0077134

FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Wednesday, August 29, 2007

Sample Authorization Form (SAF) Number: F02-002

SDG Number (assigned by Sample Management): FP0493 Daynes 9/19/07

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

Total number of pages (including cover sheet): 13

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

OCT 2007 RECEIVED

Analyst Signature — Date 8/29/07

Reviewer's Signature — Date 10/05/07

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

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

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200-ZP-1 Phase III Pump and Treat System
Process Monitoring Field Screening Results
Advanced Data Copy, SAF F02-001/F02-002

5/23/07 - Monthly

Sample Location	HEIS Number	Well Number	Pump Intake Depth (ft)	Sample/ Analysis Date	Sample Time	SAMPLE RESULTS WATER ANALYSES TCM (µg/L)	CCl_4 (µg/L)	TCE (µg/L)	AIR ANALYSES TCM (ppmv)	CCl_4 (ppmv)	TCE (ppmv)
Field Blank	B1NJL7	N/A	N/A	05/23/07	7:26	<2.0	<2.0	<2.0			
Post Tank T-02-01	B1NJL8	N/A	N/A	05/23/07	7:26	<2.0	<2.0	<2.0			
Post Valve V-01-01	B1NJL9	N/A	N/A	05/23/07	7:31	<2.0	<2.0	<2.0			
Post Tank T-01-01	B1NJM0	N/A	N/A	05/23/07	7:34	11	1400	5.1			
Extraction Well #1	B1NJM1	299-W15-45	280.6	05/23/07	7:36	7.8	1100	<2.0			
Extraction Well #2	B1NJM2	299-W15-34	258.51	05/23/07	7:47	16	2600	4.7			
Extraction Well #3	B1NJM3	299-W15-35	249.4	05/23/07	8:29	12	1700	6.2			
Extraction Well #3 Duplicate	B1NJM4	299-W15-35	249.4	05/23/07	8:29	12	1700	6.2			
Extraction Well #4	B1NJM5	299-W15-47	278	05/23/07	7:58	12	1100	4.2			
Extraction Well #5	B1NJM6	299-W15-36	254.45	05/23/07	8:42	12	440	<2.0			
Extraction Well #6	B1NJM7	299-W15-6	390	05/23/07	8:43	14	1800	7.9			
Extraction Well #7	B1NJM8	299-W15-40	390	05/23/07	7:51	14	2300	13			
Extraction Well #8	B1NJM9	299-W15-43	250.22	05/23/07	7:53	8.9	1500	3.6			
Extraction Well #9	B1NJN0	299-W15-44	258.15	05/23/07	7:54	15	2400	13			
Extraction Well #10	B1NJN1	299-W15-765	251.97	05/23/07	7:55	16	2500	12			
Stack Effluent (Z-A3-01)	B1NJN2	N/A	N/A	05/23/07	8:07		B&K 1302		<1.0	<1.0	Not Analyzed
Post Chiller Air (Z-A2-01)	B1NJN3	N/A	N/A	05/23/07	8:09		B&K 1302		<1.0	8.89	Not Analyzed

00000001

200-ZP-1 Phase III Pump and Treat System
Process Monitoring Field Screening Results
Advanced Data Copy, SAF F02-001/F02-002

