

START 9713512.2576

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**ERC FIELD SCREENING/EAL
DATA PACKAGE TRANSMITTAL FORM**

Transmittal Date: 5/15/96

To: Sample Management
(organization)

From: EAL
(organization)

Delivery Group Number:

Data Package Contents:

Data package for EAL sample batches
960506B, 960507A, 960508C, 960509A,
960513B



Transmitted by:

Paul E Duerksen
Paul E Duerksen 5/15/96

Sign/Print Name Date

Received by:

Sign/Print Name Date

CC:

May 15, 1996

TO: Jane Borghese, X0-37

COPY: Rita Powell, X0-37

INTRODUCTION:

We received the following samples between May 6 and May 13, 1996. Your sample numbers were assigned the following EAL numbers.

<u>Customer Sample Number</u>	<u>EAL Number</u>	<u>Matrix Type</u>
B0HDX5	EAL02479	well water
B0HDX3	EAL02480	wellwater
B0HDX3	EAL02481	well water
B0HDX7	EAL02485	well water
B0HDX5	EAL02486	well water
B0HDX9	EAL02487	well water
B0HDV9	EAL02488	well water
B0HDW8	EAL02507	well water
B0HDV5	EAL02508	well water
B0HDV7	EAL02509	well water
B0HDV3	EAL02510	well water
B0HDY3	EAL02513	well water
B0HDY1	EAL02514	well water



The samples were also assigned batch numbers of 960506B, 960507A, 960508C, 960509A, and 960513B. The corresponding Sampling Analysis Form (SAF) number was B96-036. EAL analyzed the samples in support of the 100-NR-2 Monthly Performance Monitoring for May.

NOTABLE EVENTS:

Total petroleum hydrocarbons were analyzed in the field. Results are included here for completeness.

RESULTS:

A summary of results and associated quality control parameters is shown on spreadsheets included in this data package. All samples were analyzed in accordance with approved analytical methods and good laboratory practice. Please contact Stacey Bolling at 373-5433, if you have any questions.

