80% fine to med. sand, 20% G. poorly sorted. max = 17mm. G - 90% mafic, 10% felsic, sub-ang. to rounded. S - mod. rxn to HCl. 2.5Y 5/2 (grayish brown).	
195	G	BITN21	D		SG - Sandy gravel. 40% G, 60% v. fine to fine sand. v. poorly sorted. max = 18mm. G - ang to rounded, 60% mafic. 2.5Y 6/2 (lt brownish gray). weak rxn to HCl.	
199	G	BITN22	SM		SG - Sandy gravel 50% G, 50% v. fine to fine sand v. poorly sorted max 20mm. G - ang to rounded, 80% mafic. 2.5Y 4/2 (dark grayish brown)	
202.5	G	BITN24	SM		SG - Sandy gravel. 60% G, 40% coarse sand. poorly sorted max = 18mm. G - sub-ang. to rounded, 90% mafic. Weak rxn to HCl. 2.5Y 4/2 (dk grayish brown).	
205	G	BITN25	D		SG - sandy gravel. 30% G. 70% fine to coarse sand. v. poorly sorted max = 22mm. G - mafic, subang. to round. Mod. rxn to HCl. 2.5Y 5/2 (grayish brown).	
207.5	G	BITN26	SM		SG - Sandy gravel. 40% G. 60% fine to coarse sand max = 19mm. G - 90% mafic, sub-ang. to rounded. S - 70% mafic. S - no rxn to HCl. 2.5Y 4/2 (dark grayish brown).	
210	G	BITN27	SM		SG - Sandy gravel. 50% G, 50% fine to coarse sand max = 31mm. v. poorly sorted weak rxn to HCl. 70% mafic. 2.5Y 5/2 (grayish brown).	

W - Wet, M - Moist, SM - Slightly Moist, D - Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857/299-[illegible]-342	Depth 212.5 - 237.5	Date 5/8/08	Sheet 9 of 10
		Location	Project 200-BP-5 [illegible]		

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | Drilling Contractor
Reviewed by (Print) (Sign) Date | Driller
Lithologic Class. Scheme Folk - Wentworth Procedure Rev | Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics	COMMENTS
212.5	G	BITN28	D		SG- sandy gravel. 50% G, 50% fine to med sand. max = 17mm. poorly sorted. G- 90% mafic, sub ang to round. no rxn to HCl. 2.5Y 6/2 (lt. brownish gray)	
215.5	G	BITN29	D		Same as above. max = 19mm.	
					Same as above. max = 30mm.	
220	G	BITN31	D		SG- sandy gravel. 30% G, 70% v. fine to fine sand. max = 26mm. v. poorly sorted. weak rxn to HCl. 2.5Y 6/2 (lt. brownish gray).	
222.5	G	BITN32	D		Same as above. max = 17mm.	
224.5	G	BITN33	D		SG- sandy gravel. 70% G, 30% med sand. max = 20mm. poorly sorted. G- 80% mafic, sub ang to sub round. weak rxn to HCl. 2.5Y 5/2 (grayish brown).	
228	G	BITN34	SM		SG - sandy gravel. 60% G, 40% fine to med sand. max = 24mm. V. poorly sorted. 2.5Y 5/2 (grayish brown). mod. rxn to HCl.	
230	G	BITN35	SM		SG sandy gravel. 60% G, 40% med to v. coarse sand. max = 20mm. poorly sorted. 2.5Y 4/2 (dark grayish brown). weak rxn to HCl. mod. consol. aggregates w/ S, G + Z. trace Z.	
233.6	G	BITN36	SM		SG- sandy gravel. 40% G, 60% med sand. max = 22mm. poorly sorted. weak rxn to HCl. 2.5Y 4/2 (dark grayish brown).	
236	G	BITNT5	SM		SG- sandy gravel. 50% G, 40% med. sand, 10% Z. max = 40mm. V poorly sorted. mod. consol. aggregates w/ S, G + Z - weak rxn to HCl. 2.5Y 4/2 (dark grayish brown).	
237.5	G	BITNT6	SM			

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

PART II

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C5857/299-E33-342	Depth 240 - 242.5	Date 5/2/[illegible]	Sheet 10 of 10
		Location	Project 200-PW-5 [illegible]		

Logged by Michele Valenta (Print) Michele Valenta (Sign) | (Print) (Sign)

Reviewed by (Print) (Sign) Date

Lithologic Class. Scheme Folk - Wentworth Procedure Rev

Drilling Contractor

Driller

Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C	Z	S	G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
~~240~~	~~G~~	~~B1NT7~~	M					MSG- muddy sandy gravel. 50% G, 30% S, 20% Z. max = 60 mm. 2.5Y 4/1 (dark gray). v. poorly sorted.	
~~242.5~~	G	B1NT8	M					SG- sandy gravel. 70% G, 30% med to v. coarse sand. max = 30mm poorly sorted. 2.5Y 4/1 (dark gray).	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

ESL080016

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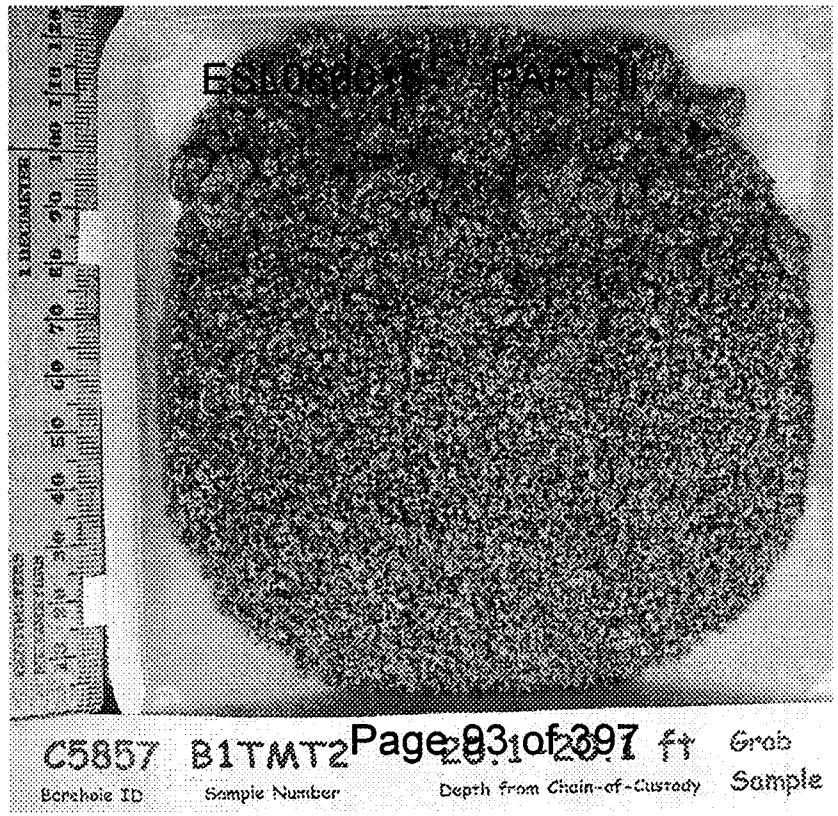
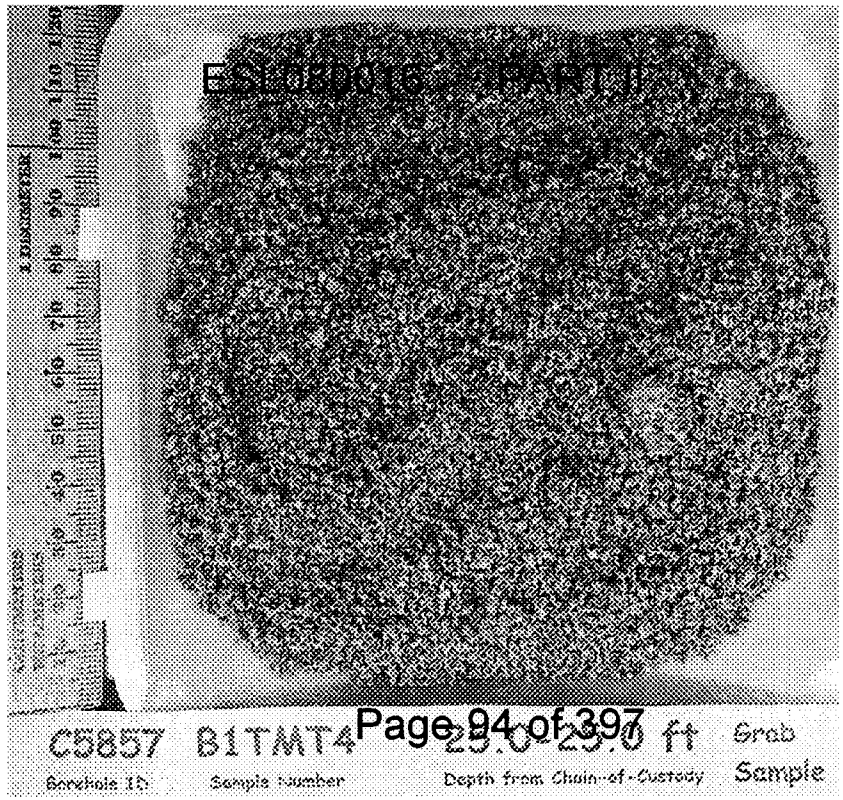
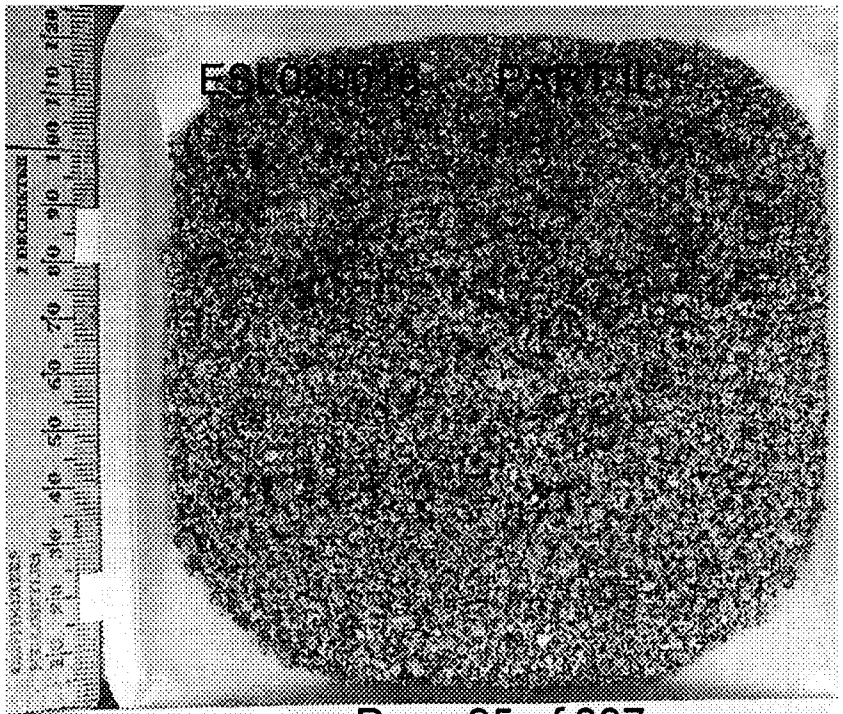

C5857
B1TMT2
Grab
Sample
Borehole ID
Sample Number
Depth from Chain-of-Custody


C5857 B1TMT4 25.0-25.0 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample



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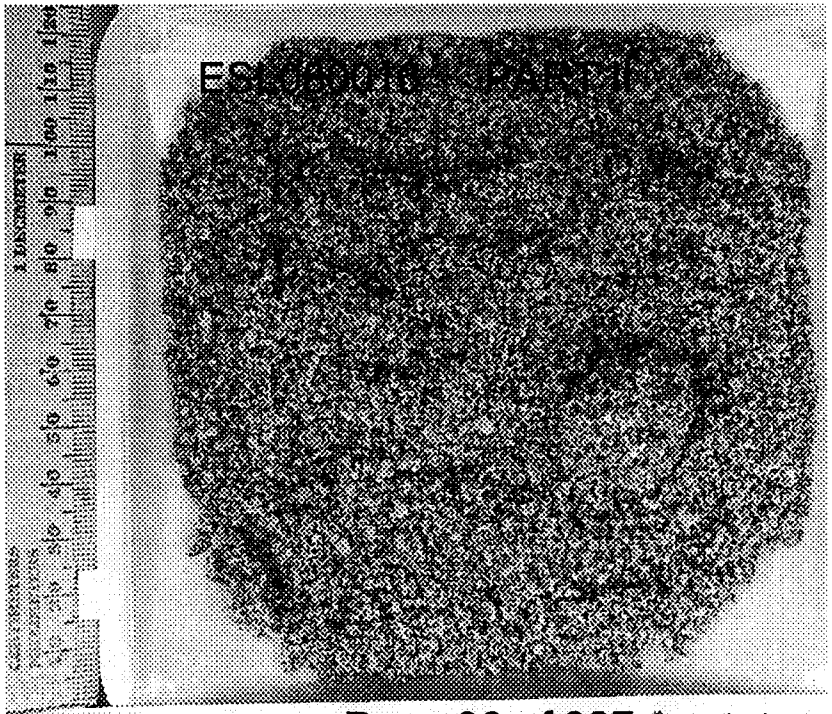
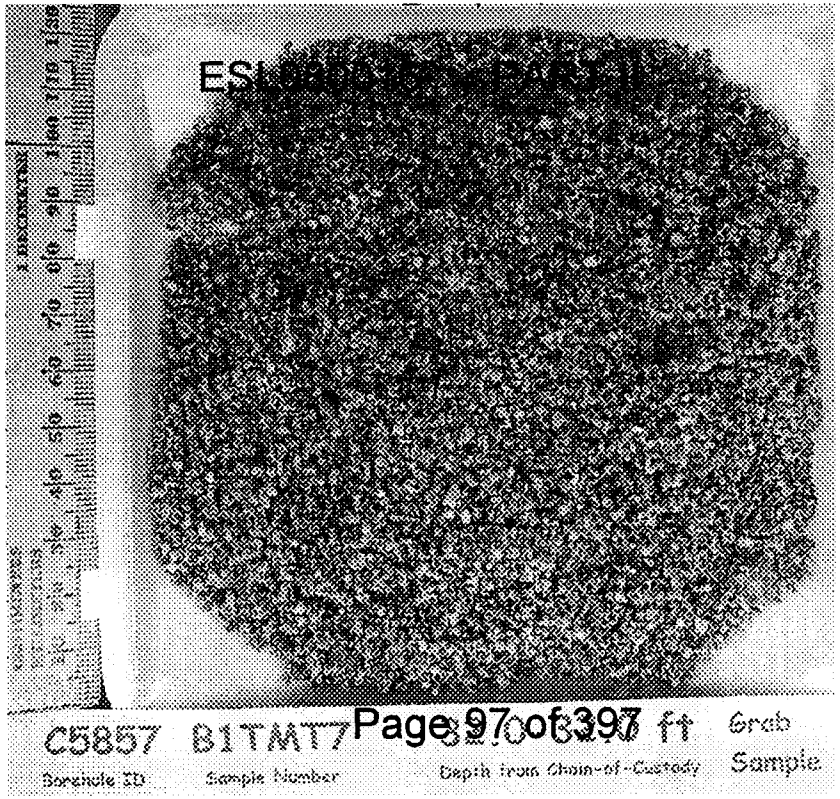


C5857 B1TMT6 [illegible] ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody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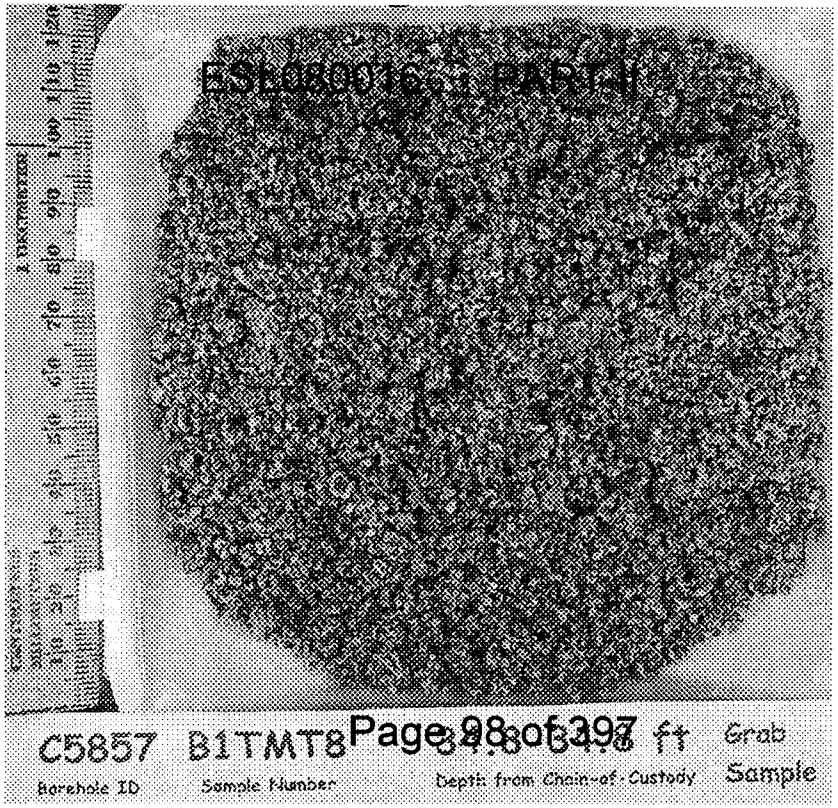
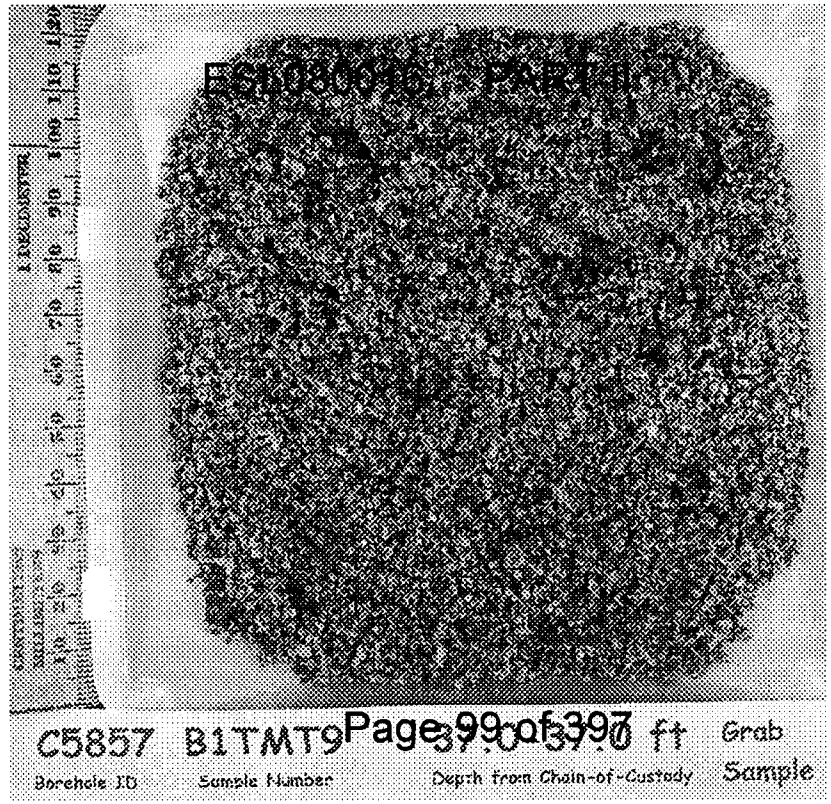
Borehole ID
B1TMT7
Sample Number
Depth from Chain-of-Custody
ft
Grab
Sample


ESL080016 PART II
C5857
B1TMT8
Grab
Sample
Borehole ID
Sample Number
Depth from Chain-of-Custody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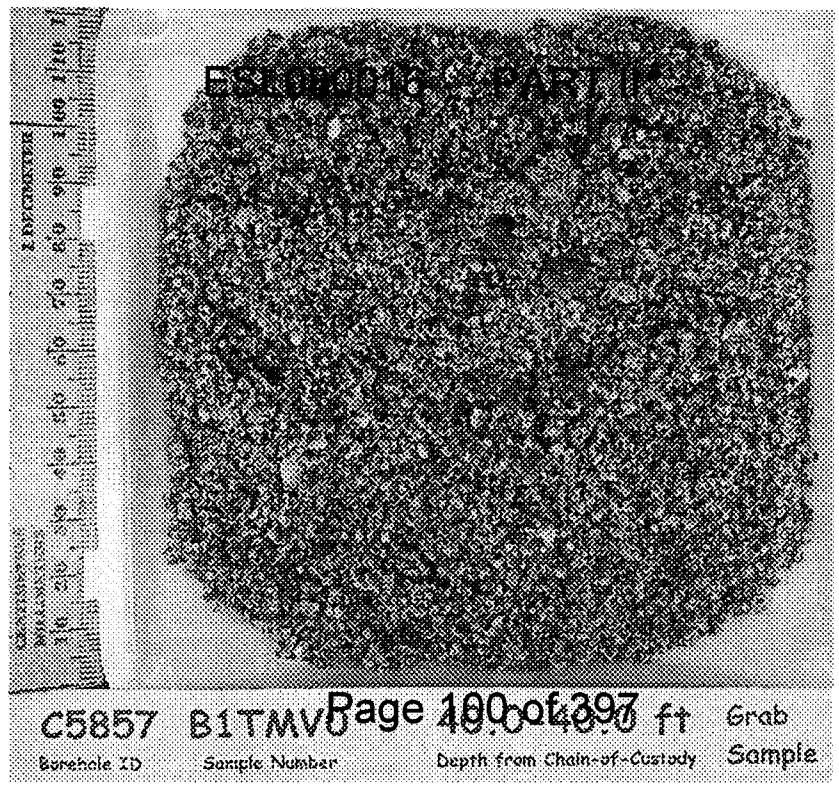
B1TMT9
37.0-37.0 ft
Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample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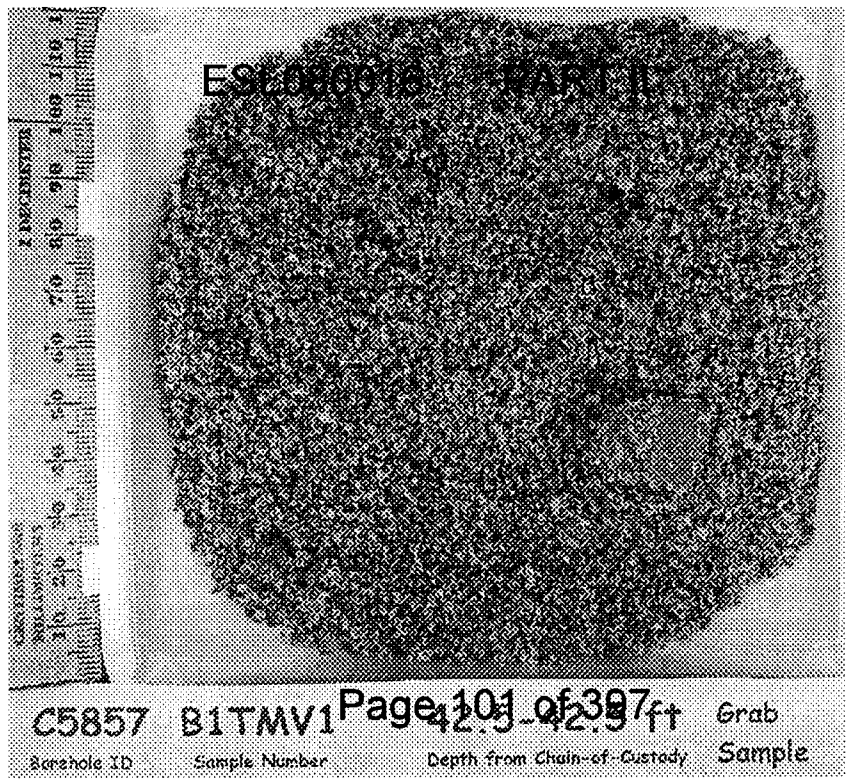
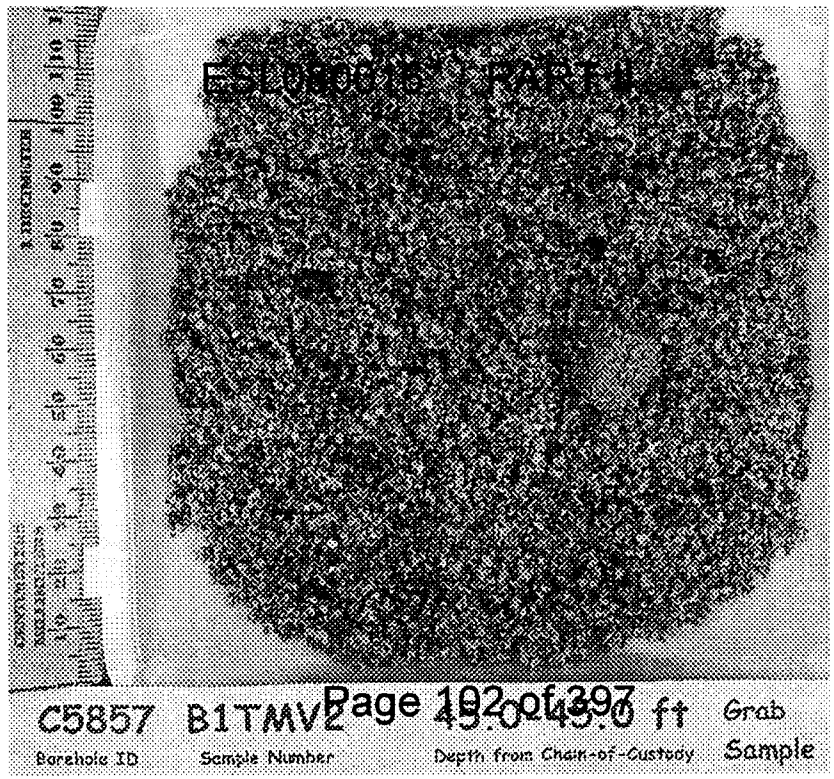
Sample Number
40.0 40.0 ft
Depth from Chain-of-Custody
Grab
Sample



ESL080016 PART II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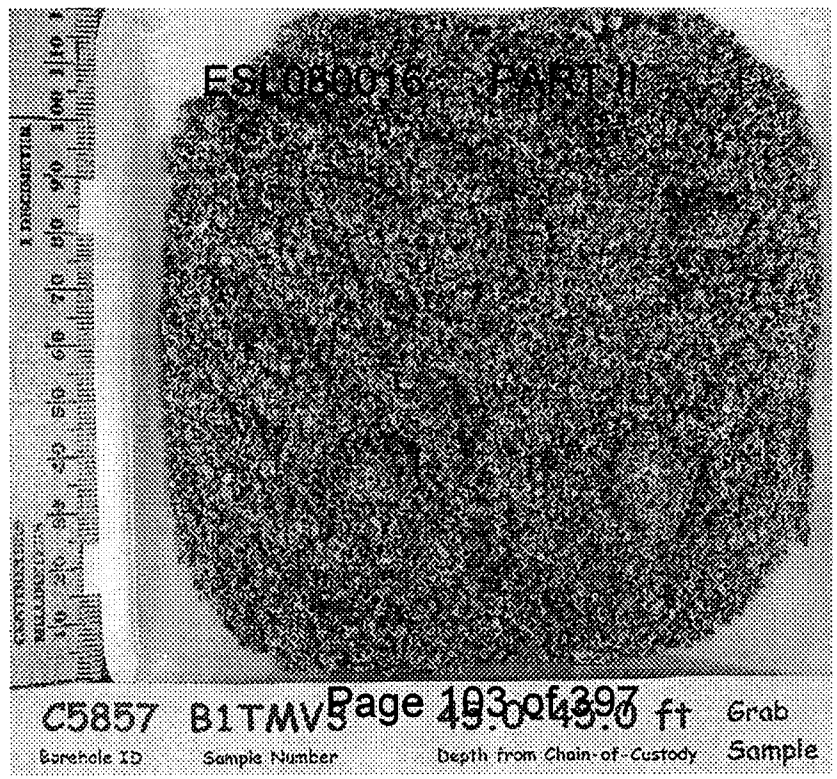
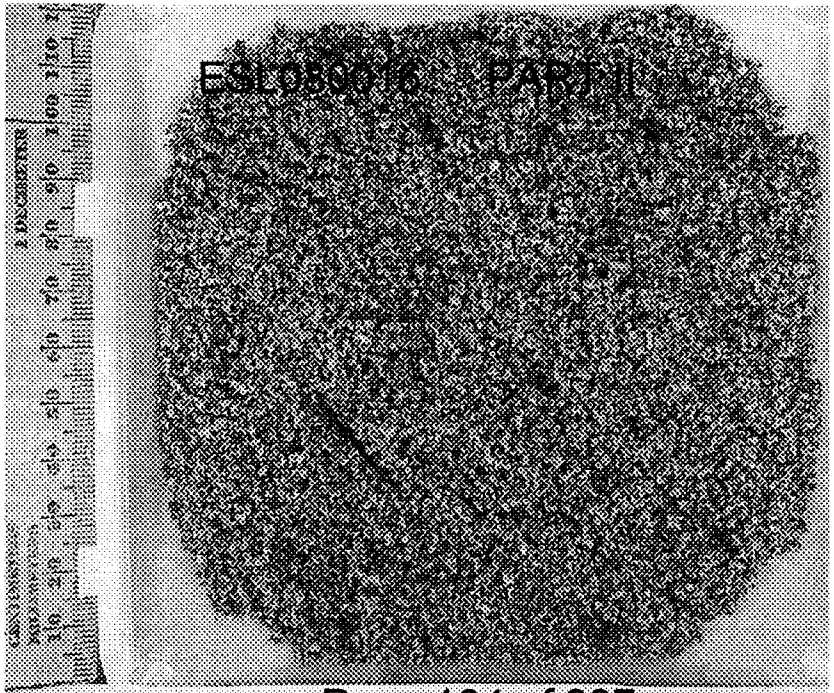
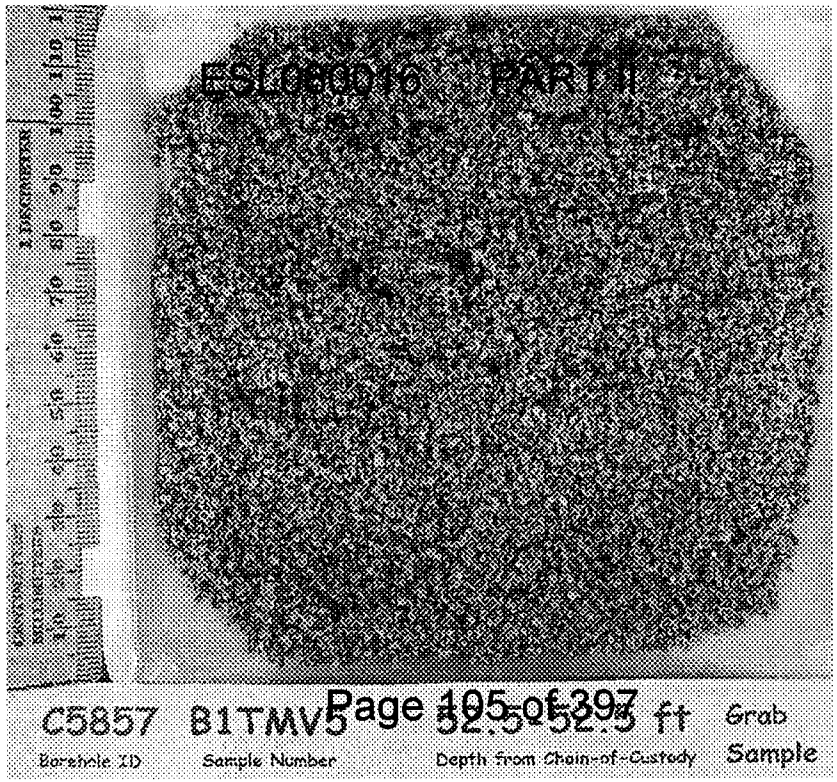
B1TMV2
Sample Number
Depth from Chain-of-Custody
Grab
Sample

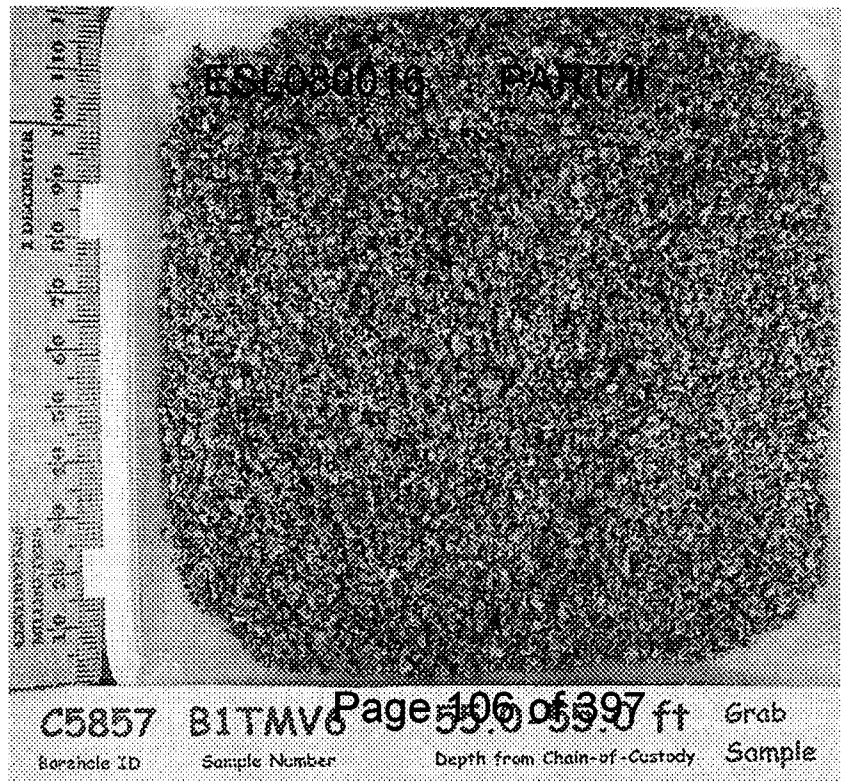

ESL080016 PART II
C5857 B1TMV5 43.0-43.0 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample

