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ERC Team

Interoffice Memorandum

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

TO: F. W. Gustafson, H9-11

DATE: January 8, 1996

COPIES: See Below

FROM: Duane Jacques
Analytical Services/Field Services
H9-10/372-9400

SUBJECT: **200-UP-1 PUMP AND TREAT PROCESS MONITORING RESULTS, SEPTEMBER THROUGH NOVEMBER 1995, REV 0**

REFERENCES:

1. BHI, 1995a, *Field Screening (On-Site Measurements) Quality Assurance Plan*, BHI-EE-08, Bechtel Hanford, Inc., Richland, Washington.
2. BHI, 1995b, *Field Screening Procedures*, BHI-EE-05, Bechtel Hanford, Inc., Richland, Washington.
3. BHI, 1995, *200-UP-1 Field Screening Support Logbook*, EL-1277, Bechtel Hanford, Inc., Richland, Washington.
4. ChemChek, 1994, *Operation and Service Manual, Kinetic Phosphorescence Analyzer KPA-11*, ChemChek Instruments, 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. The Quality Assurance level for this work corresponds to QA-1 as specified in the reference 1 (BHI 1995a). The samples reported in this document with HEIS numbers were managed under SAF B96-029. Samples reported without HEIS numbers were collected and analyzed to monitor the system but are not a part of SAF B96-029.

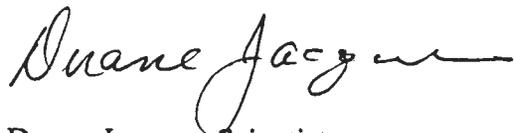
Attachment 1 contains Volatile Organic Compound (VOC) and total uranium results for process water samples collected from selected portions of the 200-UP-1 Pump and Treat System. The VOC samples were analyzed using a Photovac 10S Plus portable gas chromatograph in accordance with Field Screening Procedure (FSP) 1.1, *Aqueous Headspace Analysis of Volatile Organic Compounds in Water* (BHI 1995b). Information concerning operation of the gas chromatograph is contained in the instrument logbook EL-1264.

The total uranium samples were analyzed using a ChemChek KPA-11a Kinetic Phosphorescence Analyzer. The KPA-11a was calibrated and operated in accordance with the instrument operating manual (ChemChek 1994). Information concerning use of the ChemChek KPA-11a as well as

F. W. Gustafson, H9-11
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preparation of VOC calibration standards and samples is contained in the referenced field logbook EL-1277. Sample custody information for all samples reported in this document are also contained in field logbook EL-1277.

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



Duane Jacques, Scientist

QA Review by: Paul E Duerksen

IDJ:idj

Attachments: Attachment 1. 200-UP-1 Pump and Treat Process Monitoring, Field Screening Results, September through November 1995

Copies:

Analytical Services Project Files, X2-10, w/a

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BHI Document Control, H4-79, w/a

Attachment 1

200-UP-1 Pump and Treat Process Monitoring
Field Screening Results, September through November 1995
SAF B96-029