6/20/07 - Monthly

Sample Location	HEIS Number	Well Number	Pump Intake Depth (ft)	Sample/ Analysis Date	Sample Time	SAMPLE RESULTS WATER ANALYSES TCM (µg/L)	CCl_4 (µg/L)	TCE (µg/L)	AIR ANALYSES TCM (ppmv)	CCl_4 (ppmv)	TCE (ppmv)
Field Blank	B1NXW0	N/A	N/A	06/20/07	10:05	<2.0	<2.0	<2.0			
Post Tank T-02-01	B1NXW1	N/A	N/A	06/20/07	10:05	2.2	2	<2.0			
Post Valve V-01-01	B1NXW2	N/A	N/A	06/20/07	10:08	<2.0	<2.0	<2.0			
Post Tank T-01-01	B1NXW3	N/A	N/A	06/20/07	10:11	11	1300	4.2			
Extraction Well #1	B1NXW4	299-W15-45	280.6	06/20/07	10:15	6.6	1000	<2.0			
Extraction Well #2	B1NXW5	299-W15-34	258.51	06/20/07	10:22	16	2500	4.7			
Extraction Well #3	B1NXW6	299-W15-35	249.4	06/20/07	11:21	12	1800	6.1			
Extraction Well #4	B1NXW7	299-W15-47	278	06/20/07	11:25	12	1000	4.0			
Extraction Well #4 Duplicate	B1NXW8	299-W15-47	278	06/20/07	11:25	12	1000	4.1			
Extraction Well #5	B1NXW9	299-W15-36	254.45	06/20/07	11:15	11	400	<2.0			
Extraction Well #6	B1NXX0	299-W15-6	390	06/20/07	11:17	14	1800	7.9			
Extraction Well #7	B1NXX1	299-W15-40	390	06/20/07	10:28	19	1900	12			
Extraction Well #8	B1NXX2	299-W15-43	250.22	06/20/07	10:31	11	1500	3.4			
Extraction Well #9	---	299-W15-44	258.15	---	---	---	---	---			
Extraction Well #10	---	299-W15-765	251.97	---	---	---	---	---			
Stack Effluent (Z-A3-01)	B1NXX3	N/A	N/A	06/20/07	13:10		B&K 1302		<1.0	<1.0	Not Analyzed
Post Chiller Air (Z-A2-01)	B1NXX4	N/A	N/A	06/20/07	13:15		B&K 1302		<1.0	7.94	Not Analyzed

00000002

200-ZP-1 Phase III Pump and Treat System
Process Monitoring Field Screening Results
Advanced Data Copy, SAF F02-001/F02-002

7/23/07 - Monthly

Sample Location	HEIS Number	Well Number	Pump Intake Depth (ft)	Sample/ Analysis Date	Sample Time	SAMPLE RESULTS WATER ANALYSES TCM (µg/L)	CCl4 (µg/L)	TCE (µg/L)	AIR ANALYSES TCM (ppmv)	CCl4 (ppmv)	TCE (ppmv)
Field Blank	B1P7T7	N/A	N/A	07/23/2007 07/27/07	14:53	<2.0	<2.0	<2.0			
Post Tank T-02-01	B1P7T8	N/A	N/A	07/23/2007 07/27/07	15:04	<2.0	<2.0	<2.0			
Post Valve V-01-01	B1P7T9	N/A	N/A	07/23/2007 07/27/07	15:15	<2.0	<2.0	<2.0			
Post Tank T-01-01	B1P7V0	N/A	N/A	07/23/2007 07/27/07	15:48	11	1300	4.7			
Extraction Well #1	B1P7V1	299-W15-45	280.6	07/23/2007 07/27/07	15:59	6.4	930	<2.0			
Extraction Well #2	B1P7V2	299-W15-34	258.51	07/23/2007 07/27/07	16:09	15	2300	4.3			
Extraction Well #3	B1P7V3	299-W15-35	249.4	07/23/2007 07/27/07	16:20	12	1600	6.1			
Extraction Well #4	B1P7V4	299-W15-47	278	07/23/2007 07/27/07	16:31	11	940	4.0			
Extraction Well #5	B1P7V5	299-W15-36	254.45	07/23/2007 07/27/07	16:42	11	350	<2.0			
Extraction Well #5 Duplicate	B1P7V6	299-W15-36	254.45	07/23/2007 07/27/07	16:53	11	340	<2.0			
Extraction Well #6	B1P7V7	299-W15-6	390	07/23/2007 07/27/07	17:04	13	1600	7.5			
Extraction Well #7	B1P7V8	299-W15-40	390	07/23/2007 07/27/07	17:15	14	2200	12			
Extraction Well #8	B1P7V9	299-W15-43	250.22	07/23/2007 07/27/07	17:26	9.1	1300	3.3			
Extraction Well #9	B1P7W0	299-W15-44	258.15	07/23/2007 07/27/07	17:37	13	2200	12			
Extraction Well #10	B1P7W1	299-W15-765	251.97	07/23/2007 07/27/07	17:48	14	2100	10			
Stack Effluent (Z-A3-01)	B1P7W2	N/A	N/A	07/23/07	11:39		BKK 1302		<1.0	<1.0	Not Analyzed
Post Chiller Air (Z-A2-01)	B1P7W3	N/A	N/A	07/23/07	11:41		BKK 1302		<1.0	7.97	Not Analyzed