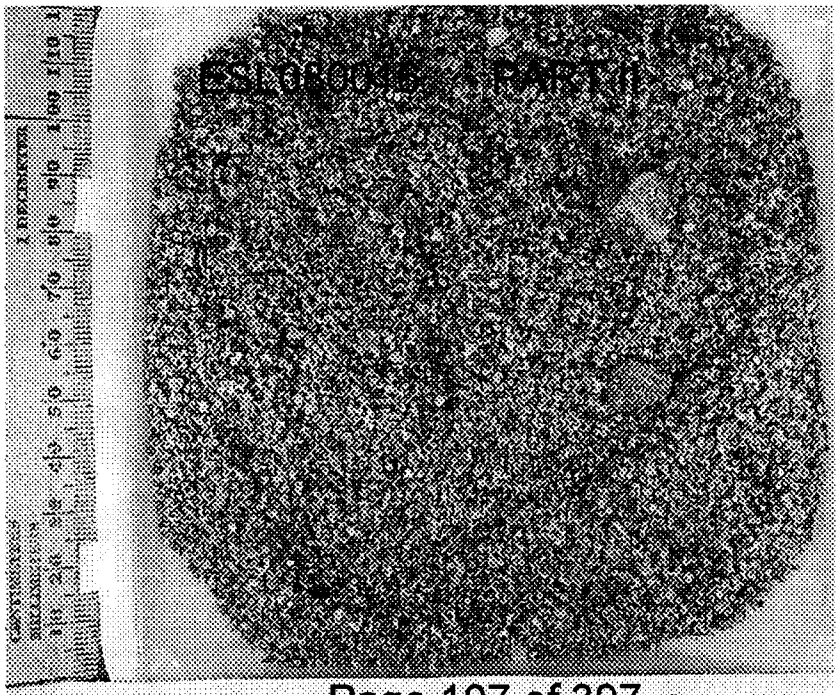


C5857	B1TMV4	39.0-59.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



C5857	B1TMV5	52.5-52.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	


ESL080016 PART II
C5857
B1TMV6
55.0-55.0 ft
Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample



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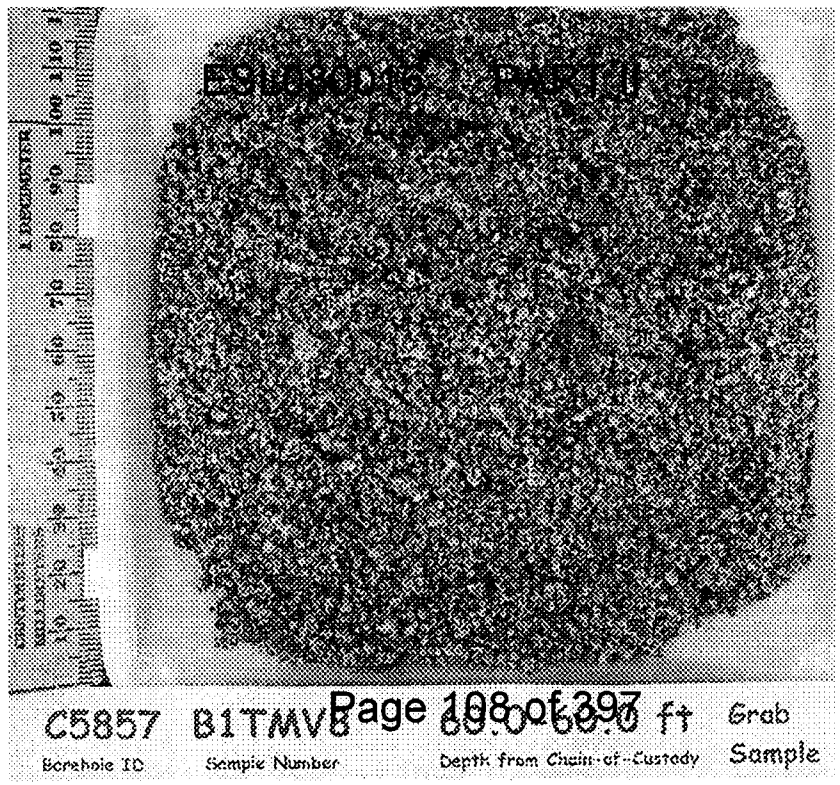
Borehole ID	Sample Number	Depth from Chain-of-Custody	



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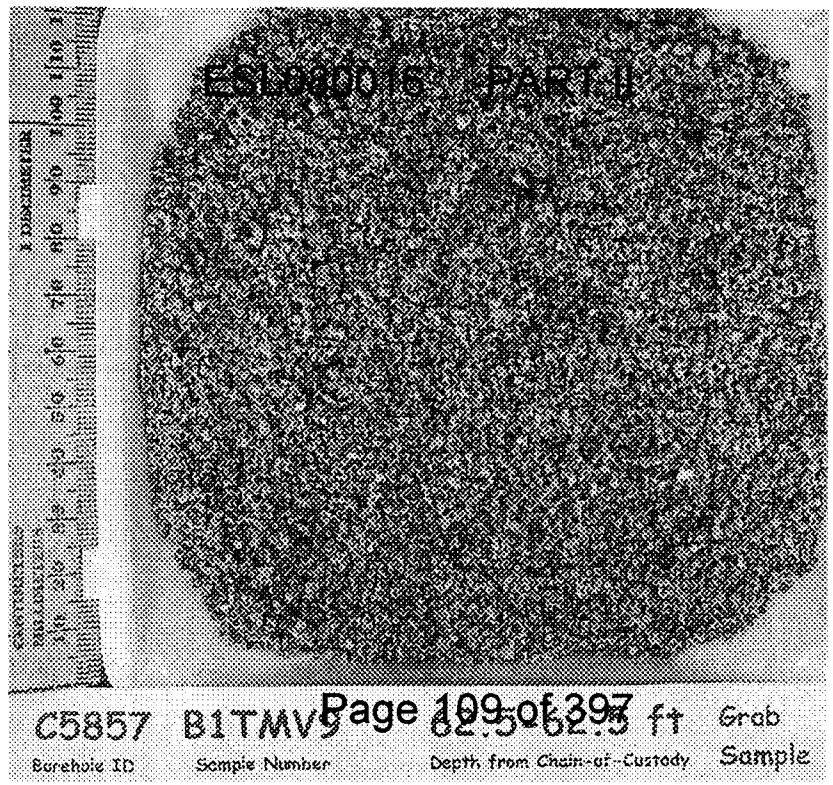
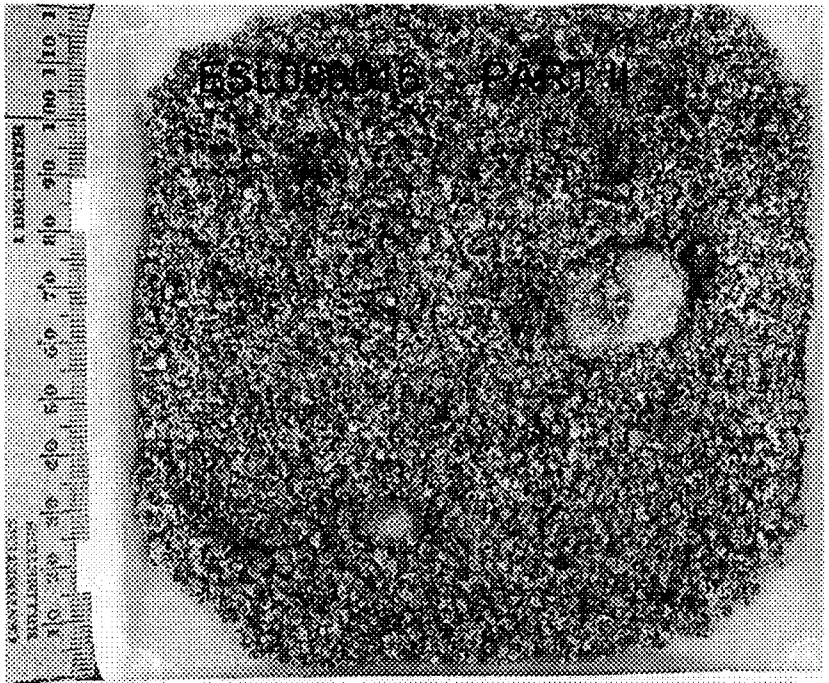

C5857
B1TMV9
62.5-62.5 ft
Grab
Sample
Borehole ID
Sample Number
Depth from Chain-of-Custody



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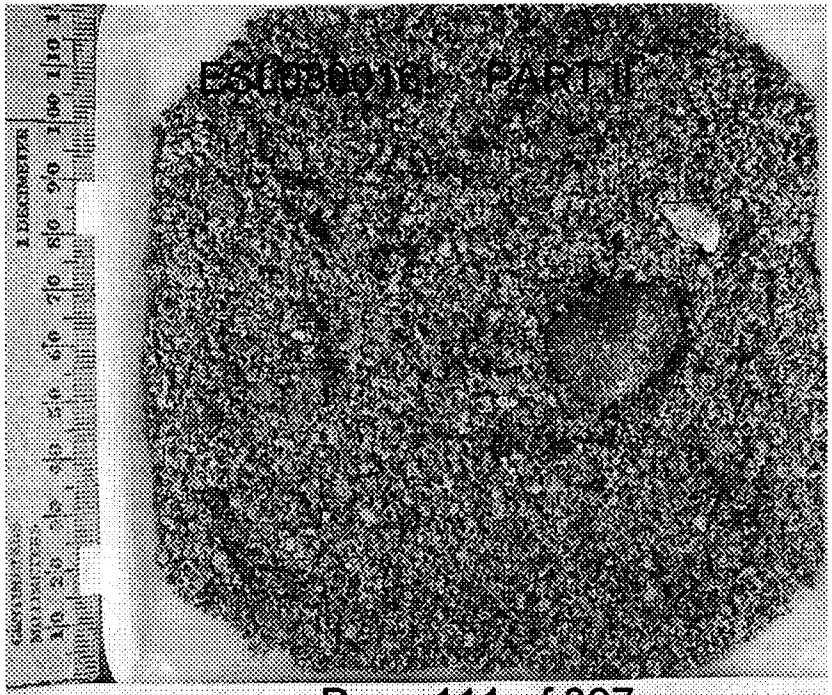
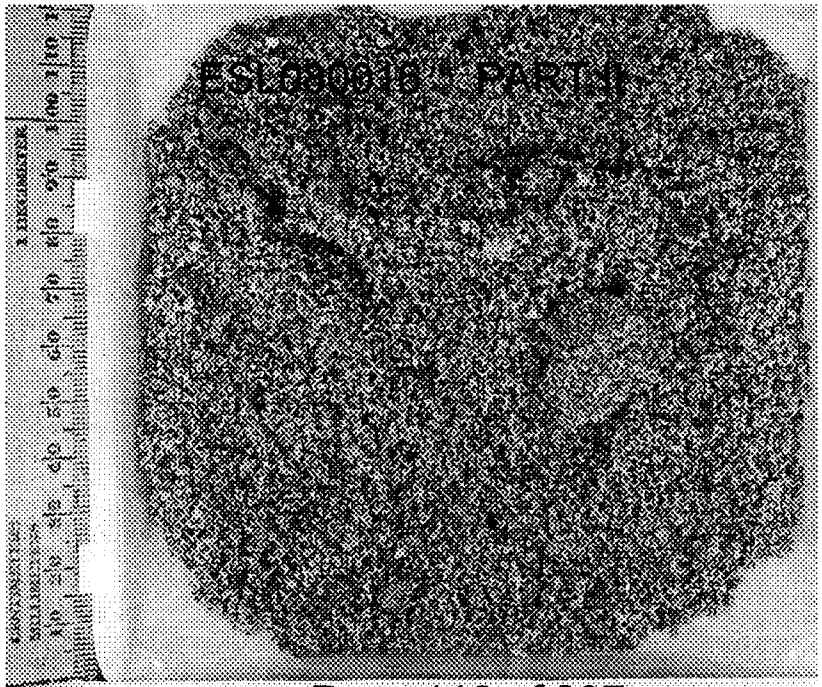


C5857 B1TMW1 67.5-69.5 ft Grab Sample

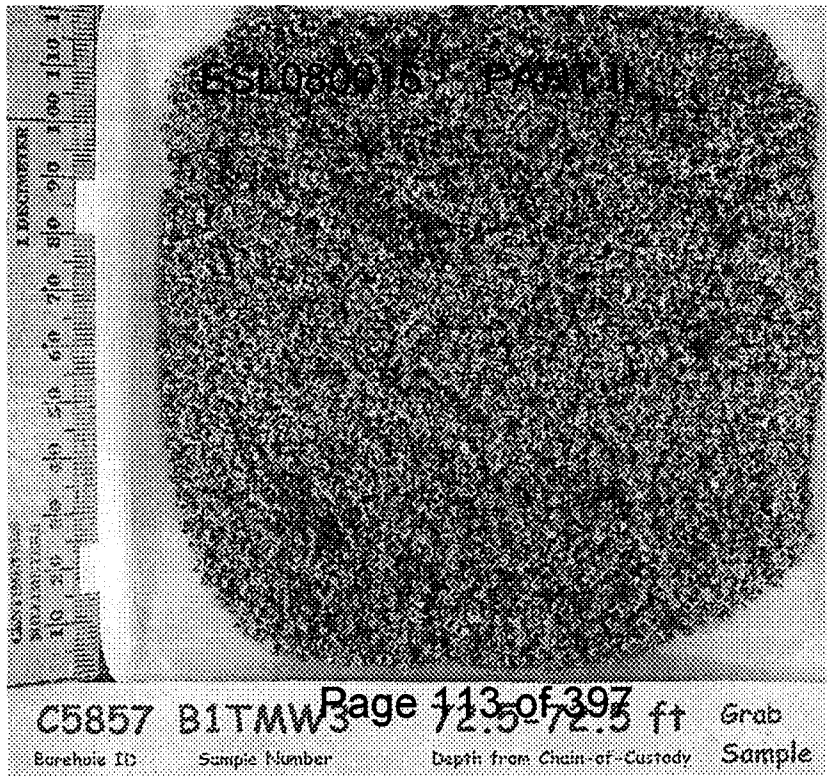
Borehole ID Sample Number Depth from Chain-of-Custody

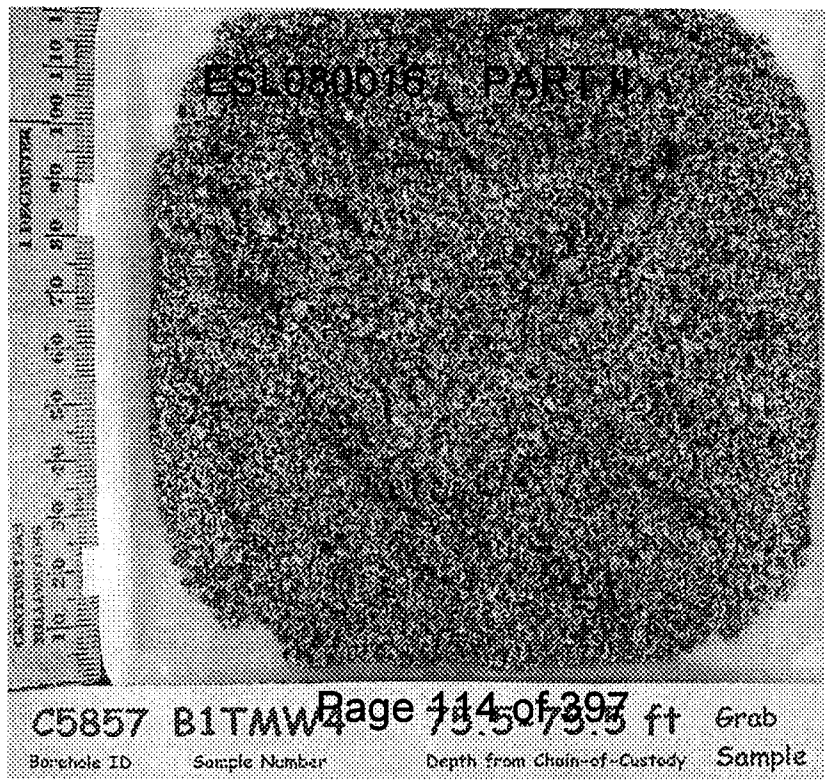


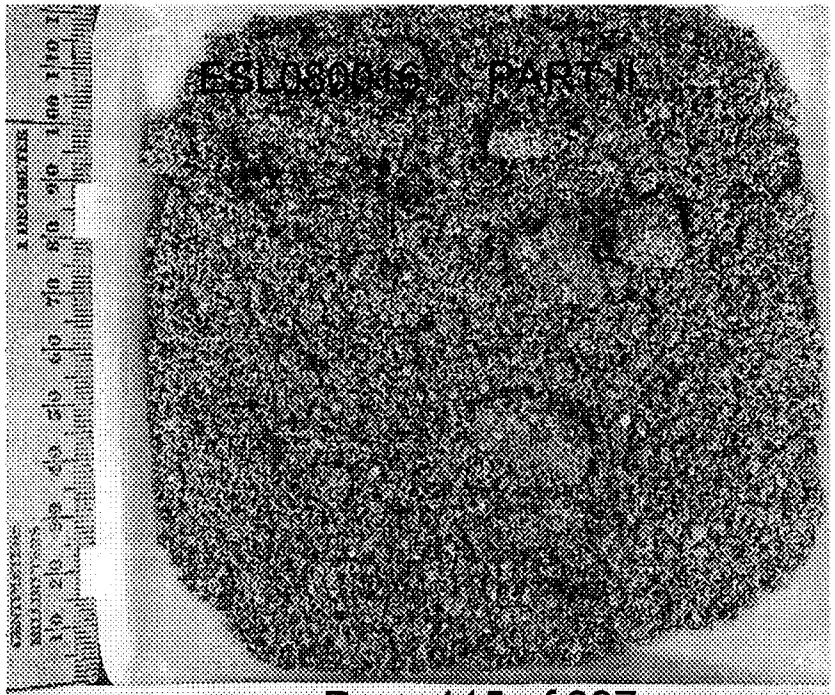
C5857 B1TMW2 70.0-73.0 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody

ESL000010 - PART II


C5857 B1TMW3 72.5-72.5 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample

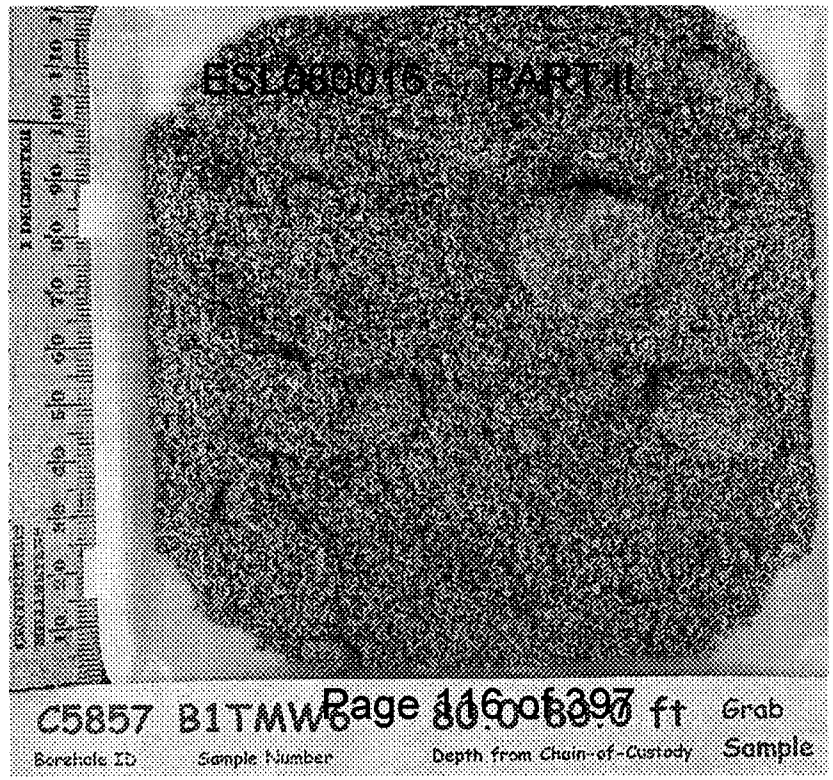

ESL080016 PART II
C5857 B1TMW4 75.5-75.5 ft Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample

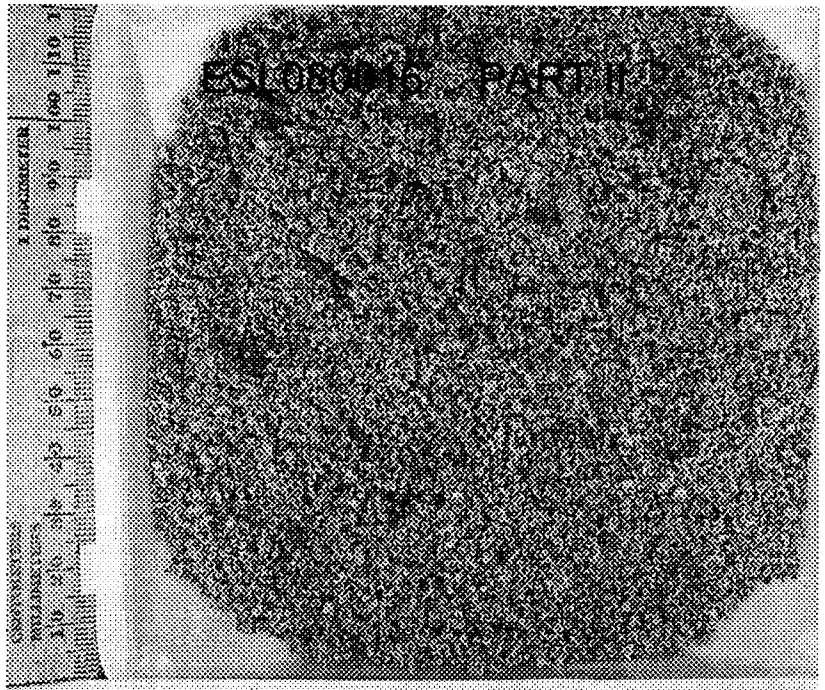


C5857 B1TMW5 77.5-79.5 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

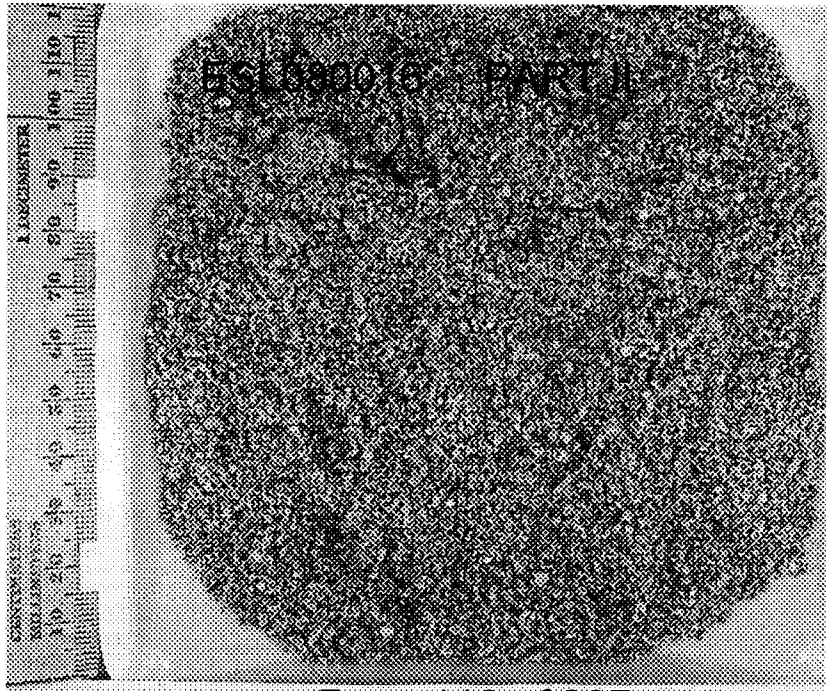
ESL080016 PART II


ESL080016 - PART II
C5857 B1TMW6 80.0-80.0 ft Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample



C5857 B1TMW7 62.5-62.5 ft Grab Sample

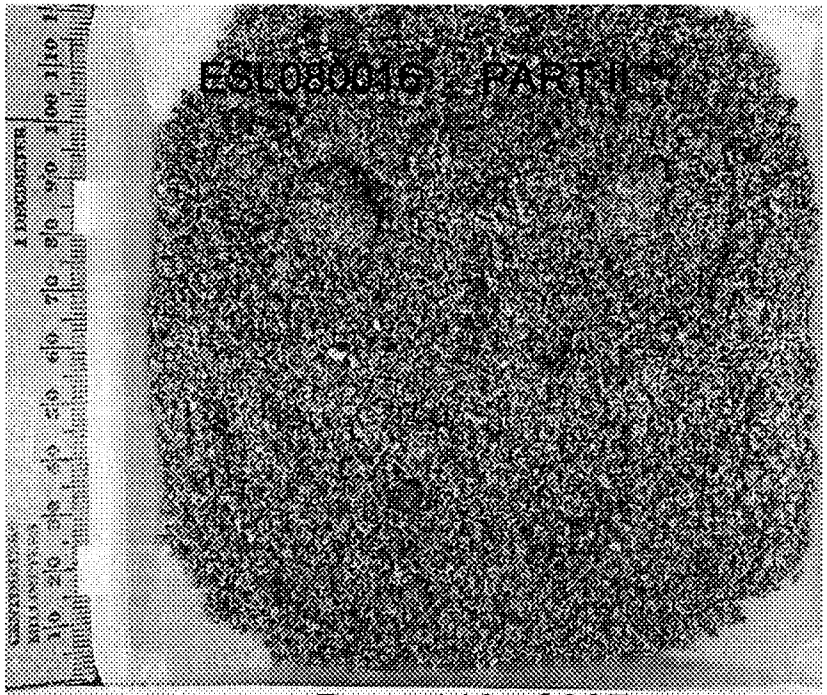
Borehole ID Sample Number Depth from Chain-of-Custody



C5857 B1TMW3 85.0-89.0 ft Grab

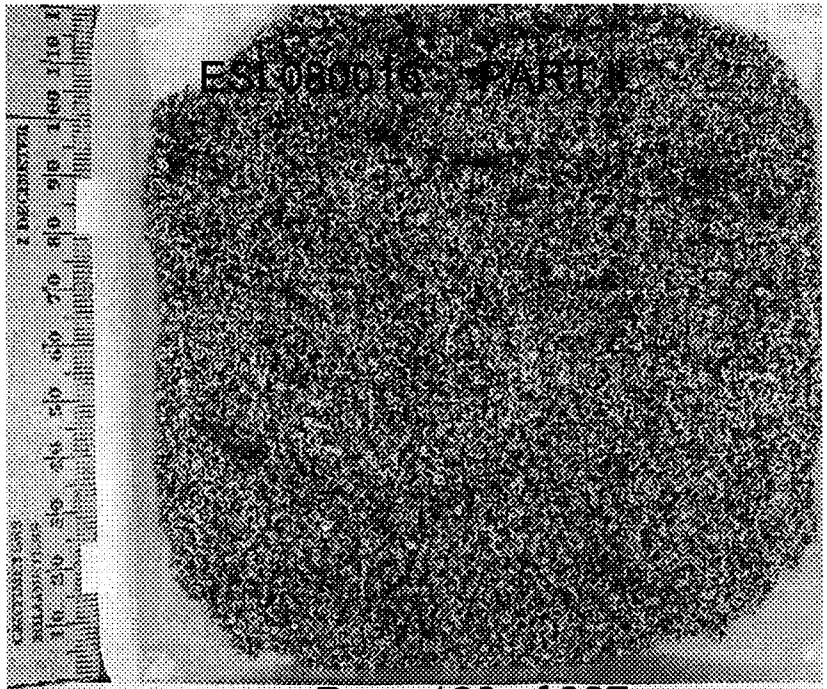
Borehole ID Sample Number Depth from Chain-of-Custody Sample

ESL080016 - PART II



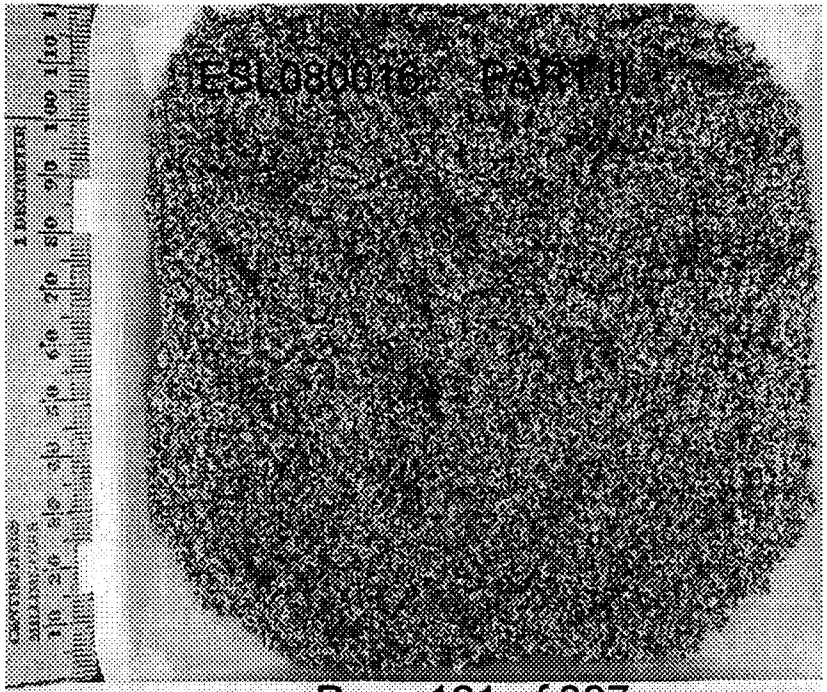
C5857 B1TMW5 87.5-87.5 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

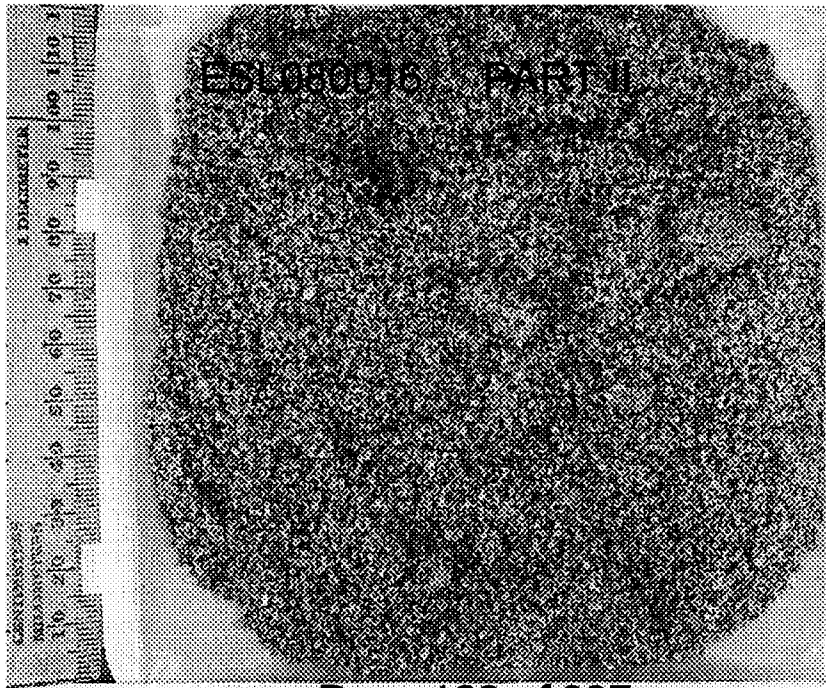


C5857 B1TMX0 96.0-98.0 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody

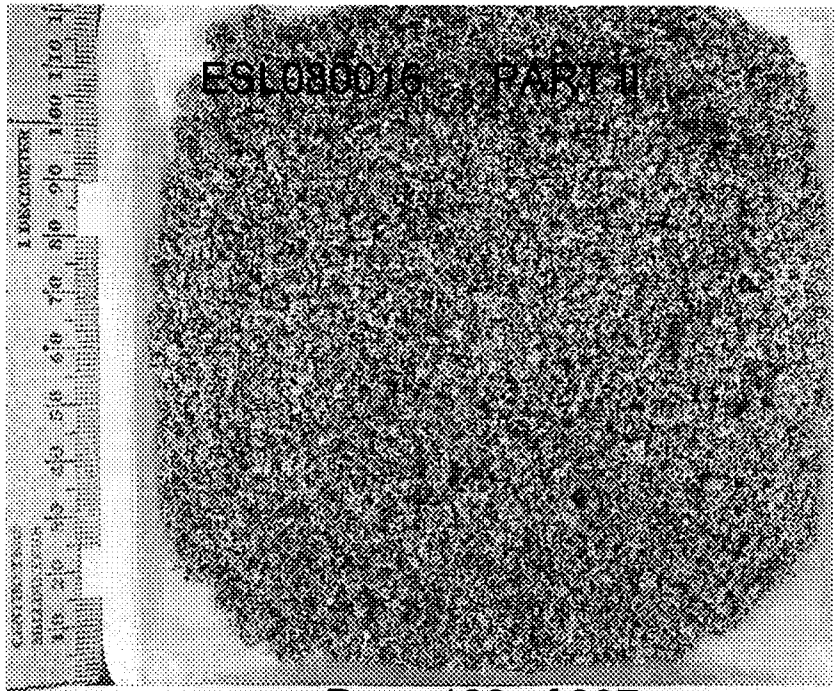


C5857	B1TMX1	90.0-90.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



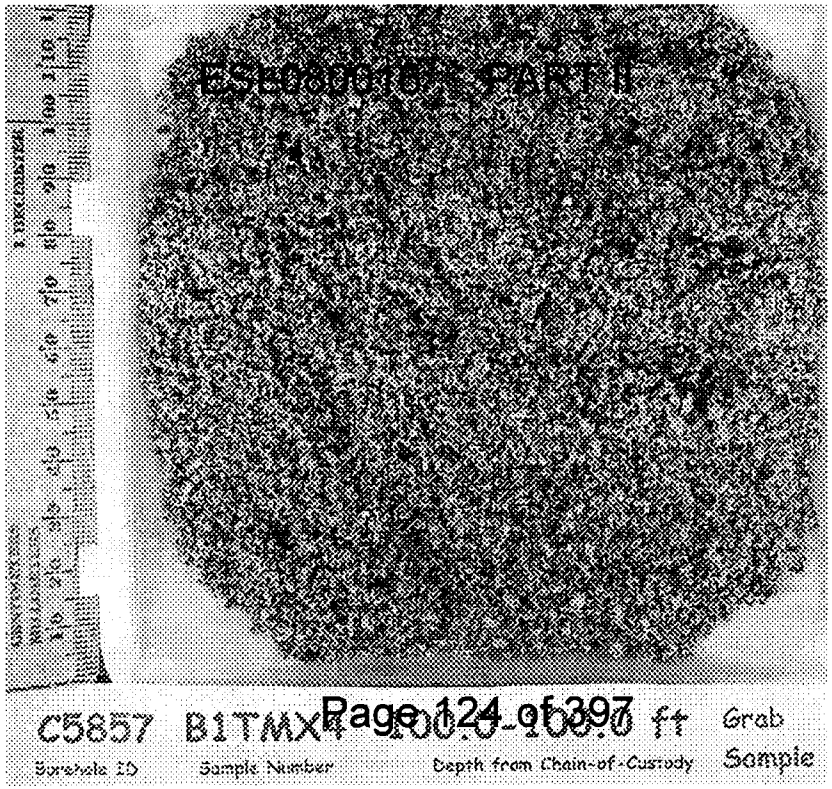
ESL080016 PART II

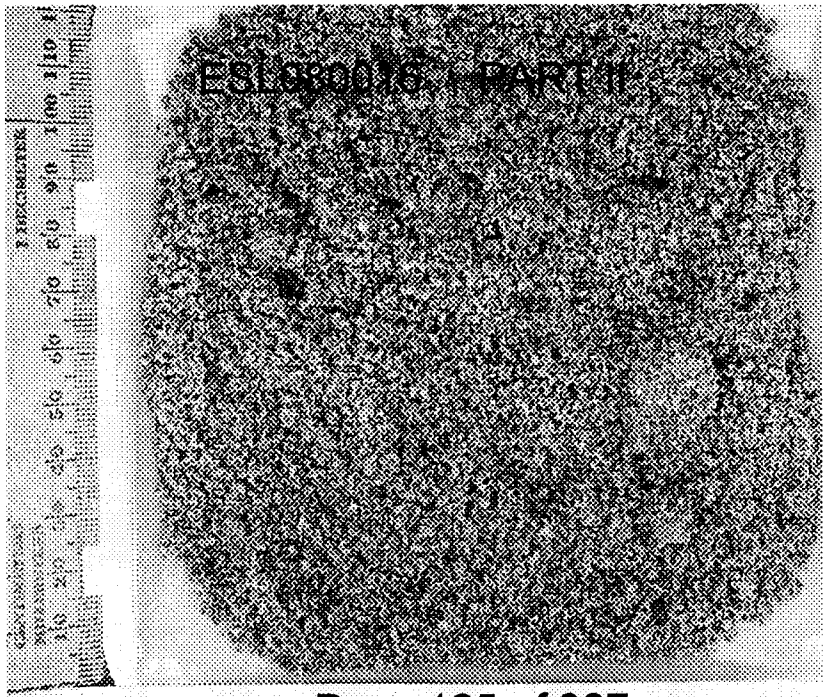
C5857	B1TMX2	95.0-95.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



