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Environmental
Restoration
Contractor

ERC Team

Interoffice Memorandum

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

TO: M. A. Buckmaster, H0-19
M. J. Galgoul, H9-03

DATE: July 18, 1997

COPIES: See Below

FROM: R. T. Coffman
Sampling and Analytical Services
X7-02/531-0661

SUBJECT: **200-ZP-1 PHASE II PERFORMANCE MONITORING, GROUNDWATER RESULTS, JUNE 1997, REV 0**

REFERENCES:

1. BHI, 1997, *On-Site Measurements Quality Assurance Plan*, BHI-QA-03, Plan 5.2, REV 1, Bechtel Hanford, Inc., Richland, Washington.
2. BHI, 1995, *Field Screening Procedures*, BHI-EE-05, Bechtel Hanford, Inc., Richland, Washington.
3. BHI, 1997, *200-ZP-1 Field Screening Support Logbook*, EL-1359, Bechtel Hanford, Inc., Richland, Washington.

This data package contains field screening results for groundwater samples analyzed to support 200-ZP-1 IRM Phase II performance monitoring. The Quality Assurance level for this work corresponds to QC-1 as specified in reference 1 (BHI 1997). Samples collected and analyzed during June 1997 were managed under SAF C97-014 (Group 1 and 5).

Attachment 1 contains Volatile Organic Compound (VOC) results for groundwater samples collected to support the referenced project. The VOC results were generated using a Hewlett Packard 5890 gas chromatograph with a headspace autosampler operated in accordance with Field Screening Procedure (FSP) 1.29, *Aqueous Headspace Analysis of Volatile Organic Compounds in Water Using Hewlett Packard 5890 Gas Chromatograph* (BHI 1997). Information concerning operation and calibration of the gas chromatograph is contained in the instrument logbook EL-1329. Please contact me if you have any questions on this information.

R. T. Coffman, Engineer/Analyst



RTC:rtc

M. A. Buckmaster, H0-19

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Attachments:

Attachment 1. 200-ZP-1 IRM Phase II Performance Monitoring, Groundwater Results,
June 1997

Attachment 2. Sample Chain of Custody Sheets

Copies:

~~D. E. Ayres, BI-35~~, w/attachments 1 and 2

J. V. Borghese, H9-03, w/attachment 1 only

R. T. Coffman, X7-02, w/attachments 1 and 2

C. W. Denslow, H9-03, w/attachment 1 only

B. H. Ford, H0-02, w/attachment 1 only

J. D. Isaacs, H0-19, w/attachment 1 only

I. D. Jacques, L6-06, w/attachment 1 only

R. B. Kerkow, X7-02, w/attachment 1 only

S. A. Strobe, T7-12, w/attachment 1 only

D. A. St John, N1-28, w/attachment 1 only

L. C. Swanson, H9-02, w/attachment 1 only

BHI Document Control, H4-79, w/original attachments

049920

200-ZP-1 Phase II Performance Monitoring
Groundwater Results, June 1997
SAF C97-014 (Group 1 and 5)

<i>Sample Location</i>	<i>HEIS Number</i>	<i>Sample Date</i>	<i>Analysis Date</i>	<i>Chloroform (µg/L)</i>	<i>Carbon Tetrachloride (µg/L)</i>	<i>Trichloroethylene (µg/L)</i>
299-W15-1	B0L920	6/23/97	6/25/97	29	3200	16
299-W15-7	B0L925	6/23/97	6/25/97	72	2400	18
299-W15-10	B0L921	6/23/97	6/25/97	45	2300	11
299-W15-11	B0L922	6/23/97	6/25/97	27	2100	4.9
299-W15-38	B0L923	6/23/97	6/25/97	36	2600	<2.0
Duplicate @ 299-W15-38	B0L924	6/23/97	6/25/97	38	2800	<2.0

j - Value less than practical quantitation limit

VOA Instrument: Hewlett Packard 5890 GC, Serial # 3235A47685
Method: Dual DB-VRX columns, ECD/FID, 1 mL headspace injection
Logbook: 200-ZP-1 Field Logbook, EL-1359

Analyst:

R.T. Coffman 7-18-97
R.T. Coffman

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C97-014-38 Page 1 of 1

Collector AG RIZZO (RFS)	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
Project Designation 200-ZP-1 IRM (Group 1 & 5) Groundwater Sampling FY1997	Sampling Location 200-W	SAF No. C97-014		
Ice Chest No. SML 278	Field Logbook No. 200 - SML H2 PAGE 9	Method of Shipment Gov. Vehicle		
Shipped To Field Analysis	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A		

POSSIBLE SAMPLE HAZARDS/REMARKS N/A	Preservation	HCl to pH <2 Cooled to 4C							
	Type of Container	Gs*							
	No. of Container(s)	1							

Special Handling and/or Storage 001 40 C	Volume	40ml							
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SAMPLE ANALYSIS	VOA BY FIELD GC -- Chlorinated Hydrocarbon								
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Sample No.	Matrix *	Sample Date	Sample Time						
B0L920	Water	JUN 23 1997	1209	L					

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT FAX COPIES OF LOG IN TO DL STEWART 372-1704 & JIM DUNCAN 372-9052 JMR 6-13-97	Matrix *
Relinquished By AG RIZZO (RFS)	Date/Time 13:33	Received By RT Coffman / PT Coffman	<ul style="list-style-type: none"> S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By AG RIZZO (RFS)	Date/Time 6-24-97	Received By RT Coffman / PT Coffman	
Relinquished By	Date/Time	Received By	
Relinquished By	Date/Time	Received By	
Relinquished By	Date/Time	Received By	

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C97-014-43 Page 1 of 1

Collector AG RIZZO (RFS)	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
Project Designation 200-ZP-1 IRM (Group 1 & 5) Groundwater Sampling FY1997	Sampling Location 200-W	SAF No. C97-014		
Ice Chest No. <i>Small 278</i>	Field Logbook No. <i>200-W - SWL H2 PAGE 10</i>	Method of Shipment <i>Gov. Vehicle</i>		
Shipped To Field Analysis	Offsite Property No. <i>N/A</i>	Bill of Lading/Air Bill No. <i>N/A</i>		

POSSIBLE SAMPLE HAZARDS/REMARKS <i>N/A</i>	Preservation	HCT to pH -2 Cooled to 4C							
	Type of Container	Gs*							
	No. of Container(s)	1							
Special Handling and/or Storage <i>0W/4°C</i>	Volume	40ml							

SAMPLE ANALYSIS	VOA BY FIELD GC -- Chlorinated Hydrocarbon
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Sample No.	Matrix *	Sample Date	Sample Time						
BOL925	Water	JUN 23 1997	1312	✓					

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT	Matrix *
Relinquished By <i>AG RIZZO (RFS)</i>	Date/Time <i>6-24-97</i>	Received By <i>R. COFFMAN / RT Coffman</i>	Date/Time <i>6/24/97</i>
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

- S - Soil
- SE - Sediment
- SO - Solid
- SL - Sludge
- W - Water
- O - Oil
- A - Air
- DS - Drum Solids
- DL - Drum Liquids
- T - Tissue
- WI - Wipe
- L - Liquid
- V - Vegetation
- X - Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C97-014-39

Page 1 of 1

Collector AG RIZZO (RFS)	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
Project Designation 200-ZP-1 IRM (Group 1 & 5) Groundwater Sampling FY1997	Sampling Location 200-W	SAF No. C97-014		
Ice Chest No. <i>Smk 270</i>	Field Logbook No. <i>Wm - Smk H2 PAGE 9</i>	Method of Shipment <i>Car Vehicle</i>		
Shipped To Field Analysis	Offsite Property No. <i>NIA</i>	Bill of Lading/Air Bill No. <i>NIA</i>		

POSSIBLE SAMPLE HAZARDS/REMARKS <i>NIA</i>	Preservation	HCl to pH < 2 Cooled to 4C							
	Type of Container	Gs*							
	No. of Container(s)	1							
Special Handling and/or Storage <i>COOL 40C</i>	Volume	40ml							
SAMPLE ANALYSIS		VOA BY FIELD GC -- Chlorinated Hydrocarbon							

Sample No.	Matrix *	Sample Date	Sample Time						
B0L921	Water	JUN 23 1997	<i>1114</i>	✓					

