0072508

FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Wednesday, January 3, 2007

Sample Authorization Form (SAF) Number: I06-060 & I07-009

SDG Number (assigned by Sample Management): FP0398 DAyes 1/10/07

Attachments (check all that apply or N/A):

X	Test Results
X	Narrative Summary
X	Chain of Custody(s)
X	Logbook Pages
N/A	Anomaly Report

JAN 2007 RECEIVED

Total number of pages (including cover sheet): 8

Comments:
200-UP-1 OU LOI GW - Hexavalent Chromium - Water

UNABLE TO LOCATE CHAINS OF CUSTODY EXCEPT FOR SAMPLE B1D7K1. ORIGINIALLY THE DATA WAS NOT TO BE ENTERED INTO HEIS
THESE TESTS WERE CONDUCTED USING QC-2

Analyst Signature — Date: 1-3-2007

Reviewer's Signature — Date: 1/3/07

Distribution: CPP Sample Management A0-21
Project (Specify)

Requires distribution to listed project personnel by Sample Management (check if applicable)

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EDMC

On-Site Measurement of Cr +6

2UP-1 LOI Groundwater

SAF: I06-060/I07-009
Procedure: GRP-EE-05-1.17

Logbook: HNF-N-296 7 Page 131

10/3/2006

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (µs/cm)	Water Level (m TOC)
299-W19-105	B1KCH4	I06-060	10/3/2006	11:41	DRB	Water	10/3/2006	13:30	ROM	0.009	336	79.212

Logbook: HNF-N-296 7 Page 118

12/14/2006

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (µs/cm)	Water Level (m TOC)
299-W22-69/ FXR1229	B1L1X5	I07-009	12/14/2006	11:14	DEP	Water	12/14/2006	14:45	LCP	0.012	301	92.978

Logbook: HNF-N-296 7 Page 127

12/21/2006

Location	HEIS Number	SAF	Date Collected	Time Collected	Sampler (Initials)	Sample Media	Date Analyzed	Time Analyzed	Analyst (Initials)	Cr +6 (mg/L)	Conductivity (µs/cm)	Water Level (m TOC)
299-W19-107	B1L1V4	I07-009	12/21/2006	928	LAV	Water	12/21/2006	15:25	LCP	<0.005	478	83.665

Analyst(s): LC Petersen/RO Mahood Date: 1/3/2007

00000001

118 UP-1 LOI - Cr^{+6}
December 2006

L.C. PETERSEN
Petersen
GRA

Hexavalent Chromium Daily Activity Log
Project: 2UP1-LOI / SAF I07-009
Logbook HNF-N-296 7
Date: 12/14/06

Petersen 12-28-2006

1410	L.C. Petersen arrived on-site at 200W, MO-612 field laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 951, low range hexavalent chromium.
1423	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A5354, exp. December 2010, to 29.76 mL of deionized water.
1445	After pulling standard, blank, and sample fluids into hexavalent chromium ampules (lot # A6215, exp. May 2009), analyzed sample.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µs/cm)	Water Depth-m(TOC)
Blank	-----	-----	0.003	-----	-----	-----	-----	-----
0.10 mg/L std.	-----	-----	0.103	-----	-----	-----	-----	-----
B1L1X5	299-W22-69/ FXR1229	I07-009	0.012	12/14/06	1114	DEP	301	92.978
0.10 mg/L std.	-----	-----	0.104	-----	-----	-----	-----	-----
Blank	-----	-----	0.003	-----	-----	-----	-----	-----

12-28-06

L.C. PETERSEN
Petersen
122806

Reviewed
By: M.A. Baechler
M.A. Baechler

Jan 03 2007

00000002

UP-1 LOI GW Sample - Cr6
December 2006

L.C. PETERSEN 127
LPetersen
GRAM, INC

Hexavalent Chromium Daily Activity Log
Project: 2UP1-LOI / SAF I07-009
Logbook HNF-N-296 7
Date: 12/21/06