C5857 B1TMX3 97.5-97.5 ft Grab Sample

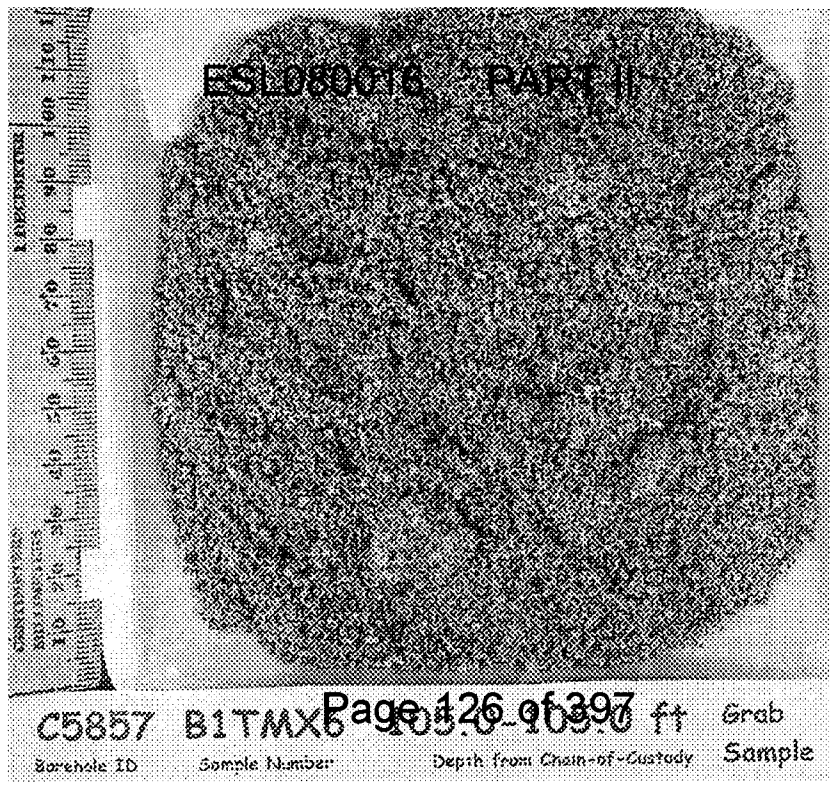
Borehole ID Sample Number Depth from Chain-of-Custody

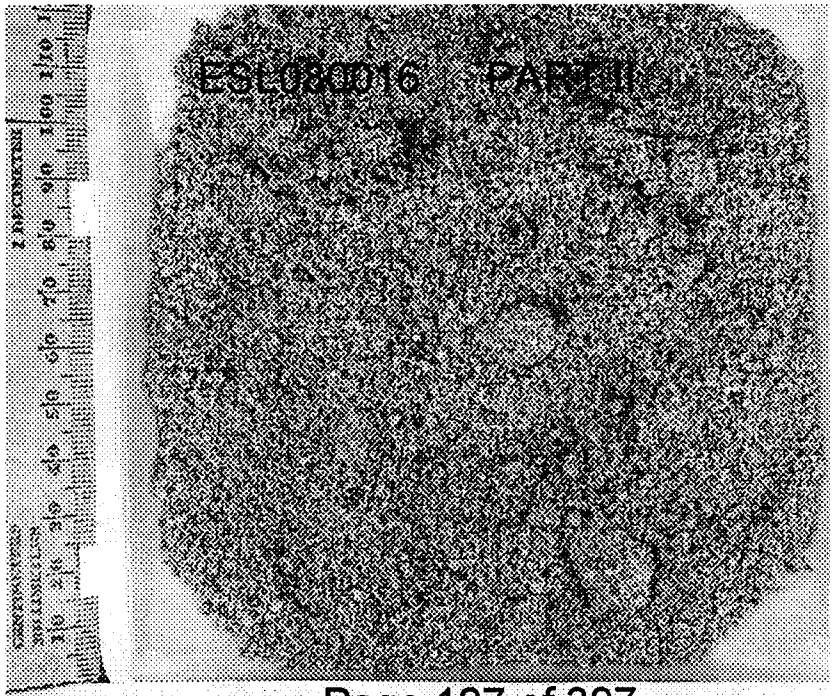

ESL080016 PART II
C5857 B1TMX4 100.0-100.0 ft Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample



C5857	B1TMX5	102.5-102.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

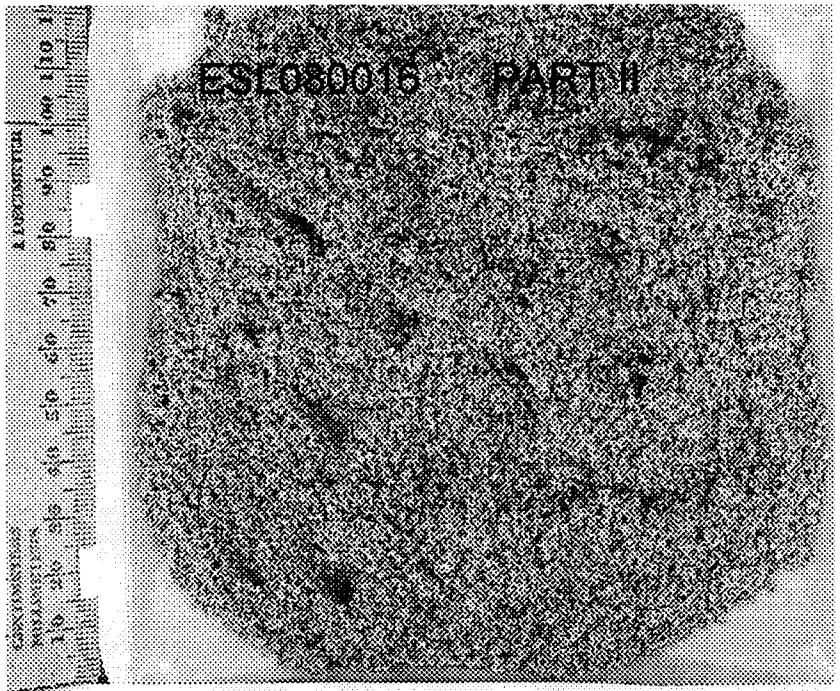
ESL080016 - PART II


C5857 B1TMX6 105.0-105.0 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample



C5857 B1TMX7 107.2-107.2 ft Grab Sample

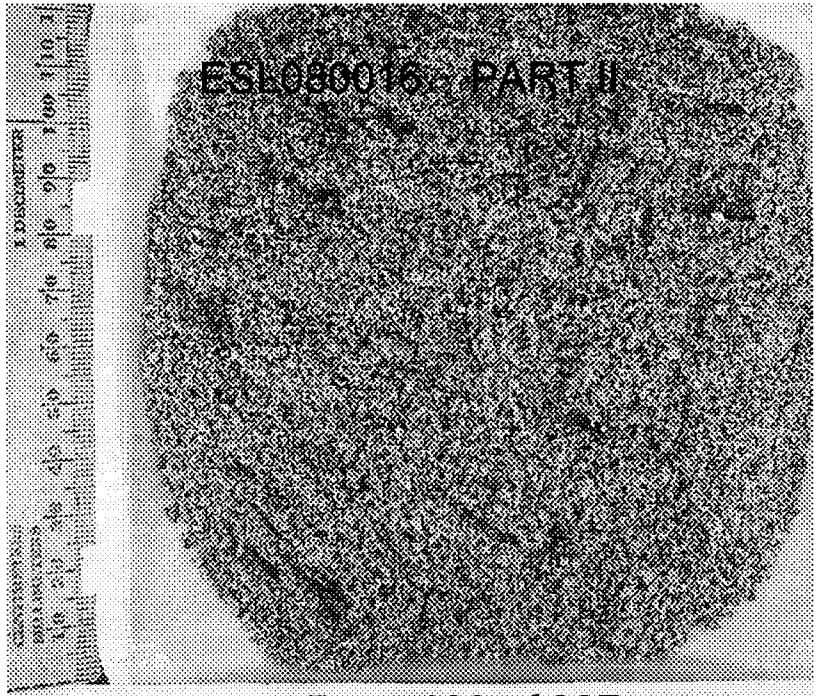
Borehole ID Sample Number Depth from Chain-of-Custody



ESL080015 PART II

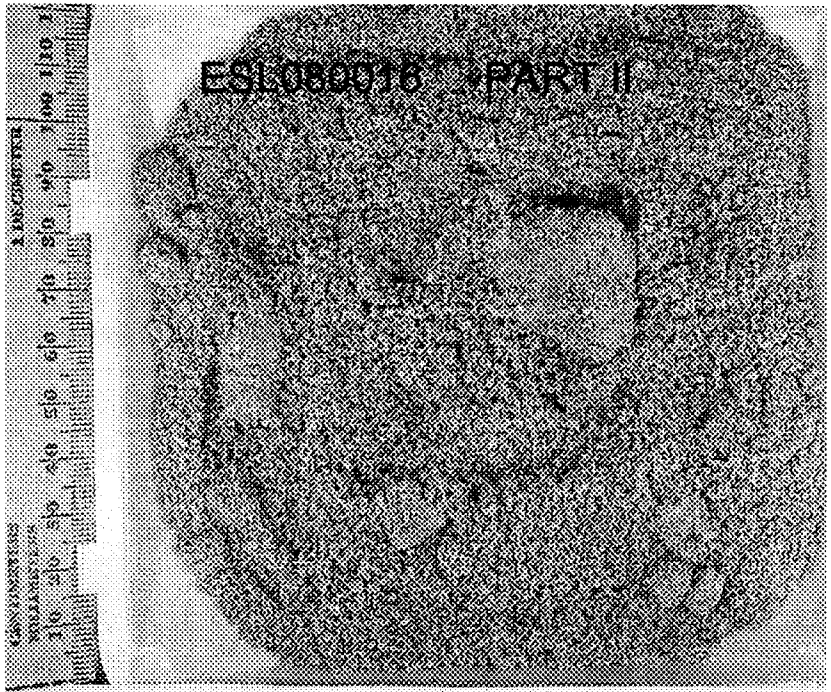
C5857	B1TMX5	109.5-109.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

ESL080016 - PART II

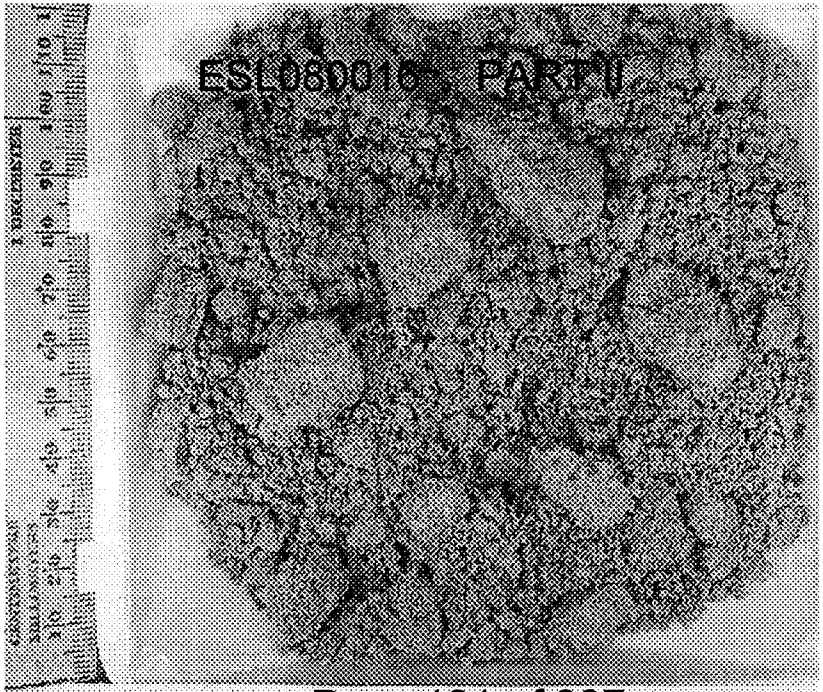


C5857 B1TMX9 112.5-112.5 ft Grab Sample

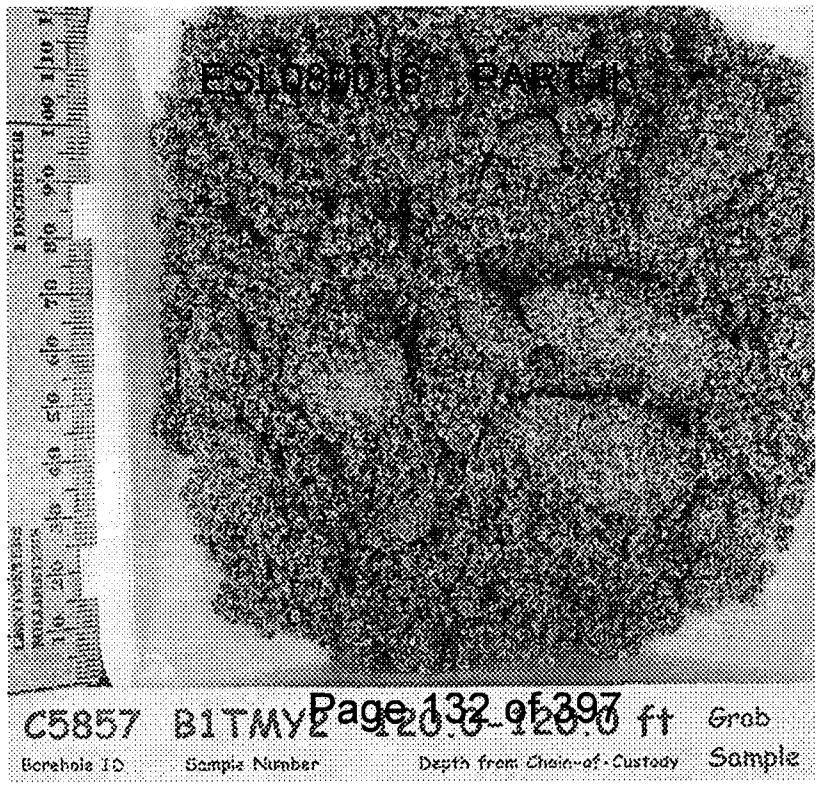
Borehole ID Sample Number Depth from Pad Gent

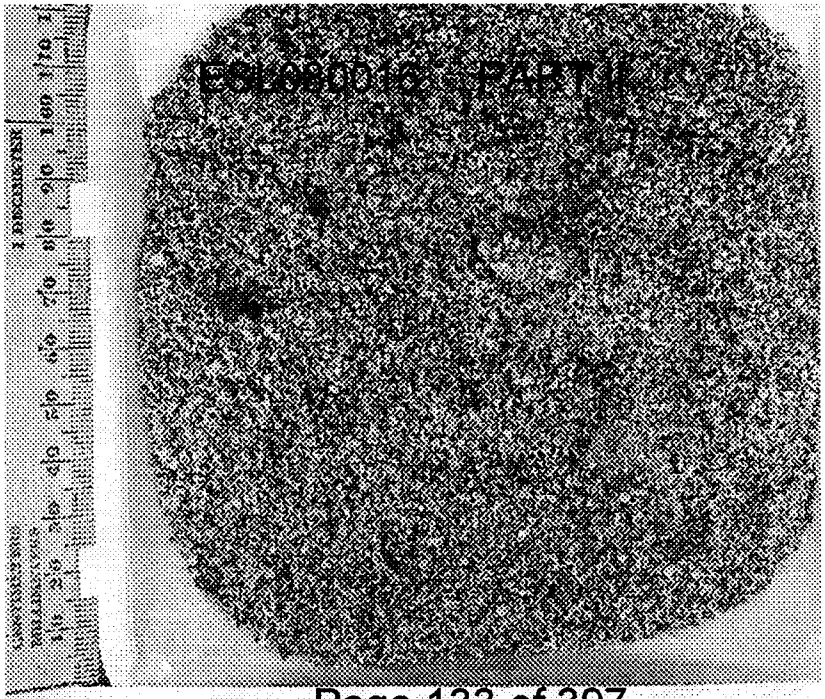


C5857	B1TMY0	115.0 - 115.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



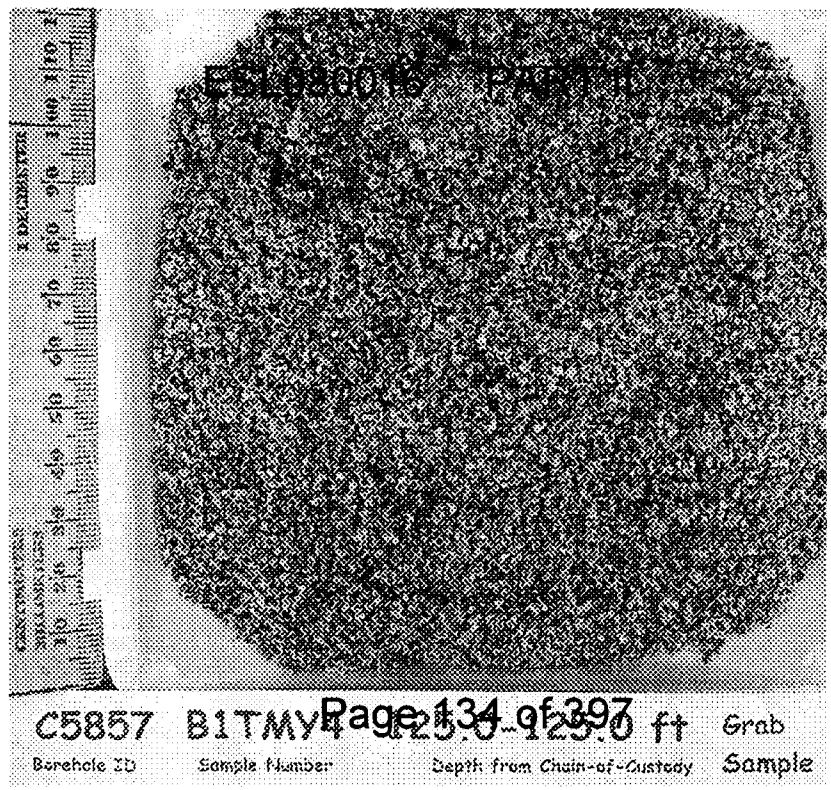
C5857	B1TMY1	117.0-117.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

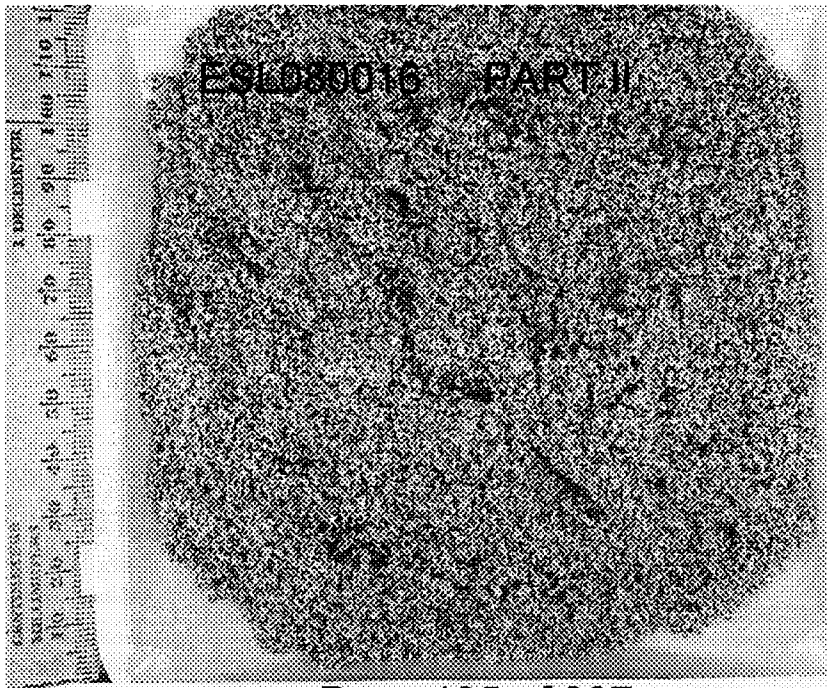

ESLD80016 PART II
C5857 B1TMY2 120.0-120.0 ft Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample



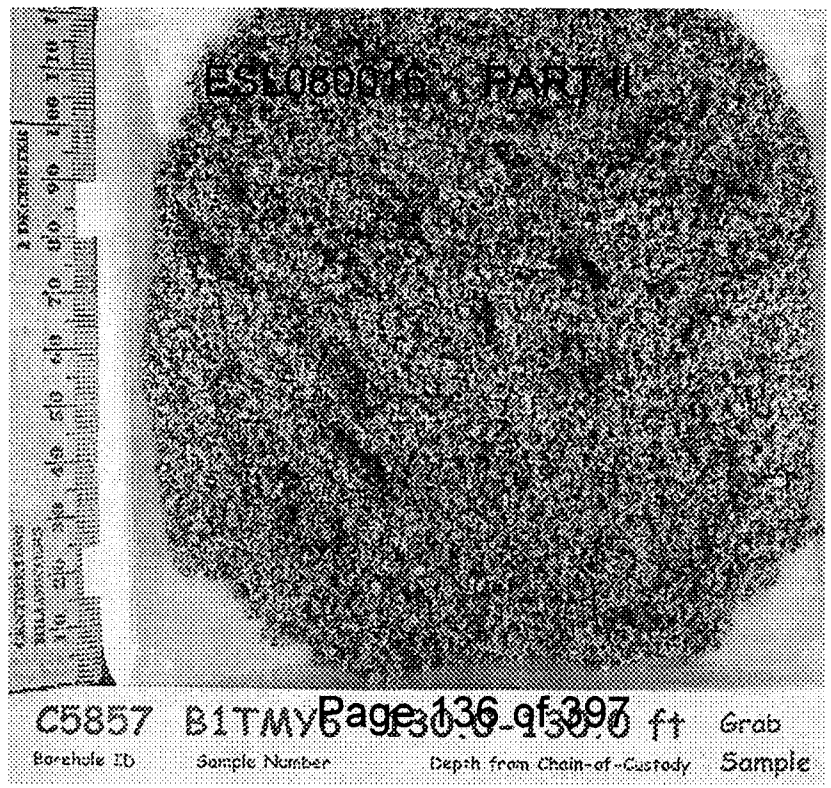
C5857	B1TMY5	122.5-122.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

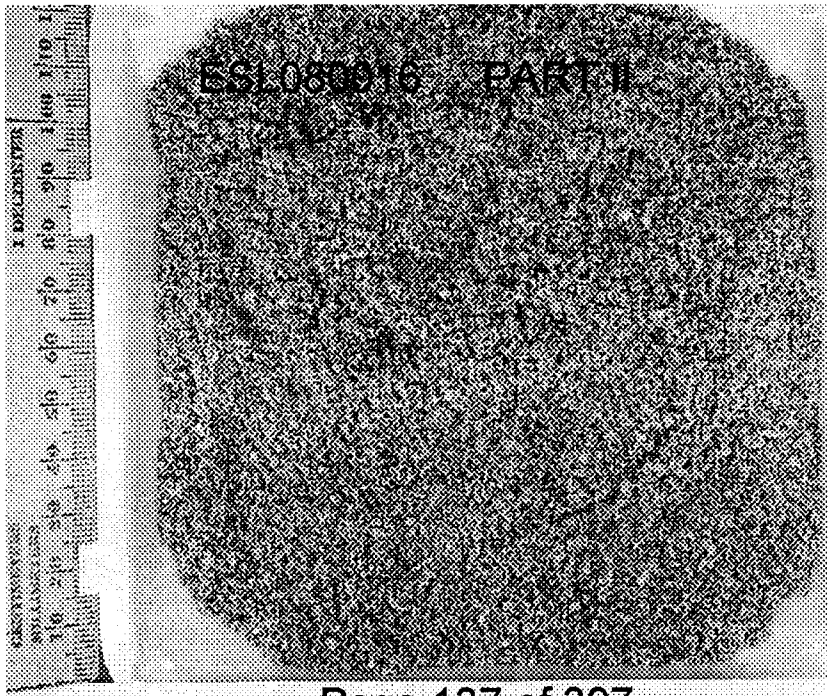
EGL080016 - PART II


C5857 B1TMY4 125.0-125.0 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample



C5857	B1TMY5	127.5-127.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

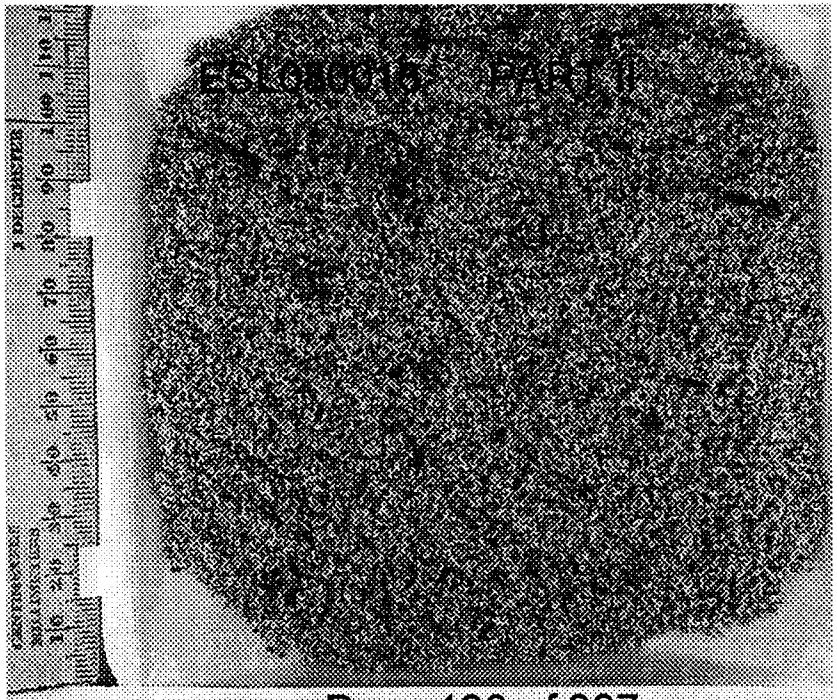

ESL060016 PART II
C5857
B1TMY6
130.0-130.0 ft
Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample



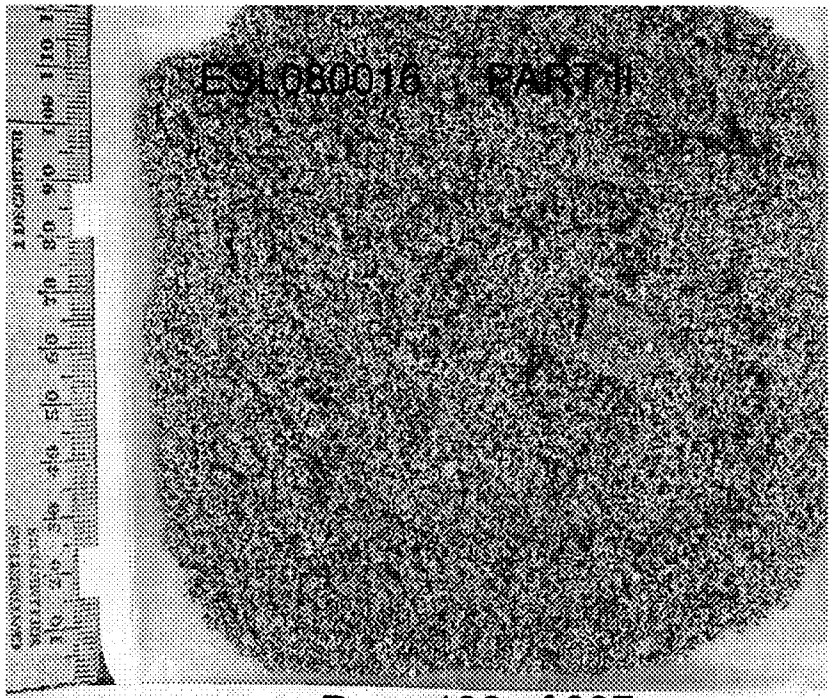
ESL080916 PART II

C5857 B1TMY7 132.5-132.5 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody



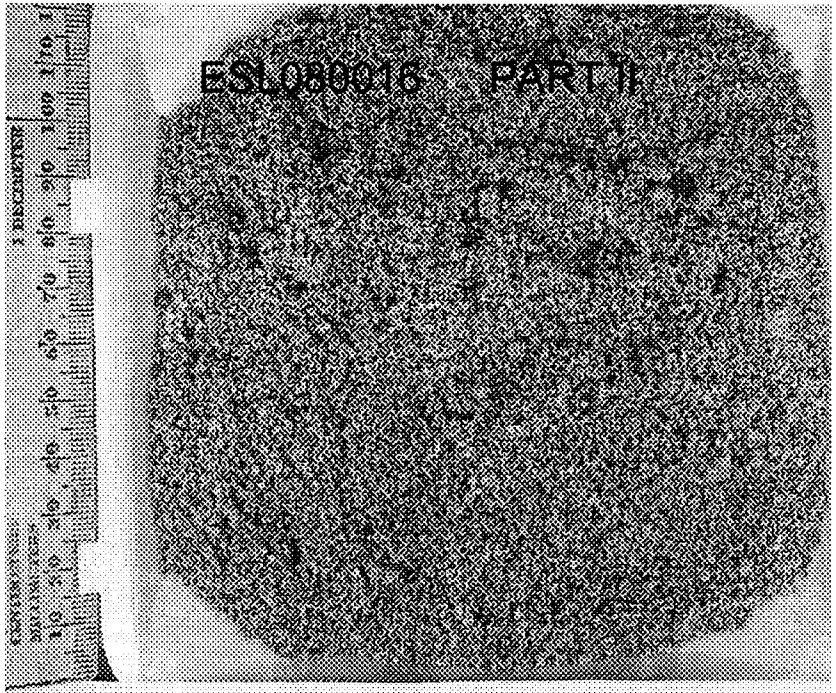
C5857	B1TMY6	135.9-135.0 ft	Grab
Borehole ID	Sample Number	Depth from Chain-of-Custody	Sample



