0088451

FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Thursday, July 27, 2006

Sample Authorization Form (SAF) Number: F02-001

SDG Number (assigned by Sample Management): FP0313 Dayes 8/1/06

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

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

RECEIVED JUN 03 2010 EDMC

Total number of pages (including cover sheet): 7

Comments:
200-ZP-1 Process Sampling and Analysis– VOA - Water

THESE TESTS WERE CONDUCTED USING QC-2

AUG 2006 RECEIVED

Analyst Signature — Date: 7-27-06

Reviewer's Signature — Date: 8/10/06

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

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

00000001

200-ZP-1 MONTHLY PROCESS MONITORING, JULY 2006

MO-612 Field GC Daily Activity Log
(Logbook HNF-N-292 1, SAFs F02-001/F02-002)
Date: 07/12/06

D. TODAK 7-27-06

0720	D. Todak arrived on-site at MO-612 laboratory trailer located at 200-ZP-1 to perform monthly sampling and analysis of the 200-ZP-1 pump and treat. Turned on HP 6890N gas chromatograph S/N US10437002 and HP G1888 headspace autosampler S/N IT00430023. Loaded method HSECDFID.M.
0745	Created sample sequence "Z060712.S".
0750	Split / splitless inlet vent = 42.4 mL/min. Septum purge vent = 2.24 mL/min.
0800	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 µg/L.
0825	Started sequence. ECD signal = 200.4
0855	Started calibration of HP 6890N gas chromatograph.
0928	D. Todak started preparing process water samples for analysis.
0949	Prepared 100 µg/L LCS calibration check standard.
0950	Completed calibration.
1022	100 µg/L calibration check: DCM =103.6 (104%), TCM =101.7 (102%), CCl_4 =103.6 (104%), TCE =102.5 (103%), PCE =102.6 (103%). Acceptable recoveries.
1053	Prepared matrix spike and matrix spike duplicate. Added 2 µL of 50 µg/mL of LCS parent stock to 10 mL of V1-02MS and V1-03MSD for a total of 10 µg/L per sample.
1055	Started analysis of process water samples.
1128	Matrix spike recovery for V1-02MS = 98%.
1139	Matrix spike duplicate recovery for V1-03MSD = 96%. Relative Percent Difference (RPD) = 2.1%.
1338	Prepared 3000 µg/L calibration check standard.
1350	Completed analysis of process water samples.
1411	3000 µg/L calibration check: DCM = 3093 (103%), TCM = 3017 (101%), CCl_4 = 3188 (106%), TCE = 3062 (102%), PCE = 3065 (102%). Acceptable recoveries.
1433	Sequence run completed. Saved sequence "Z060712.S". Saved method HSECDFID.M with annotation "ZP-1 Monthly – 07-12-06".
1450	Loaded standby method. Turned off inside hydrogen and breathing air supply valves. Turned off outside hydrogen and breathing air gas bottle valves.
1500	Disposed of liquid and solid waste.
1515	Shut down computer equipment and left trailer.

Data recorded in real time using the GC computer in MO-612.

D. TODAK
JUL 27 2006

Reviewed D.J. Alexander
By: D.J. Alexander
JUL 27 2006

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200 ZP-1 MONTHLY PROCESS MONITORING, JULY 2006

D. TODAK/GS

D. TODAK 7-27-06

MOBILE LABORATORY DATA/LOG SHEET (Logbook HNF-N-293 1, SAF F02-001/F02-002)

Site Name: 200-ZP-1 Phase III (Monthly)

Date: 07-12-06

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results TCM µg/L	CCl4 µg/L	TCE µg/L	Comments
DI Blank	-----	0755	Water	DT	1011	<2.0	<2.0	<2.0	hs010.d
100µg/L Cal. Check	-----	0950	Water	DT	1022	101.7 **102%**	103.6 **104%**	102.5 **103%**	hs011.d; Acceptable recoveries.
DI Blank	-----	0755	Water	DT	1033	<2.0	<2.0	<2.0	hs012.d
Field Blank	B1K044	0730	Water	JP/KH	1055	<2.0	<2.0	<2.0	hs014.d
Z-T2-01	B1K045	0740	Water	JP/KH	1106	<2.0	<2.0	<2.0	hs015.d
Z-V1-01	B1K046	0742	Water	JP/KH	1117	<2.0	<2.0	<2.0	hs016.d
Z-V1-02 MS	-----	0742	Water	JP/KH	1128	10.2 **102%**	9.8 **98%**	9.9 **99 %**	hs017.d
Z-V1-03 MSD	-----	0742	Water	JP/KH	1139	10.2 **102%**	9.6 **96%**	9.7 **97%**	hs018.d; (RPD=2.1%)
Z-T1-01	B1K047	0746	Water	JP/KH	1150	12	1800	6.5	hs019.d
Z-W1-01	B1K048	0750	Water	JP/KH	1201	9.0	1600	2.2	hs020.d
Z-W1-02 Duplicate	B1K049	0752	Water	JP/KH	1212	8.8	1500	2.2	hs021.d; (RPD=6.5%)
Z-W2-01	B1K050	0755	Water	JP/KH	1222	18	3100	6.1	hs022.d
Z-W3-01	B1K051	1015	Water	JP/KH	1233	13	1600	6.5	hs023.d; Manifold Bldg.
Z-W4-01	B1K052	----	Water	JP/KH	----	Well offline			Manifold Bldg.
Z-W5-01	B1K053	1045	Water	JP/KH	1244	13	500	<2.0	hs024.d; Manifold Bldg.
Z-W7-01	B1K054	0800	Water	JP/KH	1255	15	2400	14	hs025.d.
Z-W8-01	B1K055	0805	Water	JP/KH	1306	11	1700	4.7	hs026.d
Z-W9-01	B1K056	0808	Water	JP/KH	1317	15	2300	13	hs027.d
Z-W10-01	B1K057	0812	Water	JP/KH	1328	16	2200	13	hs028.d
C5101, I-1	B1JFV7	6-30-06 1001	Water	JP	1339	12.3	1433	3.46	hs029.d
C-5101, I-2	B1JFV8	7-7-06 0752	Water	RP	1350	41.7	838	2.43	hs030.d
DI Blank	-----	0755	Water	DT	1401	<2.0	<2.0	<2.0	hs031.d
3000µg/L Cal. Check	-----	1338	Water	DT	1411	3017 **101%**	3188 **106%**	3062 **102%**	hs032.d; Acceptable recoveries.
DI Blank	-----	0755	Water	DT	1433	<2.0	<2.0	<2.0	hs034.d
						ppm	ppm	ppm	
Blank	-----	-----	Air	----	1320	<1.0	<1.0	NA	B&K 1302
25.37 ppm Cal. Check	-----	-----	Air	----	1322	NA	22.5 89%	NA	B&K 1302 **Acceptable recovery.**
Z-A3-01	B1K072	0945	Air	JP/KH	1324	<1.0	<1.0	NA	B&K 1302
Z-A2-01	B1K073	0942	Air	JP/KH	1326	<1.0	9.8	NA	B&K 1302
Blank	-----	-----	Air	----	1328	<1.0	<1.0	NA	B&K 1302

