

Environmental
Restoration
Contractor

ERC Team

Interoffice Memorandum



037192

0052016

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: J. R. Freeman-Pollard, H9-12
~~J. A. Lerch, B1-35~~

DATE: October 11, 1996

COPIES: See Below

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



SUBJECT: **200-ZP-1 PHASE II PERFORMANCE MONITORING, GROUNDWATER RESULTS, AUGUST/SEPTEMBER/OCTOBER 1996, REV 0**

46828

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, 1995a, *200-ZP-1 Field Screening Support Logbook*, EL-1273, Bechtel Hanford, Inc., Richland, Washington.

This data package contains field screening results for groundwater samples analyzed to support the 200-ZP-1 IRM Implementation sampling program. The Quality Assurance level for this work corresponds to QA-1 as specified in the reference 1 (BHI 1996). The majority of the samples were managed under SAF B96-155. Samples collected and analyzed during October 1996 were managed under SAF B97-001.

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) 1.1, *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. Please contact me if you have any questions on this information.

Duane Jacques
Duane Jacques, Scientist

IDJ:ijj

J. R. Freeman-Pollard, H9-12

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Attachments:

Attachment 1. 200-ZP-1 IRM Phase II Performance Monitoring, Groundwater Results,
August/September/October 1996

Attachment 2. Sample Chain of Custody Sheets

Copies:

M. A. Buckmaster, H4-80, w/attachment 1 only

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

A. Hopkins, H9-11, w/attachment 1 only

D. A. Myers, H9-11, w/attachment 1 only

T. D. LeFrancois, H9-03, w/attachment 1 only

K. M. Singleton, H9-11, w/attachment 1 only

L. C. Swanson, H9-11, w/attachment 1 only

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

200-ZP-1 Phase II Performance Monitoring
Groundwater Results, August/September/October 1996
SAF B96-155 and SAF B97-001

Sample Location	HEIS Number	Sample Date	Analysis Date	Chloroform (µg/L)	Carbon Tetrachloride (µg/L)	Trichloroethylene (µg/L)
299-W15-1	BOHZ11	8/20/96	9/3/96	<10	2100	<5.0
299-W15-1	BOHZ28	9/5/96	9/19/96	14	1700	4.0
299-W15-1	BOHZ41	9/16/96	9/20/96	15	1800	6.0
299-W15-1	BOJ2B9	10/1/96	10/9/96	14	2400	3.1
299-W15-11	BOHZ14	8/20/96	9/3/96	<10	1800	<5.0
299-W15-11	BOHZ29	9/5/96	9/19/96	23	1700	6.1
Duplicate @ 299-W15-11	BOHZ38	9/5/96	9/19/96	24	1800	6.5
299-W15-11	BOHZ44	9/16/96	9/20/96	28	2000	8.3
299-W15-11	BOJ2C0	10/1/96	10/9/96	28	2600	4.9
299-W15-24	BOHZ23	9/3/96	9/10/96	34	160	<2.0
299-W15-25	BOHZ15	8/21/96	9/3/96	63	1200	<5.0
299-W15-25	BOHZ30	9/5/96	9/19/96	90	600	<5.0
299-W15-25	BOHZ45	9/17/96	9/20/96	37	920	2.7
299-W15-25	BOJ2C1	10/7/96	10/9/96	51	1600	<2.0
299-W15-30	BOHZ24	9/13/96	9/20/96	110	3900	10
299-W15-31A	BOHZ25	9/13/96	9/20/96	89	3600	12
299-W15-38	BOHZ16	8/21/96	9/3/96	32	1300	<5.0
Duplicate @ 299-W15-38	BOHZ17	8/21/96	9/3/96	27	1200	<5.0
299-W15-38	BOHZ31	9/5/96	9/19/96	20	910	<5.0
299-W15-38	BOHZ46	9/17/96	9/20/96	23	1200	2.1
Duplicate @ 299-W15-38	BOHZM3	9/17/96	9/20/96	23	1200	2.3
299-W15-38	BOJ2C2	10/7/96	10/9/96	21	1600	<2.0
299-W18-23	BOHZ26	9/3/96	9/10/96	4.8	280	<2.0
299-W18-26	BOHZ27	9/3/96	9/10/96	14	170	<2.0
Trip Blank	BOHZ18	8/20/96	9/3/96	<2.0	<2.0	<2.0
Trip Blank	BOHZ19	8/21/96	9/3/96	<2.0	<2.0	<2.0
Trip Blank	BOHZ32	9/3/96	9/10/96	<2.0	<2.0	<2.0
Trip Blank	BOHZ33	9/5/96	9/19/96	<2.0	<2.0	<2.0
Trip Blank	BOHZ34	9/13/96	9/20/96	<2.0	<2.0	<2.0
Trip Blank	BOHZM4	9/16/96	9/20/96	<2.0	<2.0	<2.0
Trip Blank	BOHXM5	9/17/96	9/20/96	<2.0	<2.0	<2.0
Trip Blank	BOJ2C4	10/1/96	10/9/96	<2.0	<2.0	<2.0
Trip Blank	BOJ2C5	10/7/96	10/9/96	<2.0	<2.0	<2.0