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT <i>FAK COPIES OF LOG IN TO DL STEWART 372-1704 & JIM DUNCAN 372-9052 (SMK) 6-13-97</i>	Matrix *
Relinquished By <i>AG RIZZO (RFS)</i>	Date/Time <i>6-24-97</i>	Received By <i>RT COFFMAN / RT Coffman</i>	Date/Time <i>6/24/97</i>
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

- S = Soil
- SE = Sediment
- SO = Solid
- SL = Sludge
- W = Water
- O = Oil
- A = Air
- DS = Drum Solids
- DL = Drum Liquids
- T = Tissue
- WI = Wipe
- L = Liquid
- V = Vegetation
- X = Other

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C97-014-40

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Collector AG RIZZO (RFS)	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart. DL	Data Turnaround Field
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Project Designation 200-ZP-1 IRM (Group 1 & 5) Groundwater Sampling FY1997	Sampling Location 200-W	SAF No. C97-014
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Ice Chest No. <i>SMC 278</i>	Field Logbook No. <i>WUM - SMC H2 PAGE 9</i>	Method of Shipment <i>GOV VEHICLE</i>
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Shipped To Field Analysis	Offsite Property No. <i>N/A</i>	Bill of Lading/Air Bill No. <i>N/A</i>
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POSSIBLE SAMPLE HAZARDS/REMARKS <i>N/A</i>	Preservation	HCl to pH ~2 Cooled to 4C																		
	Type of Container	Gs*																		
	No. of Container(s)	1																		

Special Handling and/or Storage <i>cool 40C</i>	Volume	40ml																	
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SAMPLE ANALYSIS	VOA BY	FIELD GC .. Chlorinated Hydrocarbon
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Sample No.	Matrix *	Sample Date	Sample Time																	
B0L922	Water	JUN 23 1997	<i>1022</i>	✓																

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT	Matrix *
Relinquished By <i>AG RIZZO (RFS)</i>	Date/Time <i>13:33</i> <i>6-24-97</i>	Received By <i>RT COFFMAN / RT Coffman</i>	Date/Time <i>13:33</i> <i>6/24/97</i>
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

- S = Soil
- SE = Sediment
- SO = Solid
- SL = Sludge
- W = Water
- O = Oil
- A = Air
- DS = Drum Solids
- DL = Drum Liquids
- T = Tissue
- WI = Wipe
- L = Liquid
- V = Vegetation
- X = Other

LABORATORY SECTION	Received By	Title	Date/Time
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FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

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Collector AG RIZZO (RFS)	Company Contact J.H. KESSNER	Telephone No. (509) 372-9538	Project Coordinator Stewart, DL	Data Turnaround Field
Project Designation 200-ZP-1 IRM (Group 1 & 5) Groundwater Sampling FY1997	Sampling Location 200-W	SAF No. C97-014		
Ice Chest No. <i>Sink 278</i>	Field Logbook No. <i>WIM-Sum. H2 PAGE 9</i>	Method of Shipment <i>Car Vehicle</i>		
Shipped To Field Analysis	Offsite Property No. <i>N/A</i>	Bill of Lading/Air Bill No. <i>N/A</i>		

POSSIBLE SAMPLE HAZARDS/REMARKS <i>N/A</i>	Preservation	HCl to pH <2 Cooled to 4C																		
	Type of Container	Gs*																		
	No. of Container(s)	1																		
Special Handling and/or Storage <i>Cool 4°C</i>	Volume	40ml																		
SAMPLE ANALYSIS		VOA BY FIELD GC -- Chlorinated Hydrocarbon																		

Sample No.	Matrix *	Sample Date	Sample Time																		
BOL923	Water	JUN 23 1997	<i>0911</i>	<input checked="" type="checkbox"/>																	

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS TOTAL ACTIVITY EXEMPT	Matrix *
Relinquished By <i>AG RIZZO (RFS)</i>	Date/Time <i>6-24-97</i>	Received By <i>RT COFFMAN / RT Coffman</i>	Date/Time <i>6/24/97</i>
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

- S = Soil
- SE = Sediment
- SO = Solid
- SL = Sludge
- W = Water
- O = Oil
- A = Air
- DS = Drum Solids
- DL = Drum Liquids
- T = Tissue
- WI = Wipe
- L = Liquid
- V = Vegetation
- X = Other