200-ZP-1 monthly

D. TODAK/GS

MO-612 Field GC Daily Activity Log
(Logbook HNF-N-292 2, SAFs F02-001/F02-002)
Date: 06/20/07

1000	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 trea. Turned on HP 6890N gas chromatograph S/N US10437002 and HP G1888 headspace autosampler S/N IT00430023. Opened inside and outside hydrogen and breathing air valves. Loaded method HSECDFID.M.
1010	Split / splitless inlet vent = 42.5 mL/min. Septum purge vent = 2.32 mL/min.
1025	Created sample sequence "Z062007.S".
1030	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 µg/L.
1045	Started sequence. ECD signal =198.0.
1129	Started calibration of HP 6890N gas chromatograph.
1202	Completed calibration.
1215	Prepared 100 µg/L LCS calibration check standard.
1407	D. Todak started preparing process water samples for analysis.
1234	100 µg/L calibration check: DCM = 102.2(102%), TCM =102.1(102%), CCl_4 =105.3(105 %), TCE = 101.0(101%), PCE =101.2 (101%). Acceptable recoveries.
1250	Prepared matrix spike and matrix spike duplicate. Added 2 µL of 50 µg/mL of LCS parent stock to 10 mL of T2-02MS and T2-03MSD for a total of 10 µg/L per sample.
1307	Started analysis of process water samples.
1329	Matrix spike recovery for T2-02MS = 82%.
1340	Matrix spike duplicate recovery for T2-03MSD = 85%. Relative Percent Difference (RPD) = 3.6%.
1540	Completed analysis of process water samples.
1545	Prepared 3000 µg/L calibration check standard.
1601	3000 µg/L calibration check: DCM = 3052 (102 %), TCM = 3105 (104%), CCl_4 = 3062 (102%), TCE = 3126 (104%), PCE = 3076 (103%). Acceptable recoveries.
1623	Sequence run completed. Saved sequence "Z070620.S". Saved method HSECDFID.M with annotation "ZP-1 Monthly – 06-20-07".
1635	Disposed of liquid and solid waste.
1640	Turned off inside hydrogen and breathing air supply valves. Turned off outside hydrogen and breathing air gas bottle valves.
1645	Loaded standby method, shut down computer equipment, and left trailer

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

D. TODAK
AUG 29

D. TODAK
AUG 29 2007

Reviewed by: TMJohansen/
TMJohansen 8/23/07

00000004

200-ZP-1 Monthly

D. TODAK / GS

MO-612 Field GC Daily Activity Log
(Logbook HNF-N-292 2, SAFs F02-001/F02-002)
Date: 07/27/07