j - Value less than practical quantitation limit

Analyst:

I. E. Jacques 10/1/96
 I. E. Jacques

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-1273, pgs 94 to 95

Collector <i>K. Trapp</i>	Company Contact J. R. Freeman-Pollard	Telephone No. (509) 372-9347	Data Turnaround Field
Project Designation 200-ZP-1 Interim Remedial Measurements	Sampling Location 200 W	SAF No. B96-155	
Ice Chest No.	Field Logbook No.	Method of Shipment Hand Delivered	
Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None <i>HCL</i>	<i>KE9K/96</i>						
	Type of Container	Gs							
	No. of Container(s)	1							
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.	Volume	40ml							

SAMPLE ANALYSIS

See item (1) in Special instructions.

Sample No.	Matrix *	Sample Date	Sample Time						
B0HZ11	Water	8/20/96	1432	X					
B0HZ18	"	"	1505	X					

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS Deliver samples to Field Screening personnel. (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)		Matrix *
Relinquished By <i>K. Trapp / K. Trapp</i>	Date/Time <i>0735</i> 8/30/96	Received By <i>[Signature]</i>	Date/Time <i>0735</i> 8/30/96	<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 <i>[Signature]</i>	Date/Time <i>0910</i> 9-3-96	Received By <i>D. Jacyna</i>	Date/Time <i>0910</i> 9-3-96	
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

Collector <i>K. Trapp</i>	Company Contact J. R. Freeman-Pollard	Telephone No. (509) 372-9347	Data Turnaround Field
Project Designation 200-ZP-1 Interim Remedial Measurements	Sampling Location 200 W	SAF No. B96-155	
Ice Chest No.	Field Logbook No. <i>EFL-1023-2</i>	Method of Shipment Hand Delivered	
Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None <i>HCl</i>	<i>K2S/AgNO3</i>																
	Type of Container	Gs																	
	No. of Container(s)	1																	
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.	Volume	40ml																	

SAMPLE ANALYSIS

See item (1) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time																
BOHZ14	Water	8/20/96	1130	X															

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS Deliver samples to Field Screening personnel.										Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other		
	Relinquished By <i>K. Trapp / K. Trapp</i>	Date/Time <i>8/20/96 0735</i>	Received By <i>[Signature]</i>	Date/Time <i>0735</i>	(1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)										
	Relinquished By <i>[Signature]</i>	Date/Time <i>0710</i>	Received By <i>D. Jacques</i>	Date/Time <i>0960</i>											
	Relinquished By <i>[Signature]</i>	Date/Time <i>9-3-96</i>	Received By <i>[Signature]</i>	Date/Time <i>9/3/96</i>											
Relinquished By	Date/Time	Received By	Date/Time												

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

Bechtel Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

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Collector <i>A. Rizzo / K. Trapp</i>	Company Contact J. R. Freeman-Pollard	Telephone No. (509) 372-9347	Data Turnaround Field
Project Designation 200-ZP-1 Interim Remedial Measurements	Sampling Location 200 W	SAF No. B96-155	
Ice Chest No.	Field Logbook No. <i>EFL-1123-2</i>	Method of Shipment Hand Delivered	
Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	None HCL	<i>609/1992</i>																
	Type of Container	Gs																	
	No. of Container(s)	1																	
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.	Volume	40ml																	