PCE
<2.0
<2.0

Data recorded in real time using the GC computer in MO-612. For instrument operation information, refer to logbooks HNF-N-292 1, p.131 and HNF-N-294 1, p.51.

BEST AVAILABLE COPY

JUL 27 2006 D. TODAK

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Reviewed By: DJ Alexander

JUL 27 2006

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F02-001-062	PAGE 1 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	FIELD	DATA TURNAROUND
Pfister/Pope/Mokler/Hughes	CLEMENTS, RL	372-1761	TRENT, SJ	AIR QUALITY	☐	0 Days / 0 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
200-ZP-1	200-ZP-1 Pump & Treat Bi-Weekly and Quarterly Process Monitoring	F02-001

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
		119325ES10	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Field Analysis Activities	N/A	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
N/A

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool 4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1K044	WATER	7-12-06	0730	✓
B1K045	WATER	7-12-06	0740	✓
B1K046	WATER	7-12-06	0742	✓
B1K047	WATER	7-12-06	0746	✓
B1K048	WATER	7-12-06	0750	✓

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.T. Pope / [signature]	7-12-06 1100	DJ Alexander / DJ Alexander	7-12-06/1100

SPECIAL INSTRUCTIONS
(1)VOLATILE ORGANICS BY FIELD GC {Carbon tetrachloride, Chloroform, Trichloroethene}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME
	RETURNED TO OU	D.J. ALEXANDER / DJ Alexander	JUL 20 2006 / 1315

A-6003-618(01/06)

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F02-001-062	PAGE 2 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	FIELD	DATA TURNAROUND
Pfister/Pope/Mokler/Hughes	CLEMENTS, RL	372-1761	TRENT, SJ	AIR QUALITY		0 Days / 0 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
200-ZP-1	200-ZP-1 Pump & Treat Bi-Weekly and Quarterly Process Monitoring	F02-001

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
		119325ES10	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Field Analysis Activities	N/A	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
N/A

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool 4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1K049	WATER	7-12-06	0752	✓
B1K050	WATER	7-12-06	0755	✓
B1K051	WATER	7-12-06	1015	X
~~B1K052~~	~~WATER~~			~~7-12-06~~
B1K053	WATER	7-12-06	1045	X

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Pfister/[illegible]	7-12-06 1100	DJ Alexander/DJ Alexander	7-12-06 /1100
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
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
(1)VOLATILE ORGANICS BY FIELD GC {Carbon tetrachloride, Chloroform, Trichloroethene}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD: RETURNED TO OU	DISPOSED BY: D.J. ALEXANDER / DJ Alexander	DATE/TIME: JUL 20 2006 /1315

A-6003-618(01/06)

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F02-001-062	PAGE 3 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	FIELD	DATA TURNAROUND
Pfister/Pope/Mokler/Hughes	CLEMENTS, RL	372-1761	TRENT, SJ	AIR QUALITY	[ ]	0 Days / 0 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
200-ZP-1	200-ZP-1 Pump & Treat Bi-Weekly and Quarterly Process Monitoring	F02-001

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
		119325ES10	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Field Analysis Activities	N/A	N/A

MATRIX*
A=Air
DL=Drum Liquids
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L=Liquid
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V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
N/A

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool 4C											
TYPE OF CONTAINER	aGs*											
NO. OF CONTAINER(S)	3											
VOLUME	40mL											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1K054	WATER	7-12-06	0800	✓									
B1K055	WATER	7-12-06	0805	✓									
B1K056	WATER	7-12-06	0808	✓									
B1K057	WATER	7-12-06	0812	✓									

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.S. Pope / [signature]	7-12-06 1100	DJ Alexander / [signature]	7-12-06/1100
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
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
(1)VOLATILE ORGANICS BY FIELD GC {Carbon tetrachloride, Chloroform, Trichloroethene}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME
	RETURNED TO OU	D.J. ALEXANDER / [signature]	JUL 20 2006 / 1315

A-6003-618(01/06)