1030	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 trea. Turned on HP 6890N gas chromatograph S/N US10437002 and HP G1888 headspace autosampler S/N IT00430023. Opened inside and outside hydrogen and breathing air valves. Loaded method HSECDFID.M.
1200	Split / splitless inlet vent = 42.5 mL/min. Septum purge vent = 2.32 mL/min.
1205	Created sample sequence "Z070727.S".
1210	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 µg/L.
1218	Started sequence. ECD signal =198.0.
1253	Started calibration of HP 6890N gas chromatograph.
1340	Prepared 100 µg/L LCS calibration check standard.
1348	Completed calibration.
1420	D. Todak started preparing process water samples for analysis.
1420	100 µg/L calibration check: DCM = 104.3(104%), TCM =103.7(104%), CCl_4 =105.5(105 %), TCE = 104.0(104%), PCE =103.8 (104%). Acceptable recoveries.
1435	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.
1453	Started analysis of process water samples.
1526	Matrix spike recovery for V1-02MS = 91%.
1537	Matrix spike duplicate recovery for V1-03MSD = 90%. Relative Percent Difference (RPD) = 1.8%.
1730	Prepared 3000 µg/L calibration check standard.
1748	Completed analysis of process water samples.
1810	3000 µg/L calibration check: DCM = 3145 (105 %), TCM = 3126 (104%), CCl_4 = 3097 (103%), TCE = 3183 (106%), PCE = 3115 (104%). Acceptable recoveries.
1841	Sequence run completed. Saved sequence "Z070727.S". Saved method HSECDFID.M with annotation "ZP-1 Monthly – 07-27-07".
1845	Disposed of liquid and solid waste.
1850	Turned off inside hydrogen and breathing air supply valves. Turned off outside hydrogen and breathing air gas bottle valves.
1855	Loaded standby method, shut down computer equipment, and left trailer

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

D. TODAK AUG 29 2007

00000005

D. TODAK
AUG 29 2007

Reviewed by: TMJohansen / TMJohansen 8/23/07

200-ZP-1 MONTHLY, T-4 analysis

D. TODAK / GS

MO-612 Field GC Daily Activity Log
(Logbook HNF-N-292 2, SAFs F02-001/F02-002/F07-006)
Date: 05/23/07

0830	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 and well C5243. Turned on HP 6890N gas chromatograph S/N US10437002 and HP G1888 headspace autosampler S/N IT00430023. Opened inside and outside hydrogen and breathing air valves. Loaded method HSECDFID.M.
0900	Split / splitless inlet vent = 42.2 mL/min. Septum purge vent = 2.22 mL/min.
0920	Created sample sequence "Z070523.S".
0935	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 µg/L.
0959	Started sequence. ECD signal =204.6.
1044	Started calibration of HP 6890N gas chromatograph.
1130	Prepared 100 µg/L LCS calibration check standard.
1138	Completed calibration.
1139	D. Todak started preparing process water samples for analysis.
1211	100 µg/L calibration check: DCM = 103.4(103%), TCM =102.8(103%), CCl_4 =100.4(100 %), TCE = 100.1(100%), PCE =97.9 (98%). Acceptable recoveries.
1227	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.
1255	Started analysis of process water samples.
1316	Matrix spike recovery for V1-02MS = 80%.
1327	Matrix spike duplicate recovery for V1-03MSD = 81%. Relative Percent Difference (RPD) = 0.7%.
1600	Prepared 3000 µg/L calibration check standard.
1622	Completed analysis of process water samples.
1644	3000 µg/L calibration check: DCM = 3004 (100 %), TCM = 3032 (101%), CCl_4 = 3126 (104%), TCE = 3108 (104%), PCE = 3097 (103%). Acceptable recoveries.
1720	Sequence run completed. Saved sequence "Z070523.S". Saved method HSECDFID.M with annotation "ZP-1 Monthly – 05-23-07".
1725	Disposed of liquid and solid waste.
1730	Turned off inside hydrogen and breathing air supply valves. Turned off outside hydrogen and breathing air gas bottle valves.
1735	Loaded standby method, shut down computer equipment, and left trailer