SAMPLE ANALYSIS				See item (1) in Special Instructions.															
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Sample No.	Matrix *	Sample Date	Sample Time																
BOHZ15	Water	8-21-96	1204	X															
BOHZ19	W	8-21-96	0810	X															
BOHZ16	W	8-21-96	1300	X															
BOHZ17	W	8-21-96	1300	X															

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS Deliver samples to Field Screening personnel. (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)										Matrix * 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 <i>K. Trapp</i>	Date/Time <i>0735 8/30/96</i>	Received By <i>ERC</i>	Date/Time <i>0735 8-30-96</i>											
	Relinquished By <i>ERC</i>	Date/Time <i>0710 9-3-96</i>	Received By <i>ERC</i>	Date/Time <i>0710 9/3/96</i>											
	Relinquished By <i>B. Whitten</i>	Date/Time <i>9-3-96</i>	Received By <i>D. Jorgensen</i>	Date/Time <i>9/3/96</i>											

LABORATORY SECTION	Received By	Title	Date/Time
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FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time
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Collector <i>A. Rizzo / G. Hamilton</i>	Company Contact J. R. Freeman-Pollard	Telephone No. (509) 372-9347	Data Turnaround Field
Project Designation 200-ZP-1 Interim Remedial Measurements	Sampling Location 200 W	SAF No. B96-155	
Ice Chest No.	Field Logbook No. <i>EFL-1123-2</i>	Method of Shipment Hand Delivered	
Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <																		
	Type of Container	Gs*																		
	No. of Container(s)	1																		
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.	Volume	40ml																		

SAMPLE ANALYSIS		See item (1) in Special Instructions.																		
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Sample No.	Matrix *	Sample Date	Sample Time																	
BOHZ23	Water	9-3-96	0945	X																
<i>BOHZ32</i>	<i>W</i>	<i>9-3-96</i>	<i>0730</i>	<i>X</i>																
<i>BOHZ27</i>	<i>W</i>	<i>9-3-96</i>	<i>1030</i>	<i>X</i>																
<i>BOHZ26</i>	<i>W</i>	<i>9-3-96</i>	<i>1116</i>	<i>X</i>																

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS Deliver samples to Field Screening personnel.	Matrix *
Relinquished By <i>ERC</i> Date/Time <i>1200</i>	Received By <i>ERC</i> Date/Time <i>1200</i>	(1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)	S - Soil
Relinquished By <i>G. Hamilton</i> Date/Time <i>9-3-96</i>	Received By <i>G. Hamilton</i> Date/Time <i>9-3-96</i>		SE - Sediment
Relinquished By <i>ERC</i> Date/Time <i>0910</i>	Received By <i>D. Jacques</i> Date/Time <i>0910</i>		SO - Solid
Relinquished By <i>G. Hamilton</i> Date/Time <i>9-10-96</i>	Received By <i>D. Jacques</i> Date/Time <i>9-10-96</i>		SL - Sludge
Relinquished By	Received By		W - Water
Relinquished By	Received By		O - Oil
Relinquished By	Received By		A - Air
Relinquished By	Received By		DS - Drum Solids
Relinquished By	Received By		DL - Drum Liquids
Relinquished By	Received By		T - Tissue
Relinquished By	Received By		WI - Wipe
Relinquished By	Received By		L - Liquid
Relinquished By	Received By		V - Vegetation
Relinquished By	Received By		X - Other

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

Bechtel Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

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Collector <i>A. Rizzo</i>	Company Contact J. R. Freeman-Pollard	Telephone No. (509) 372-9347	Data Turnaround Field
Project Designation 200-ZP-1 Interim Remedial Measurements	Sampling Location 200 W	SAF No. B96-155	
Ice Chest No.	Field Logbook No. <i>EFZ-1123-2</i>	Method of Shipment Hand Delivered	
Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2											
	Type of Container	Gs*											
	No. of Container(s)	1											
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.	Volume	40ml											
SAMPLE ANALYSIS		See item (I) in Special Instructions.											