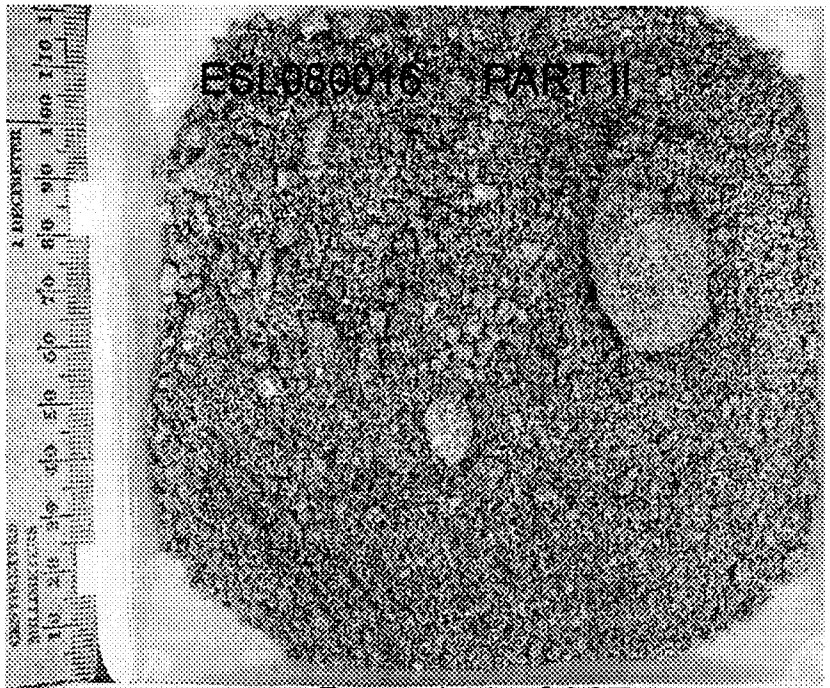
C5857 B1TMY9 137.2-137.2 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

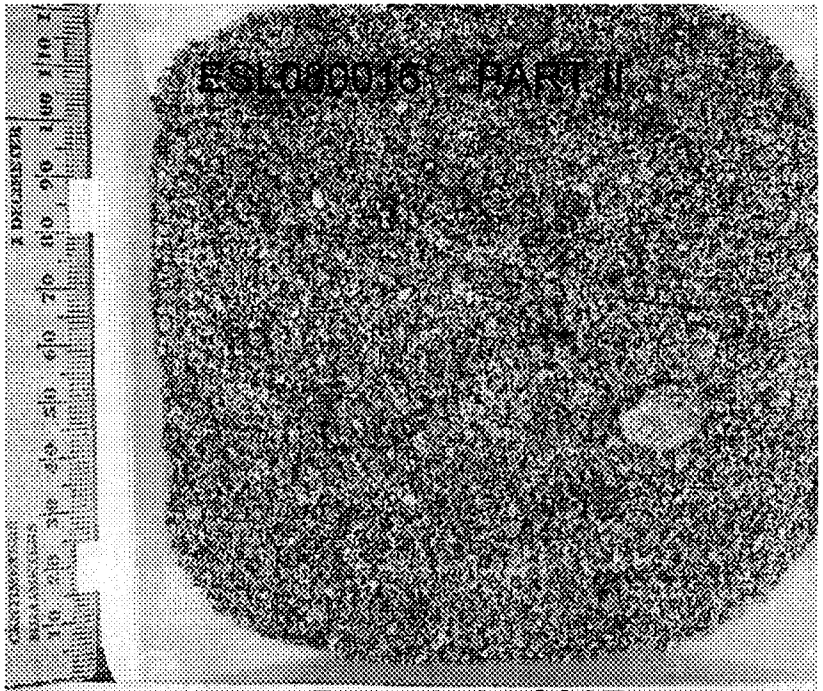
ESL080016 - PART II



C5857	B1TN00	140.0-149.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

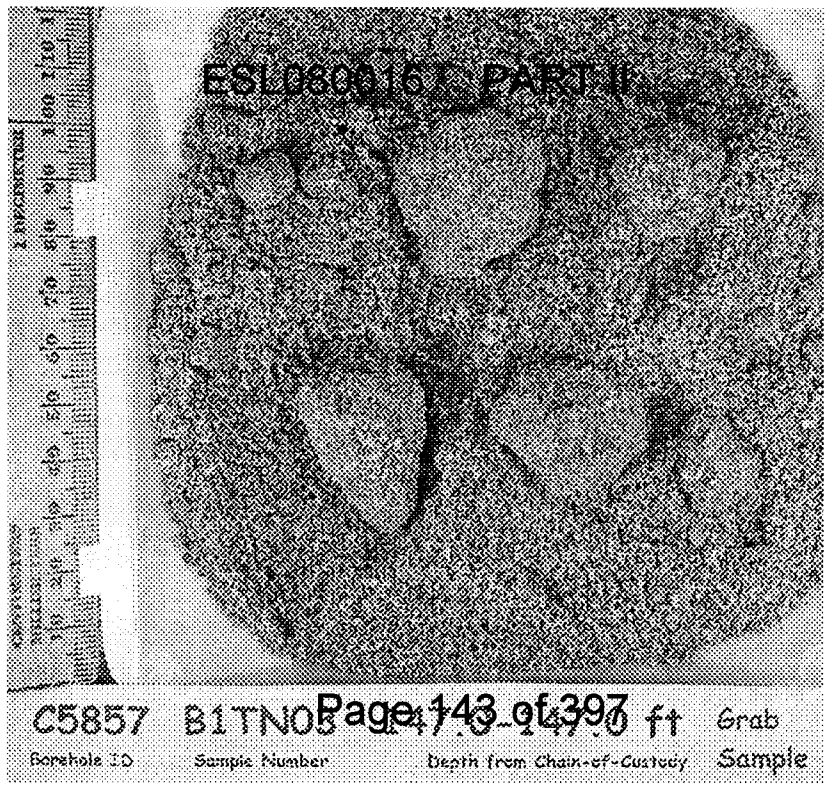


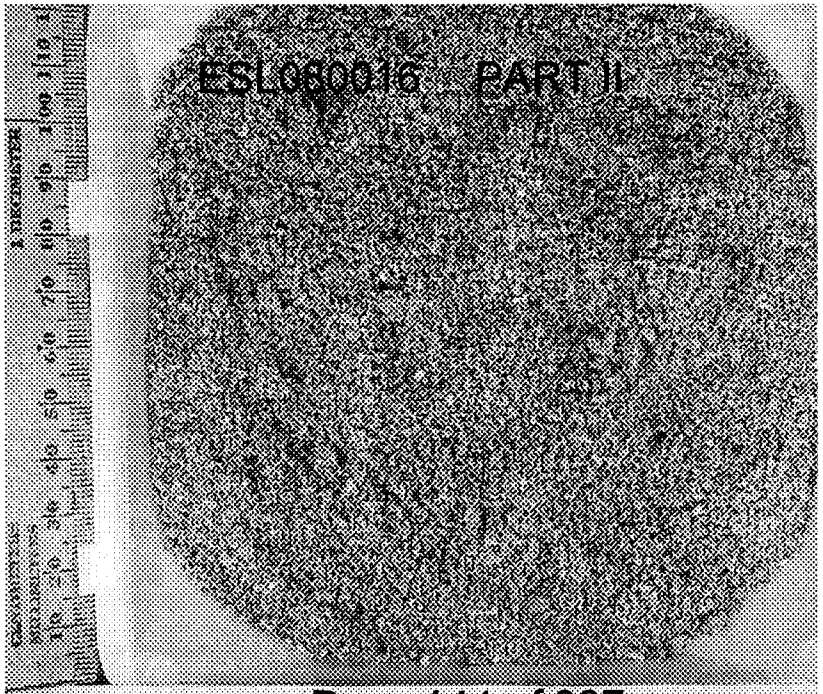
C5857	B1TN01	143.0-143.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



C5857	B1TN02	145.0 - 145.0 ft	Grab
Borehole ID	Sample Number	Depth from Chain-of-Custody	Sample

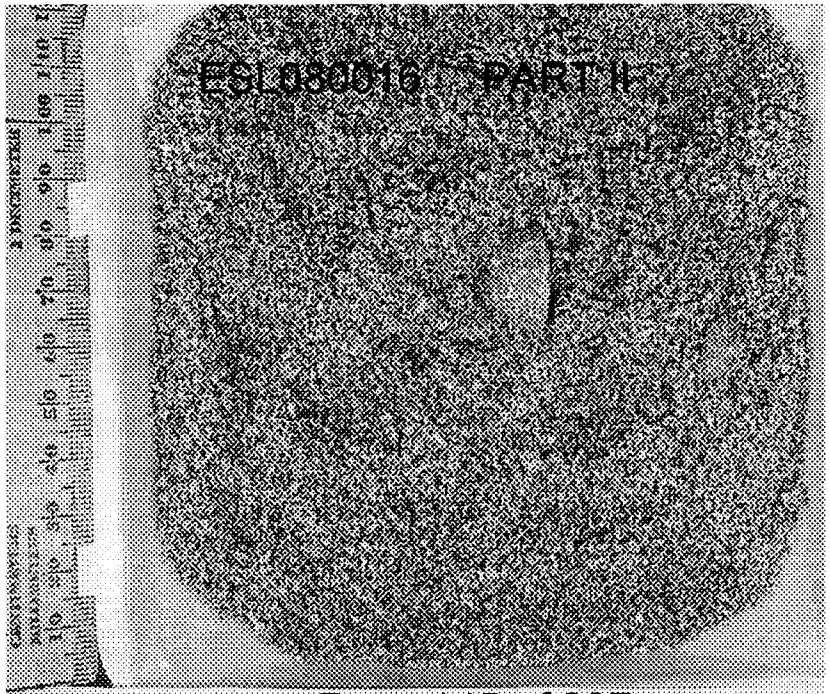
ESL000016 - PART II


C5857
B1TN05
147.0-147.0 ft
Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample

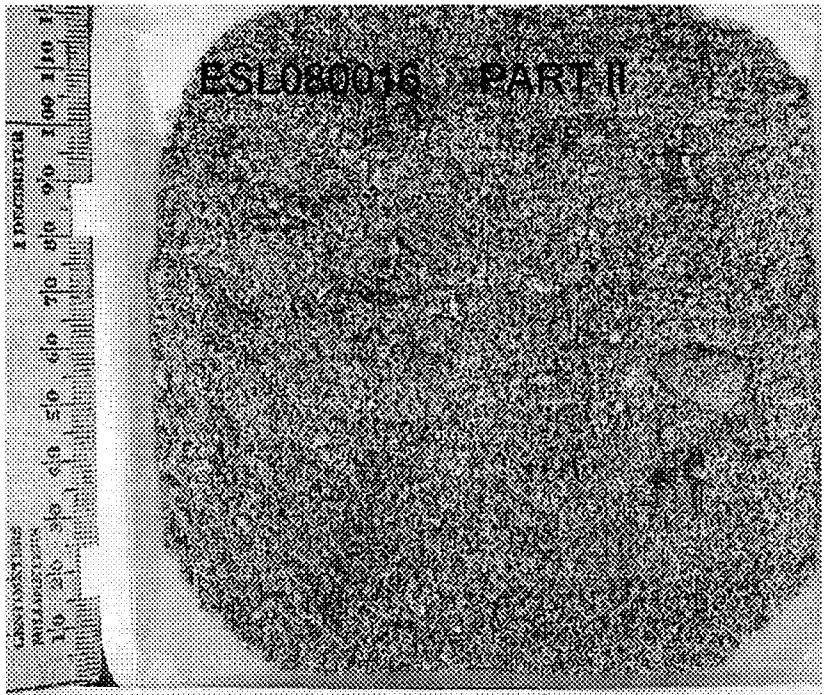


C5857 B1TN04 150.0-158.0 ft Grab

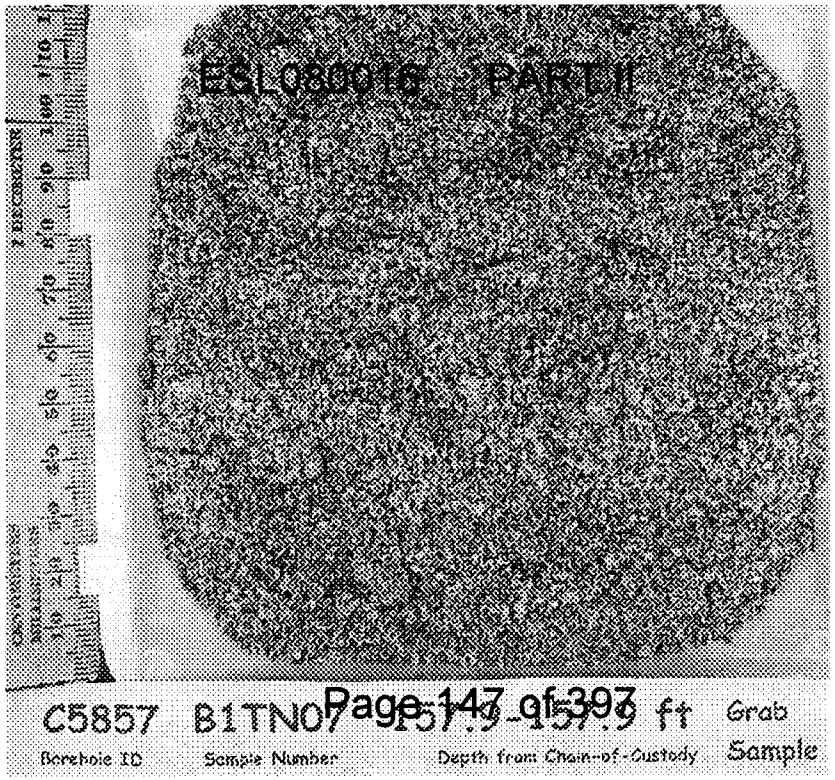
Borehole ID Sample Number Depth from Chain-of-Custody Sample

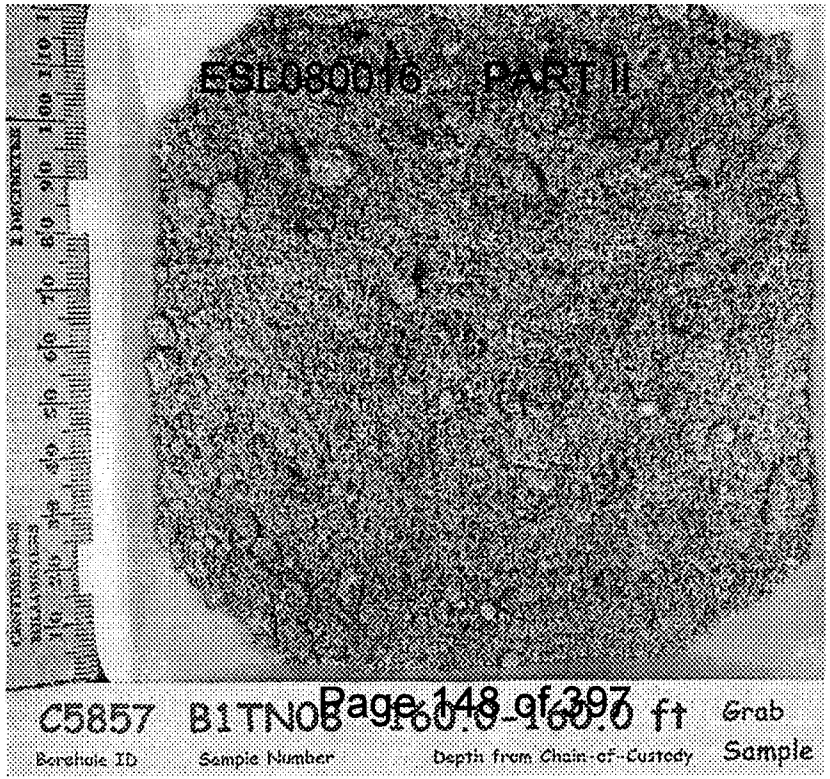


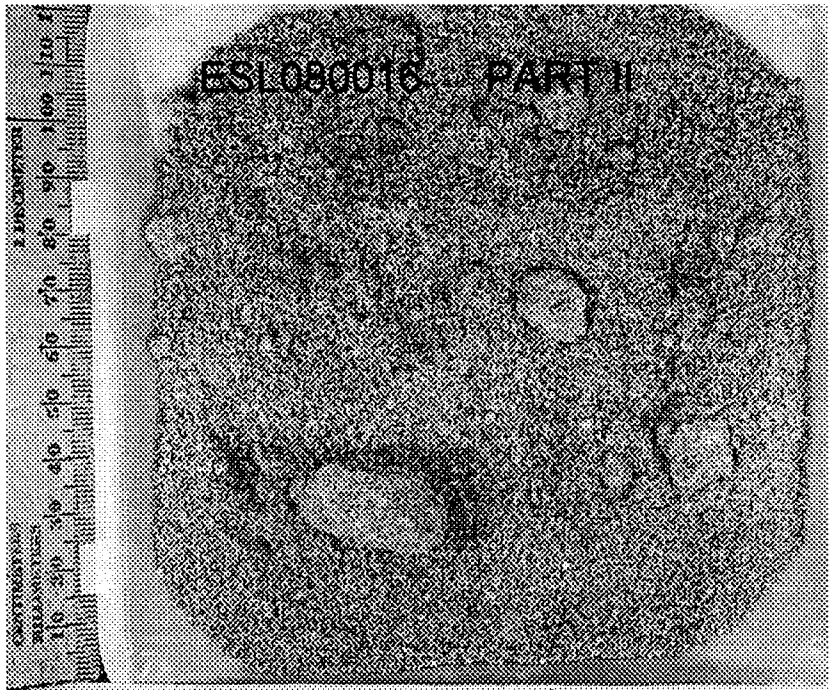
C5857	B1TN05	152.5-152.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



C5857	B1TN06	154.5-154.5 ft	Grab
Borehole ID	Sample Number	Depth from Chain-of-Custody	Sample

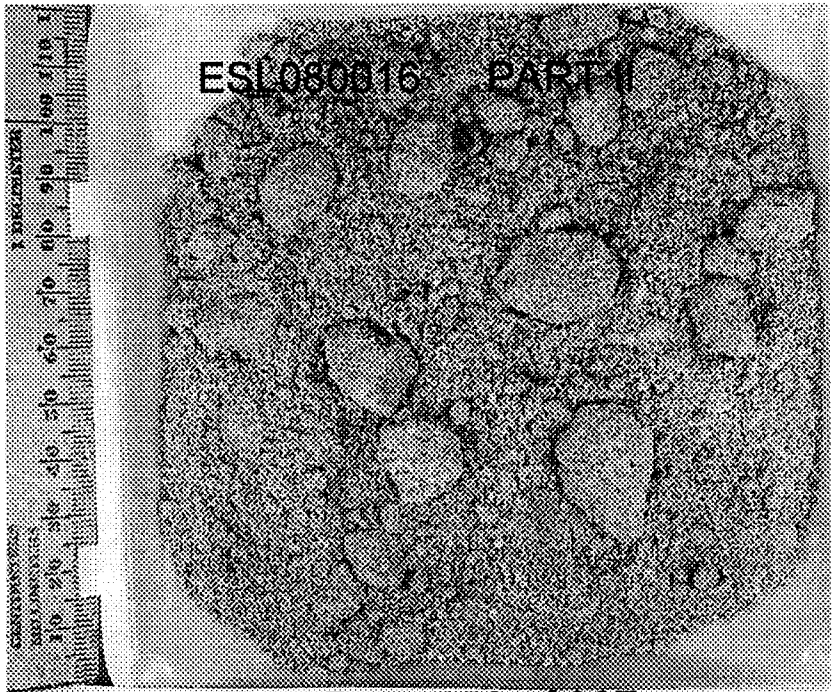

ESL080016 PART II
C5857
B1TN07
157.9-159.9 ft
Grab
Sample
Borehole ID
Sample Number
Depth from Chain-of-Custody


ESL080016 PART II
C5857
Borehole ID
B1TN08
Sample Number
160.0-160.0 ft
Depth from Chain-of-Custody
Grab
Sample

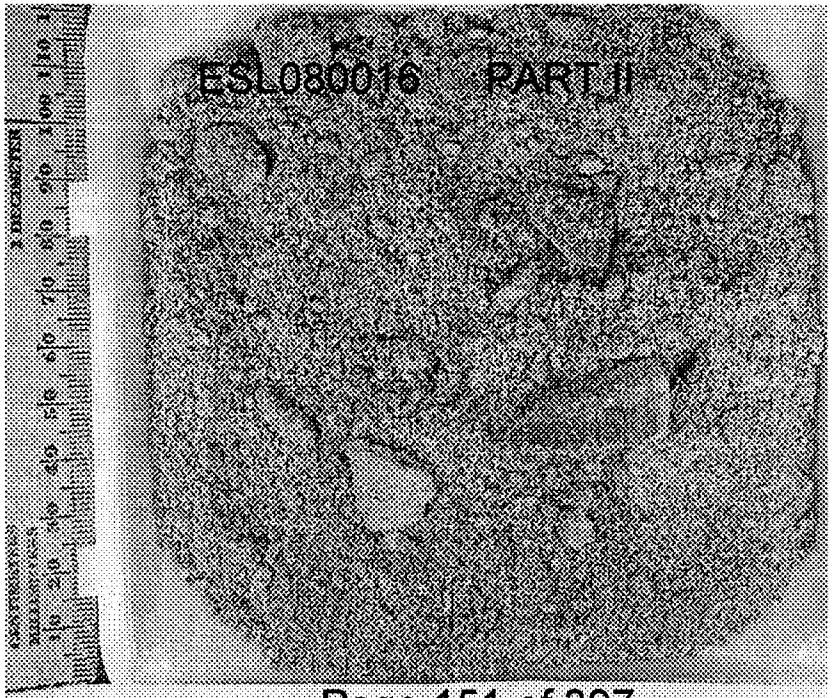


C5857 B1TN09 162.5-162.5 ft Grab

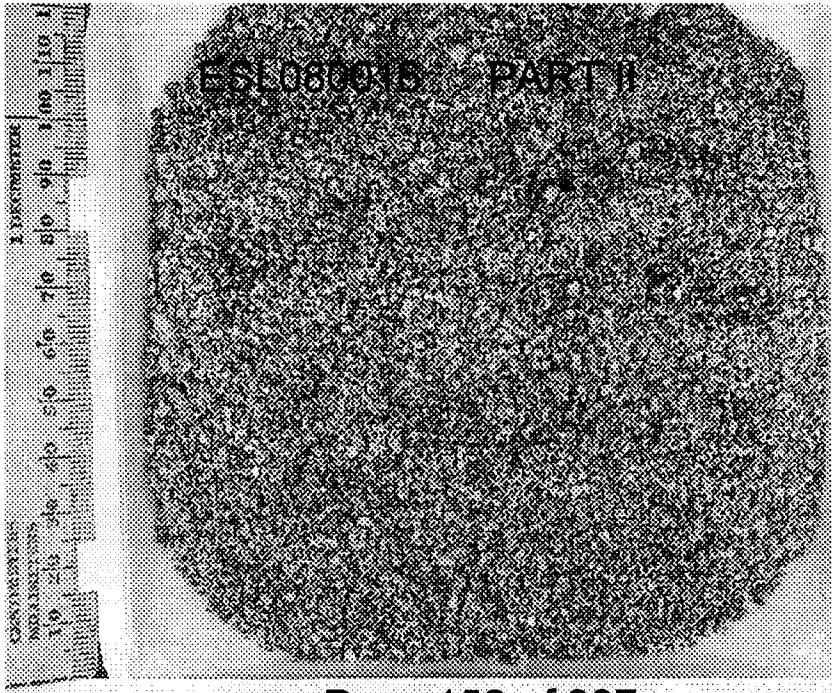
Borehole ID Sample Number Depth from Chain-of-Custody Sample



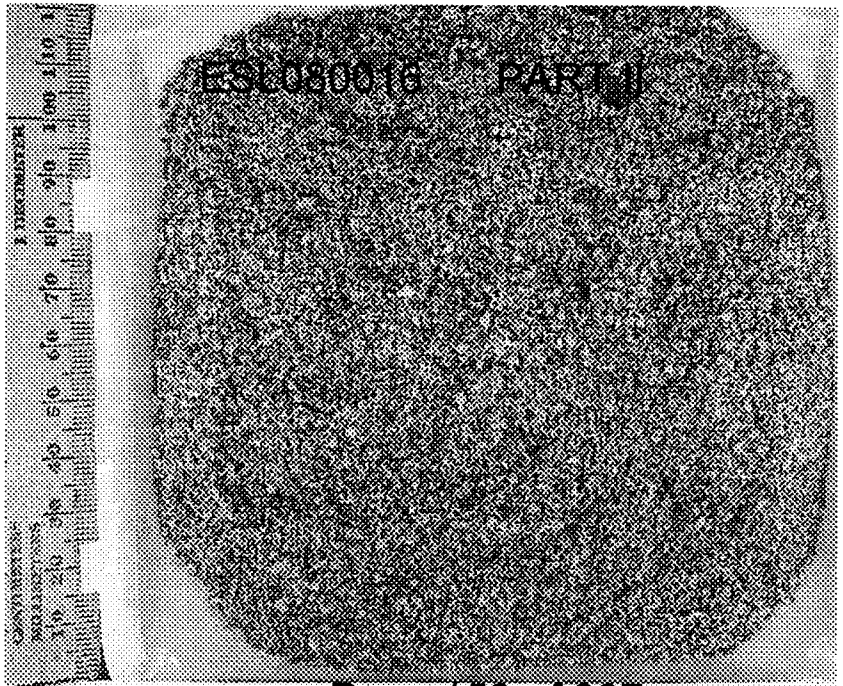
C5857	B1TN1	165.9-165.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



C5857	B1TN11	167.5-169.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

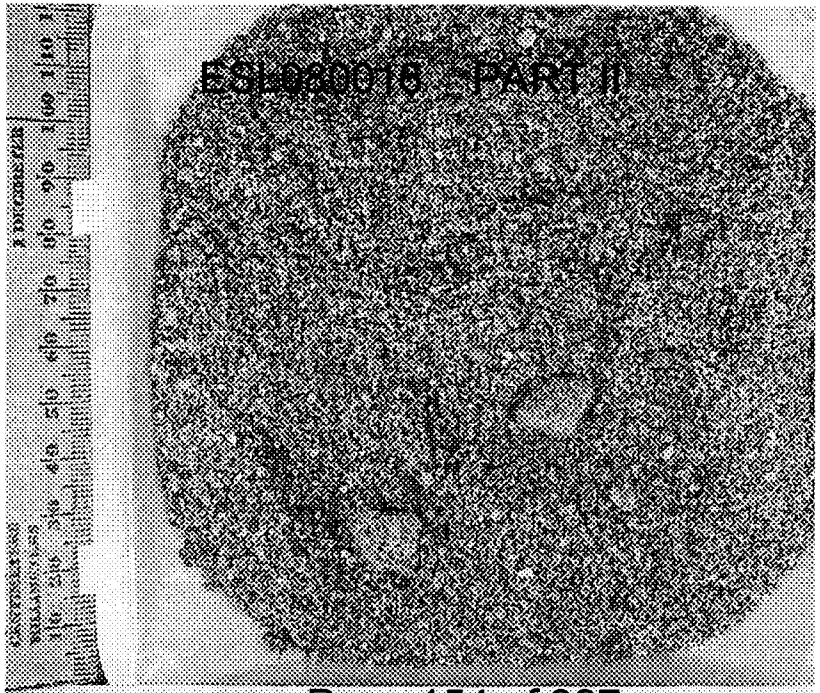


C5857	B1TN12	170.0-170.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

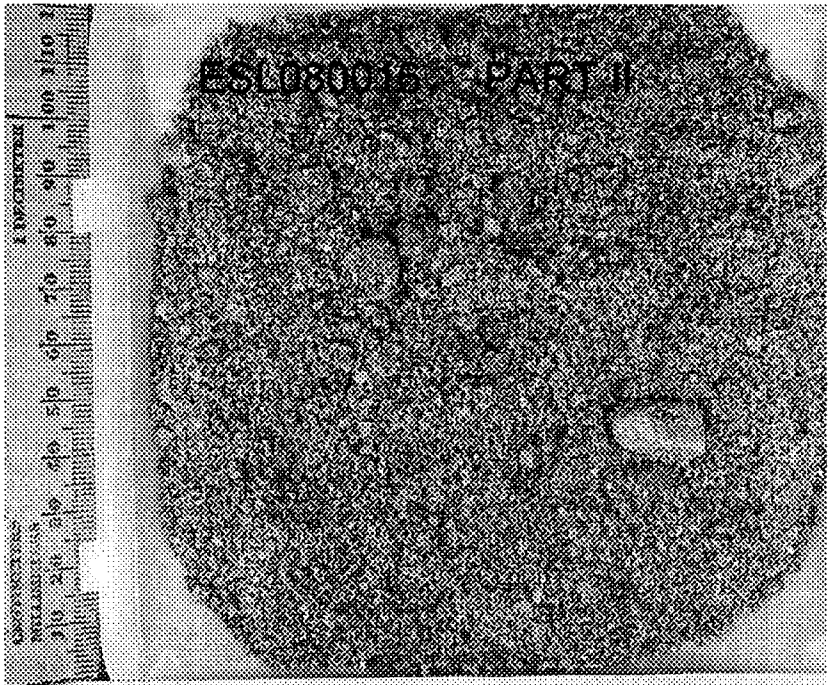


ESL080016 PART II

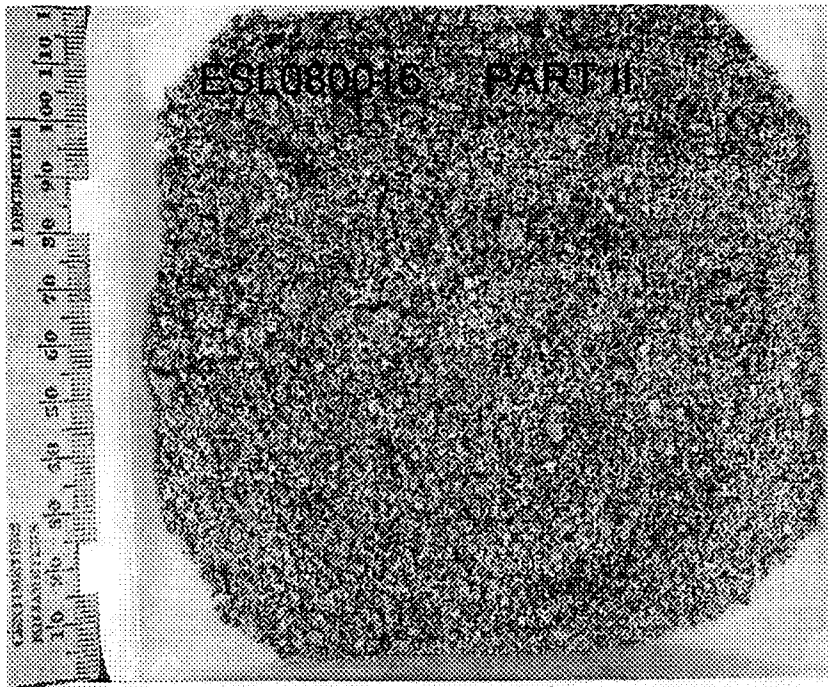
C5857	B1TN13	172.5-172.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



C5857	B1TN14	175.0-179.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



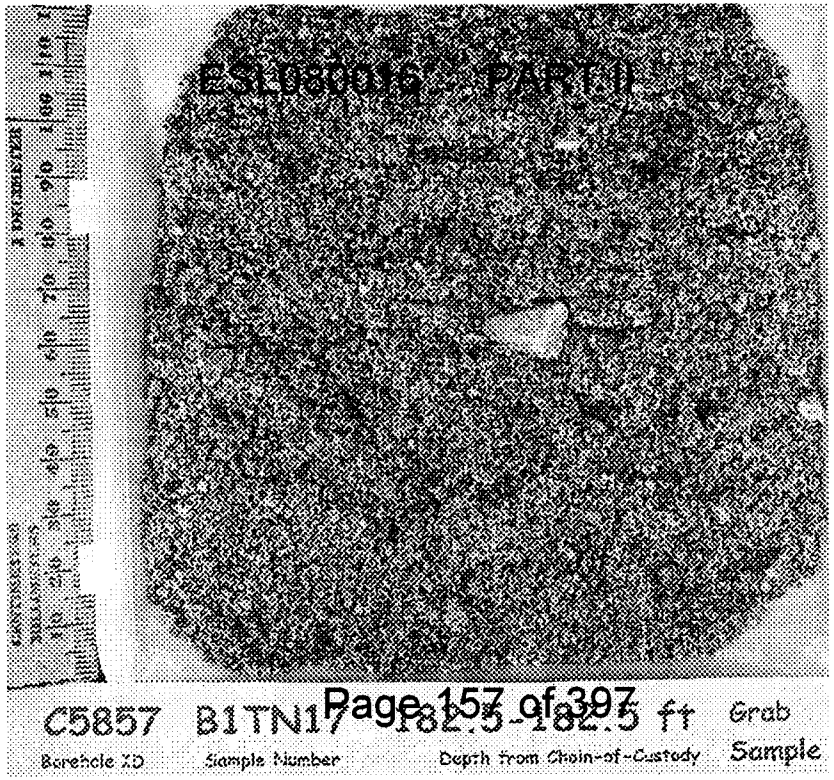
C5857	B1TN15	17.5 - 17.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