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

D. TODAK
AUG 29 2007

Reviewed by: MJohansen/
MJohansen 8/29/07

D. TODAK
AUG 29 2007

00000006

200-ZP-1 monthly

D. TODAK/GS 115

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

Site Name: 200-ZP-1 Phase III (Monthly) Date: 06-20-07

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM µg/L	CCl4 µg/L	TCE µg/L	
DI Blank	—	1025	Water	DT	1223	<2.0	<2.0	<2.0	hs010.d
100µg/L Cal. Check	—	1154	Water	DT	1234	102.1 102%	105.3 105%	101.0 101%	hs011.d; Acceptable recoveries.
DI Blank	—	1025	Water	DT	1245	<2.0	<2.0	<2.0	hs012.d
Field Blank	B1NXW0	1005	Water	JSP	1307	<2.0	<2.0	<2.0	hs014.d
Z-T2-01	B1NXW1	1005	Water	JSP	1318	2.2	2.1	<2.0	hs015.d
Z-T2-02 MS	—	1005	Water	DT	1329	8.1 81%	8.2 82%	9.9 99%	hs016.d
Z-T2-03 MSD	—	1005	Water	DT	1340	8.2 82%	8.5 85%	10.1 101%	hs017.d; (RPD=3.6%)
Z-V1-01	B1NXW2	1008	Water	JSP	1351	<2.0	<2.0	<2.0	hs018.d
Z-T1-01	B1NXW3	1011	Water	JSP	1402	11	1300	4.2	hs019.d
Z-W1-01	B1NXW4	1015	Water	JSP	1412	6.6	1000	<2.0	hs020.d
Z-W2-01	B1NXW5	1022	Water	JSP	1443	16	2500	4.7	hs021.d
Z-W3-01	B1NXW6	1121	Water	JSP	1434	12	1800	6.1	hs022.d; Manifold Bldg. 1
Z-W4-01.	B1NXW7	1125	Water	JSP	1445	12	1000	4.0	hs023.d; Manifold Bldg. 1
Z-W4-02 Dupl.	B1NXW8	1125	Water	JSP	1456	12	1000	4.1	hs024.d; Manifold Bldg. 1 (RPD=2.4 %)
Z-W5-01	B1NXW9	1115	Water	JSP	1507	11	400	<2.0	hs025.d; Manifold Bldg. 2
Z-W6-01	B1NXX0	1117	Water	JSP	1518	14	1800	7.9	hs026.d; Manifold Bldg. 2
Z-W7-01	B1NXX1	1028	Water	JSP	1529	19	1900	12	hs027.d
Z-W8-01	B1NXX2	1031	Water	JSP	1539	11	1500	3.4	hs028.d
Z-W9-01	—	—	Water	Well off-line – unable to sample.					hs0__.d
Z-W10-01	—	—	Water	Well off-line – unable to sample.					hs0__.d
DI Blank	—	1025	Water	DT	1550	<2.0	<2.0	<2.0	hs029d
3000µg/L Cal. Check	—	1528	Water	DT	1601	3105 104%	3062 102%	3126 104%	hs030.d; Acceptable recoveries.
DI Blank	—	1025	Water	DT	1623	<2.0	<2.0	<2.0	hs032.d
						ppm	ppm	ppm	
Blank	—	—	Air	DT	1439	<2.0	<2.0	NA	B&K 1302
25.37 ppm Cal. Check	—	—	Air	DT	1441	NA	22.2 88 %	NA	B&K 1302 Acceptable recovery.
Z-A3-01	B1NXX3	1310	Air	JSP	1443	<2.0	<2.0	NA	B&K 1302
Z-A2-01	B1NXX4	1315	Air	JSP	1445	<2.0	7.94	NA	B&K 1302
Blank	—	—	Air	DT	1448	<2.0	<2.0	NA	B&K 1302

Data recorded in real-time on GC computer in MO-612.
For instrument operation information, please refer to logbook HNF-N-292-2 page 16.

