0064691

DATA PACKAGE TRAVELER SHEET

SDG # FP0193	RHA BOX #	SAF # F02-001
SDR #(s)	SAF TITLE 200-ZP-1 Pump & Treat Bi-Weekly and Quarterly Process Monitoring	

START/END DATE	PF PROCESS ACTION	COMMENTS
6/29/2004 / 7/20/2004	DELIVERY GROUP	
6/29/2004 / 7/9/2004	PRELIMINARY DATA	Chem - 07/09/04;
7/8/2004 / 7/20/2004	FINAL DATA - CHEMICAL	Chem - 07/20/04;
7/9/2004 / 7/20/2004	ON HOLD	Still need final review - Complete 07/20/04;
7/20/2004 /	DATA SCANNED	
7/20/2004 / 7/21/2004	LOGIN	Chem - 07/21/04;
	DATA SENT TO AR	

A-6003-698 (03/03)

0064691

FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Thursday, July 08, 2004

Sample Authorization Form (SAF) Number: F02-001

SDG Number (assigned by Sample Management): FP0193 Dayes 7/9/04

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

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

Total number of pages (including cover sheet): 5

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

THESE TESTS WERE CONDUCTED USING QC-2

RECEIVED JUL 20 2004

Analyst Signature — Date: 7/8/04

Reviewer's Signature — Date: 7-13-04

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

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

200-ZP-1 Phase III Pump and Treat System

Process Monitoring Field Screening Results

Advanced Data Copy, SAF F02-001/F02-002

				WATER ANALYSES			AIR ANALYSES		
Sample Location	*HEIS Number*	*Sample/ Analysis Date*	*Sample Time*	*TCM (ug/L)*	*CCl_4 (ug/L)*	*TCE (ug/L)*	*TCM (ppmv)*	*CCl_4 (ppmv)*	*TCE (ppmv)*
Field Blank	B194R3	06/29/04	09:10	<2.0	36	<2.0			
Post Tank T-02-01	B194R4	06/29/04	09:12	<2.0	36	<2.0			
Post Valve V-01-01	B194R5	06/29/04	09:15	<2.0	37	<2.0			
Post Tank T-01-01	B194R6	06/29/04	09:20	19	3300	8.2			
Extraction Well #1	B194Y3	06/29/04	09:21	17	3900	2.8			
Extraction Well #2	B194Y4	06/29/04	09:23	24	5400	13			
Extraction Well #3	B194Y5	06/29/04	09:33	18	2900	11			
Extraction Well #5	B194Y6	06/29/04	09:40	20	930	<2.0			
Extraction Well #5 Duplicate	B194Y7	06/29/04	09:40	21	940	<2.0			
Post Chiller Air (Z-A2-01)	B19543	06/29/04	09:53		B&K 1302		<1.0	7.8	Not Analyzed For
Stack Effluent (Z-A3-01)	B19544	06/29/04	09:52		B&K 1302		<1.0	<1.0	Not Analyzed For

TCM = Chloroform, CCl = Carbontetrachloride, TCE = Trichloroethylene

(R) = System in Recirculation
(O) = System On-Line

200-ZP-1 Process

TMJ Morrison / GS / DJ Alexander

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

Site Name: 200-ZP-1 Phase III

Date: 6/29/04

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM ug/L	CCl4 ug/L	TCE ug/L	
DI Blank	—	0740	Water	TMJ/DJA	1131	<2.0	<2.0	<2.0	hs016.d
100ug/L Cal. Check	—	1155	Water	TMJ/DJA	1215	133 133%	150 150%	147 147%	hs017.d; Acceptable recoveries.
DI Blank	—	0740	Water	TMJ/DJA	1226	<2.0	<2.0	<2.0	hs018.d
Field Blank	B194R3	0910	Water	TMJ/DJA	1248	<2.0	36	<2.0	hs020.d;
Z-T2-01	B194R4	0912	Water	TMJ/DJA	1259	<2.0	36	<2.0	hs021;
Z-V1-01	B194R5	0915	Water	TMJ/DJA	1317	<2.0	37	<2.0	hs022;
Z-V1-02 MS	-	0915	Water	TMJ/DJA	1328	13.8 138%	14.2 142%	15.6 156%	hs023.d;
Z-V1-03 MSD	-	0915	Water	TMJ/DJA	1339	13.9 139%	14.7 147%	16.1 161%	hs024.d RPD = 3.46
Z-T1-01	B194R6	0920	Water	TMJ/DJA	1350	19	3338	8.2	hs025d;
Z-W1-01	B194Y3	0921	Water	TMJ/DJA	1401	17	3855	2.8	hs026d; Manifold Bldg
Z-W2-01	B194Y4	0923	Water	TMJ/DJA	1412	24	5434	13	hs027d; Manifold Bldg
Z-W3-01	B194Y5	0933	Water	TMJ/DJA	1423	18	2920	11	hs028d; Manifold Bldg
Z-W5-01	B194Y6	0940	Water	TMJ/DJA	1434	20	931	<2.0	Hs029.d; Manifold Bldg
Z-W5-02 Duplicate	B194Y7	0940	Water	TMJ/DJA	1446	21	941	<2.0	Hs030.d; Manifold Bldg RPD = 3.43
DI Blank	—	0740	Water	TMJ/DJA	1457	<2.0	<2.0	<2.0	hs031d;
3000ug/L Cal. check	—	1445	Water	TMJ/DJA	1508	2871 96%	2867 94%	2887 96%	hs032d; Acceptable recoveries
DI Blank	—	0740	Water	TMJ/DJA	1519	<2.0	<2.0	<2.0	hs033d;
						ppm	ppm	ppm	
Blank	—	—	Air	TMJ/DJA	1153	<1.0	<1.0	NA	B&K 1302
25.5 ppm Cal. Check	—	—	Air	TMJ/DJA	1155	<1.0	22.6 89%	NA	B&K 1302 Acceptable recovery.
Z-A3-01	B19544	0952	Air	TMJ/DJA	1157	<1.0	<1.0	NA	B&K 1302
Z-A2-01	B19543	0953	Air	TMJ/DJA	1159	<1.0	7.82	NA	B&K 1302
Blank	—	—	Air	TMJ/DJA	1201	<1.0	<1.0	NA	B&K 1302