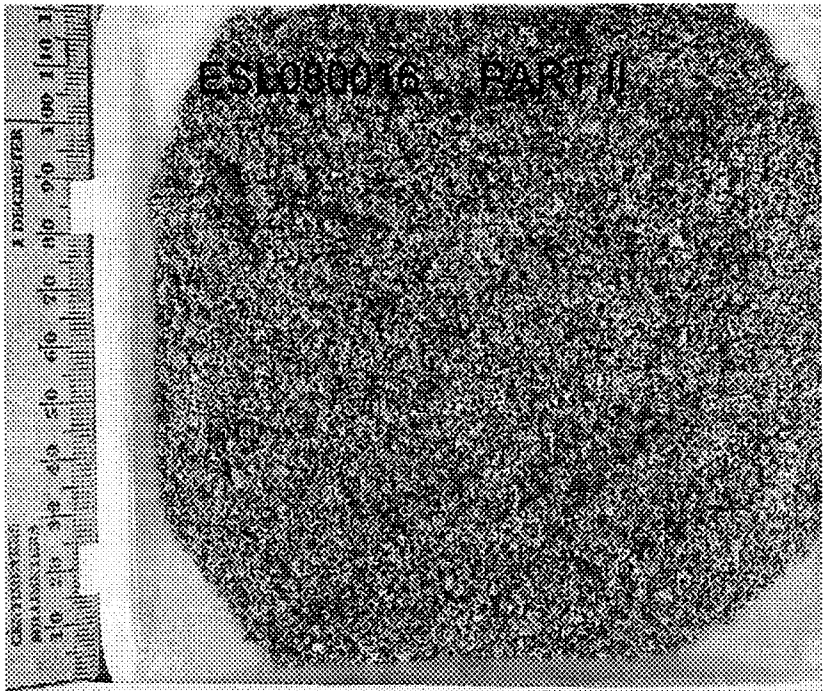
ESL080015 PART II

C5857 B1TN16 180.0-180.0 ft Grab Sample

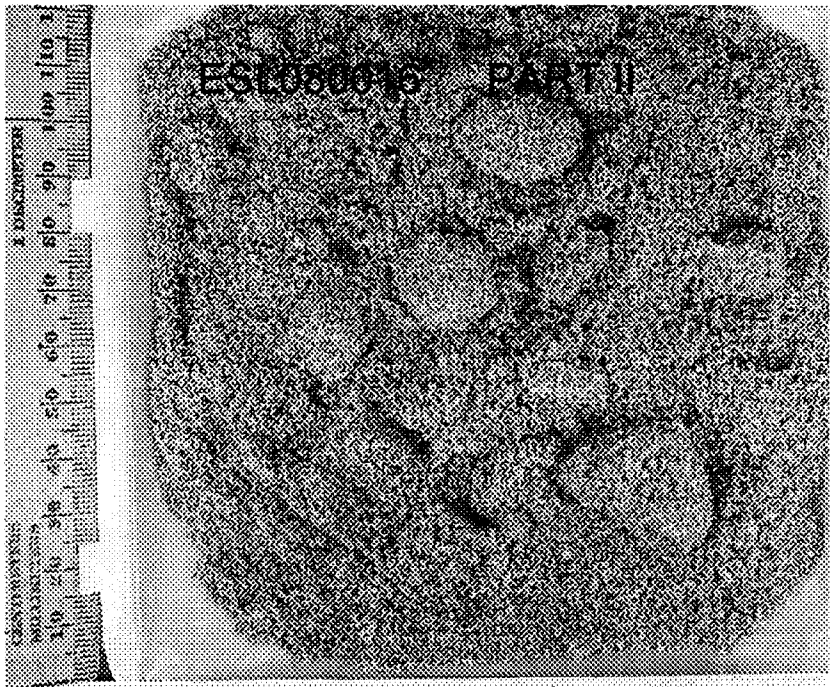
Borehole ID Sample Number Depth from Chain-of-Custody



C5857	B1TN17	182.5-182.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

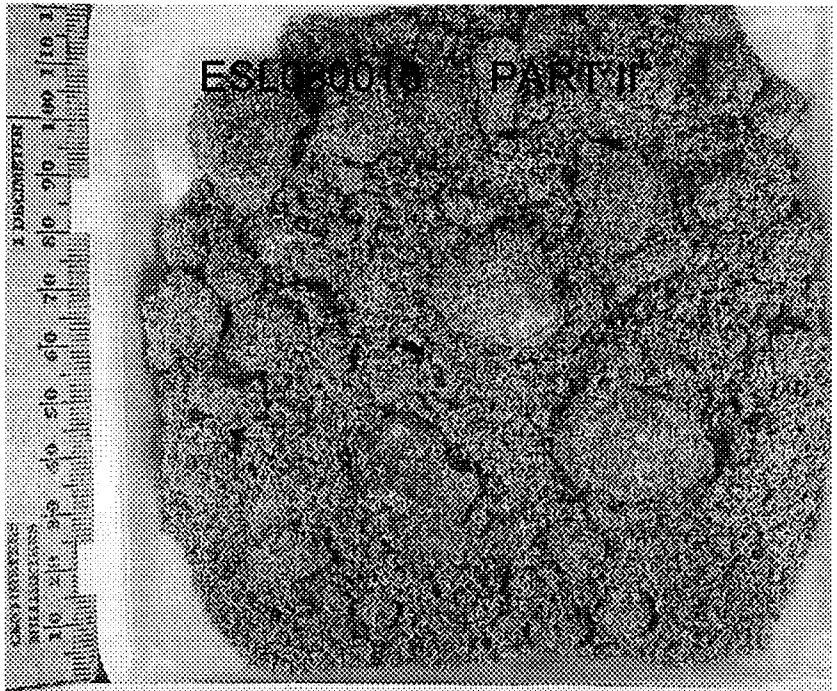


C5857	B1TN15	163.0-163.0 ft	Grab
Borehole ID	Sample Number	Depth from Chain-of-Custody	Sample



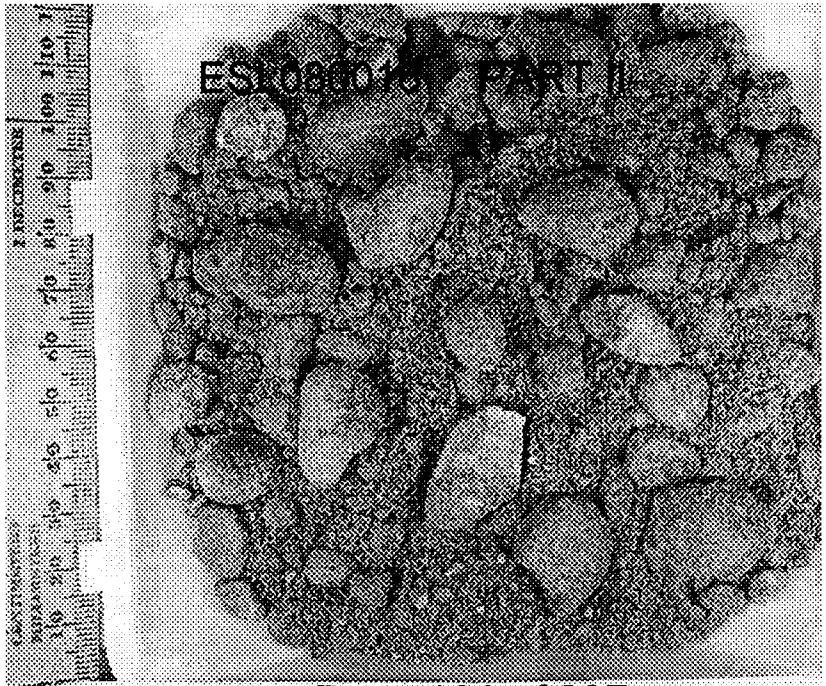
C5857	B1TN19	187.5-187.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

ESL060016 PART II

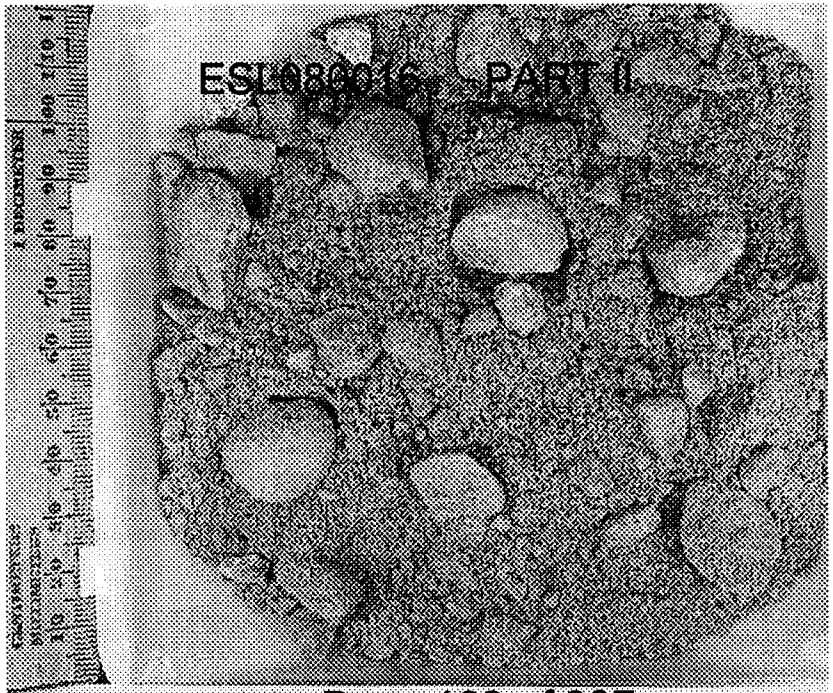


C5857	B1TN37	190.0-190.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

ES1080016 PART II

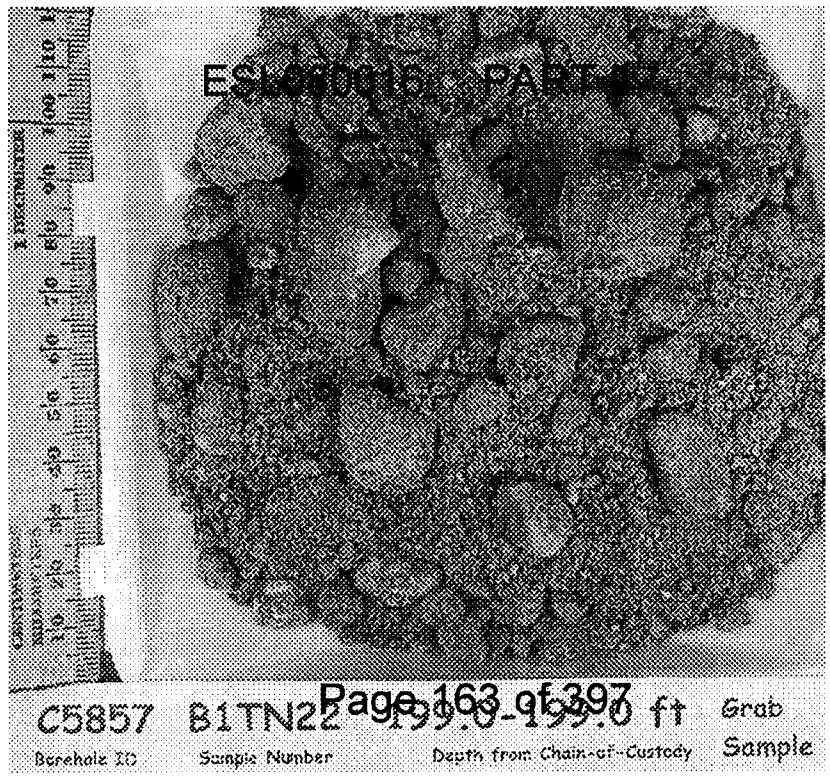


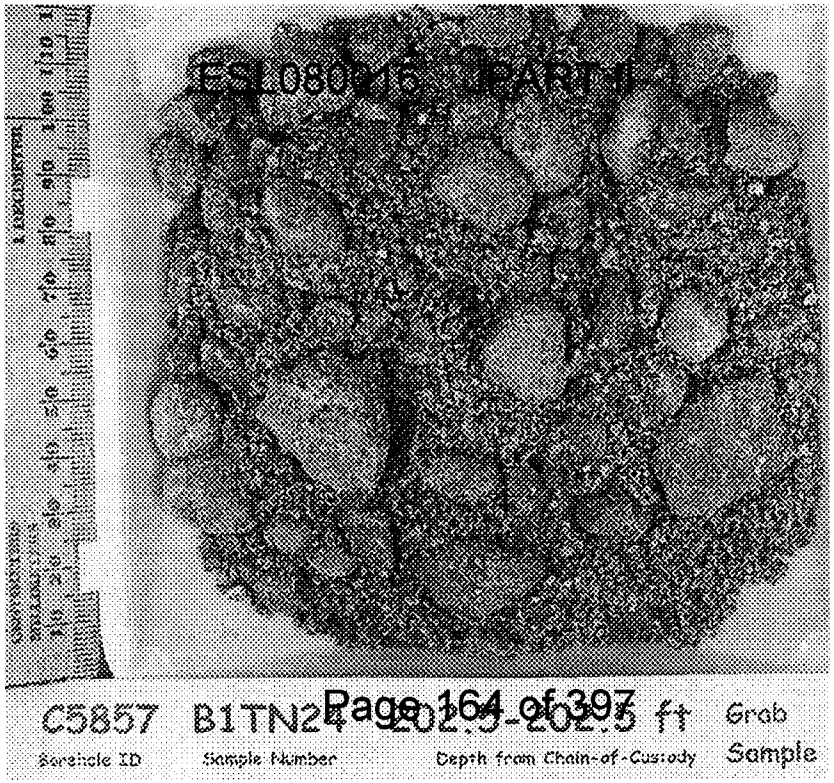
C5857	B1TN20	192.5-192.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



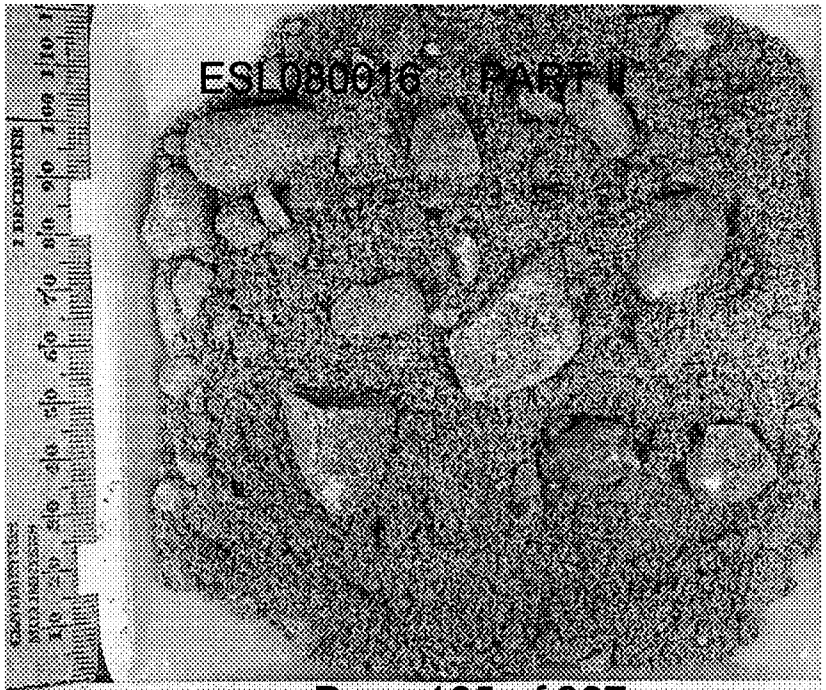
ESL080016 - PART II

Borehole ID	Sample Number	Depth from Chain-of-Custody	
C5857	B1TN21	195.6-195.0 ft	Grab Sample


C5857
B1TN22
199.0-199.0 ft
Grab
Sample
Borehole ID
Sample Number
Depth from Chain-of-Custody

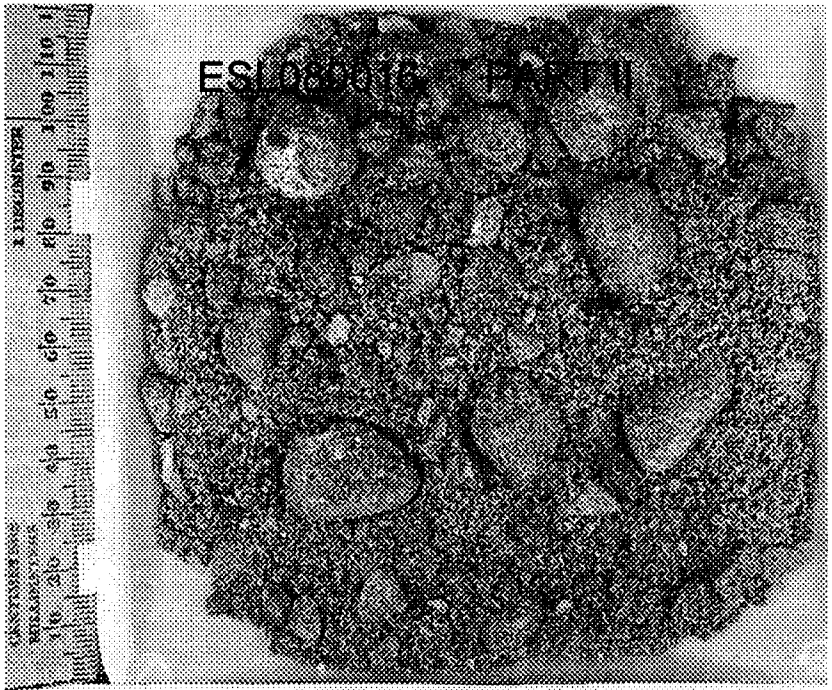

ESL080016 PART II
C5857 B1TN24 202.5-202.5 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample

ESL080016 PART II

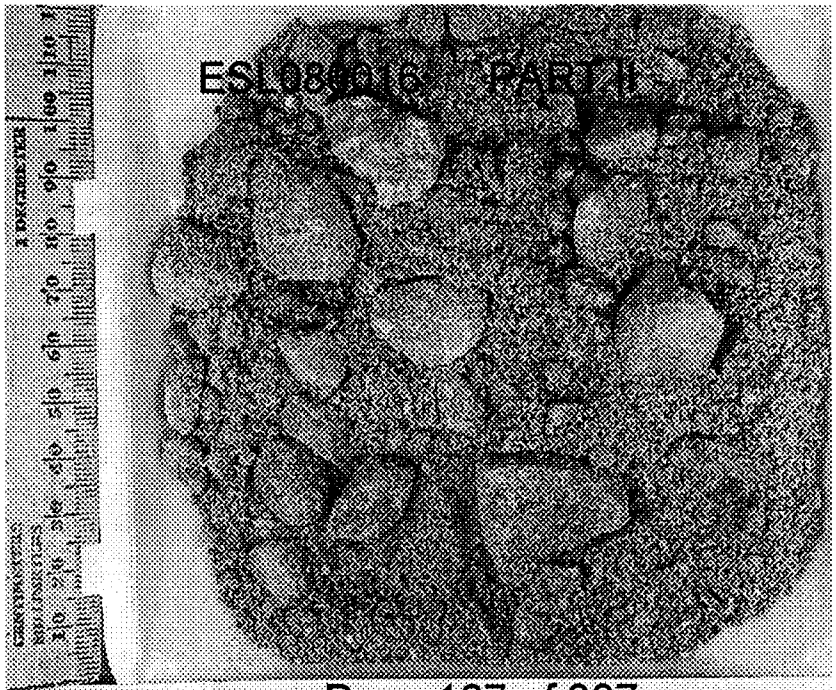


C5857 B1TN25 203.0-203.0 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody

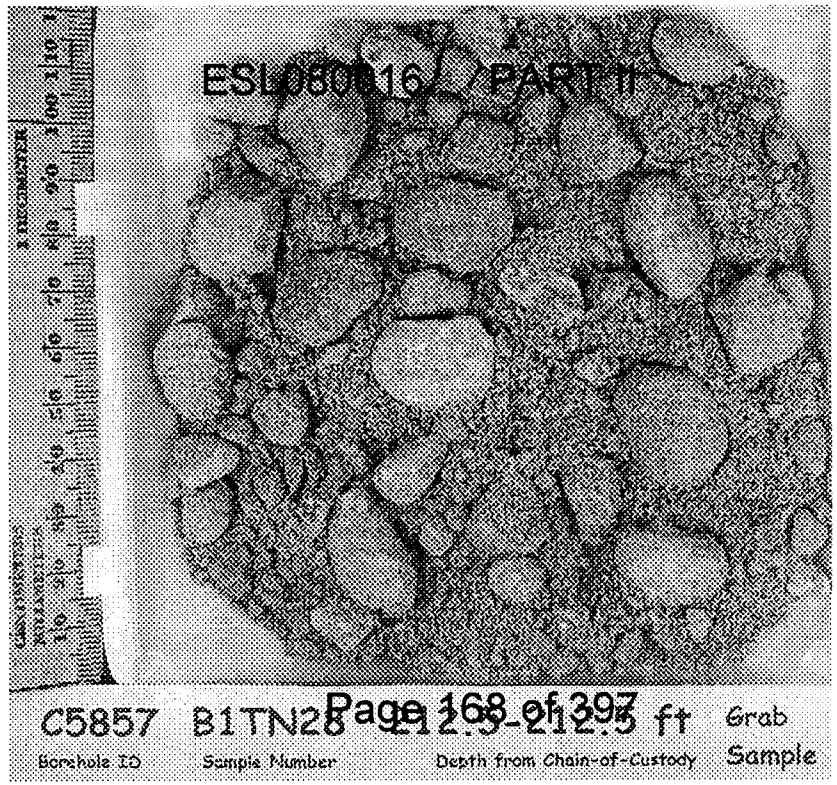


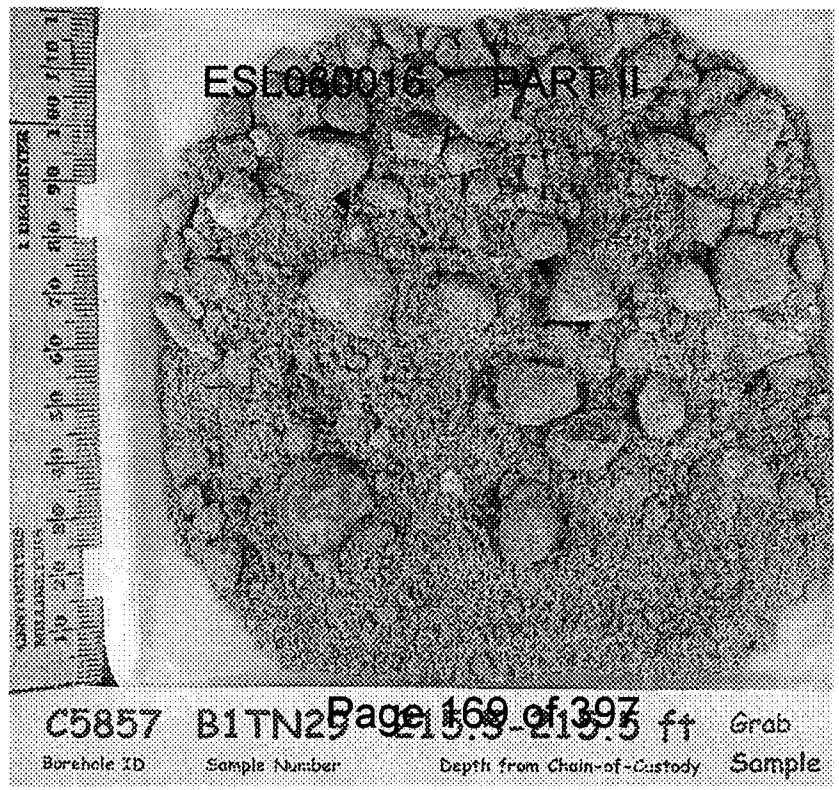
C5857	B1TN26	2075-2075 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	



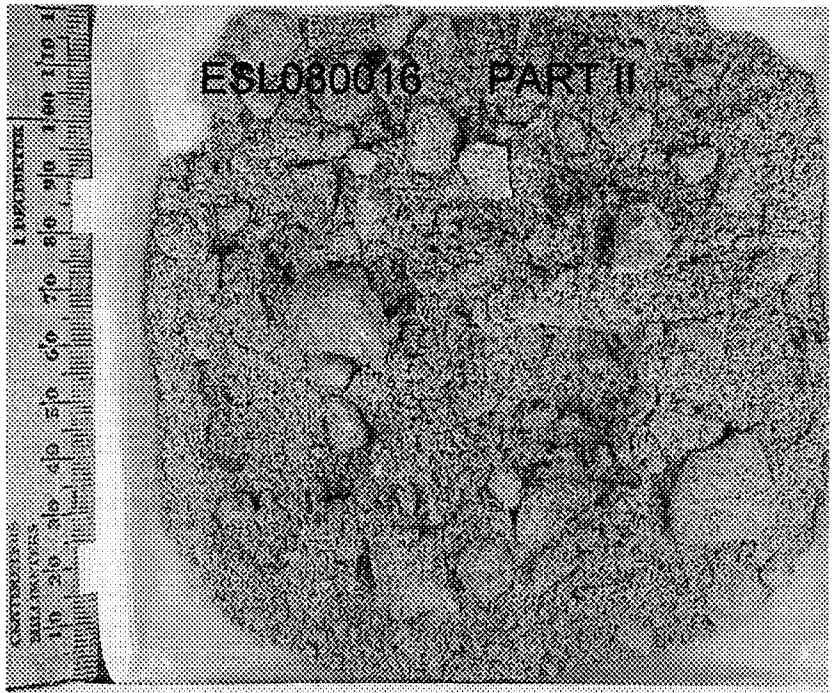
ESL080016 PART II

C5857	B1TN27	210.0-210.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	


C5857 B1TN28 212.5-212.5 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample

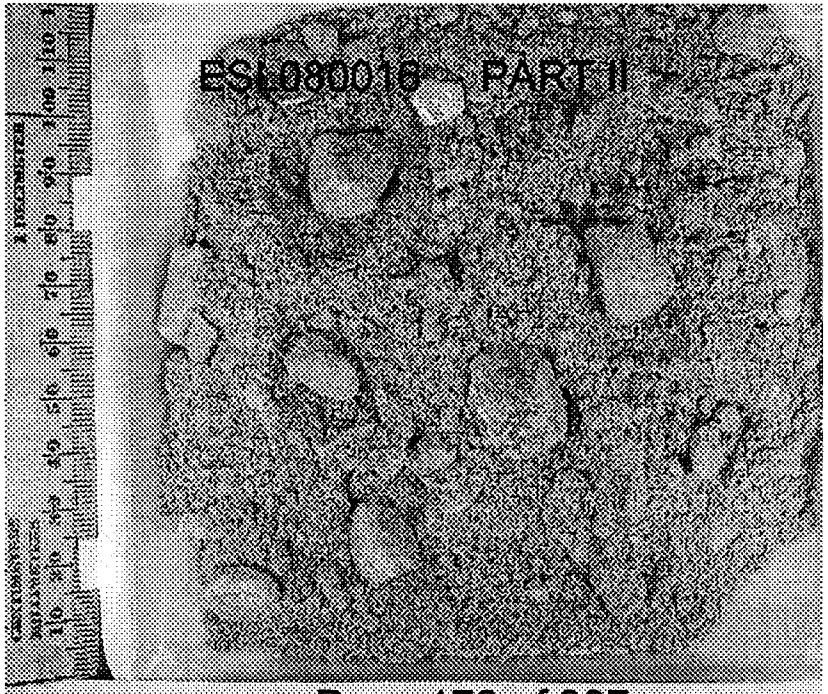

C5857 B1TN29 215.5-215.5 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample

C5857
B1TN31
220.0-220.0 ft
Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample



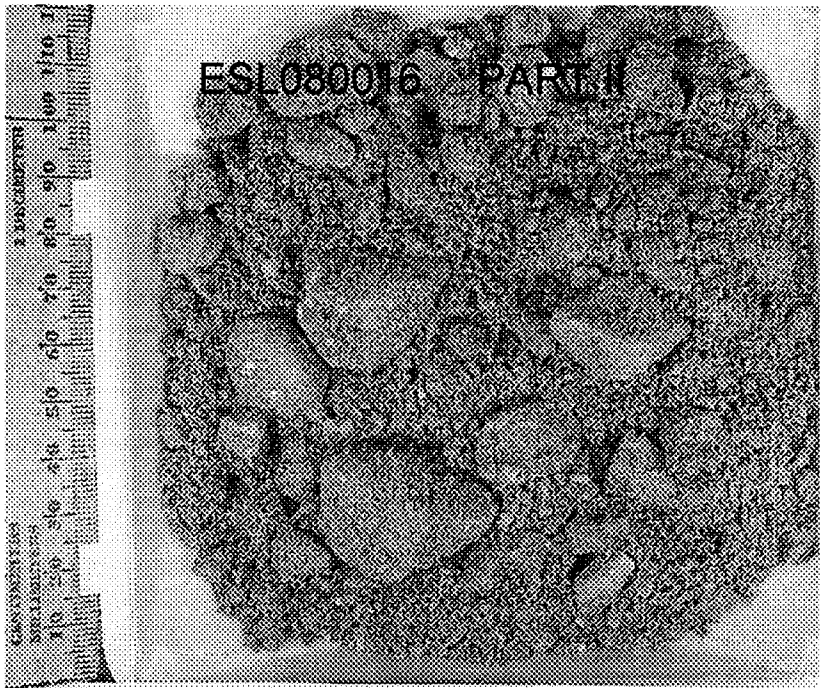
C5857 B1TN32 222.5-222.5 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody



C5857	B1TN35	224.5-224.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

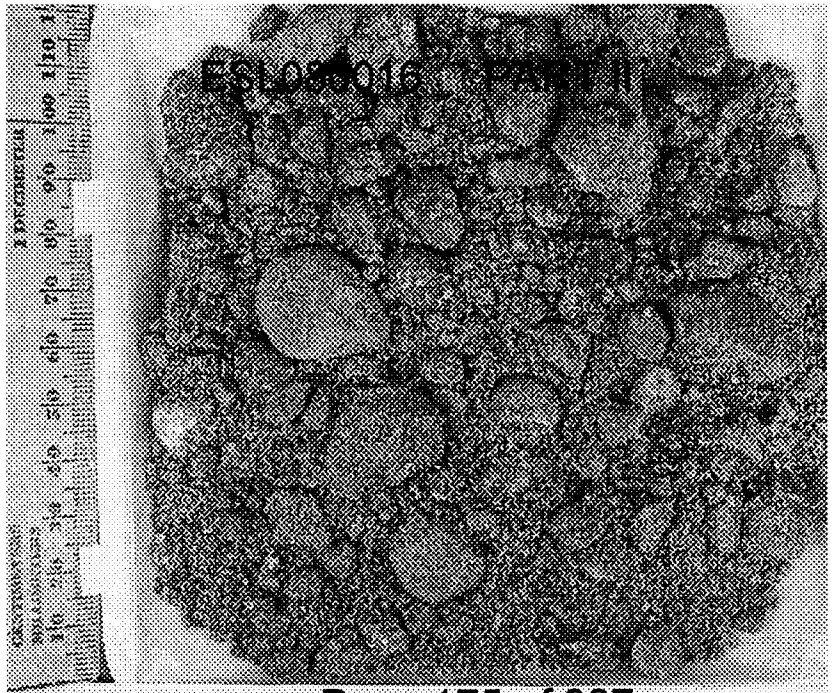
ESL080016 PART II
C5857 B1TN34 228.0-228.0 ft Grab
Borehole ID Sample Number Depth from Chain-of-Custody Sample



ESL080016 PART II

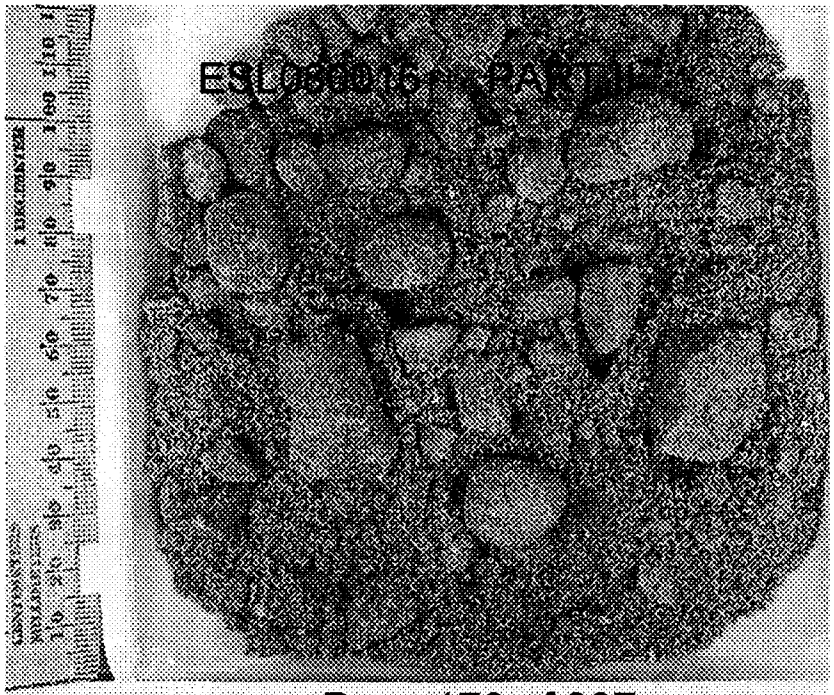
C5857 B1TN35 230.0-230.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample



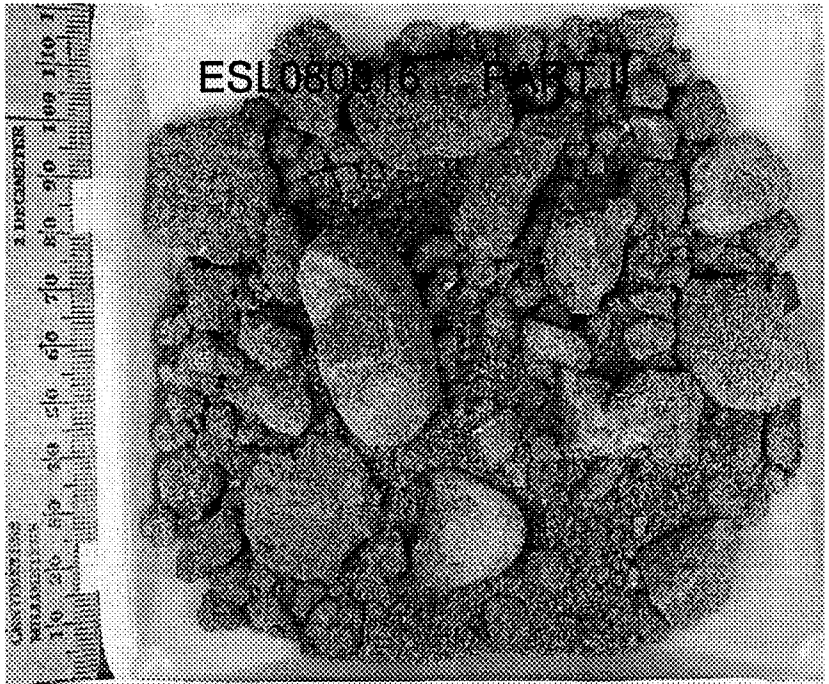
Borehole ID	Sample Number	Depth from Chain-of-Custody	
C5857	B1TN36	233.6-233.6 ft	Grab Sample

