

Environmental Restoration Contractor **ERC Team**  
**Interoffice Memorandum**



0052042  
Job No. 22192  
Written Response Required? NO  
Closes CCN: N/A  
OU: 200-UP-1  
TSD: N/A  
ERA: N/A  
Subject Code: 8630

TO: M. A. Buckmaster, H4-80  
M. J. Galgoul, H9-12

DATE: April 1997

COPIES: See Below

FROM: R. T. Coffman  
Onsite Measurement Services  
H9-11/372-9373

SUBJECT: **200-UP-1 PUMP AND TREAT PROCESS MONITORING FIELD SCREENING RESULTS, JANUARY 1997 THROUGH FEBRUARY 6, 1997, REV 0**

REFERENCES:

1. BHI, 1996, *On-Site Measurements Quality Assurance Plan*, BHI-00852, REV 0, Bechtel Hanford, Inc., Richland, Washington.
2. BHI, 1995, *Field Screening Procedures*, BHI-EE-05, Bechtel Hanford, Inc., Richland, Washington.
3. BHI, 1996, *200-UP-1 Field Screening Support Logbook*, EL-1334, Bechtel Hanford, Inc., Richland, Washington.

This data package contains field screening results for process water samples analyzed to monitor the 200-UP-1 Pump and Treat System during the second quarter of FY 1997. To allow for connection to Effluent Treatment Facility (ETF), the Pump and Treat System was shut down permanently on February 6, 1997, therefore process sampling and analysis will no longer be required. The Quality Assurance level for this work corresponds to QA-1 as specified in the reference 1. The samples were managed under SAF B97-012.

Attachment 1 contains Volatile Organic Compound (VOC), total uranium results for process water samples collected from specified locations of the 200-UP-1 Pump and Treat System. The VOC results were generated using a Hewlett-Packard 5890 gas chromatograph with a headspace autosampler operated in accordance with Field Screening Procedure (FSP) 1.1, *Aqueous Headspace Analysis of Volatile Organic Compounds in Water* (BHI 1995). Information concerning operation and calibration of the gas chromatograph is contained in the instrument logbook EL-1329.

The total uranium samples were analyzed using a ChemChek KPA-11a Kinetic Phosphorescence Analyzer operated in accordance with FSP 1.22, *Kinetic Phosphorescence Analysis of Total Uranium in Water* (BHI 1995). Information concerning operation and calibration of the ChemChek KPA-11a is contained in the instrument logbook EL-1335.

M. A. Buckmaster, H4-80

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Please contact me if you have any questions on this information.



R. T. Coffman, Analyst

RTC:rtc

**Attachments:**

200-UP-1 Pump and Treat Process Monitoring, Field Screening Results, January 1997  
through February 6, 1997

**Copies:**

D. E. Ayres, B1-35, w/attachment  
M. A. Buckmaster, H0-19, w/attachment  
C. W. Denslow, H9-02, w/attachment  
B. H. Ford, H0-02, w/attachment  
J. E. Hodgson, T7-12, w/attachment  
I. D. Jacques, H9-10, w/attachment  
R.B. Kerkow, H9-10, w/attachment  
S. A. Strobe, T7-12, w/attachment  
D. A. St John, N1-28, w/attachment  
L. C. Swanson, H9-11, w/attachment  
BHI Document Control, H4-79, w/original attachment

**200-UP-1 Pump and Treat System Monitoring**  
**Field Screening Results, January 1997 through February 6, 1997**  
**SAF B97-012**