Stacey D Bolling
Signature of Analyst

5/15/96
Date

Paul E Duerksen
Signature of QA Coordinator

5/15/96
Date

100-NR-2 Monthly Performance Monitoring
May 1996

Slacey
D. Balling
5/15/96

Sample #	Analyte	CAS #	Method ID	Result	Units	MDL	Dilution Factor	Analysis Date	Lab ID	SDG #
B0HDX5	Calcium	7440-70-2	EPA300.7	29.2	ug/mL	0.510	6	5/8/96	EAL02479	960506B
B0HDX5	Magnesium	7439-95-4	EPA300.7	5.16	ug/mL	0.066	6	5/8/96	EAL02479	960506B
B0HDX5	Sulfate	14808-79-8	EPA300.0	17.8	ug/mL	0.039	6	5/8/96	EAL02479	960506B
B0HDX3	Calcium	7440-70-2	EPA300.7	30.8	ug/mL	0.510	6	5/8/96	EAL02480	960506B
B0HDX3	Magnesium	7439-95-4	EPA300.7	5.27	ug/mL	0.066	6	5/8/96	EAL02480	960506B
B0HDX3	Sulfate	14808-79-8	EPA300.0	20.9	ug/mL	0.039	6	5/8/96	EAL02480	960506B
B0HDW3	Calcium	7440-70-2	EPA300.7	30.7	ug/mL	0.510	6	5/8/96	EAL02481	960506B
B0HDW3	Magnesium	7439-95-4	EPA300.7	5.08	ug/mL	0.066	6	5/8/96	EAL02481	960506B
B0HDW3	Sulfate	14808-79-8	EPA300.0	17.9	ug/mL	0.039	6	5/8/96	EAL02481	960506B
B0HDX7	Calcium	7440-70-2	EPA300.7	32.5	ug/mL	0.510	6	5/8/96	EAL02485	960507A
B0HDX7	Magnesium	7439-95-4	EPA300.7	5.50	ug/mL	0.066	6	5/8/96	EAL02485	960507A
B0HDX7	Sulfate	14808-79-8	EPA300.0	27.1	ug/mL	0.039	6	5/8/96	EAL02485	960507A
B0HDW5	Calcium	7440-70-2	EPA300.7	32.2	ug/mL	0.510	6	5/8/96	EAL02486	960507A
B0HDW5	Magnesium	7439-95-4	EPA300.7	5.43	ug/mL	0.066	6	5/8/96	EAL02486	960507A
B0HDW5	Sulfate	14808-79-8	EPA300.0	26.9	ug/mL	0.039	6	5/8/96	EAL02486	960507A
B0HDX9	Calcium	7440-70-2	EPA300.7	U	ug/mL	0.510	1	5/8/96	EAL02487	960507A
B0HDX9	Magnesium	7439-95-4	EPA300.7	U	ug/mL	0.066	1	5/8/96	EAL02487	960507A
B0HDX9	Sulfate	14808-79-8	EPA300.0	U	ug/mL	0.039	1	5/8/96	EAL02487	960507A
B0HDV9	Calcium	7440-70-2	EPA300.7	29.1	ug/mL	0.510	6	5/8/96	EAL02488	960507A
B0HDV9	Magnesium	7439-95-4	EPA300.7	4.96	ug/mL	0.066	6	5/8/96	EAL02488	960507A
B0HDV9	Sulfate	14808-79-8	EPA300.0	25.8	ug/mL	0.039	6	5/8/96	EAL02488	960507A
B0HDV5	Calcium	7440-70-2	EPA300.7	152	ug/mL	0.510	51	5/15/96	EAL02508	960509A
B0HDV5	Magnesium	7439-95-4	EPA300.7	26.8	ug/mL	0.066	51	5/15/96	EAL02508	960509A
B0HDV5	Sulfate	14808-79-8	EPA300.0	208	ug/mL	0.039	101	5/15/96	EAL02508	960509A
B0HDV7	Calcium	7440-70-2	EPA300.7	47.5	ug/mL	0.510	6	5/15/96	EAL02509	960509A
B0HDV7	Magnesium	7439-95-4	EPA300.7	7.87	ug/mL	0.066	6	5/15/96	EAL02509	960509A
B0HDV7	Sulfate	14808-79-8	EPA300.0	28.1	ug/mL	0.039	6	5/15/96	EAL02509	960509A
B0HDV3	Calcium	7440-70-2	EPA300.7	35.9	ug/mL	0.510	6	5/15/96	EAL02510	960509A
B0HDV3	Magnesium	7439-95-4	EPA300.7	5.89	ug/mL	0.066	6	5/15/96	EAL02510	960509A
B0HDV3	Sulfate	14808-79-8	EPA300.0	17.4	ug/mL	0.039	6	5/15/96	EAL02510	960509A
B0HDY3	Calcium	7440-70-2	EPA300.7	33.1	ug/mL	0.510	6	5/15/96	EAL02513	960513B
B0HDY3	Magnesium	7439-95-4	EPA300.7	5.20	ug/mL	0.066	6	5/15/96	EAL02513	960513B
B0HDY3	Sulfate	14808-79-8	EPA300.0	20.2	ug/mL	0.039	6	5/15/96	EAL02513	960513B
B0HDY1	Calcium	7440-70-2	EPA300.7	33.0	ug/mL	0.510	6	5/15/96	EAL02514	960513B
B0HDY1	Magnesium	7439-95-4	EPA300.7	6.21	ug/mL	0.066	6	5/15/96	EAL02514	960513B
B0HDY1	Sulfate	14808-79-8	EPA300.0	20.1	ug/mL	0.039	6	5/15/96	EAL02514	960513B

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EAL
 BATCH # 960506B, 960507A,
 960509A, & 960513B
 QUALITY CONTROL

ANALYST SIGNATURE: *Stacey D Bell*

ANALYTE	SAMPLE USED FOR QC	LCS OR SPIKE RECOVERY	RELATIVE PERCENT DIFFERENCE BETWEEN DUPLICATES	METHOD BLANK CONCENTRATION
sulfate	EAL02479	94%	1%	.039U
magnesium	EAL02479	97%	3%	.066U
calcium	EAL02479	87%	0%	.510U
sulfate	EAL02510	100%	1%	.039U
magnesium	EAL02510	104%	7%	.066U
calcium	EAL02510	98%	1%	.510U