ESL030016 - PART II

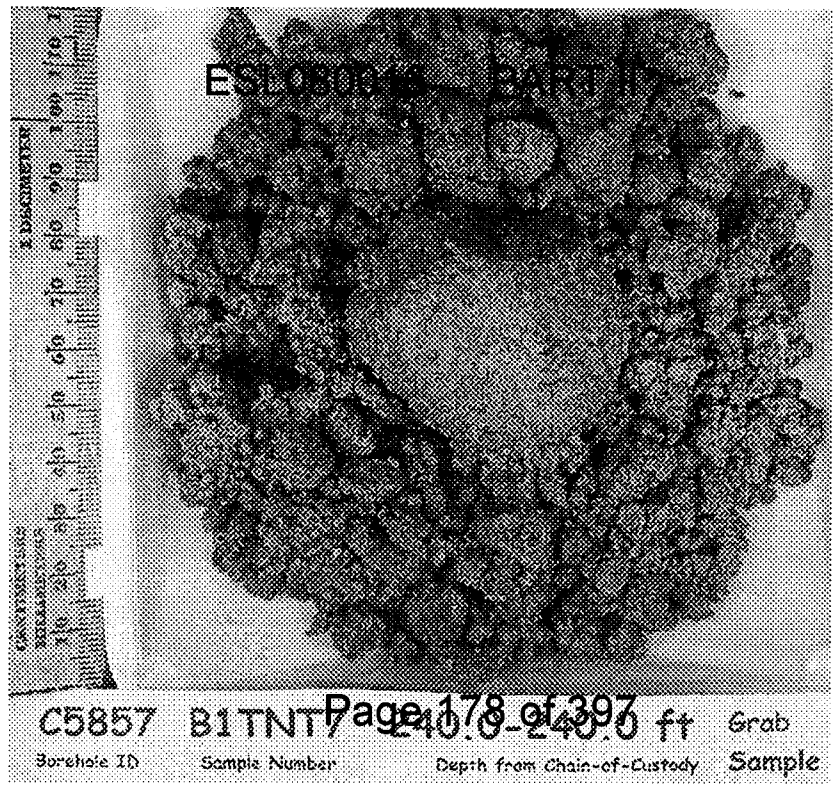


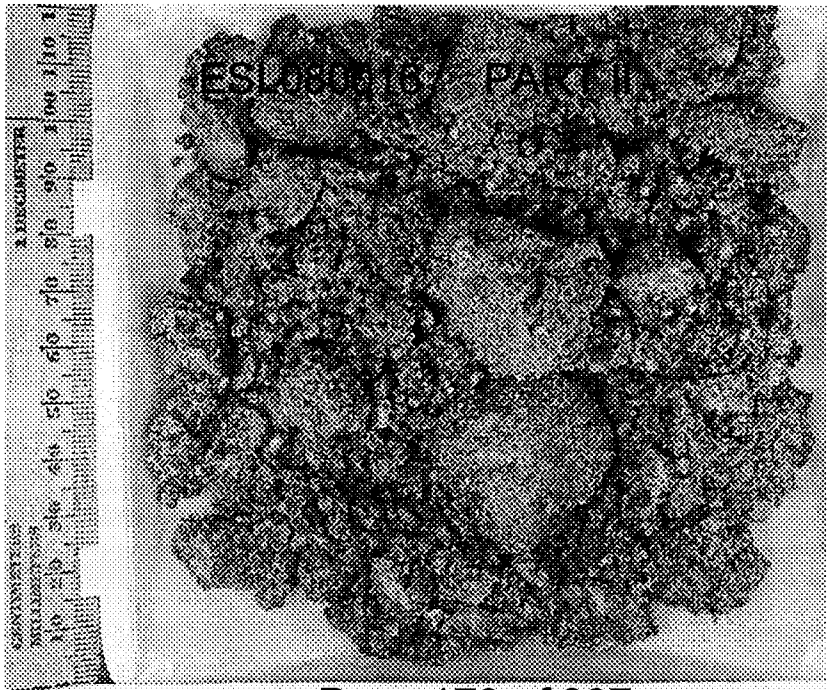
C5857	B1TNT5	230.0-230.0 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	

ESL060016 PART 1



C5857	B1TNT6	237.5-237.5 ft	Grab Sample
Borehole ID	Sample Number	Depth from Chain-of-Custody	


C5857 B1TNT7 240.0-240.0 ft Grab
Borehole ID
Sample Number
Depth from Chain-of-Custody
Sample



C5857 B1TNT6 242.5-242.5 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-075-002 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Chacon Molchor	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-129	PROJECT DESIGNATION: 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G		SAF NO.: F08-075
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N 488-1	ACTUAL SAMPLE DEPTH: 236	COA: 123515E510
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TNT5	SOIL	4-4-08	11 15	✓	✓

0286 88

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Chacon [signature] APR 04 2008	1515	MO 745 RF APR 04 2008	1575
MO 745 RF #1	4-9-08 1230	Fluor Hanford D. E. PARCHEN [signature]	4-9-08 1230
Fluor Hanford D. E. PARCHEN [signature]	4-9-08 1350	[signature] 4/9/08	1350
Steven Baum / [signature] JUL 30 2009	0850	AM Chacon [signature]	7 30 09 0850

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-075-002	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-129	**PROJECT DESIGNATION** 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G		**SAF NO.** F08-075	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123515ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** ESL is to determine unsaturated hydraulic conductivity using the method(s) best suited for the soil texture and type.
** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon} pH (Water) - 9045_WE;

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-075-003 PAGE 1 OF 2

COLLECTOR
NCO SAMPLER Chacon Mokto

SAMPLING LOCATION
C5857, I-130

ICE CHEST NO.

SHIPPED TO
Environmental Sciences Laboratory

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA TURNAROUND
45 Days / 45 Days

PROJECT DESIGNATION
200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G

SAF NO.
F08-075

AIR QUALITY ☐

FIELD LOGBOOK NO.
HNF H 482-1

ACTUAL SAMPLE DEPTH
237.5

COA
123515ES10

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TNT6	SOIL	4-4-08	1132	V	✓

028688

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A Chacon ADK	4-4-08 1515	NO745 RFF	4/4/8 1515
NO. 745 RFF #1	4-9-08 1230	Fluor Hanford D.E. PARCHEN	4-9-08 1230
Fluor Hanford D.E. PARCHEN	4-9-08 1350	C Tom	4/9/08 1350
Steven Baum / Steven Baum	7/4/07 0840	AM Chacon	JUL 30 2009 0840

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION RECEIVED BY

TITLE DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD

DISPOSED BY DATE/TIME

A-6003-618(01/06)

ESL080010

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-075-003

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-130	**PROJECT DESIGNATION** 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G		**SAF NO.** F08-075
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123515ES10
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** ESL is to determine unsaturated hydraulic conductivity using the method(s) best suited for the soil texture and type.
** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon} pH (Water) - 9045_WE;

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-075-004

COLLECTOR: NCO SAMPLER Chacon Mokler	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-131	PROJECT DESIGNATION: 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G		SAF NO.: F08-075
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N-4881	ACTUAL SAMPLE DEPTH: 240'	COA: 123515ES10
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TNT7	SOIL	4-4-08	1330	✓	✓

027688

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature] APR 0 4 2008	1515	[signature] APR 0 4 2008	1515
RELINQUISHED BY/REMOVED FROM: MO 745 [signature] #1	DATE/TIME: 4-9-08 1230	RECEIVED BY/STORED IN: Fluor Hanford D. E. PARCHEN [signature]	DATE/TIME: 4-9-08 1230
RELINQUISHED BY/REMOVED FROM: Fluor Hanford D. E. PARCHEN [signature]	DATE/TIME: 4-9-08 1330	RECEIVED BY/STORED IN: [signature]	DATE/TIME: 4/9/08 1350
RELINQUISHED BY/REMOVED FROM: Travis Baum / [signature]	DATE/TIME: 7-31-09 0850	RECEIVED BY/STORED IN: AM Chacon [signature] JUL 31 2009	DATE/TIME: 0850
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-075-004	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-131	**PROJECT DESIGNATION** 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G		**SAF NO.** F08-075	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123515ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** ESL is to determine unsaturated hydraulic conductivity using the method(s) best suited for the soil texture and type.
** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon} pH (Water) - 9045_WE;

PART II
ESL080016
Page 185 of 397

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-075-006 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Mowlex / Chacon

SAMPLING LOCATION: C5857, I-133

ICE CHEST NO.:

SHIPPED TO: Environmental Sciences Laboratory

COMPANY CONTACT: TRENT, STEVE

TELEPHONE NO.: 373-5869

PROJECT COORDINATOR: WIDRIG, DL

PRICE CODE: 8N

DATA TURNAROUND: 45 Days / 45 Days

PROJECT DESIGNATION: 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G

SAF NO.: F08-075

AIR QUALITY: ☐

FIELD LOGBOOK NO.: HNFN 488-1

ACTUAL SAMPLE DEPTH: 242.5

COA: 123515ES10

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

OFFSITE PROPERTY NO.: N/A

BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TRV7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNT8	SOIL	4/4/8	1420

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	4/4/8-1515	MO745 REF 1	4/4/8-1515
MO 745 Ref #1	4-9-08 1330	Fluor Hanford D. E. PARCHEN [signature]	4-9-08 1330
Fluor Hanford D. E. PARCHEN [signature]	4-9-08	C. Tom [signature]	4/9/08 1350
Steven Baum / [signature]	7-31-09 0850	AM Chacon [signature]	JUL 31 2009 0850

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-075-006 PAGE 2 OF 2

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-133	**PROJECT DESIGNATION** 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G		**SAF NO.** F08-075
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123515ES10
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** ESL is to determine unsaturated hydraulic conductivity using the method(s) best suited for the soil texture and type.
** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon} pH (Water) - 9045_WE;

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-112 PAGE 1 OF 2

COLLECTOR
NCO SAMPLER K. Patterson

SAMPLING LOCATION
C5857, I-107

ICE CHEST NO.

SHIPPED TO
Environmental Sciences Laboratory

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA TURNAROUND
45 Days / 45 Days

AIR QUALITY ☐

PROJECT DESIGNATION
200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling

SAF NO.
F08-080

FIELD LOGBOOK NO.
HNF-N-488-1

ACTUAL SAMPLE DEPTH
207.5

COA
123163ES20

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TN26	SOIL	APR 0 2 2008	✓ ✓

026057

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford	APR 0 2 2008 1616	MOTUS REFH	APR 0 2 2008 1616
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MOTUS REFH	4-3-08 1200	D. Parch	4-3-08 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Parch	4-3-08 1330	C Smith	4-3-08 13:30
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	13/09 0830	AM Chacon	JUL 3 0 2009 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION | **RECEIVED BY** | **TITLE** | **DATE/TIME**

FINAL SAMPLE DISPOSITION | **DISPOSAL METHOD** | **DISPOSED BY** | **DATE/TIME**

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-112

COLLECTOR
NCO SAMPLER

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA TURNAROUND
45 Days / 45 Days

AIR QUALITY ☐

SAMPLING LOCATION
C5857, I-107

PROJECT DESIGNATION
200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling

SAF NO.
F08-080

ICE CHEST NO.

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA
123163ES20

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
Environmental Sciences Laboratory

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-113 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-109	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N 4881	ACTUAL SAMPLE DEPTH: 210	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TRV5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN27	SOIL	APR 0 2 2008	1112	✓	✓

0486 88

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford APR 0 2 2008	1610	MO745 REEDY APR 0 2 2008	1610
J.C. Fulton, MO 745 RP	4-3-08 1200	D. Parcher	4-3-08 1200
D. Parcher	4-3-08 13:30	D Smith	4.3.08 13:30
Tom Baum	7-4-09 0830	AM Chacon JUL 3 1 2009	0830

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-113 PAGE 2 OF 2

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION CS857, I-109	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-115 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-111	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 PS13	ACTUAL SAMPLE DEPTH: 212.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN28	SOIL	APR 0 2 2008	1302	✓	✓

18279 NA

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 0 2 2008 1610	MMES. REF#1	APR 0 2 2008 1610
J. C. Fulton	4-3-08 1240	J. C. Fulton	4-3-08 1240
J. C. Fulton	4-3-08 13:30	D Smith	4-3-08 13:30
Steven Baum	7-31-09 0830	AM Chacon	JUL 31 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-115

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-111	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKT applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-117 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-113	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 13	ACTUAL SAMPLE DEPTH: 215.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TRV5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN29	SOIL	APR 0 2 2008	1432	✓	✓

28688 N/A

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 0 7 2008 1610	M0745-Ref#1	APR 0 2 2008 1610
J.C. Fulton	NO 745 4-3-08 1240	J.C. Fulton	4-3-08 1240
J.C. Fulton	4-3-08 13:30	DSmith	4-3-08 13:30
[illegible]	7-31-07 0850	AM Chacon	JUL 31 2009 0850

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-117

COLLECTOR
NCO SAMPLER Kevin Patterson
Fluor Hanford

SAMPLING LOCATION
C5857, I-113

ICE CHEST NO.

SHIPPED TO
Environmental Sciences Laboratory

COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR
TRENT, STEVE	373-5869	WIDRIG, DL

PROJECT DESIGNATION
200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling

SAF NO.
F08-080

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA
123163ES20

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND
45 Days / 45 Days

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-5003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-121

COLLECTOR
NCO SAMPLER — Kevin Patterson, Fluor Hanford

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA TURNAROUND
45 Days / 45 Days

AIR QUALITY ☐

SAMPLING LOCATION
C5857, I-117

PROJECT DESIGNATION
200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling

SAF NO.
F08-080

ICE CHEST NO.

FIELD LOGBOOK NO.
HNF-N-488-1 Pg 14

ACTUAL SAMPLE DEPTH
220'

COA
123163ES20

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
Environmental Sciences Laboratory

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN31	SOIL	APR 0 3 2008	0911	✓	✓

28688 N/K

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 0 3 2008 1410	MO 745 Ref #1	APR 0 3 2008 1410
MO 745 Ref #1	4-9-08 1230	Fluor Hanford	4-9-08 1230
D. E. PARCHEN	4-9-08 1350	D. E. PARCHEN	4/9/08 1350
Steven Baum / Steven Baum	7-31-08 1410	AM Chacon	JUL 31 2008 1650

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — **RECEIVED BY** — **TITLE** — **DATE/TIME**

FINAL SAMPLE DISPOSITION — **DISPOSAL METHOD** — **DISPOSED BY** — **DATE/TIME**

A-6003-618(01/06)

PART II
ESL080016
Page 196 of 397

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-121

COLLECTOR NCO SAMPLER — Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-117	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-123 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, I-119	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 14	ACTUAL SAMPLE DEPTH: 222.5'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - 02216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TN32	SOIL	APR 03 2008	1019

28688 N/A

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 03 2008 1610	MO745 Ref#1	APR 03 2008 1610
MO 745 Ref #1	4-9-08 1230	Fluor Hanford D.E. PARCHEN	4-9-08 1230
Fluor Hanford D. E. PARCHEN	4-9-08 1350	C Jom	4/9/08 1350
Tom Brown/Steven Brown	7-31-07 0830	AM Chacon	JUL 31 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-123

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-119	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-125 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-121	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 14	ACTUAL SAMPLE DEPTH: 2245'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN33	SOIL	APR 03 2008	1115	✓	✓

28688 N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 03 2008 1610	MO745 · REF #1	APR 03 2008 1610
MO 745 Ref #1	4-9-08 1230	Fluor Hanford D. E. PARCHEN	4-9-08 1230
Fluor Hanford D. E. PARCHEN	4-9-08 1350	C. Dovin	4/9/08 1350
Steven Baum / Steven Baum	7-31-09 0850	AM Chacon	JUL 31 2009 0850

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ES1080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-125

COLLECTOR Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, 1-121	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-127 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-123	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 14	ACTUAL SAMPLE DEPTH: 228'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN34	SOIL	APR 0 3 2009	1306	✓	✓

28688 N/A

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 0 3 2009 1610	MO745 REF#1	APR 0 3 2009 1610
MO 745 Ref #1	4-9-08 1270	Fluor Hanford D. E. PARCHEN	4-9-08 1270
Fluor Hanford D. E. PARCHEN	4-9-08 1350	C Tom	4/9/08 1350
Steven Baum / Steven Baum	7-31-08 0830	AM Chacon	JUL 31 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-127	PAGE 2 OF 2
COLLECTOR Kevin Patterson (Fluor Hanford)	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
NCO SAMPLER	TRENT, STEVE	373-5869	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	45 Days / 45 Days
C5857, I-123	200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		F08-080		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
			123163ES20	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9055_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-129 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-125	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 14	ACTUAL SAMPLE DEPTH: 230'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN35	SOIL	APR 0 3 2008	1412	✓	✓

28688 N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 0 3 2008 1610	MO745-REF#1	APR 0 3 2008 1610
MO 745 Ref #1	4-9-08	Fluor Hanford D. E. PARCHEN	4-9-08 1230
Fluor Hanford D. E. PARCHEN	4-9-08 1350	C. Tim	4/9/08 1350
Tracy Barnes	7-31-09 0830	AM Chacon	JUL 31 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080101

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-129

COLLECTOR NCO SAMPLER — Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N
SAMPLING LOCATION C5857, I-125	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A	

DATA TURNAROUND 45 Days / 45 Days

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/96)

PART II

Fluor Hanford Inc.

AK 4.4.09 A Chacon Mokler

Kevin Patterson

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-131 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-126	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 14	ACTUAL SAMPLE DEPTH: 232'.6	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TN36	SOIL	Ame 4/4/03 ~~APR 0 3 2008~~	0940

28688 NP

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson	APR 0 3 2008	Ame 4-4-03	APR 0 3 2008
J. Nowak	4/4/8 1515	NO 745 REF 1	4/4/8 1515
010 745 Ref #1	4-9-08 1242	D. Parcher	4-9-08 1242
D. Parcher	4-9-08 1350	C. Irwin	4-9-08 1350
Steven Baum	4-9-09 0871	AM Chacon	JUN 31 2009 0630

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-131

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, 1-126	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-111 PAGE 1 OF 2

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-106	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N4881	ACTUAL SAMPLE DEPTH: 205	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN25	SOIL	4-2-08	1640	✓	✓

020657

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson / Fluor Hanford	APR 0 2 2008 1610	Mo 745 - REF#1	APR 0 2 2008 1610
J. C. Fulton	4-3-08 1200	D. Parch	4-3-08 1200
D. Parch	4-3-08 13:30	DSmith	4-3-08 13:30
Steven Baum / Steven Baum	4-31-08 0830	AM Chacon	JUN 31 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-111

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-106	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-053 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-051	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 7	ACTUAL SAMPLE DEPTH	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM8

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX9	SOIL	3/24/08	1257	✓	✓
				028688	N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	3/24/08 1600	MO745-REF #1	3/24/08 1600
MO-745-REF #1	3-25-08 1300	Ed Kaver [signature]	3-25-08 1300
Ed Kaver / [signature]	3-25-08 1400	M. Valenta / M. Valle	3/25/08 1400
[signature] / [signature]	7-31-09 0830	AM Chacon [signature]	JUL 31 2009 0830

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL08-010

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-053 PAGE 2 OF 2

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-051	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N **DATA TURNAROUND** 45 Days / 45 Days

AIR QUALITY ☐

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-055 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Pattersor, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-053	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 7	ACTUAL SAMPLE DEPTH: 115'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM8

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY0	SOIL	3/24/08	1323	✓	✓

281088 N/A

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Pattersor, Fluor Hanford [signature]	3/24/08 1600	M0745 - REF #1	3/24/08 1600
M0-745 Ref #1	3-25-08 1300	Ed Kaur/[signature]	3-25-08 1300
Ed Kaur/[signature]	3-25-08 1400	M. Valenta/M. Vallo	3/25/08 1400
[signature]	7-7-09 0870	AM Chacon [signature]	JUN 3 1 2009 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-055

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-053	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS (Iodine-129) 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate Ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-057 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER / Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-055	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: 3/24/08 HNF-N-488-1 pg 7	ACTUAL SAMPLE DEPTH: 117'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM8

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY1	SOIL	3/24/08	1400	✓	✓
				28688	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	3/24/08 1600	M0745-Ref #1 3/24/08	1600
M0-745 Ref #1 3-25-08	1300	Ed Kaver/[signature] 3-25-08	1300
Ed Kaver/[signature] 3-25-08	1400	U. Valenta/M. Valeo 3/25/08	1400
Trevor Brown/[signature] 7-31-09	0850	AM Checon [signature] JUL 31 2009	0850

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-057	PAGE 2 OF 2
COLLECTOR NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-055	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-059 PAGE 1 OF 2

COLLECTOR: Kevin Patterson NCO SAMPLER: Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-056	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 157	ACTUAL SAMPLE DEPTH: 120'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM8

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY2	SOIL	3/24/08	1427	✓	✓
				28688	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson / Fluor Hanford [signature]	3/24/08 1600	MO745-REF A, 3/24/08	1600
MO-745 Ref #1 3-25-08	1700	EL Kaver / [signature] 3-25-08	1300
EL Kaver / [signature] 3-25-08	1400	M. Valenta / M. Valo 3/25/08	1400
Trevor Baum / [signature] 9-31-09	0890	AM Chase [signature] JUN 31 2009	0890

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-059

COLLECTOR Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-056	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-060 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, T-057	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 p47	ACTUAL SAMPLE DEPTH: 122.5	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N — DATA TURNAROUND: 45 Days / 45 Days

AIR QUALITY: ☐

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM8

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - 02216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY3	SOIL	3/24/08	1437	✓	✓
				28688	N/2

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	3/24/08 1600	M6745 Ref#1	3/24/08 1600
M0-745 Ref #1	3-25-08 1300		3-25-08 1300
	3-25-08 1400		3/25/08 1400
	7-31-08 0830	AM Chacon	JUL 31 2009 0831

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-060 PAGE 2 OF 2

COLLECTOR Kevin Patterson, NCO SAMPLER, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION CS857, I-057	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-061 PAGE 1 OF 2

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-058	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-488-1 Pg 7	**ACTUAL SAMPLE DEPTH** 125'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM9

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY4	SOIL	3/24/08	1503	✓	✓
				29420	3/24/08 NA

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	3/24/08 1600	MO745 REF#1	3/24/08 1600
MO-745 Ref #1	3-25-08 1300	EL Kaner [signature]	3-25-08 1300
EL Kaner [signature]	3-25-08 1400	M. Valenta / M. Valeo	3/25/08 1400
[signature] / [signature]	7-31-07 0830	AM Chan [signature]	JUL 30 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-061	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION Fluor Hanford C5857, I-058	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate Ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST F08-080-062 PAGE 1 OF 2

COLLECTOR	NCO SAMPLER — Kevin Patterson, Fluor Hanford
COMPANY CONTACT	TRENT, STEVE
TELEPHONE NO.	373-5869
PROJECT COORDINATOR	WIDRIG, DL
PRICE CODE	8N
DATA TURNAROUND	45 Days / 45 Days
SAMPLING LOCATION	C5857, 1-059
PROJECT DESIGNATION	200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling
SAF NO.	F08-080
AIR QUALITY	☐
ICE CHEST NO.	
FIELD LOGBOOK NO.	HNF-N-488-1 Pg 7
ACTUAL SAMPLE DEPTH	127.5
COA	123163ES20
METHOD OF SHIPMENT	GOVERNMENT VEHICLE
SHIPPED TO	Environmental Sciences Laboratory
OFFSITE PROPERTY NO.	N/A
BILL OF LADING/AIR BILL NO.	N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM9

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY5	SOIL	3/24/08	1516	✓	✓
				29420	N/A

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford [signature]	3/24/08 1600	MO545 Rif #1	3/24/08 1600
MO-745 RCF #1	3-25-08 1700	[signature]	3-25-08 1700
[signature]	3-25-08 1400	M. Valenta / M. Valeo	3/25/08 1400
[signature]	7-31-09 0830	AM Chacon [signature]	JUL 30 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A 6003-618(01/06)

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-062

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-059	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to ELS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-063 PAGE 1 OF 2

COLLECTOR
NCO SAMPLER — Kevin Patterson, Fluor Hanford

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA TURNAROUND
45 Days / 45 Days

AIR QUALITY ☐

SAMPLING LOCATION
C5857, I-060

PROJECT DESIGNATION
200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling

SAF NO.
F08-080

ICE CHEST NO.

FIELD LOGBOOK NO.
HNF N-488-1 pg 8

ACTUAL SAMPLE DEPTH
130'

COA
123163ES20

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
Environmental Sciences Laboratory

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM9

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY6	SOIL	3/25/08	0827	✓	✓
		LOT #		28688	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	3/25/08 1600	MO745-Ref 1	3/25/08 1600
MO745 Ref 1	3-31-8 1040	D Connolly	3-31-8 1040
D Connolly	3-31-8 1245	M. Valenza / M. Valenza	3-31-8 1245
Trent Bauer / Trent Bauer	7-31-09 0871	AM Chacon	JUL 31 2009 0870

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080163

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-063

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-060	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-064 PAGE 1 OF 2

COLLECTOR
NCO SAMPLER Kevin Patterson Fluor Hanford

COMPANY CONTACT
TRENT, STEVE

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA TURNAROUND
45 Days / 45 Days

SAMPLING LOCATION
CS857, I-061

PROJECT DESIGNATION
200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling

SAF NO.
F08-080

AIR QUALITY ☐

ICE CHEST NO.

FIELD LOGBOOK NO.
HNF-N-488 1 Pg 8

ACTUAL SAMPLE DEPTH
132.5'

COA
123163ES20

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
Environmental Sciences Laboratory

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM9

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY7	SOIL	3/25/08	0845	✓	✓
				28688	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford	3/25/08 1600	MO745 Ref #1	3/25/08 1600
MO745 Ref 1	3-31-8 1040	DConnolly	3-31-8 1040
DConnolly	3-31-8 1245	M Valenta / M Valenta	3-31-8 1245
Steven Barnes / Steven Barnes	JUL 31 2009 0570	AM Chacon	JUL 31 2009 0570

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION RECEIVED BY TITLE DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD DISPOSED BY DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-064

COLLECTOR Kevin Patterson Fluor Hanford NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-061	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-066 | PAGE 1 OF 2

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, I-063	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 8	ACTUAL SAMPLE DEPTH: 135'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM9

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY8	SOIL	3/25/08	0924	✓	✓
				28688	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson / Fluor Hanford [signature]	3/25/08 1600	M0745-REF#1	3/25/08 1600
M0745 Ref 1	3-31-8 1040	D Connolly [signature]	3-31-8 1040
D Connolly [signature]	3-31-8 1245	M. Valenta / M. Valeo	3-31-8 1245
Tom Brown / [signature]	JUL 31 2009 0830	AM Chacon [signature]	JUL 31 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-066	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-063	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-068 | PAGE 1 OF 2

COLLECTOR: Kevin Patterson NCO SAMPLER: Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-065	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 8	ACTUAL SAMPLE DEPTH: 137.2'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N | AIR QUALITY: ☐ | DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM9

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMY9	SOIL	3/25/08	0955	✓	✓
				28688	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson / Fluor Hanford [signature]	MAR 25 2008 1600	M0745 REF#1	MAR 25 2008 1600
M0745 Ref 1	3-31-8 1040	D Connolly [signature]	3-31-8 1040
D Connolly [signature]	3-31-8 1245	M. Valenta / M. Vallo	3-31-8 1245
[signature]	JUL 31 2009 0870	AM Chacon [signature]	JUL 31 2009 0870

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-068

COLLECTOR NCO SAMPLER — Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-065	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-070 PAGE 1 OF 2

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
NCO SAMPLER			PRICE CODE: 8N
SAMPLING LOCATION: C5857, I-067	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
AIR QUALITY: ☐	DATA TURNAROUND: 45 Days / 45 Days		
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 p 8	ACTUAL SAMPLE DEPTH: 140'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None	None	
TYPE OF CONTAINER	G/P	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	
VOLUME	1L	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN00	SOIL	MAR 25 2008	1022	✓	✓
				28688	N/a

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	MAR 25 2008 1600	M0745-Ref#1	MAR 25 2008 1600
M0745 Ref1	3-31-8 1040	M0745 D Connolly	3-31-8 1040
D Connolly	3-31-8 1245	M Valenta / M Valen	3-31-8 1245
[illegible]	JUN 3 1 2009 0830	AM Chec	JUN 3 1 2009 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-070	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-067	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) (Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc) 6010M_ICP_ASTM_AE (Add-On) (Beryllium, Boron, Lithium, Strontium, Thallium) 6010M_METALS_ICP_WE (TAL) (Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc) 6010M_METALS_ICP_WE (Add-On) (Beryllium, Boron, Lithium, Strontium, Thallium) 6020M_ICPMS_ASTM_AE (TAL) (Cadmium, Chromium, Silver) 6020M_ICPMS_ASTM_AE (Add-On) (Arsenic, Lead, Molybdenum, Selenium) 6020M_METALS_ICPMS_WE (TAL) (Cadmium, Chromium, Silver) 6020M_METALS_ICPMS_WE (Add-On) (Arsenic, Lead, Molybdenum, Selenium) RADISO_ICPMS_ASTM_AE (Technetium-99, Uranium-238) RADISO_ICPMS_WE (Iodine-129, Technetium-99, Uranium-238) I-129 by ICPMS (Iodine-129) 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE (Gross alpha) BETA_AE (Gross beta) ALPHA_WE (Gross alpha) BETA_WE (Gross beta) 2320_ALKALINITY (Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion) IC Anions - 9056_WE (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate) Cyanide (Total) - 335.2 (Cyanide) pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A (Total Inorganic Carbon, Total carbon, Total organic carbon)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-072 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, 1-069	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
AIR QUALITY: ☐			
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF.N.488.1 PER	ACTUAL SAMPLE DEPTH: 143'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216:

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN01	SOIL	MAR 25 2009	1048	✓	✓
				26688	N/A

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	MAR 25 2009 1600	M0745 - Ref # 1	MAR 25 2009 1600
M0745 Ref 1	3-31-8 1040	D Connolly [signature]	3-31-8 1040
D Connolly [signature]	3-31-8 1245	M. Valenta / M. Valeo	3-31-8 1245
Trevor Brown / [signature]	3 1 2009 0830	AM Chacon [signature]	3 1 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-072	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-069	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-074

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, 1-071	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 p8	ACTUAL SAMPLE DEPTH: 145'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SF=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN02	SOIL	MAR 2 5 2008	1303	✓	✓
				18279	N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	MAR 2 5 2008 1600	M0745 - Ref #1	MAR 2 5 2008 1600
M0745 Ref 1	3-31-8 1040	DConnolly	3-31-8 1040
DConnolly	3-31-8 1245	M. Valenta / M. Valeo	3-31-8 1245
Trent Bauer / [illegible]	JUL 3 1 2009 0850	AM Chacon	JUL 3 1 2009 0850

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-074	PAGE 2 OF 2
COLLECTOR Kevin Patterson NCO SAMPLER Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-071	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AF (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-076 PAGE 1 OF 2

COLLECTOR: Kevin Patterson, NCO SAMPLER, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, I-073	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 8	ACTUAL SAMPLE DEPTH: 147'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN03	SOIL	MAR 25 2008	1526	✓	✓

18279 N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	MAR 25 2008 1600	M0745-Ref#1	MAR 25 2008 1600
M0745 Ref 1	3-31-8 1040	D Connolly [signature]	3-31-8 1040
D Connolly [signature]	3-31-8 1245	M. Valenta / M Valeo	3-31-8 1245
Tracer Bann / [signature]	JUN 31 2009 0870	AM Chacon [signature]	JUN 31 2009 0870

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-076	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-073	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-078 PAGE 1 OF 2

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-074	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-408-1 Pg 8	**ACTUAL SAMPLE DEPTH** 150'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN04	SOIL	MAR 2 5 2008	1359	✓	✓

18279 N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	MAR 2 5 2008 1600	M0745 - REF #1	MAR 2 5 2008 1600
M0745 Ref 1	3-31-8 1040	D Connolly [signature]	3-31-8 1040
D Connolly [signature]	3-31-8 1245	M. Valenta / M. Valeo	3-31-8 1245
Tom Brown / [signature]	JUL 3 1 2009 0890	AM Chacon [signature]	JUL 3 1 2009 0870

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-078

COLLECTOR Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-074	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-079 PAGE 1 OF 2

PART II

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: CS857, I-075	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-487) Pg 8	ACTUAL SAMPLE DEPTH: 152.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None	None	
TYPE OF CONTAINER	G/P	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	
VOLUME	1L	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN05	SOIL	MAR 25 2008	1415	✓	✓

18279 N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	MAR 25 2008 1200	M0745 REF# 1	MAR 25 2008 1400
M0745 Ref 1	3-31-8 1040	D Connolly	3-31-8 1040
D Connolly	3-31-8 1245	M. Valenza / M. Valenza	3-31-8 1245
[illegible]	JUL 31 2009 0820	AM Chacon	JUL 31 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-079	PAGE 2 OF 2
COLLECTOR NCO SAMPLER — Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** BN	**DATA TURNAROUND**
SAMPLING LOCATION C5857, 1-075	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-081 PAGE 1 OF 2

COLLECTOR: Kevin Patterson / Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
NCO SAMPLER			
SAMPLING LOCATION: C5857, 1-077	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 8	ACTUAL SAMPLE DEPTH: 154.5'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN1

PRESERVATION	None	None	
TYPE OF CONTAINER	G/P	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	
VOLUME	1L	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1TN06	SOIL	MAR 25 2008	1500	✓	✓	
				18224	N/A	

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson	MAR 25 2008 1600	M0745 - Rep#1	MAR 25 2008 1600
M0745 Rep#1	3-31-8 1040	DConnolly	3-31-8 1040
DConnolly	3-31-8 1245	M. Valenta/M. Valenta	3-31-8 1245
[illegible]	JUN 3 1 2009 0830	AM Chacon	JUN 3 1 2009 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-081	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-077	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-083

PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-079	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N-488-1 Pg 9	ACTUAL SAMPLE DEPTH: 157.9'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN1

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN07	SOIL	MAR 2 6 2008	0945	✓	✓
				018279	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	MAR 2 6 2008 1300	M0745 - Ref# 1	MAR 2 6 2008 1300
M0745 Ref #1	3-31-08 1100	D. Parch [signature]	3-31-08 1100
D. Parch [signature]	1245 3.31.08	M. Valenta/M. Valenta	3/31/08 1245
Steven Brown/Steven Brown	JUL 3 1 2009 0830	AM Chaco [signature]	JUL 3 1 2009 0831

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-083	PAGE 2 OF 2
COLLECTOR NCO SAMPLER — Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-079	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-085 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-081	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N-488-1 Pg 9	ACTUAL SAMPLE DEPTH: 160'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNN1

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN08	SOIL	MAR 2 6 2008	1015	✓	✓
				18279	N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	MAR 2 6 2008 1300	M0745 Ref #1	MAR 2 6 2008 1100
M0745 Ref #1	3-31-08 1100	D. Parsch [signature]	3-31-08
D. Parsch [signature]	3-31-08 1245	M. Valenta / M. Valle	3/31/08 1245
Steve Barnes / Steve Barnes	JUL 3 1 2009 0830	AM Chacon [signature]	JUL 3 1 2009 0830

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-085	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-081	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-087 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-083	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 9	ACTUAL SAMPLE DEPTH: 162.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN1

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN09	SOIL	MAR 26 2008	1037	✓	✓

11279 N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	MAR 26 2008 1200	M0745-Ref#1	MAR 26 2008 1300
M0745 Ref #1	3-31-08 1100	D. Parch	3-31-08
D. Parch	1245 3-31-08	M. Valenta/M. Valos	3/31/08 1245
[illegible]	JUN 3 1 2009 0830	AM Chacon	JUN 3 1 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-087	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C5857, I-083	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080		
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163E520	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE, TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II
Page 251 of 397
ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-089 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER D-Parcha	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-085	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg. 10	ACTUAL SAMPLE DEPTH: 165'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNP3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN10	SOIL	3-27-08	0932	✓	✓

18279

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Parcha [signature]	3-27-08 1400	MO745 Ref #1	3-27-08 1600
MO 245 Ref #1	3-31-08 1100	D. Parcha [signature]	3-31-08 100
D. Parcha [signature]	3-31-08 1245	M. Valenta/M. Valenta	3/31/08 1245
[signature]	JUL 3 1 2009 0840	AM Checon [signature]	JUL 3 1 2009 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-089	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-085	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

PART II

Fluor Hanford Inc.