LPetersen
12-28-2006

1408	L.C. Petersen arrived on-site at 200W, MO-612 field laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 951, low range hexavalent chromium.
1510	Prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A5354, exp. December 2010, to 29.76 mL of deionized water.
1525	After pulling standard, blank, and sample fluids into hexavalent chromium ampules (lot # A6215, exp. May 2009), analyzed sample.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µs/cm)	Water Depth-m(TOC)
Blank	-----	-----	0.002	-----	-----	-----	-----	-----
0.10 mg/L std.	-----	-----	0.103	-----	-----	-----	-----	-----
B1L1V4	299-W19-107	I07-009	0.003	12/21/06	0928	LAV	478	83.665
0.10 mg/L std.	-----	-----	0.104	-----	-----	-----	-----	-----
Blank	-----	-----	0.001	-----	-----	-----	-----	-----

LP
12-28-2006

JAN 0 3 2007
Reviewed
By: M.A. Baechler
M. A. Baechler

L.C. PETERSEN
LPetersen
12-28-06

00000003

UP1-GW

TM Johansen/TM Johansen

Hexavalent Chromium Daily Activity Log
Project: 2UP1-LOI / SAF ~~107-009~~ TM 1-2-07 I06-060
Logbook HNF-N-296 7
Date: 10/03/06

TM Johansen 1/2/07
1/2/07
TM 1/2/07

1315	R. O. Mahood arrived on-site at 200W, MO-612 field laboratory. Set up to analyze samples for hexavalent chromium using a HACH DR 2010 spectrophotometer, S/N 980600009425, Method 951, low range hexavalent chromium.
1320	Linda Petersen prepared 0.10 mg/L standard by adding 240 µL of 12.5 mg/L HACH hexavalent chromium standard, lot # A5354, Exp. 12-2010, to 29.76 mL of deionized water.
1330	Analyzed samples.

Sample #	Well #	SAF #	Concentration (mg/L)	Date Sampled	Time Sampled	Sampler	Conductivity (µs/cm)	Water Depth-m(TOC)
Blank	----	----	0.008	----	----	----	----	----
0.10 mg/L std.	----	----	0.109	----	----	----	----	----
B1KCH4	299-W19-105	I06-060	0.009	10/03/06	11:41	DRB	336	79.212
0.10 mg/L std.	----	----	0.108	----	----	----	----	----
Blank	----	----	<0.005	----	----	----	----	----

TM 1-2-07

TM Johansen/TM Johansen
1/2/07

Reviewed
By: M.A. Baechler
M. A. Baechler

JAN 03 2007

00000003-A

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I06-060-2

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I06-060	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1-LOL SEPTEMBER 2006	Logbook: DTS-SAWS-H113	Ice Chest No.: SAWS-212 Temp.
Shipped To (Lab): Mobile Field Laboratory	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	lority: 45 Days	Offsite Property No.

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 INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1KCH4 (F)		W	10/3/06	1141	1x60-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

R. Wells 10/3/06

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		OCT 03 2006 1314	R.O. Mahood	Rebecca O. Mahood		OCT 03 2006 1314
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): consumed in analysis

Disposed By: R.O. Mahood

Date/Time: 10/3/06 13:30

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-009-10

Page 1 of 1

Collector Fluor Hanford L.A. Vader	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-009	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOL NOVEMBER 2006	HNF-N-506 4	**Ice Chest No.** SML-562 **Temp.**
Shipped To (Lab) Mobile Field Laboratory	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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 INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L1V4 (F)		W	12-21-06	0928	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None
						12-21-06	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L.A. Vader	L.A. Vader		DEC 21 2006 1405	Refrigerator MO-612			DEC 21 2006 1405
MO-612 refrigerator			12-21-2006 1425	L.C. Petersen	L.C. Petersen		12-21-2006 1425

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) RETURNED TO OU

Disposed By L.C. PETERSEN L.C. Petersen Date/Time 12/21/06 1530

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-009-31

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-009	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOL NOVEMBER 2006	Logbook: HNF-N-506-4	**Ice Chest No.** SMC-562 **Temp.**
Shipped To (Lab) Mobile Field Laboratory	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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 INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L1X5 (F)		W	12/14/06	1114	1x40-mL aGs*	COLOR_TK_FLD: Hexavalent Chromium (1)	None

R. Wall 12/14/06

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			DEC 14 2006 1425	L.C. Petersen			DEC 14 2006 1425
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
	RETURNED TO OU	L.C. PETERSEN	12-14-06 1500

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