<i>Sample Location</i>	<i>HEIS Number</i>	<i>Sample Date</i>	<i>Analysis Date</i>	<i>Chloroform (ug/L)</i>	<i>Carbon Tetrachloride (ug/L)</i>	<i>Trichloroethylene (ug/L)</i>	<i>Total Uranium (ug/L)</i>
Injection Well	BOJP35	1/9/97	1/9/97	<2.0	2.4	<2.0	NA
Post Polish GAC	BOJP36	1/9/97	1/9/97	<2.0	2.6	<2.0	NA
Post Lead GAC	BOJP37	1/9/97	1/9/97	3.0	43	<2.0	NA
Post Lead GAC Dupe	BOJP38	1/9/97	1/9/97	3.2	46	<2.0	NA
Pre Lead GAC	BOJP39	1/9/97	1/9/97	7.6	180	7.6	NA
Extraction Well	BOJP40	1/9/97	1/9/97	7.2	130	7.1	NA
Post Lead	BOJKM8	1/2/97	1/9/97	NA	NA	NA	<1.0
Post Lead	BOJKNO	1/7/97	1/9/97	NA	NA	NA	<1.0
Post Lead	BOJKN2	1/9/97	1/9/97	NA	NA	NA	<1.0
Pre Treat	BOJKM7	1/2/97	1/9/97	NA	NA	NA	270
Pre Treat	BOJKM9	1/7/97	1/9/97	NA	NA	NA	260
Pre Treat	BOJKN1	1/9/97	1/9/97	NA	NA	NA	270
Injection Well	BOJP41	1/16/97	1/16/97	<2.0	3.4	<2.0	NA
Post Polish GAC	BOJP42	1/16/97	1/16/97	<2.0	5.2	<2.0	NA
Post Lead GAC	BOJP43	1/16/97	1/16/97	3.7	75	<2.0	NA
Post Lead GAC Dupe	BOJP44	1/16/97	1/16/97	3.6	74	<2.0	NA
Pre Lead GAC	BOJP45	1/16/97	1/16/97	7.8	150	7.3	NA
Extraction Well	BOJP46	1/16/97	1/16/97	7.0	130	6.7	NA
Post Lead	BOJKN3	1/14/97	1/16/97	NA	NA	NA	<1.0
Post Lead	BOJKN6	1/16/97	1/16/97	NA	NA	NA	<1.0
Pre Treat	BOJKN4	1/14/97	1/16/97	NA	NA	NA	270
Pre Treat	BOJKN5	1/16/97	1/16/97	NA	NA	NA	270
Injection Well	BOJP47	1/23/97	1/23/97	<2.0	10	<2.0	NA
Post Polish GAC	BOJP48	1/23/97	1/23/97	<2.0	10	<2.0	NA
Post Lead GAC	BOJP49	1/23/97	1/23/97	4.8	78	<2.0	NA
Pre Lead GAC	BOJP50	1/23/97	1/23/97	7.3	150	7.0	NA
Extraction Well	BOJP51	1/23/97	1/23/97	7.5	140	7.1	NA
Extraction Well Dupe	BOJP52	1/23/97	1/23/97	6.6	120	6.0	NA
Post Lead	BOJKN8	1/21/97	1/23/97	NA	NA	NA	<1.0
Post Lead	BOJKPO	1/23/97	1/23/97	NA	NA	NA	<1.0
Pre Treat	BOJKN7	1/21/97	1/23/97	NA	NA	NA	290
Pre Treat	BOJKN9	1/23/97	1/23/97	NA	NA	NA	260
Injection Well	BOJP53	1/30/97	1/30/97	<2.0	13	<2.0	NA
Post Polish GAC	BOJP54	1/30/97	1/30/97	<2.0	13	<2.0	NA
Post Lead GAC	BOJP55	1/30/97	1/30/97	4.5	77	<2.0	NA
Pre Lead GAC	BOJP56	1/30/97	1/30/97	7.4	160	6.6	NA
Pre Lead GAC Dupe	BOJP57	1/30/97	1/30/97	7.1	160	6.4	NA
Extraction Well	BOJP58	1/30/97	1/30/97	7.4	160	7.2	NA
Post Lead	BOJKP2	1/28/97	1/30/97	NA	NA	NA	69
Post Lead	BOJKP4	1/30/97	1/30/97	NA	NA	NA	<1.0
Pre Treat	BOJKP1	1/28/97	1/30/97	NA	NA	NA	290
Pre Treat	BOJKP3	1/30/97	1/30/97	NA	NA	NA	290

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**200-UP-1 Pump and Treat System Monitoring**  
**Field Screening Results, January 1997 through February 6, 1997**  
**SAF B97-012**

<b>Sample Location</b>	<b>HEIS Number</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Chloroform (ug/L)</b>	<b>Carbon Tetrachloride (ug/L)</b>	<b>Trichloroethylene (ug/L)</b>	<b>Total Uranium (ug/L)</b>
Injection Well	BOJP59	2/6/97	2/6/97	3.3	23	<2.0	NA
Post Polish GAC	BOJP60	2/6/97	2/6/97	3.1	22	<2.0	NA
Post Lead GAC	BOJP61	2/6/97	2/6/97	6.9	86	<2.0	NA
Pre Lead GAC	BOJP62	2/6/97	2/6/97	7.7	150	7.6	NA
Pre Lead GAC Dupe	BOJP63	2/6/97	2/6/97	7.0	140	6.5	NA
Extraction Well	BOJP64	2/6/97	2/6/97	7.2	140	7.5	NA
Post Lead	BOJKP6	2/4/97	2/6/97	NA	NA	NA	<1.0
Post Lead	BOJKP8	2/6/97	2/6/97	NA	NA	NA	<1.0
Pre Treat	BOJKP5	2/4/97	2/6/97	NA	NA	NA	280
Pre Treat	BOJKP7	2/6/97	2/6/97	NA	NA	NA	270

NA - Not Analyzed

j - Value less than practical quantitation limit

Analyst:

*R.T. Coffman* 1-21-97  
R.T. Coffman

VOA Instrument: Hewlett Packard 5890 GC, Serial # 3235A47885

Method: Dual DB-VRX columns, ECD/FID, 1mL headspace injection

Logbook: 200-UP-1 Field Logbook, EL-1334 pages 31 to 43

Uranium Instrument: ChemChek KPA-11a, Serial # 8445050085

Method: Kinetic Phosphorescence

Logbook: 200-UP-1 Field Logbook, EL-1334 pages 31 to 43

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