Fluor Hanford
D. E. PARCHEN

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-091

PAGE 1 OF 2

COLLECTOR: NCO SAMPLER	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-087	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg. 10	ACTUAL SAMPLE DEPTH: 167.5'	COA: 123163E520
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNP3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont.
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN11	SOIL	MAR 27 2008	1050	✓	✓

028 680

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford D. E. PARCHEN [signature]	3-27-08 1600	MO 745 Ref #1	3-27-08 1600
MO 745 Ref #1	3-31-08 1100	D. Parchen [signature]	3/31/08 1100
D. Parchen [signature]	3-31-08 1245	M. Valetta/M. Valbo	3/31/08 1245
[signature]	JUL 31 2009 0830	AM Chacon [signature]	JUL 31 2009 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESI 080096

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-091	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-087	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-093	PAGE 1 OF 2
COLLECTOR: NCO SAMPLER — Fluor Hanford D. E. PARCHEN	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: C5857, I-088	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N-488-1 pg 10	ACTUAL SAMPLE DEPTH: 170'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV3

PRESERVATION	None	None											
TYPE OF CONTAINER	G/P	Moisture Resistant Cont											
NO. OF CONTAINER(S)	1	1											
VOLUME	1L	200g											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1TN12	SOIL	MAR 2 7 2008	1325	✓	✓								
				28688									

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford D. E. PARCHEN [signature]	MAR 2 7 2008 1600	MO 745 Ref #1	3-27-08 1600
MO 745 Ref #4	3-31-08 1100	D. Parch [signature]	3-31-08 1100
D. Parch [signature]	3-31-08 1245	M. Vakhta / M. Vakhta	3/31/08 1245
Steven Bauer / [signature]	JUN 3 1 2009 0870	AM Chacon [signature]	JUN 3 1 2009 0870

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-093	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-088	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-094	PAGE 1 OF 2
COLLECTOR: NCO SAMPLER — Fluor Hanford D. E. PARCHEN	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: C5857, I-089	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 10	ACTUAL SAMPLE DEPTH: 172.5'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV3

PRESERVATION	None	None											
TYPE OF CONTAINER	G/P	Moisture Resistant Cont											
NO. OF CONTAINER(S)	1	1											
VOLUME	1L	200g											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1TN13	SOIL	3-27-08	1330	✓	✓								
				28688									

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford D. E. PARCHEN [signature]	3-27-08 1600	MO 745 Ref #1	3-27-08 1600
MO 745 Ref #1	3-31-08 1100	D. Parchen [signature]	3-31-08 1100
D. Parchen [signature]	3-31-08 1245	M. Vakenta / M. Valeo	3/31/08 1245
Trevor Bauer / [signature]	JUN 3 1 2009 0830	AM Chacon [signature]	JUN 3 1 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-094	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-089	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKT applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate Ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

PART II

ESL080016

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-095	PAGE 1 OF 2
COLLECTOR: NCO SAMPLER — Fluor Hanford D. E. PARCHEN	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: C5857, I-090	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1	ACTUAL SAMPLE DEPTH: 175'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV3

PRESERVATION	None	None											
TYPE OF CONTAINER	G/P	Moisture Resistant Cont											
NO. OF CONTAINER(S)	1	1											
VOLUME	1L	200g											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1TN14	SOIL	3-27-08	1410	✓	✓								
				28688									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: Fluor Hanford D. E. PARCHEN [signature]	DATE/TIME: 3-27-08 1600	RECEIVED BY/STORED IN: MO 745 RP #1	DATE/TIME: 3-27-08 1600	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: MO 745 RP #1	DATE/TIME: 3-31-08 1100	RECEIVED BY/STORED IN: D. Parchen [signature]	DATE/TIME: 3-31-08 1100	
RELINQUISHED BY/REMOVED FROM: D. Parchen [signature]	DATE/TIME: 3-31-08 1245	RECEIVED BY/STORED IN: M. Valenta / M. Vallo	DATE/TIME: 3/31/08 1245	
RELINQUISHED BY/REMOVED FROM: [signature]	DATE/TIME: JUL 31 2009 0830	RECEIVED BY/STORED IN: AM Chacon [signature]	DATE/TIME: JUL 31 2009 0830	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-095	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-090	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163E520	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-096	PAGE 1 OF 2
COLLECTOR: NCO SAMPLER — Fluor Hanford, D. E. PARCHEN	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: C5857, I-091	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg.10	ACTUAL SAMPLE DEPTH: 177.5'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV3

PRESERVATION	None	None	
TYPE OF CONTAINER	G/P	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	
VOLUME	1L	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN15	SOIL	3-27-08	1430	✓	✓
				29658	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: D. E. PARCHEN [signature]	DATE/TIME: 3-27-08 1600	RECEIVED BY/STORED IN: MO 745 Ref #1	DATE/TIME: 3-27-08 1600
RELINQUISHED BY/REMOVED FROM: MO 745 Ref #1	DATE/TIME: 3-31-08 1100	RECEIVED BY/STORED IN: D. Parch [signature]	DATE/TIME: 3-31-08 1100
RELINQUISHED BY/REMOVED FROM: D. Parch [signature] 1245	DATE/TIME: 3-31-08	RECEIVED BY/STORED IN: M. Valenta/M. Valto	DATE/TIME: 3/31/08 1245
RELINQUISHED BY/REMOVED FROM: Steven Baum/[signature]	DATE/TIME: JUL 3 1 2009 0830	RECEIVED BY/STORED IN: AM Chacon [signature]	DATE/TIME: JUL 3 1 2009 0870
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-096	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-091	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-097	PAGE 1 OF 2
COLLECTOR: NCO SAMPLER Fluor Hanford D. E. PARCHEN	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: C5857, I-092	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY: ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg. 10	ACTUAL SAMPLE DEPTH: 180'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN16	SOIL	3-27-08	1445	✓	✓
				28688	

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford D. E. PARCHEN [signature]	3-27-08 1600	MO 745 Ref #1	3-27-08 1600
MO 745 Ref #1	3-31-08 1100	D. Parchen [signature]	3-31-08 1100
D. Parchen [signature]	3-31-08 1245	M. Valenta / M. Valeo	3/31/08 1245
[signature]	JUN 3 1 2009 / 0830	DW Wess / [signature]	JUN 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-518(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-097	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-092	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-133	PAGE 1 OF 2
COLLECTOR NCO SAMPLER Fluor Hanford D.E. PARCHEN	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-093	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HWF-N-488-1 pg. 10	ACTUAL SAMPLE DEPTH 182.5'	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV3

PRESERVATION	None	None	
TYPE OF CONTAINER	G/P	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	
VOLUME	1L	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1TN17	SOIL	3-27-08	1455	✓	✓								
				286845									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Fluor Hanford D.E. PARCHEN	DATE/TIME 1600 3-27-08	RECEIVED BY/STORED IN MO 745 Ref #1	DATE/TIME 1600 3-27-08	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM MO 745 Ref #1	DATE/TIME 3-31-08	RECEIVED BY/STORED IN D. Parchen	DATE/TIME 1100 3-31-08	
RELINQUISHED BY/REMOVED FROM D. Parchen	DATE/TIME 1245 3-31-08	RECEIVED BY/STORED IN M. Valenta/M. Valle	DATE/TIME 3/31/08 1245	
RELINQUISHED BY/REMOVED FROM [illegible]	DATE/TIME JUN 3 1 2009 / 0830	RECEIVED BY/STORED IN [illegible]	DATE/TIME JUN 3 1 2009 / 0830	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-133	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, 1-093	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163E520	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 (Cyanide) pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-100	PAGE 1 OF 2
COLLECTOR NCO SAMPLER Fluor Hanford D. E. PARCHEN	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, 1-095	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-488-1 pg. 10	ACTUAL SAMPLE DEPTH 185'	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV4

PRESERVATION	None	None	
TYPE OF CONTAINER	G/P	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	
VOLUME	1L	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1TN18	SOIL	3-27-08	1505	✓	✓	
				28684		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford D. E. PARCHEN	3-27-08 1600	MO 745 Ref #1	3-27-08 1600
MO 745 Ref #1	3-31-08 1100	D. Parch	3-31-08 1100
D. Parch	3-31-08 1245	M. Valenta / M. Valenta	3/31/08 1245
[illegible]	JUN 2 1 2009 0830	[illegible]	JUN 2 1 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-518(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-100 PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **DATA TURNAROUND**
SAMPLING LOCATION C5857, I-095	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐ 45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A	

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate Ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II
ESL080016
Page 269 of 397

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-102

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
NCO SAMPLER	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY: ☐
SAMPLING LOCATION: C5857, I-097	FIELD LOGBOOK NO.: HNF-N-488-1	ACTUAL SAMPLE DEPTH: 187.5'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
ICE CHEST NO.	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	
SHIPPED TO: Environmental Sciences Laboratory			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV4

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - 02216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN19	SOIL	3/31/08	0843	✓	✓
				28688	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson	3/31/08 1220	DConnolly	3-31-8 1220
DConnolly	3-31-8 1245	M. Vaunta/M. Vala	3-31-8 1245
Trent Barnes	JUN 3 1 2009 / 0830	Burnett/Hulvell	JUN 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-102	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-097	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-104

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: C5857, I-101	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 192.5	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNP7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - 02216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN20	SOIL	APR 01 2008	1010	✓	✓

28688 M/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	APR 01 2008	M0745 Fig F1	APR 01 2008 1650
J.C. Fulton [signature]	M0745 Fridge 4-3-08 1240	J.C. Fulton [signature]	4-3-08 1240
J.C. Fulton [signature]	4-3-08 13:30	D Smith [signature]	4-3-08 13:30
[signature]	JUN 31 2009 / 0830	[signature]	JUN 31 2009 / 0830

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-104	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-101	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-106 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Fisher Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-102	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-4881	ACTUAL SAMPLE DEPTH: 195	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
Wi=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNP7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - 02216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN21	SOIL		415	✓	✓

026057

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	APR 0 1 2008 1550	[signature]	APR 0 1 2008 1550
[signature]	4-3-08 1240	[signature]	4-3-08 1240
[signature]	4-3-08 13:30	[signature]	4-3-08 13:30
[signature]	JUN 3 1 2009/0830	[signature]	JUN 3 1 2009/0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME	

A-6003-618(01/06)

PART II

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-106	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
NCO SAMPLER	TRENT, STEVE	373-5869	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	45 Days / 45 Days
C5857, I-102	200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		F08-080		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
			123163ES20	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-108 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Phister Chacon/Patterson	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-103	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-L pg13	ACTUAL SAMPLE DEPTH: 199'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNP7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN22	SOIL	~~4-1-08~~ 4/2/08	0830	✓	✓

026057

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
L Patterson [signature] APR 0 1 2008	4/2/08 1610	M0745 [signature] APR 0 1 2008	1610
J. C. Fulton [signature]	4-3-08 1240	J. C. Fulton [signature]	4-3-08 1240
J. C. Fulton [signature]	4-3-08 13:30	D Smith [signature]	4-3-08 13:30
[signature]	JUL 3 1 2009 / 0830	[signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-108 PAGE 2 OF 2

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-103	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE (Technetium-99, Uranium-238) RADISO_ICPMS_WE (Iodine-129, Technetium-99, Uranium-238) I-129 by ICPMS (Iodine-129) 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE (Gross alpha) BETA_AE (Gross beta) ALPHA_WE (Gross alpha) BETA_WE (Gross beta) 2320_ALKALINITY (Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion) IC Anions - 9056_WE (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate) Cyanide (Total) - 335.2 (Cyanide) pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A (Total Inorganic Carbon, Total carbon, Total organic carbon)

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-110 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-105	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 13	ACTUAL SAMPLE DEPTH: 202.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN24	SOIL	APR 0 2 2008	0915	✓	✓

26057 N/A

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 0 2 2008 1610	MO 745 REF #1 APR 02 2008	1610
J.C. Fulton	MO 745 R04 4-3-08 1200	D. Parchen	4-3-08 1200
D. Parchen	4-3-08 1330	DSmith	4.3.08 1330
Tom Brown / Steve Brown	JUL 3 1 2009 / 0830	DWWebb / DWWebb	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-110 PAGE 2 OF 2

COLLECTOR Kevin Patterson, Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-105	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N **DATA TURNAROUND** 45 Days / 45 Days

AIR QUALITY ☐

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-149 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: CS857, 1-099	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-H-488-1 Pg 12	ACTUAL SAMPLE DEPTH: 1 [illegible]	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNP7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TN37	SOIL	APR 0 1 2008	0855	✓	✓
				28688	N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford [signature]	APR 0 1 2008	MO 745 Frig # 1	APR 0 1 2008 1550
MO 745 Ref #1	4-3-08 1200	D. Parch [signature]	4-3-08 1200
D. Parch [signature]	4-3-08 1330	DSmith [signature]	4-3-08 13:30
[signature]	JUN 3 1 2009/0830	[signature]	JUN 3 1 2009/0830

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-149	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C5857, I-099	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-002

COLLECTOR: NCO SAMPLER A. M. Chacon Mother	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, 1-002	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 20.1	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM2

PRESERVATION	None	None	
TYPE OF CONTAINER	G/P	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	
VOLUME	1L	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMT2	SOIL	3-13-08	1078

29420 kp
2609 GOAL

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon	3/13/08 1531	MO 745 Frig #1	3/13/08 1530
MO 745 Ref #1	3-17-08 1300	Fluor Hanford D. E. PARCHEN	3-17-08 1300
Fluor Hanford D. E. PARCHEN	3-17-08 1445	M. Valunta/M. Valuo	3/17/08 1445
Gwen Brown/Gwen Brown	JUL 3 1 2009 0830	DWWebb/DWWebb	JUL 3 1 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-002	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-002	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-004 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER A. M. Chacon Mo Kler	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-004	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 25'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM2

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMT4	SOIL	3-13-08	1175	✓	✓
			029420	1LP	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon [signature]	3/13/08 1530	Mo 748 Frig #1	3/13/08 1530
MO 745 Ref #1	3-17-08 1300	Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1300
Fluor Hanford D. E. PARCHEN [signature]	1445 3-17-08	M. Valenta / M. Valio	3/17/08 1445
[signature] / [signature]	JUL 3 1 2009 / 0830	[signature] / [signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-004	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-004	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163E520	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-005 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER A. M. Chacon Mo Kler	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-005	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 27.5	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM2

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMT5	SOIL	3/13/08	1310	✓	✓
			029420		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon [signature]	3/13/08 1530	Mo 745 Frig 1#	3/13/08 1530
MO 745 Rm #1	3-17-08 1300	Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1300
Fluor Hanford D. E. PARCHEN [signature]	1445 3-17-08	M. Vakyta / M. Valo	3/17/08 1445
[signature]	JUL 3 1 2009 /0830	[signature]	JUL 3 1 2009 /0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL080016

PART II

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-005	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, 1-005	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-006 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER A. M. Chacon Mokler	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-006	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 30'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM2

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMT6	SOIL	3-13-08	13:25	✓	✓
		029420	1LP		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon [signature]	3/13/08 1530	Mo 745 Fr 1#	3/13/08 1530
MO 745 Ref #1	3-17-08 1300	Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1300
Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1445	M. Valento / M. Valeo	3/17/08, 1445
[signature] / [signature]	JUL 3 1 2009 / 0830	[signature] / [signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-006	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, 1-006	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-007 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER A. M. Chacon Makler	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-007	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 32'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM2

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMT7	SOIL	3-13-08	1335	✓	✓
				029420	

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon [signature]	3/13/08 1530	MO 745 Fig #1	3/13/08 1530
MO 745 Ref #1	3-17-08 1300	D. E. PARCHEN [signature]	3-17-08 1300
Fluor Hanford D. E. PARCHEN [signature]	1445 3-17-08	M. Valenta / M. Valto	3/17/08 1445
[signature] / [signature]	JUL 3 1 2009 / 0830	[signature] / [signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL0801

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-007 PAGE 2 OF 2

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-007	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N **DATA TURNAROUND** 45 Days / 45 Days

AIR QUALITY ☐

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-008 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER A. M. Chacon Mokler	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-008	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 34.8	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMT8	SOIL	3+3 08	1410	✓	✓
				0294420	1410

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon [signature]	3/13/08 1530	M 775 Fig #1	3/13/08 1530
MO 775 Ref #1	3-17-08 1300	Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1300
Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1445	M. Vaunta / M. Vallo	3/17/08 1445
[signature] / [signature]	JUL 3 1 2009 / 0830	DW WOSS / DW WOSS	JUL 3 1 2009 / 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

ESL0800166

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-008 PAGE 2 OF 2

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-008	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI appiles to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SOM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-009

COLLECTOR: NCO SAMPLER Chracon Mefler	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-009	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 317'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMT9	SOIL	3/13/08	1420	✓	✓
				028688	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon	3/13/08 1530	MO745 Ref #1	3/13/08 1530
MO745 Ref #1	3-17-08 1300	Fluor Hanford D.E. PARCHEN	3-17-08 1300
Fluor Hanford D.E. PARCHEN	3-17-08 1445	M. Valenta/M. Valdez	3/17/08 1445
[illegible]	JUL 3 1 2009 0830	[illegible]	JUL 3 1 2009 0830

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A 6003-618(01/06)

ESL0801

PART II

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-009	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-009	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-010 | PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Chacon / Mother	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-010	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 40'	COA: 123163E520
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N | AIR QUALITY: ☐ | DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMV0	SOIL	3/13/08	1427	✓	✓
				028688	

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon	3/13/08 1530	Mo 745 Rm #1	3/13/08 1530
Mo 745 Rm #1	3-17-08 1300	Fluor Hanford D. E. PARCHEN	3-17-08 1300
Fluor Hanford D. E. PARCHEN	3-17-08 1445	N. Vaughn / M. Valo	3/17/08 1445
Gaen Bauer / Steve Bauer	JUL 3 1 2009 0830	Gurwich / Gurwich	JUL 3 1 2009 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

PART II

ESL080916

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-010	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-010	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

ESL 080012

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-011 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER – Moulton/VOEBB	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-011	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 42'.5	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMV1	SOIL	3/14/8	0820

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Moulton [signature]	3/14/8	M0745 REF 1	3/14/8-1500
M0745 Ref 1	3-17-8 1345	D Connolly [signature]	3-17-8 1345
D Connolly [signature]	3-17-8 1445	M. Valenta / M. Valeo	3/17/08 1445
[signature] / [signature]	JUL 3 1 2009 / 0830	[signature] / [signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-011	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-011	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-012 | PAGE 1 OF 2

COLLECTOR NCO SAMPLER - Mor/FR/ WEBB	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-012	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 45'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMV2	SOIL	3/14/8	0840	\	\

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	3/14/8	MO745 Ref 1	3/14/8 1500
MO745 Ref 1	3-17-8 1345	D Connolly [signature]	3-17-8 1345
D Connolly [signature]	3-17-8 1445	M. Valenta / M. Valeo	3/17/08 1445
[signature]	JUL 3 1 2009 / 0830	DW Webb / DW Webb	JUL 3 1 2009 / 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL08016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-012	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-012	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE (Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-013

COLLECTOR NCO SAMPLER Mok/EX WEBB	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-013	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 45'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM3

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMV3	SOIL	3/14/8	0855

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	3/14/8	MO 745 Ref 1	3/14/8 1500
MO 745 Ref 1	3-17-8 1345	DCannilly	3-17-8 1345
DCannilly	3-17-8 1445	M. Valenta/M. Valenta	3/17/08 1445
[illegible]	JUL 3 1 2009 0870	[illegible]	JUL 3 1 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION RECEIVED BY TITLE DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD DISPOSED BY DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-013	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-013	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-014 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER – Mowter / Webb	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-014	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 50'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM4

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMV4	SOIL	3/14/8	~~0915~~ 0927 3/14/8

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mowter / [signature]	3/14/8	No 745 Ref 1	3/14/8-1500
M0745 Ref 1	3-17-8 1345	D Connolly [signature]	3-17-8 1345
D Connolly [signature]	3-17-8 1445	M. Valenta / M. Valeo	3/17/08, 1445
[signature] / [signature]	JUN 3 1 2009 / 0830	[signature] / [signature]	JUN 3 1 2009 / 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-014

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-014	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-015 PAGE 1 OF 2

COLLECTOR NCO SAMPLER – Moulton/Webb	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION CS857, I-015	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 52'.5	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N **DATA TURNAROUND** 45 Days / 45 Days

AIR QUALITY ☐

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM4

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMV5	SOIL	3/14/8	0940	–	–

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Moulton / J Webb	3/14/8	M0745 Ref 1	3/14/8 1500
M0745 Ref 1	3-17-8 1345	D Connolly QS	3-17-8 1345
D Connolly QS	3-17-8 1445	M. Valenta / M. Valenta	3/17/08 1445
Dean Baum / Steven Baum	JUN 3 1 2009 / 0830	D Wilhelm / D Wilhelm	JUN 3 1 2009 / 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION RECEIVED BY TITLE DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD DISPOSED BY DATE/TIME

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-015

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-015	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-016 PAGE 1 OF 2

COLLECTOR NCO SAMPLER - MOLLER / DUFFB	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-016	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 55'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM4

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMV6	SOIL	3/14/8	1020	—	—

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Moller / DuWe	3/14/8	MO745 REF 1	3/14/8-1500
MO745 Ref 1	3-17-8 1345	DConnolly DC	3-17-8 1345
DConnolly DC	3-17-8 1445	M. Valenta / M. Valeo	3/17/08 1445
Steven Baum / Steven Baum	JUN 3 1 2009/0830	DWWebb / DWWebb	JUN 3 1 2009/0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/05)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-016

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-016	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-017 PAGE 1 OF 2

COLLECTOR NCO SAMPLER - MONEK/ WEBB	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-017	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 57.5	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM4

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - 02216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMV7	SOIL	3/14/8	1040	\	\

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Monek / [signature] WL	3/14/8 1500	MO745 REF 1	3/14/8-1500
MO745 Ref 1	3-17-8 1345	D Connolly [signature]	3-17-8 1345
D Connolly [signature]	3-17-8 1445	M Valenta / M. Valeo	3/17/08 1445
[signature] / [signature]	JUL 3 1 2009 / 0830	[signature] / [signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL08016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-017

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-017	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-018 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER — MOKLEK/ WEBB	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-018	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 60'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, OL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM4

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMV8	SOIL	3/14/8	1055	\	\

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	3/14/8	MO 745 Ref 1	3/14/8-1500
MO 745 Ref 1	3-17-8 1345	DConnolly [signature]	3-17-8 1345
DConnolly [signature]	3-17-8 1445	M. Valenta / M. Valeo	3/17/08 1445
[signature]	JUL 3 1 2009 / 0830	[signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-018 PAGE 2 OF 2

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-018	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate Ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-019 | PAGE 1 OF 2

COLLECTOR: NCO SAMPLER - Moulter/WEBB	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-019	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 62'.5	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N | AIR QUALITY: ☐ | DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM4

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMV9	SOIL	3/14/8	1105

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Moulter / DL Widrig	3/14/8 1500	M0745 Ref 1	3/14/8-1500
M0745 Ref 1	3-17-8 1345	D Connolly DS	3-17-8 1345
D Connolly DS	3-17-8 1445	M. Valenta / M. Valenta	3/17/08 1445
Trent Barnes / Trent Barnes	JUN 3 1 2009 0830	Dawn Wright / Dawn Wright	JUN 3 1 2009 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-019	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-019	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-020 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Morker/WEBB	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-020	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 65'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: [ ]

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMW0	SOIL	3/14/8	1305

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Morker / [signature]	3/14/8	M0745 REF 1	3/14/8-1500
M0745 R [signature] #1	3-17-08 1300	Fluor Hanford / [signature]	3-17-08 1300
Fluor Hanford / O. E. PARCHEN / [signature]	1445 3-17-08	O. E. PARCHEN / M. Valenta / M. Valto	3/17/08 1445
[signature] / [signature]	JUL 31 2009 / 0830	[signature] / [signature]	JUL 31 2009 / 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL0801

PART II

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-020	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-020	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-021 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER – Mowrer / WEBB	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: CS857, I-021	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 67.5	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMW1	SOIL	3/14/8	1328

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	3/14/8-1500	Fluor Hanford D.E. PARCHEN [signature]	3-14-08 1500
Fluor Hanford D.E. PARCHEN [signature]	1443 3-17-08	M. Valenta / M. Valenta	3/17/08 1445
[signature]	JUL 3 1 2009 / 0830	[signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL0800 6

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-021	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-021	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-518(01/06)

PART I
ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-023 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER - Mo 4/F/ WFBB	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-023	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 70"	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMW2	SOIL		1330

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	3/14/8	Mo 745 [signature]	3/14/8-1500
Mo 745 R [signature]	3-17-08 1300	Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1300
Fluor Hanford D. E. PARCHEN [signature]	1445 3-17-08	M. Valenta / M. Valeo	3/17/08 1445
[signature]	3 1 2009/0830	[signature]	3 1 2009/0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ES080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-023	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C5857, I-023	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-025 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER, Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-025	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF	ACTUAL SAMPLE DEPTH: 72.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - 02216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMW3	SOIL	3/18/08	1447	✓	✓
				026057	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	3/18/08 1600	M0745 - REF #1	3/18/08 1600
M0745 Ref #1	3-19-08 1000	D. E. PARCHEN	3-19-08 1000
D. E. PARCHEN	3-19-08 1330	C. Irvin	3/19/08 1330
Teen Baum / Steve Baum	JUL 31 2009/0830	[illegible]	JUL 31 2009/0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-025	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-025	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-027 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, I-027	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 75.5'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMW4	SOIL	3/18/08	1410	✓	✓
				26057	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford	3/18/08 1600	MO745 REF#1	3/18/08 1610
MO 745 Ref #1	3-19-08 1600	Fluor Hanford D. E. PARCHEN	3-19-08 1600
Fluor Hanford D. E. PARCHEN	3-19-08 1330	C. IOVIN	3/19/08 1330
[illegible]	JUL 31 2009 0830	DW WEBB/DW Webb	JUL 31 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

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PART I

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-027 PAGE 2 OF 2

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, 1-027	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

ESL080016

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-029 PAGE 1 OF 2

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, I-029	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 4	ACTUAL SAMPLE DEPTH: 77.5'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMW5	SOIL	3/19/08	0832	✓	✓
				20057	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	3/19/08 1700	M1745-REF#1 3/19/08	1300
M0745 Ref #1	3-24-08 1300	Fluor Hanford, D. E. PARCHEN [signature]	3-24-08 1300
D. E. PARCHEN [signature]	3-24-08 1530	C. Ivan [signature]	3/24/08 1530
[signature]	JUL 3 1 2009 / 0830	[signature]	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-029	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-029	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II
ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-032

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: 15857, 1-031	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Rev 4	ACTUAL SAMPLE DEPTH: 80.0'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMW6	SOIL	3/19/08	0923	✓	✓

26057 NP

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	3/19/08 1300	MO745-REF #1	3/19/08 1300
MO 745 Ref #1	3-24-08 1340	D. E. PARCHEN	3-24-08 1340
Fluor Hanford, D. E. PARCHEN	3-24-08 1530	C. Ivory	3/24/08 1530
Steve Baum / Steve Baum	JUL 3 1 2009 0830	Dw wolf/Dw wolf	JUL 3 1 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

PART II

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-032	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-031	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

ESL080016

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-034 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: CS857, I-033	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1-194	ACTUAL SAMPLE DEPTH: 82.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMW7	SOIL	3/19/08	1130	✓	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	3/19/08 1300	MO 745 REF #1	3/19/08 1300
MO 745 Ref #1	3-24-08 1300	Fluor Hanford D. E. PARCHEN [signature]	3-24-08 1300
Fluor Hanford D. E. PARCHEN [signature]	3-24-08 1530	C Young [signature]	3/24/08 1530
Teen Bann / [signature]	JUL 3 1 2009 0830	DW Webb / DW Webb	JUL 3 1 2009 0830

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESI080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-034

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-033	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-036 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, T-034	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-194	ACTUAL SAMPLE DEPTH: 85'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMW8	SOIL	3/14/08	1147		
				29420	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford	3/14/08 1300	MO745-REF#1	3/14/08 1300
MO 745 Ref #1	3-24-08 1300	Fluor Hanford D.E. PARCHEN	3-24-08 1300
Fluor Hanford D.E. PARCHEN	3-24-08 1530		3/24/08 1530
	JUN 3 1 2009 0830		JUN 3 1 2009 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESI080006

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-036	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-034	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART I

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-037 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Pfister Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-035	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-4881	ACTUAL SAMPLE DEPTH: 87.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - 02216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMW9	SOIL	3-20-08	0805	✓	✓
				027420	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [signature]	3/20/08 1335	MO-745 REF #1	3/20/08 1335
MO745 [signature]	3-24-08 1320	Fluor Hanford D. E. PARCHEN [signature]	3-24-08 1320
Fluor Hanford D. E. PARCHEN [signature]	3-24-08 1530	C. [signature]	3/24/08 1530
[signature] / [signature]	JUN 3 1 2009 /0830	[signature]	JUN 3 1 2009 /0830

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESI080036

Page 334 of 397

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-037	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-035	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GK1 applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-038

COLLECTOR: NCO SAMPLER Pfister Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, I-036	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-4881	ACTUAL SAMPLE DEPTH: 90'	COA: 123163E520
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM6

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX0	SOIL	3-20-08	0820	✓	✓
				0089820	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [signature] 3/20/08	1335	MO-745 Ref #1 3/20/08	1335
MO 745 Ref #1 3-24-08	1300	D. E. PARCHEN [signature] 3-24-08	1300
Fluor Hanford D. E. PARCHEN [signature] 3-24-08	1530	C. Jun [signature] 3/24/08	1530
[signature] JUL 3 1 2009	0870	[signature] JUL 3 1 2009	0870
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-038	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-036	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-039 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Pfister/Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-037	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N-4881	ACTUAL SAMPLE DEPTH: 90'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM6

PRESERVATION	None	None	
TYPE OF CONTAINER	G/P	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	
VOLUME	1L	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX1	SOIL	3-20-08	0900	✓	✓
				029420	69

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. Pfister/[illegible] 3/20/08	1335	MO-745 Ref #1 3/20/08	1335
MO 745 Ref #1 3-24-08	1530	Fluor Hanford D. E. PARCHEN 3-24-08	1530
Fluor Hanford D. E. PARCHEN 3-24-08	1530	C. Lorn 3/24/08	1530
[illegible] JUN 3 1 2009	0830	[illegible] JUN 3 1 2009	0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ES080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-039	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION CS857, I-037	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-040 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Pfister Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: 25857, I-038	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-4881	ACTUAL SAMPLE DEPTH: 95'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX2	SOIL	3-20-08	0918	—	—
				037920	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [signature] 3/20/08	1335	MO-745 Ref #1 3/20/08	1335
MO 745 Ref #1 3-24-08	1300	Fluor Hanford D.E. PARCHEN [signature]	3-24-08 1300
Fluor Hanford D.E. PARCHEN [signature] 3-24-08	1530	Citrin [signature]	3/24/08 1530
[signature] / [signature] JUN 3 1 2009	0830	[signature] / [signature] JUN 3 1 2009	0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II
ESI080006
Page 340 of 397

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-040	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, 1-038	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-041 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Pfister Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-039	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-4881	ACTUAL SAMPLE DEPTH: 97.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX3	SOIL	3-20-08	0925	✓	✓
				029420	

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [signature] 3/20/08	1335	MO-745 REF #1 3/20/08	1335
MO 745 Ref #1	3-24-08 1300	Fluor Hanford D.E. PARCHEN [signature]	3-24-08 1300
Fluor Hanford D.E. PARCHEN [signature]	3-24-08 1530	C. [signature]	3/24/08 1530
Steve Barnes / [signature]	JUL 3 1 2009 / 0830	DW WEBB / DW Webb	JUL 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II
ESL080006
Page 342 of 397