D. TODAK
2 9 2007

Reviewed by: TWJohansen/ [signature] 8/23/07

00000007

200-ZP-1 monthly

D. TODAK/GS DT

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

Site Name: 200-ZP-1 Phase III (Monthly/Quarterly) Collected: 07-23-07 Analyzed: 07-27-07

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM µg/L	CCl4 µg/L	TCE µg/L	
DI Blank	—	1210	Water	DT	1409	<2.0	<2.0	<2.0	hs010.d
100µg/L Cal. Check	—	1340	Water	DT	1420	103.7 104%	105.5 105%	104.0 104%	hs011.d; Acceptable recoveries.
DI Blank	—	1210	Water	DT	1431	<2.0	<2.0	<2.0	hs012.d
Field Blank	B1P7T7	0814*	Water	JLM	1453	<2.0	<2.0	<2.0	hs014.d
Z-T2-01	B1P7T8	0818*	Water	JLM	1504	<2.0	<2.0	<2.0	hs015.d
Z-V1-01	B1P7T9	0825*	Water	JLM	1515	<2.0	<2.0	<2.0	hs016.d
Z-V1-02 MS	—	0825*	Water	JLM	1526	9.9 99%	9.1 91%	9.3 93%	hs017.d
Z-V1-03 MSD	—	0825*	Water	JLM	1537	10.0 100%	9.0 90%	9.4 94%	hs018.d; (RPD=1.8%)
Z-T1-01	B1P7V0	0831*	Water	JLM	1548	11	1300	4.7	hs019.d
Z-W1-01	B1P7V1	0837*	Water	JLM	1559	6.4	930	<2.0	hs020.d
Z-W2-01	B1P7V2	0845*	Water	JLM	1609	15	2300	4.3	hs021.d
Z-W3-01	B1P7V3	0920*	Water	JLM	1620	12	1600	6.1	hs022.d; Manifold Bldg. 1
Z-W4-01.	B1P7V4	0930*	Water	JLM	1631	11	940	4.0	hs023.d; Manifold Bldg. 1
Z-W5-01	B1P7V5	0945*	Water	JLM	1642	11	350	<2.0	hs024.d; Manifold Bldg. 2
Z-W5-02 Dupl.	B1P7V6	0952*	Water	JLM	1653	11	340	<2.0	hs025.d; Manifold Bldg. 2 (RPD=2.0 %)
Z-W6-01	B1P7V7	1000*	Water	JLM	1704	13	1600	7.5	hs026.d; Manifold Bldg. 2
Z-W7-01	B1P7V8	0850*	Water	JLM	1715	14	2200	12	hs027.d
Z-W8-01	B1P7V9	0857*	Water	JLM	1726	9.1	1300	3.3	hs028.d
Z-W9-01	B1P7W0	0905*	Water	JLM	1737	13	2200	12	hs029.d
Z-W10-01	B1P7W1	0911*	Water	JLM	1748	14	2100	10	hs030.d
DI Blank	—	1210	Water	DT	1759	<2.0	<2.0	<2.0	hs031.d
3000µg/L Cal. Check	—	1730	Water	DT	1810	3126 104%	3097 103%	3183 106%	hs032.d; Acceptable recoveries.
DI Blank	—	1210	Water	DT	1831	<2.0	<2.0	<2.0	hs034.d
						ppm	ppm	ppm	
Blank	—	—	Air	DJA	1135*	<2.0	<2.0	NA	B&K 1302
25.37 ppm Cal. Check	—	—	Air	DJA	1137*	NA	20.4 80.4%	NA	B&K 1302 Acceptable recovery.
Z-A3-01	B1P7W2	9:25*	Air	JLM	1139*	<2.0	<2.0	NA	B&K 1302
Z-A2-01	B1P7W3	9:17*	Air	JLM	1141*	<2.0	7.97	NA	B&K 1302
Blank	—	—	Air	DJA	1145*	<2.0	<2.0	NA	B&K 1302

* Times with asterisks are from 07-23-07 sampling and analysis. All other times are from second date of analysis – 07-27-07.
Data recorded in real-time on GC computer in MO-612.
For instrument operation information, please refer to logbook HNF-N-292-2, page 18.