For instrument operation information, please refer to logbook HNF-N-292 1, page 50

TMJ Morrison / TMJ Morrison 6/30/04

Reviewed by: DJ Alexander / DJ Alexander 7/7/04

200-ZP-1 Process

TMJohansen/65/TMJohansen

200-ZP-1 Daily Activity Log
(Logbook HNF-N-292 1, SAF F02-001/ F02-002)
Date: 6/29/04

0740	T. M. Johansen and Deb Alexander arrive on-site at laboratory trailer located at 200-ZP-1 to perform monthly sampling and analysis of the 200-ZP-1 pump and treat. Turned on HP 5890 gas chromatograph S/N 3235A47685 and HP 7694 headspace autosampler S/N 3617I01945. Loaded methods HSECDFID.MTH (HP 5890) and HSECDFID.HSM (HP 7694).
0800	Encountered difficulties lighting the detector. Eventually lit after multiple attempts. Determined that the problem may have been due to the helium bottle. The helium bottle ran out before being replaced and that may have caused a air bubble in the line.
0820	Split flow = 39.8 mL/min. Septum purge = 2.99 mL/min.
0825	Prepared new warm-up standards of 5 and 10 ug/L. Created sample sequence "Z062904.Z"
0840	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 ug/L.
0905	Exited laboratory trailer to collect process water samples.
0933	Started calibration of HP 5890 gas chromatograph.
0948	Returned to laboratory trailer with samples.
1028	Completed calibration of HP 5890 gas chromatograph. Calibration curves are unacceptable. Determine that the 100 Calibration standard is to low. Re-prep the 100 Calibration standard and add it onto the run.
1109	Calibration remains unacceptable. Manually enter calibration responses. Calibration standard is now toshigh. Deside to re-prep one more time to attempt to recover the run.
1153	Started analysis of process air samples using the B&K 1302 FTIR S/N 1732828 gas analyzer. For information on this instrument, see logbook HNF-N-294 1.
1203	Completed analysis of process air samples. Analysis results are found on the data sheet in logbook HNF-N-293-1.
1204	Complete calibration. Curves are now acceptable.
1205	Prepared 100 ug/L calibration check standard.
1215	100 ug/L calibration check: DCM = 125 (125%), TCM = 133 (133 %), CCl_4 = 150 (150%) TCE = 147 (147 %), PCE = 160 (160%). Acceptable recoveries.
1248	Started analysis of process water samples.
1305	Prepared matrix spike and matrix spike duplicate. Added 2 uL of 50 ug/mL of LCS parent stock to 10 ml of Z-V1-02 and –03 for a total of 10 ug/L.
1339	Matrix spike recovery's acceptable.
1446	Completed analysis of process water samples.
1450	Prepared 3000 ug/L calibration check standard.
1508	3000 ug/L calibration check: DCM = 2902 (97%), TCM = 2871 (96%), CCl_4 = 2862 (94%), TCE = 2887 (96%), PCE = 2685 (90%).Acceptable Rec.
1530	Disposed of liquid and solid waste.
1545	Loaded standby method, shut down equipment, left site.

Data recorded in real time using a laptop computer.

TMJohansen/TMJohansen 6/30/04

Reviewed By:
DD Alexander DD Alexander
7/7/04

200-ZP-1 Process

Mathansen/GS/Mathansen

200-ZP-1 Daily Activity Log
(Logbook HNF-N-294 1, F02-002)
Date: 6/29/04

0740	T. M. Johansen and Deb Alexander arrived on-site at laboratory trailer located at 200-ZP-1 to perform VOA sampling and analysis of the 200-ZP-1 pump and treat.
0745	Turned on B&K 1302 FTIR gas analyzer, serial number 1715232 to warm up instrument prior to analysis. The B&K 1302 is set up using cross compensation factory calibrations.
0750	Placed instrument into automatic sampling mode (ambient air).
1150	Turned off automatic sampling mode.
1153	Analyzed blank air sample: TCM = < 1.0 , CCl_4 = < 1.0 ,TCE = NAF .
1155	Analyzed 25.5 ppm calibration standard. CCl_4 = 22.6 (89%). Acceptable recovery.
1157	Started analysis of 200-ZP-1 samples.
1203	Completed analysis of 200-ZP-1 samples.
1205	Turned instrument off.

Data was recorded in real time using a laptop computer.

TMJ 6/30/04

Mathansen/Mathansen 6/30/04

Reviewed by:
DJ Alexander / DJ Alexander
7/7/04