U = analyte was not detected above the associated quantitation limit

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100-NR-2
TPH Analysis

000005

Sample Number	Collected (Date)	Time Analyzed	Volume (mL) of Sample	Volume (mL) of F-113	D(tph) Reading	D(tah) Reading	TPH (ppm) in Sample	TAH (ppm) in Sample	NOTES Comments
Zero	5/14/96	10:45	100	10	0	0	0	0	
Blank	5/14/96	11:45	100	10	1	0	0.1	0	
BOHDW8	5/08/96	12:38	100	10	0	0	0	0	EAL 02507B
BOHDV5	5/09/96	13:15	100	10	0	0	0	0	EAL 02508B
BOHDY1	5/13/96	13:34	100	10	0	0	0	0	EAL 02514B
STD 100	5/14/96	14:04	100	10	848	51	84.8	5.1	
STD 200	5/14/96	14:21	100	10	1106	89	110.6	8.9	
Blank	5/14/96	14:39	100	10	2	0	0.2	0	
Date Analyzed: May 14, 1996					Analyst: R.B.Kerkow				

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GENERAL VALIDATION CHECKLIST

BATCH NUMBER (from Sample Logbook): 960506B, 960507A, 960508C, 960509A, 96050
EAL02479 - EAL02481,
 SAMPLE NUMBERS: EAL02485 - EAL02488, ANALYTES REQUESTED: Calcium, Magnesium, Sulfate, T
EAL02507 - EAL02510, EAL02513 - 02514
 VALIDATOR: PAUL E DVERKSEN SIGNATURE: Paul E Dverksen DATE: 5/15/96

Requested analytes were performed	<u>Yes</u>	No
Chain-of-custody forms are complete	<u>Yes</u>	Not Available
Anomaly reports are complete and signed	Yes	<u>None</u>
Organic peer review checklist is complete	Yes	<u>Not Required</u>
Inorganic peer review checklist is complete	<u>Yes</u>	Not Required
Radiochemical peer review checklist is complete	Yes	<u>Not Required</u>
Spreadsheets (for Results and QC) are in proper format and have been signed	<u>Yes</u>	No
HEIS numbers have been included	<u>Yes</u>	Not Required
Client sample identification has been included	<u>Yes</u>	Not Required
EAL sample numbers have been included	<u>Yes</u>	No
SAF has been included	<u>Yes</u>	No
Narrative has been included and signed	<u>Yes</u>	No

INORGANIC PEER REVIEW CHECKLIST

SAMPLE #: EA102508-2510
EA102513 DATE SAMPLED: 5/9/96 5/13/96 DATE ANALYZED: 5/15/96

PEER REVIEWER: John M. Cluskey SIGNATURE: [Signature] DATE: 05/15/96

IC Anions and/or Cations SO₄, Mg & Ca only

Water samples for sulfate and/or nitrate were refrigerated to 4°C	<u>Yes</u>	NA
Holding time requirement was met: 48 hours from date sampled for nitrate; 28 days for other ions	<u>Yes</u>	No
Date of multi-point calibration	<u>05/14/96</u> & <u>05/15/96</u>	-
The calibration check standard met acceptance criteria for each ion reported	<u>Yes</u>	No
The response for each ion reported in each sample was less than the response for that ion in the highest calibration standard	<u>Yes</u>	No
Spike recovery and RPD calculations are correct, and the values were reported on the QC spreadsheet	<u>Yes</u>	No
Spike recovery met acceptance criteria for each ion reported	<u>Yes</u>	No
The reagent blank was analyzed and reported on the QC spreadsheet	<u>Yes</u>	No
Conversion to soil concentration was correct	Yes	<u>NA</u>

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INORGANIC PEER REVIEW CHECKLIST

EA102479-2481
 SAMPLE #: EA102485-2488 DATE SAMPLED: 5/6/96 + 5/7/96 DATE ANALYZED: 5/8/96
 PEER REVIEWER: TH Bellus SIGNATURE: TH Bellus DATE: 5/09/96

IC Anions and/or Cations SO₄, Mg + Ca only

Water samples for sulfate and/or nitrate were refrigerated to 4°C	<u>Yes</u>	NA
Holding time requirement was met: 48 hours from date sampled for nitrate; 28 days for other ions	<u>Yes</u>	No
Date of multi-point calibration	<u>5/8/96</u> <u>4/29/96</u>	<u>Mg + Ca</u> <u>SO₄</u>
The calibration check standard met acceptance criteria for each ion reported	<u>Yes</u>	No
The response for each ion reported in each sample was less than the response for that ion in the highest calibration standard	<u>Yes</u>	No
Spike recovery and RPD calculations are correct, and the values were reported on the QC spreadsheet	<u>Yes</u>	No
Spike recovery met acceptance criteria for each ion reported	<u>Yes</u>	No
The reagent blank was analyzed and reported on the QC spreadsheet	<u>Yes</u>	No
Conversion to soil concentration was correct	Yes	<u>NA</u>