Sample No.	Matrix *	Sample Date	Sample Time										
BOHZ28	Water	9-5-96	1116	X									
BOHZ33	W	9-5-96	0740	X									
BOHZ42	W	9-5-96	9										
BOHZ29	W	9-5-96	1343	X									
BOHZ30	W	9-5-96	1343	X									
BOHZ30	W	9-5-96	1445	X									
BOHZ31	W	9-5-96	1526	X									

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By <i>A.G. Rizzo</i>	Date/Time 9-6-96 0920	Received By <i>[Signature]</i>	Date/Time 9-6-96	(1) VOA BY FIELD GC -- Chlorinated Hydrocarbon {Carbon tetrachloride, Chloroform, Trichloroethene}				S - Soil
Relinquished By <i>[Signature]</i>	Date/Time 9-10-96	Received By <i>D. Jacques</i>	Date/Time 9-10-96					SE - Sediment
Relinquished By	Date/Time	Received By	Date/Time					SO - Solid
Relinquished By	Date/Time	Received By	Date/Time	SL - Sludge	W - Water	O - Oil	A - Air	DS - Drum Solids
Relinquished By	Date/Time	Received By	Date/Time	DL - Drum Liquids	T - Tissue	WI - Wipe	L - Liquid	V - Vegetation
Relinquished By	Date/Time	Received By	Date/Time	X - Other				

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

Collector <i>A. Rizza</i>	Company Contact J. R. Freeman-Pollard	Telephone No. (509) 372-9347	Data Turnaround Field
Project Designation 200-ZP-1 Interim Remedial Measurements	Sampling Location 200 W	SAF No. B96-155	
Ice Chest No.	Field Logbook No. <i>SL-1137</i>	Method of Shipment Hand Delivered	
Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2																		
	Type of Container	Gs*																		
	No. of Container(s)	1																		
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.	Volume	40ml																		

SAMPLE ANALYSIS	See item (1) in Special Instructions.																			
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Sample No.	Matrix *	Sample Date	Sample Time	HCl to pH <2	Gs*	No. of Container(s)	Volume	See item (1) in Special Instructions.												
BOHZ24	Water	9-13-96	1115	X																
<i>BOHZ34</i>	<i>W</i>	<i>9-13-96</i>	<i>0740</i>	<i>X</i>																
<i>BOHZ05</i>	<i>W</i>	<i>9-13-96</i>	<i>1331</i>	<i>X</i>																

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS Deliver samples to Field Screening personnel. (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)	Matrix *
Relinquished By <i>AGLEW (ERI)</i>	Date/Time <i>1350 9-13-96</i>	Received By <i>D. Jacques</i>	Date/Time <i>1350 9-13-96</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

Bechtel Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

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Collector <i>A. Rizzo</i>	Company Contact J. R. Freeman-Pollard	Telephone No. (509) 372-9347	Data Turnaround Field
Project Designation 200-ZP-1 Interim Remedial Measurements	Sampling Location 200 W	SAF No. B96-155	
Ice Chest No.	Field Logbook No. <i>ERC-1123-D</i>	Method of Shipment Hand Delivered	
Shipped To Mobile Laboratory	Offsite Property No. NA	Bill of Lading/Air Bill No. NA	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	HCl to pH <2																		
	Type of Container	Gs*																		
	No. of Container(s)	1																		
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.	Volume	40ml																		

SAMPLE ANALYSIS		See item (1) in Special Instructions.																		
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Sample No.	Matrix *	Sample Date	Sample Time																	
BOHZ41	Water	9-16-96	1130	X																
BOHZ44	W	9-16-96	0730	X																
BOHZ44	W	9-16-96	1400	X																

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS Deliver samples to Field Screening personnel. (1) VOA BY FIELD GC - Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)												Matrix *					
Relinquished By <i>Ais Liza (ERC)</i>	Date/Time <i>9/16/96</i>	Received By <i>D. Jackson</i>	Date/Time <i>9/16/96</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