D. TODAK
29 2007

reviewed by: Mjohansen/ [illegible] 8/23/07

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200-ZP-1 monthly / T4/T5 well installation

D. TODAK / 65 [illegible]

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

Site Name: 200-ZP-1 Phase III (Monthly) Date: 05-23-07

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM µg/L	CCl4 µg/L	TCE µg/L	
DI Blank	—	0930	Water	DT	1200	<2.0	<2.0	<2.0	hs010.d
100µg/L Cal. Check	—	1130	Water	DT	1211	102.8 103%	100.4 100%	100.1 100%	hs011.d; Acceptable recoveries.
DI Blank	—	0930	Water	DT	1222	<2.0	<2.0	<2.0	hs012.d
Field Blank	B1NJL7	0726	Water	JSP	1244	<2.0	<2.0	<2.0	hs014.d
Z-T2-01	B1NJL8	0726	Water	JSP	1255	<2.0	<2.0	<2.0	hs015.d
Z-V1-01	B1NJL9	0731	Water	JSP	1306	<2.0	<2.0	<2.0	hs016.d
Z-V1-02 MS	—	0731	Water	DT	1316	10.1 101%	8.03 80%	9.03 90%	hs017.d
Z-V1-03 MSD	—	0731	Water	DT	1327	10.4 104%	8.09 81%	9.25 93%	hs018.d; (RPD=0.7%)
Z-T1-01	B1NJM0	0734	Water	JSP	1338	11	1400	5.1	hs019.d
Z-W1-01	B1NJM1	0736	Water	JSP	1349	7.6	1100	<2.0	hs020.d
Z-W2-01	B1NJM2	0747	Water	JSP	1400	16	2600	4.7	hs021.d
Z-W3-01	B1NJM3	0829	Water	JSP	1411	12	1700	6.2	hs022.d; Manifold Bldg. 1
Z-W3-02 Dupl.	B1NJM4	0829	Water	JSP	1422	12	1700	6.2	hs023.d; Manifold Bldg. 1 (RPD=0.9 %)
Z-W4-01	B1NJM5	0758	Water	JSP	1433	12	1100	4.2	hs024.d; Manifold Bldg. 1
Z-W5-01	B1NJM6	0842	Water	JSP	1444	12	440	<2.0	hs025.d; Manifold Bldg. 2
Z-W6-01	B1NJM7	0843	Water	JSP	1455	14	1800	7.9	hs026.d; Manifold Bldg. 2
Z-W7-01	B1NJM8	0751	Water	JSP	1506	14	2300	13	hs027.d
Z-W8-01	B1NJM9	0753	Water	JSP	1517	8.9	1500	3.6	hs028.d
Z-W9-01	B1NJN0	0754	Water	JSP	1528	15	2400	13	hs029.d
Z-W10-01	B1NJN1	0755	Water	JSP	1539	16	2500	12	hs030.d
C5243, I-45	B1L5D3	5/16/07 0821	Water	WMW	1549	204	35.6	2.32	hs031.d
C5243, I-46	B1L5D4	5/17/07 1205	Water	RTP	1600	59.8	1321	10.0	hs032.d
C5243, I-47	B1L5D5	5/21/07 1223	Water	DC	1611	294	186	6.2	hs033.d
C5243, I-48	B1L5D6	5/22/07 1150	Water	JLM	1622	18.6	931	10.3	hs034.d
DI Blank	—	0930	Water	DT	1633	<2.0	<2.0	<2.0	hs035.d
3000µg/L Cal. Check	—	1600	Water	DT	1644	3032 101%	3126 104%	3108 104%	hs036.d; Acceptable recoveries.
DI Blank	—	0930	Water	DT	1706	<2.0	<2.0	<2.0	hs038.d
[illegible]						ppm	ppm	ppm	
Blank	—	—	Air	DT	1149	<2.0	<2.0	NA	B&K 1302
25.37 ppm Cal. Check	—	—	Air	DT	1151	NA	22.1 87 %	NA	B&K 1302 Acceptable recovery.
Z-A3-01	B1NJN2	0807	Air	JSP	1153	<2.0	<2.0	NA	B&K 1302
Z-A2-01	B1NJN3	0809	Air	JSP	1155	<2.0	8.89	NA	B&K 1302
Blank	—	—	Air	DT	1157	<2.0	<2.0	NA	B&K 1302

D. TODAK

Reviewed by [illegible] 8/29/07

Data recorded in real-time on GC computer in MO-612.
For instrument operation information, please refer to logbook HNF-N-292-2, page 19.