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-041	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION CS857, I-039	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-043 PAGE 1 OF 2

COLLECTOR: NCO SAMPLER Pfister Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: E5857, I-041	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-4881	ACTUAL SAMPLE DEPTH: 100'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX4	SOIL	7/20/08	0940	—	—
				029420	

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [signature]	3/20/08 1335	1110-745 REF #1	3/20/08 1335
MO 745 Ref #1	3-24-08 1200	Fluor Hanford D.E. PARCHEN [signature]	3-24-08 1200
Fluor Hanford D.E. PARCHEN [signature]	3-24-08 1530	[signature]	3/24/08 1530
[signature] / [signature]	JUN 3 1 2009 0830	DW Wells / DW Wells	JUN 3 1 2009 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL0806

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-043 PAGE 2 OF 2

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION E5857, I-041	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N **DATA TURNAROUND** 45 Days / 45 Days

AIR QUALITY ☐

METHOD OF SHIPMENT GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-045

COLLECTOR: NCO SAMPLER — A. M. Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, 1-043	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488/1,7	ACTUAL SAMPLE DEPTH: 102.5'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX5	SOIL	3/24/08	0930	✓	✓
				29420	N/A

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: A. M. Chacon	3/24/08 1600	MO-745-REF#1	3/24/08 1600
RELINQUISHED BY/REMOVED FROM: MO-745 REF#1	3-25-08 1300		3-25-08 1300
RELINQUISHED BY/REMOVED FROM:	3-25-08 1400	M. Vaccaro / M. Vallo	3/25/08 1400
RELINQUISHED BY/REMOVED FROM:	JUL 3 1 2009 / 0870		JUL 3 1 2009 / 0830
RELINQUISHED BY/REMOVED FROM:	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM:	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM:	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ES10800

PART II

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-045	PAGE 2 OF 2
COLLECTOR NCO SAMPLER	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-043	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide {Total} - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-047 PAGE 1 OF 2

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, I-045	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N. 488.1 Pg 7	ACTUAL SAMPLE DEPTH: 105'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TMX6	SOIL	3/24/08	1005

29420 NA

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	3/24/08 1400	MO-745-Ref #1	3/24/08 1600
MO-745 Ref #1	3-25-08 1300	Ed Knox	3-25-08 1300
Ed Knox	3-25-08 1400	M. Valenta, M. Valle	3/25/08 1400
Trent Stenbaum	JUL 3 1 2009 0830	Dwiwell	JUL 3 1 2009 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-047	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-045	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-049 PAGE 1 OF 2

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-047	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 7	ACTUAL SAMPLE DEPTH: 107.2'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX7	SOIL	3/24/08	1034	✓	✓
				29420	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	3/24/08 1600	MOKIS - RCF#1	3/24/08 1600
MO-0745 RCF#1	3-25-08 13:00	Ed Kanse / [signature]	3-25-08 13:00
Ed Kanse / [signature]	3-25-08 1400	M. Valenta / M. Valeo	3/25/08 1400
[signature]	JUN 3 1 2009 / 0830	[signature]	JUN 3 1 2009 / 0830

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

ESL0800

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-049	PAGE 2 OF 2
COLLECTOR Kevin Patterson, Fluor Hanford; NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5857, I-047	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-051

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, I-049	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 p37	ACTUAL SAMPLE DEPTH: 109.5'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM8

PRESERVATION	None	None
TYPE OF CONTAINER	G/P	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1
VOLUME	1L	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TMX8	SOIL	3/24/08	1101	✓	✓
				29420	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	3/24/08 1600	MO745-REF#1	3/24/08 1600
MO-745-REF #1	3-25-08 1300	Ed Kauke	3-25-08 1300
Ed Kauke	3-25-08 1400	M. Valenta / M. Valenta	3/25/08 1400
[illegible]	JUL 3 1 2009 0830	[illegible]	JUL 3 1 2009 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-051	PAGE 2 OF 2
COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT TRENT, STEVE	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C5857, I-049	PROJECT DESIGNATION 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO. F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 123163ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Antimony, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Boron, Lithium, Strontium, Thallium} 6020M_ICPMS_ASTM_AE (TAL) {Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} 6020M_HG_ICPMS_AE; 6020M_HG_ICPMS_WE; GAMMA_GS; GAMMA_AE; GAMMA_WE; URANIUM ISOTOPIC RATIOS; ALPHA_AE {Gross alpha} BETA_AE {Gross beta} ALPHA_WE {Gross alpha} BETA_WE {Gross beta} 2320_ALKALINITY {Alkalinity, Bicarbonate, Calcium Carbonate, Carbonate ion} IC Anions - 9056_WE {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate} Cyanide (Total) - 335.2 {Cyanide} pH (Water) - 9045_WE; Conductivity - 9050_WE; TOC - ASTME1915A {Total Inorganic Carbon, Total carbon, Total organic carbon}

A-6003-613(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-001 | PAGE 1 OF 1

COLLECTOR: NCO SAMPLER A. M. Chacon Mohler	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-001	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 20'.1 22.6	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N | AIR QUALITY: ☐ | DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM2

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNC9	SOIL	3-13-08	1030	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon [signature]	3/13/08 1530	Mo 745 Fig 1	3/13/08 1530
MO 745 Rf #1	3-17-08 1300	D. E. PARCHEN [signature]	3-17-08 1300
D. E. PARCHEN [signature]	3-17-08 1445	M. Valenta / M. Valenta	3/17/08 1445
[signature]	7-31-09 0830	C Futch [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200-Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-022 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER – MONLEY / WEBB	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-022	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 70'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TND0	SOIL	3/14/8	1400

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Monley [signature]	3/14/8	MO745 REF 1	3/14/8-1500
MO 745 Ref #1	3-17-08 1300	Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1300
Fluor Hanford D. E. PARCHEN [signature]	3-17-08 1445	M. Valerio / M. Valero	3/17/08 1445
[signature] / [signature]	7-31-09 0830	[signature] / [signature]	7-31-09 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL0800 6

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-024 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-024	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 72.5'-75.0'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TND1	SOIL	3/18/08	1400

N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kel [illegible] Fluor Hanford	3/18/08 1600	MO 745 Ref #1	3/18/08 1600
MO 745 Ref #1	3-19-08 1000	Fluor Hanford D. E. PARCHEN	3-19-08 1000
Fluor Hanford D. E. PARCHEN	3-19-08 1330	C. DOVIN	3/19/08 1330
[illegible]	3-31-08 0830	CF [illegible]	3-31-08 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

PART II

ESL080306

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-026 | PAGE 1 OF 1

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-026	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 4	ACTUAL SAMPLE DEPTH: 75.6 - 78.1'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TND2	SOIL	3/19/08	0825	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	3/19/08 1300	ME745-REF#1	3/19/08 1700
ME745 Ref #1	3-24-08 1300	Fluor Hanford [signature]	3-24-08 1300
Fluor Hanford [signature]	3-24-08 1530	C. Farr [signature]	3/24/08 1530
[signature]	7-31-09 0830	[signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-028 | PAGE 1 OF 1

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-028	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF.N.498.1 Pg 4	**ACTUAL SAMPLE DEPTH** 77.6'-80.1'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM5

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TND3	SOIL	7/19/08	~~0882~~ 0858	✓

N/A

CHAIN OF POSSESSION | **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	7/19/08 1800	MO745-Ref#1 7/19/08	1800
MO745 Ref #1	3-24-08 1530	Fluor Hanford [signature]	3-24-08 1800
Fluor Hanford D.E. PARCHEN [signature]	3-24-08	C. Lem [signature]	3/24/08 1530
[signature] / [signature]	7-31-09 0830	[signature] / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc. | **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** | **F08-080-030** | PAGE 1 OF 1

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-030	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF.N-488.1 Pg 4	**ACTUAL SAMPLE DEPTH** 74.9' - 82.1'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N | **AIR QUALITY** ☐ | **DATA TURNAROUND** 45 Days / 45 Days | **METHOD OF SHIPMENT** GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TN38

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TND4	SOIL	3/19/08	1010

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford	3/19/08 1300	AL0745 - Ref #1	3/19/08 1300
AL0745 Ref #1	3-24-08 1500	Fluor Hanford E. PARCHEN	3-24-08 1500
Fluor Hanford	3-24-08 1530	JC Fulton	3/24/08 1530
[illegible]	3-31-08 0830	[illegible]	3-31-08 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-031 PAGE 1 OF 1

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION CS857, I-030-D	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-488-1 Pg 4	**ACTUAL SAMPLE DEPTH** 79.9'-82.1'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TN38

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	✓ 1 3/19/08 PER GEO
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TND5	SOIL	3/19/08	1010 ✓

N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	3/19/08 1300	Mo 745 REF #1	3/19/08 1300
Mo 745 Ref #1	3-24-08 1300	Fluor Hanford D. E. PARCHE [signature]	3-24-08 1300
Fluor Hanford D. E. PARCHEN [signature]	3-24-08 1530	C. Tom [signature]	3/24/08 1530
Trace Bauer / Steve Bauer	7-31-09 0830	CKM [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-033 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-032	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-388-1 Pg 4	ACTUAL SAMPLE DEPTH: 82.5 - ~~84.5~~ 85.0	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM6

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TND6	SOIL	3/19/08	1140	✓

N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford	3/19/08 1700	NO745 - REP#1	3/19/08 1700
NO 745 #1	3-24-08 1300	Fluor Hanford	3-24-08 1300
Fluor Hanford D. E. PARCHEN	3-24-08 1530		3/24/08 1530
	7-31-08 0830		7-31-08 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART I

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-042 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER Pfister Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-040	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-4881	ACTUAL SAMPLE DEPTH: 99.8-102	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TND8	SOIL	3-20-08	0956	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [signature] 3/20/08	1335	MO 745 REF #1 3/20/08	1335
MO 745 REF #1 3-24-08	1200	Fluor Hanford J.E. PARCHE [signature] 3-24-08	1200
Fluor Hanford J.E. PARCHE [signature] 5-24-08	1520	C. Lovin [signature] 5/24/08	1520
[signature] 7-31-09	0830	C Fulton [signature] 7-31-09	0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-044 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER A. M. Chacon	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-042	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 7	ACTUAL SAMPLE DEPTH: 101.6 - 104.1	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TND9	SOIL	3/24/08	0950	✓
				N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A. M. Chacon	3/24/08 1600	MO745-REF#1	3/24/08 1600
MO 745 - REF #1	3/25/08 1300	J. Herrick	3/25/08 1300
J. Herrick	3/25/08 1400	M. Valuta / M. Valuta	3/25/08 1400
Trent Bauer	7-31-09 0830	C. Fulton	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080096

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-046

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-044	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-488-1 P47	**ACTUAL SAMPLE DEPTH** 104.7'-107.2	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF0	SOIL	3/24/08	1020	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford	3/24/08 1600	MO-745, REF #1	3/24/08 1600
MO-745 - REF #1	3/25/08 1300	J. Herrick	3/25/08 1300
J. Herrick	3/25/08 1400	M. Valenta	3/25/08 1400
[illegible]	7-31-08 0830	[illegible]	7-31-08 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-048 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-046	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 7	ACTUAL SAMPLE DEPTH: 107.2-109.7	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum, Liquids, DS=Drum, Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF1	SOIL	3/24/08	1044	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	3/24/08 1600	MO745-REF #1	3/24/08 1600
MO-745-REF #1	3/25/08 1300	J. Herrick / [signature]	3/25/01 1300
J. Herrick / [signature]	3/25/08 1400	M. Valenta / M. Valeo	3/25/08 1400
Steven Banner / [signature]	7-31-09 0830	C. Fulton / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-050 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, I-048	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 7	ACTUAL SAMPLE DEPTH: 109.5' - 112'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order S400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF2	SOIL	3/24/08	1115	✓

N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	3/24/08 1600	MO-745-REF #1	3/24/08 1600
MO-745-REF #1	3/25/08 1300	J. Herrick / J. Herrick	3/25/08 1300
J. Herrick / J. Herrick	3/25/08 1400	M. Valuta / M. Valuta	3/25/08 1400
Steven Baum / Steven Baum	7-31-09 0830	C. Sutton / C. Sutton	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A 6003-618(01/06)

PART II

LS080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-052 PAGE 1 OF 1

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, I-050	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 7	ACTUAL SAMPLE DEPTH: 112.7-115.2'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM8

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF3	SOIL	3/24/08	1310	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	3/24/08 1600	MO745 REF#1	3/24/08 1600
MO745 Ref #1	3-25-08 1700	D. Parcher [signature]	3-25-08 1700
D. Parcher [signature]	3-25-08 1400	M. Valenta / M Valle	3/25/08 1400
Steven Baum / [signature]	7-31-09 0830	C Fulton / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-054 PAGE 1 OF 1

COLLECTOR: Kevin Patterson, NCO SAMPLER, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, I-052	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 7	ACTUAL SAMPLE DEPTH: 114.2-116.7'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM8

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF4	SOIL	3/24/08	1340	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	3/24/08 1600	MO745 REF#1 3/24/08	1600
MO 745 Ref#1	3-25-08 1300	D Parcher [signature]	3-25-08 1300
D. Parcher [signature]	3-25-08 1400	M. Vasenta / M Valeo	3/25/08 1400
Steven Baum / [signature]	7-31-09 0830	C Fu Hu / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-056 PAGE 1 OF 1

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **DATA TURNAROUND**
SAMPLING LOCATION C5857, I-054	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐ 45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-488.1 Pg 7	**ACTUAL SAMPLE DEPTH** 117.6'-120.1'	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM8

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF5	SOIL	3/24/08	1416	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	3/24/08 1600	M0745 REF #1	3/24/08 1600
M0745 Ref #1	3-25-08 1300	D. Parche [signature]	3-25-08 1700
D. Parche [signature]	3-25-08 1400	M. Valente / M. Valle	3/25/08 1400
Steven Bauer / [signature]	7-31-09 0830	C Fulton [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-065 PAGE 1 OF 1

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, I-062	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 8	ACTUAL SAMPLE DEPTH: 134.7' - 137.2'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM9

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF7	SOIL	3/25/08	0936	✓

N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	3/25/08 1600	MO745 - REF#1	3/25/08 1600
MO 745 REF#1	3-31-08 1100	D. Parch [signature]	3-31-08 1100
D. Parch [signature]	3-31-08 1245	P. Jim [signature]	3/31/08 1245
Tiana Baum / [signature]	7-31-09 0830	C. Fulton / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-067 PAGE 1 OF 1

COLLECTOR: Kevin Patterson, Fluor Hanford NCO SAMPLER	COMPANY CONTACT: TRENT, STEVE TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: C5857, I-064	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 8 ACTUAL SAMPLE DEPTH: 137.2'-19.7'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNM9

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF8	SOIL	MAR 25 2008	1005	✓
				N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	MAR 25 2008 1600	MO745 Ref#1	MAR 25 2008 1600
MO 745 Ref #1	3-31-08 1100	D. [signature]	3-31-08 1100
D. [signature]	3-31-08 1245	C. [signature]	3/31/08 1245
Steven Baum / [signature]	7-31-09 0830	C. [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II
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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-069 PAGE 1 OF 1

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, I-066	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 8	ACTUAL SAMPLE DEPTH: 140.4'-142.9	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNM9

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNF9	SOIL	MAR 25 2009	1038	✓

N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	MAR 25 2009 1600	M0745 REF#1	MAR 25 2009 1600
MO 745 Ref #1	3-31-09 1100	D. Parch [signature]	3-31-09 1100
D. Parch [signature]	3-31-09 1245	C. Irvin [signature]	3/31/08 1245
Bruce Bauman / [signature]	7-31-09 0830	C Fulton [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-071 PAGE 1 OF 1

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-068	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF.N.488-1 pg 4	**ACTUAL SAMPLE DEPTH** 142.4' - 145	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNH0	SOIL	MAR 25 2008	1239	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford [signature]	MAR 25 2008 1600	MO 745 Ref #1	MAR 25 2008 1600
MO 745 Ref #1	3-31-08 1100	D. Parcher [signature]	3-31-08 1100
D. Parcher [signature]	3-31-08 1245	C. Irvin [signature]	3/31/08 1245
Tracer Baum / Steve Baum	7-31-09 0830	C. Fulton / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-073

PAGE 1 OF 1

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-070	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 8	ACTUAL SAMPLE DEPTH: 145.3 - 147.8	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TNN0

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNH1	SOIL	MAR 25 2008	1317	✓
				N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	MAR 25 2008 1600	M0745 REF#1	MAR 25 2008 1600
M0745 Ref #1	3-31-08 1100	D. Parch [signature]	3-31-08 1100
D. Parch [signature]	3-31-08 1245	C. Ioni [signature]	3/31/08 1245
Steven Baum / [signature]	7-31-08 0830	C Fulton [signature]	7-31-08 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-075 | PAGE 1 OF 1

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	AIR QUALITY: ☐	DATA TURNAROUND: 45 Days / 45 Days	
SAMPLING LOCATION: C5857, 1-072	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 8	ACTUAL SAMPLE DEPTH: 147.5 - 150'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNH2	SOIL	MAR 7 5 2008	1346	✓

N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	MAR 7 5 2008 1600	M0745-Ref#1	MAR 7 5 2008 1600
M0745 Ref#1	3-31-08 1100	D. Parker	3-31-08 1100
D. Parker	3-31-08 1245	P. Irwin	3/31/08 1245
Sam Bamm / Steve Bamm	3-31-08 0830	CF Fulton	3-31-08 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART I

ES080016

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-080	PAGE 1 OF 1
COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: C5857, I-076	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 8	ACTUAL SAMPLE DEPTH: 154.5' - 157'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN0

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNH4	SOIL	MAR 25 2008	1519	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	MAR 25 2008 1600	MO745 REF #1	MAR 25 2008 1600
MO 745 Ref #1	3-31-08 1600	D. Parcher [signature]	3-31-08 1600
D. Parcher [signature]	3-31-08 1245	C. [signature]	3/31/08 1245
Steven Bauer / [signature]	7-31-09 0830	CFU Hon / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-082

COLLECTOR: Kevin Patterson, Fluor Hanford (NCO SAMPLER)	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, 1-078	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 9	ACTUAL SAMPLE DEPTH: 157.9'-160.4'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN1

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNH5	SOIL	MAR 2 6 2008	1000	✓
				N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	MAR 2 6 2008 1100	MOTUPRAM	MAR 2 6 2008 1100
MO745	3-31-08 1100	D. Parch	3-31-08 1100
D. Parch	3-31-08 1245	M. Valenta/M. Valo	3/31/08 1245
Tom Bauer/Tom Bauer	3-31-08 0830	CTUDM/Chris Tuttle	3-31-08 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-518(01/06)

PART II
ESL080016
Page 377 of 397

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-084	PAGE 1 OF 1
COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: C5857, I-080	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N 488.1 pg 9	ACTUAL SAMPLE DEPTH: 160' - 162.5'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum, Liquids, DS=Drum, Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN1

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNH6	SOIL	MAR 2 6 2008	1027	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	MAR 2 6 2008 1100	M0745 [signature]	MAR 2 6 2008 1300
M0745 [signature]	3-31-08 1100	D. Parch [signature]	3-31-08 1100
D. Parch [signature]	1245 3-31-08	M. Valenta/M. Valeo	3/31/08 1245
Stacy Bann/[signature]	3-31-09 0830	C Fulton [signature]	3-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-086 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: C5857, I-082	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-4881 pg 9	ACTUAL SAMPLE DEPTH: 162.7'-165.2'	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum, Liquids, DS=Drum, Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNN1

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNH7	SOIL	MAR 26 2008	1109

N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	MAR 26 2008 1300	MO745-Ref#1	MAR 26 2008 1300
MO 745 Ref #1	3-31-08 1100	D. Parch [signature]	3-31-08 1100
D. Parch [signature]	3-31-08 1245	M. Vakma / M. Valeo	3/31/08 1245
Steven Baum / Steven Baum	7-31-08 0830	C Fulton [signature]	7-31-08 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-088 | PAGE 1 OF 1

COLLECTOR NCO SAMPLER Fluor Hanford D. E. PARCHEN	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-084	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-4884 ps(1)	**ACTUAL SAMPLE DEPTH** 165.2' - 167.7'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNP3

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNH8	SOIL	MAR 27 2008	1010	—

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford D. E. PARCHEN [signature]	MAR 27 2008 1600	MO 745 Ref #1	3-27-08 1600
MO 745 Ref #1	3-31-08	D. Parch [signature]	3-31-08 1100
D. Parch [signature]	1245 3-31-08	M. Valero / M. Valero	3/31/08 1245
Steven Baum / [signature]	9-31-09 0830	[signature]	9-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-090 PAGE 1 OF 1

COLLECTOR NCO SAMPLER D. Parchen	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-086	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-488-1 pg. 10	**ACTUAL SAMPLE DEPTH** 167.1' - 170.1'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNP3

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNH9	SOIL	3-27-08	1130 ✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford D.E. PARCHEN [signature]	3.27.08 1600	MO 745 Ref #1	3-27-08 1600
MO 745 Ref #1	3-31-08 1100	D. Parchen [signature]	3-31-08 1100
D. Parchen [signature]	3-31-08 1245	M. Valenta / M. Valenta	3/31/08 1245
Teresa Baum / [signature]	3-31-08 0830	C Fulton / [signature]	3-31-08 0850

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-080-099	PAGE 1 OF 1
COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: C5857, I-094	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080	AIR QUALITY ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 185 - 187.5	COA: 123163ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV3

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNJ1	SOIL	3/31/08	0832	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford [signature]	3/31/08 1050	D Connolly [signature]	3-31-8 1050
D Connolly [signature]	3-31-8 1245	M. Vakata/[signature]	3-31-8 1245
[signature]	7-31-09 0830	C F Hanford [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-101 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER Kevin Patterson Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: CS857, I-096	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 12	ACTUAL SAMPLE DEPTH: 187'-189.5'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV4

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNJ2	SOIL	APR 0 1 2008	0824	✓
				N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	APR 0 1 2008	MO745 Frg #1	APR 0 1 2008 1550
MO 745 Rmt #1	4-3-08	D. Parche [signature]	4-3-08
D. Parche [signature]	4-7-08 13:30	DSmith [signature]	4-3-08 13:30
[signature] / [signature]	7-31-09 0800	C Fulton [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

ESL08006

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-103 PAGE 1 OF 1

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-098	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-488-1 pg 12	**ACTUAL SAMPLE DEPTH** 189.8 - 192.3'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNP7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	1
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNJ3	SOIL	APR 0 1 2008	0820	✓

N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	APR 0 1 2008	M0745 Frge #1	APR 0 1 2008 1550
M0745 Rm #1	4-3-08 1200	D Parchen [signature]	4-3-08 1200
D. Parch [signature]	4-3-08 13:30	DSmith [signature]	4-3-08 13:30
Steven Bauer / [signature]	7-31-09 0930	C Fulton / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-105 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER PFISTER, CHACON	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-100 192.5-195	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNFN-488-1	ACTUAL SAMPLE DEPTH: 192.5-195	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TNP7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNJ4	SOIL	4/1/08	1300 ✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R Pfister / [signature]	4/1/08	WI748 Frac #1	1550
J.C. Fulton / [signature]	4-3-08 1240	J.C. Fulton / [signature] APR 01 2008	4-3-08 1240
J.C. Fulton / [signature]	4-3-08 13:30	D Smith / [signature]	4-3-08 13:30
Steven Barnes / [signature]	7-31-09 0830	C Fulton / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

PART II

ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-114 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C5857, I-108	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 pg 13	ACTUAL SAMPLE DEPTH: 209.7'-212.2'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV5

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNJ6	SOIL	APR 0 2 2008	1255 ✓

N/A

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson	APR 0 2 2008 1610	MO745 REF#1	APR 0 2 2008 1610
J.C. Fulton	4-3-08	D. Parcher	4-3-08
D. Parcher	4-3-08	D Smith	4-3-08 13:30
Fran Bamm / Ethan Bamm	5/01 0830	C F Hall	5-01-09 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-116 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: CS857, I-110	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling	SAF NO.: F08-080	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N-488-1 Pg 13	ACTUAL SAMPLE DEPTH: 213.2-213.7'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE	SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A	BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV5

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNJ7	SOIL	APR 0 7 2008	1418

N/A

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fluor Hanford	APR 0 7 2008 1610	M0745 - REF #1	APR 0 7 2008 1610
M0745 Ref #1	4-3-08 1200	D. Parcher	4-3-08
D. Parcher	4-3-08 1330	D Smith	4-3-08 1330
Steve Bram	4-31-08 0830	C Hatton	4-31-08 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-118 PAGE 1 OF 1

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
PRICE CODE: BN	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5857, I-112	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
AIR QUALITY: ☐			
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 13	ACTUAL SAMPLE DEPTH: 216.6'-219.1'	COA: 123163ES20
METHOD OF SHIPMENT: GOVERNMENT VEHICLE			
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV5

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TNJ8	SOIL	APR 0 2 2008	1510	✓

N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson [signature]	APR 0 2 2008 1610	MO 745-REF#1	APR 0 2 2008 1610
J.C. Fulton [signature]	4-3-08 1200	D. Parch [signature]	4-3-08 1200
D. Parch [signature]	4-3-08 13:30	D Smith [signature]	4-3-08 13:30
Steven Bauer / [signature]	4-31-09 0830	C Fulton [signature]	4-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-120

COLLECTOR NCO SAMPLER	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-114	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-486-1	**ACTUAL SAMPLE DEPTH** pg N 217.3 - 219.8'	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV5

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNJ9	SOIL	~~APR 1 2008~~ 4/3/08	0825

N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	APR 0 3 2008 1410	MO 745 · REF #1	4/3/08 1410
MO 745 Ref #1	4-9-08 1230	Fluor Hanford D. E. PARCHEN	4-9-08
Fluor Hanford D. E. PARCHEN	4-9-08 1350	C. Tom	4/9/08 1350
[illegible]	2-3-09 0930	[illegible]	2-3-09 0930

LABORATORY SECTION RECEIVED BY — **TITLE** — **DATE/TIME**

FINAL SAMPLE DISPOSITION DISPOSAL METHOD — **DISPOSED BY** — **DATE/TIME**

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

A-6003-618(01/06)

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ESL080016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-122 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-116	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1	ACTUAL SAMPLE DEPTH: pg 14 219.5'-222.1'	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV6

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNK0	SOIL	APR 0 3 2008	0925 ✓

N/A

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Kevin Patterson, Fluor Hanford	APR 0 3 2008 1610	RECEIVED BY/STORED IN: MO745 - REF #1	APR 0 3 2008 1610
RELINQUISHED BY/REMOVED FROM: MO 745 Ref #1	4-9-08 1220	RECEIVED BY/STORED IN: Fluor Hanford D. E. PARCHEN	4-9-08 1220
RELINQUISHED BY/REMOVED FROM: Fluor Hanford D. E. PARCHEN	4-9-08 1350	RECEIVED BY/STORED IN:	4/9/08 1350
RELINQUISHED BY/REMOVED FROM:	DATE/TIME	RECEIVED BY/STORED IN: C Fulton	7-31-09 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-124 PAGE 1 OF 1

COLLECTOR: Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
NCO SAMPLER			PRICE CODE: 8N
SAMPLING LOCATION: C5857, I-118	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 ~ Geochemical Modeling		SAF NO.: F08-080
			AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF N 4881	ACTUAL SAMPLE DEPTH: 220' – 224.5	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TRV6

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNK1	SOIL	APR 0 3 2000	1048

N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford APR 0 3 2000	1610	mo 745 Ref #1 APR 0 3 2000	1610
RELINQUISHED BY/REMOVED FROM: mo 745 Ref #1	DATE/TIME: 4-9-08 1330	RECEIVED BY/STORED IN: Fluor Hanford D. E. PARCHEN	DATE/TIME: 4-9-08
RELINQUISHED BY/REMOVED FROM: Fluor Hanford D. E. PARCHEN	DATE/TIME: 4-9-08 1350	RECEIVED BY/STORED IN:	DATE/TIME: 4/9/08 1350
RELINQUISHED BY/REMOVED FROM: Steve Bram	DATE/TIME: 7-31-09 0830	RECEIVED BY/STORED IN:	DATE/TIME: 7-31-09 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.

(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

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ESL080016
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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-126 | PAGE 1 OF 1

COLLECTOR NCO SAMPLER	Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N
SAMPLING LOCATION C5B57, I-120		**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080	**AIR QUALITY** ☐
ICE CHEST NO.		**FIELD LOGBOOK NO.** HNF-N-488-1 pg 14	**ACTUAL SAMPLE DEPTH** 224.5'-227'	**COA** 123163ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Environmental Sciences Laboratory		**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A	

DATA TURNAROUND 45 Days / 45 Days

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV6

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	4/3/08
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

DUE to only 20% Recovery PER GEO.

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNK2	SOIL	APR 03 2008	1245 ✓

CHAIN OF POSSESSION | **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford	APR 03 2008 1610	MO745 REF#1	APR 03 2008 1610
MO 745 Ref #1	4-9-08 1230	Fluor Hanford D. E. PARCHEN	4-9-08 1230
Fluor Hanford D. E. PARCHEN	4-9-08 1350		4/9/08 1350
Tom Brown / [signature]	7-31-09 0830	C Fulton / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

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COLLECTOR: NCO SAMPLER — Kevin Patterson, Fluor Hanford	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, I-122	PROJECT DESIGNATION: 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		SAF NO.: F08-080
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1 Pg 14	ACTUAL SAMPLE DEPTH: 227.2-229.3	COA: 123163ES20
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE: Radioactive Tie To B1TRV6

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNK3	SOIL	APR 03 2008	1347

N/A

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson, Fluor Hanford	APR 03 2008 1140	Mo 745 Ref #1	APR 03 2008 1610
Mo 745 Ref #1	4-9-08 1200	D. E. PARCHEN	4-9-08 1200
Fluor Hanford, D. E. PARCHEN	4-9-08 1350	C Fun	4/9/08 1350
Fran Baum / Fran Baum	7-31-09 0830	CFuhrer	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

*** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-080-130 PAGE 1 OF 1

COLLECTOR NCO SAMPLER Kevin Patterson Fluor Hanford	**COMPANY CONTACT** TRENT, STEVE	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION CS857, I-124	**PROJECT DESIGNATION** 200-TW-1 Characterization for Well 299-E33-342 - Geochemical Modeling		**SAF NO.** F08-080
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-488-1 Pg 14	**ACTUAL SAMPLE DEPTH** 230-232.5	**COA** 123163ES20
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV6

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNK4	SOIL	APR 03 2009	1505 ✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Kevin Patterson Fluor Hanford [signature]	APR 03 2009 1610	MO745 Ref #1	APR 03 2009 1610
MO 745 Ref #1	4-9-08 1350	Fluor Hanford D. E. PARCHEN [signature]	4-9-08 1350
Fluor Hanford D. E. PARCHEN [signature]	4-9-08 1350	C Irm [signature]	4/9/08 1350
Steven Barnes / [signature]	7-31-09 0830	C Fuller / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; CATIONEXCH_TR; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; KD - Batch;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-075-005 PAGE 1 OF 1

COLLECTOR: NCO SAMPLER D Connolly	COMPANY CONTACT: TRENT, STEVE	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5857, 1-132	PROJECT DESIGNATION: 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G		SAF NO.: F08-075
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-488-1	ACTUAL SAMPLE DEPTH: 241.6'-243.1'	COA: 123515ES10
SHIPPED TO: Environmental Sciences Laboratory	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNR9	SOIL	4-8-08	1350 ✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D Connolly	4-8-8 1510	M0745 Ref 1	4-8-8 1510
M0745 Ref 1	4-9-08 1320	Fluor Hanford D.E. PARCHER	4-9-08 1320
Fluor Hanford D.E. PARCHER	4-9-08 1350		4/9/08 1350
	7-31-09 0930		7-31-09 0930

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** ESL is to determine unsaturated hydraulic conductivity using the method(s) best suited for the soil texture and type.
** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; Particle Density - D854; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; Saturated Hydraulic Conductivity; CATIONEXCH_TR; KD - Batch;

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-075-001 PAGE 1 OF 1

COLLECTOR NCO SAMPLER MUKLER/ CHACON	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5857, I-127	**PROJECT DESIGNATION** 200-BP-5 OU Characterization for Wells 299-E33-341 and 299-E33-342 - G		**SAF NO.** F08-075
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 232'6, 235'5	**COA** 123515ES10
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To B1TRV7

PRESERVATION	None
TYPE OF CONTAINER	Split Spoon Liner
NO. OF CONTAINER(S)	2
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1TNR8	SOIL	4/4/8	1025

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mukler/ [signature]	4/4/8 1515	MO 745 REF#1	4/4/8 1515
MO 745 Ref #1	4-17-08 1200	D. Parch [signature]	4-17-08 1200
D. Parch [signature]	4-17-08 1400	D Smith [signature]	4-17-08 1400
[signature] / [signature]	7-31-09 0830	C Fulton / [signature]	7-31-09 0830

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** ESL is to determine unsaturated hydraulic conductivity using the method(s) best suited for the soil texture and type.
** ESL is to submit copies of all Chain of Custodies and associated sample login documentation to EIS-SDM within 24 hours of sample receipt. They may be sent via e-mail to ^CPP Sample Management.
(1)Density; Particle Density - D854; Particle Size (Dry Sieve) - D422; Particle Size (Hydrometer) - D422; Saturated Hydraulic Conductivity; CATIONEXCH_TR; KD - Batch;

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

A-6003-618(01/06)

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C5807, TW-1
I-126 - Use for I-127

PART II

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-080
Sample # W08GR00936
Client ID: B1TRV7 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080731
Department: Radiochemistry
Sampled: 04/04/08
Received: 04/04/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
A/B by Liquid Scintillation											
Gross alpha	12587-46-1	LA-508-421	U	-3.90	pCi/g	+-3.90	pCi/g	1.00	2.6		04/07/08
Gross beta	12587-47-2	LA-508-421		15.3	pCi/g	+-3.67	pCi/g	1.00	2.8		04/07/08

ESL080016

MDL = Minimum Detection Limit U - Analyzed for but not detected above limiting criteria(inorg)
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor

* - Indicates results that have NOT been validated; + - indicates more than six qualifier symbols

Report WGPP/ver. 5.2
Groundwater Remediation Program