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B96-155-28	Page 1 of 1											
Collector <i>Doug Bryant / Ken Trapp</i>			Company Contact J. R. Freeman-Pollard			Telephone No. (509) 372-9347		Data Turnaround Field												
Project Designation 200-ZP-1 Interim Remedial Measurements			Sampling Location 200 W			SAF No. B96-155														
Ice Chest No. <i>NA</i>			Field Logbook No. <i>EFL-123-2</i>			Method of Shipment Hand Delivered														
Shipped To Mobile Laboratory			Offsite Property No. NA			Bill of Lading/Air Bill No. NA														
POSSIBLE SAMPLE HAZARDS/REMARKS			Preservation		HCl to pH <2															
			Type of Container		Gs*															
			No. of Container(s)		1															
Special Handling and/or Storage Maintain samples between 2 degrees C and 6 degrees C.			Volume		40ml															
SAMPLE ANALYSIS					See item (1) in Special Instructions.															
Sample No.	Matrix *	Sample Date	Sample Time																	
BOHZ45	Water	9-17-96	1201	X																
BOHZM5	water	9-17-96	0812	X																
BOHZ46	W	9/17/96	1318	X																
BOHZM3	W	9/17/96	1318	X																
CHAIN OF POSSESSION		Sign/Print Names						SPECIAL INSTRUCTIONS Deliver samples to Field Screening personnel. (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)						Matrix * 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 <i>K. Trapp / K. Trapp</i>	Date/Time <i>1330</i> 9/17/96	Received By <i>J. Freeman</i>	Date/Time <i>1350</i> 9/17/96																	
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												

Collector A.G.Rizzo	Company Contact M. Buckmaster	Telephone No. 509-372-9272	Project Coordinator Koerner, CC	Data Turnaround 0 Field
Project Designation 200-ZP-1 Phase II Operations Water Monitor Sampling - 1997	Sampling Location 200 West	SAF No. B97-001		
Ice Chest No.	Field Logbook No. ERL-1123-2	Method of Shipment Hand delivered		
Shipped To Mobile Laboratory	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A		

POSSIBLE SAMPLE HAZARDS/REMARKS NONE	Preservation	HCl to pH <2																		
	Type of Container	Gs																		
	No. of Container(s)	1																		
Special Handling and/or Storage Maintain sample between 2 degrees C and 6 degrees C.	Volume	40ml																		

SAMPLE ANALYSIS	See item (1) in Special Instructions.																			
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Sample No.	Matrix *	Sample Date	Sample Time																	
BOJ2B9	Water	10-1-96	1130	X																
BOJ2C4	W	10-1-96	0740	X																
BOJ2C0	W	10-1-96	1343	X																

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS Deliver sample to 4701-C	Matrix *
Relinquished By A.G. Rizzo (ERC)	Date/Time 10-1-96	Received By K. Trapp / K. Trapp	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 K. Trapp / K. Trapp	Date/Time 10/18/96	Received By R. T. Coffman / R. T. Coffman	
Relinquished By	Date/Time	Received By	

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

Collector A.G.Rizzo / <i>D. Cell</i>	Company Contact M. Buckmaster	Telephone No. 509-372-9272	Project Coordinator Koerner, CC	Data Turnaround 0 Field
Project Designation 200-ZP-1 Phase II Operations Water Monitor Sampling - 1997	Sampling Location 200 West	SAF No. B97-001		
Ice Chest No.	Field Logbook No. <i>EFL-11232</i>	Method of Shipment Hand delivered		
Shipped To Mobile Laboratory	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A		

POSSIBLE SAMPLE HAZARDS/REMARKS NONE	Preservation	HCl to pH <2																		
	Type of Container	Gs																		
	No. of Container(s)	1																		
	Special Handling and/or Storage Maintain sample between 2 degrees C and 6 degrees C.	Volume	40ml																	
SAMPLE ANALYSIS		See item (I) in Special Instructions.																		

Sample No.	Matrix *	Sample Date	Sample Time																	
B0J2C1	Water	10-7-96	1055	X																
B0J2C5	W	10-7-96	0755	X																
B0J2C2	W	10-7-96	1205	X																

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS Deliver sample to 4701-C (1) VOA BY FIELD GC - Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)	Matrix *
Relinquished By <i>A.G.Rizzo</i>	Date/Time 1400	Received By <i>EFL</i>	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
<i>A.G.Rizzo</i>	10-7-96	<i>M. Buckmaster</i>	
<i>M. Buckmaster</i>	10-8-96	<i>R.T. Coffman</i>	
Relinquished By	Date/Time	Received By	
Relinquished By	Date/Time	Received By	

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