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F02-002-039 | PAGE 1 OF 1

COLLECTOR Pfister/Pope/Mokler/Connolly/Parchen	**COMPANY CONTACT** CLEMENTS, RL	**TELEPHONE NO.** 372-1761	**PROJECT COORDINATOR** TRENT, SJ
SAMPLING LOCATION ZP1 Pump & Treat	**PROJECT DESIGNATION** 200-ZP-1 Pump and Treat Operational Monitoring		**SAF NO.** F02-002
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-575-1	**COA** 122598ES20	**METHOD OF SHIPMENT** Government Vehicle
SHIPPED TO Field Analysis Activities	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE FIELD | **AIR QUALITY** ☐ | **DATA TURNAROUND** 0 Days / 0 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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool 4C
TYPE OF CONTAINER	Tedlar Bag
NO. OF CONTAINER(S)	1
VOLUME	1L
SAMPLE ANALYSIS	VOA BK Field (Carbon tetrachloride, Chloroform)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1NJN2	GASEOUS	5-23-07	0817	X
B1NJN3	GASEOUS	5-23-07	0849	X

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Pfister/Pope 5-23-07	~~0853~~ 0855	D. TODAK	5-23-07/0855

SPECIAL INSTRUCTIONS

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD** USED IN PROCESS	**DISPOSED BY** D. TODAK	**DATE/TIME** 5/23/07 1845

A-6003-618(01/06)

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F02-002-040	PAGE 1 OF 1

COLLECTOR POPE, JS	**COMPANY CONTACT** CLEMENTS, RL	**TELEPHONE NO.** 372-1761	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE	**FIELD**	**DATA TURNAROUND**	
AIR QUALITY	☐	0 Days / 0 Days	
SAMPLING LOCATION ZP1 Pump & Treat	**PROJECT DESIGNATION** 200-ZP-1 Pump and Treat Operational Monitoring		**SAF NO.** F02-002
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-575-1	**COA** 122S98ES20	**METHOD OF SHIPMENT** Government Vehicle
SHIPPED TO Field Analysis Activities	**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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool 4C
TYPE OF CONTAINER	Tedlar Bag
NO. OF CONTAINER(S)	1
VOLUME	1L
SAMPLE ANALYSIS	VOA BK Field (Carbon tetrachloride, Chloroform)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1NXX3	GASEOUS	6-20-07	1310	X
B1NXX4	GASEOUS	6-20-07	1315	X

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.S. Pope / [signature] 6-20-07	1320	D. TODAK / [signature]	6-20-07/1320

SPECIAL INSTRUCTIONS

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**
	USED IN PROCESS	D. TODAK	6/20/07 1500

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F02-002-041	PAGE 1 OF 1

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

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
ZP1 Pump & Treat	200-ZP-1 Pump and Treat Operational Monitoring	F02-002

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
	HNF-N-575-1	12259BES20	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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C							
TYPE OF CONTAINER	Tedlar Bag							
NO. OF CONTAINER(S)	1							
VOLUME	1L							
SAMPLE ANALYSIS	VOA BK Field (Carbon tetrachloride, Chloroform)							

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1P7W2	GASEOUS	7/23/7	0925
B1P7W3	GASEOUS	7/23/7	0917

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	7/23/7 1100	MJ HOCKING [signature]	7/23/07 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MJ HOCKING [signature]	7/23/07 1105	ERL 96-071 Cooler	7/23/07 1105
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

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME
	USED IN PROCESS	D. DDAK	7/23/07 1150

A-6003-618(01/06)

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