<i>Sample Location</i>	<i>HEIS Number</i>	<i>Sample Date</i>	<i>Analysis Date</i>	<i>Chloroform (µg/L)</i>	<i>Carbon TetraCl (µg/L)</i>	<i>TCE (µg/L)</i>	<i>Uranium (µg/L)</i>
Extraction Well		9/7/95	9/7/95	4.7	57	<2.0	NA
Pretreat Tank		9/7/95	9/7/95	3.0u	55	<2.0	NA
Pre Carbon		9/7/95	9/7/95	4.7	66	230	NA
Post Carbon		9/7/95	9/7/95	<4.0	<2.0	<2.0	NA
Injection Well		9/7/95	9/7/95	<4.0	1.0u	<2.0	NA
Extraction Well		10/5/95	10/5/95	5.1	39	<2.0	NA
Pre Carbon		10/5/95	10/5/95	5.3	42	45	NA
Post Carbon		10/5/95	10/5/95	<4.0	<2.0	<2.0	NA
Injection Well		10/5/95	10/5/95	<4.0	<2.0	<2.0	NA
Extraction Well		10/12/95	10/12/95	5.0	56	<2.0	NA
Pre Treat	BOGFX3	10/11/95	11/3/95	NA	NA	NA	270
Pre Treat	BOGFX5	10/12/95	11/3/95	NA	NA	NA	260
Post Lead	BOGFX4	10/11/95	11/3/95	NA	NA	NA	<1.0
Post Lead	BOGFX6	10/12/95	11/3/95	NA	NA	NA	<1.0
Pre Carbon		10/12/95	10/12/95	6.7	55	20	NA
Post Carbon		10/12/95	10/12/95	<4.0	1.3u	<2.0	NA
Injection Well		10/12/95	10/12/95	<4.0	1.0u	<2.0	NA
Extraction Well		10/19/95	10/19/95	4.0	49	1.7u	NA
Pre Treat	BOGFX7	10/17/95	11/3/95	NA	NA	NA	250
Pre Treat	BOGFX9	10/19/95	11/3/95	NA	NA	NA	260
Post Lead	BOGFX8	10/17/95	11/3/95	NA	NA	NA	<1.0
Post Lead	BOGFY0	10/19/95	11/3/95	NA	NA	NA	<1.0
Pre Carbon		10/19/95	10/19/95	4.8	50	21	NA
Post Carbon		10/19/95	10/19/95	<4.0	1.5u	<2.0	NA
Injection Well		10/19/95	10/19/95	<4.0	<2.0	<2.0	NA
Extraction Well		10/27/95	10/27/95	4.3	32	<2.0	NA
Pre Treat	BOGFY1	10/24/95	11/3/95	NA	NA	NA	260
Pre Treat	BOGFY3	10/27/95	11/3/95	NA	NA	NA	260
Post Lead	BOGFY2	10/24/95	11/3/95	NA	NA	NA	<1.0
Post Lead	BOGFY4	10/27/95	11/3/95	NA	NA	NA	<1.0
Pre Carbon		10/27/95	10/27/95	5.5	27	11	NA
Post Carbon		10/27/95	10/27/95	<4.0	1.1u	<2.0	NA
Injection Well		10/27/95	10/27/95	<4.0	<2.0	<2.0	NA
Extraction Well	BOGFZ0	11/3/95	11/3/95	6.8	25	2.9	NA
Pre Treat	BOGFY5	11/1/95	11/3/95	NA	NA	NA	260
Pre Treat	BOGFY7	11/3/95	11/3/95	NA	NA	NA	260
Post Lead	BOGFY6	11/1/95	11/3/95	NA	NA	NA	<1.0
Post Lead	BOGFY8	11/3/95	11/3/95	NA	NA	NA	<1.0
Pre Carbon	BOGFZ2	11/3/95	11/3/95	3.3u	19	18	NA
Post Carbon	BOGFZ3	11/3/95	11/3/95	<4.0	<2.0	<2.0	NA
Injection Well	BOGFZ1	11/3/95	11/3/95	<4.0	<2.0	<2.0	NA
Extraction Well		11/9/95	11/9/95	5.6	31	2.5	NA
Pre Treat		11/7/95	11/9/95	NA	NA	NA	260
Pre Treat		11/9/95	11/9/95	NA	NA	NA	260
Post Lead		11/7/95	11/9/95	NA	NA	NA	<1.0

200-UP-1 Pump and Treat Process Monitoring
Field Screening Results, September through November 1995
SAF B96-029

Sample Location	HEIS Number	Sample Date	Analysis Date	Chloroform (µg/L)	Carbon TetraCl (µg/L)	TCE (µg/L)	Uranium (µg/L)
Post Lead Injection Well		11/9/95	11/9/95	NA	NA	NA	<1.0
Extraction Well		11/9/95	11/9/95	<4.0	<2.0	<2.0	NA
Pre Treat	BOGSY4	11/17/95	11/17/95	5.5	30	2.0	NA
Pre Treat	BOGSY6	11/14/95	11/17/95	NA	NA	NA	240
Pre Treat	BOGSY6	11/17/95	11/17/95	NA	NA	NA	250
Post Lead	BOGSY5	11/14/95	11/17/95	NA	NA	NA	<1.0
Post Lead	BOGSY7	11/14/95	11/17/95	NA	NA	NA	<1.0
Pre Carbon	BOGFZ4	11/17/95	11/17/95	6.0	30	12	NA
Post Carbon	BOGFZ5	11/17/95	11/17/95	<4.0	<2.0	<2.0	NA
Injection Well		11/17/95	11/17/95	<4.0	<2.0	<2.0	NA
Extraction Well		11/30/95	11/30/95	4.4	46	1.7u	NA
Pre Treat	BOGSZ0	11/30/95	12/15/95	NA	NA	NA	280
Post Lead	BOGSZ1	11/30/95	12/15/95	NA	NA	NA	<1.0
Post Carbon 1	BOGFZ8	11/30/95	11/30/95	<4.0	40	8.0	NA
Pre Carbon 1	BOGFZ7	11/30/95	11/30/95	<4.0	11	<2.0	NA
Pre Carbon 2	BOGFZ6	11/30/95	11/30/95	<4.0	5.6	<2.0	NA
Injection Well		11/30/95	11/30/95	<4.0	<2.0	<2.0	NA

NA - Not Analyzed

u - Value less than practical quantitation limit

Uranium/

VOA Analyst:

I. D. Jacques 1/9/96
 I. D. Jacques

VOA Instrument: Photovac 10S Plus GC, Serial # BJDG203

Method: 5 mL/min HP Air, 11.7 eV lamp, 250 µL injection

Logbook: Photovac Instrument Logbook, EL-1264

Uranium Instrument: ChemChek KPA-11a, Serial # 9445050065

Method: Kinetic Phosphorescence

Logbook: 200-UP-1 Project Logbook, EL-1277