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--LABORATORY COPY--ERC LABORATORY MANAGEMENT
SAMPLING AUTHORIZATION FORM

000009

SAF Number B96-036Revision 2

PROGRAM TYPE	<u>CERCLA</u>	PROJECT ID	<u>100-NR-2 TS</u>
PROJECT TYPE	<u>Expedited Response Action</u>	OPERABLE UNIT	<u>100-NR-2</u>
TASK ID	<u>1</u>	ROUND NUMBER	<u>0</u>
SAMPLING EVENT TITLE <u>100-NR-2 MONTHLY PERFORMANCE MONITORING</u>			

TASK MANAGER	ORG. CODE	MSIN	TELEPHONE	FAX
<u>J. V. Borghese</u>	<u>CN222</u>	<u>X0-37</u>	<u>373-4790</u>	<u>373-1574</u>

CHARGE CODES –	ANALYTICAL SERVICES	<u>PG22R</u>	SAMPLE MANAGEMENT	<u>PG22R</u>
	SAMPLING SERVICES	<u>PG22R</u>	VALIDATION SERVICES	<u>PG22R</u>
	RAD. SCREEN (222-S)	<u> </u>		

SAMPLE MANAGEMENT FUNCTION PROJECT COORDINATOR R. C. SmithTELEPHONE 375-4655ESTIMATED START DATE 11/01/95 ESTIMATED COMPLETION DATE 01/31/96SAMPLING LOCATION 100 Area ESTIMATED NUMBER OF SAMPLES 60DATA TURNAROUND REQUIREMENTS PRIORITY REGULARDATA DELIVERABLE REQUIREMENTS STANDALONE SUMMARYSAMPLE MATRIX SOIL WATER OTHER (See Comments)ANALYTICAL PROTOCOL(S) SW-846, RadioChemistry, and Field ScreeningLABORATORY QUANTERRA LOCKHEED (Split) FIELD SCREENING EAL

COMMENTS:

- ▶▶ Revision 1 – Change to analysis list for the EAL Laboratory.
- ▶▶ Revision 2 – Correction to TPH analysis requirements for the EAL Laboratory.
- ▶▶ General description of sampling event. Sampling of extraction monitoring wells prior to start up of the pump and treatment system. Extraction and treatment system samples need to be coordinated with those taken by the facility operator.
- ▶▶ Well List – N-75, N-103A, N-105A, N-106A, N-2, N-3, N-14, N-31, N-46, N-67, N-76, N-92A, N-96A, N-99A, influent, and effluent. For December sampling event include; seep wells NS-1 through 13, including NS-8B

Date 01/08/96

Laboratory Analysis
000010

ERC Laboratory Management Field Sampling Requirements
--LABORATORY COPY-- Laboratory Analysis

Laboratory **EAL**

Matrix **WATER**

Parameter/Analysis	Reference Method	Container ¹ / Volume	Preservation	Holding Times
1. Anions -- IC (<i>Include Only</i>) -- SO ₄ Cations -- IC (<i>Include Only</i>) -- Calcium -- Magnesium	EPA 300.0 EPA 300.7	G 50 ml	Cool 4°C	28 Days
2. TPH -- Total	EPA 418.1	G 500 ml	Cool 4°C	14 Days

Field Instrument Readings Required? (Yes/No) Yes

Key

¹ Container Types:

- | | | | |
|-----|--------------------------|------|-------------------------------|
| P | = Plastic (Polyethylene) | aG | = Amber Glass |
| G | = Glass | aGs | = Amber Glass w/septum cap |
| Gs | = Glass w/septum cap | aGs* | = Amber Glass w/septum cap -- |
| Gs* | = Glass w/septum cap -- | | No head space in container |

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Batch 960506-B

Data Turnaround

- Priority
- Normal

Collector <i>A. Rizzo, M. Mehlhorn</i>	Company Contact J.V. Borghese	Telephone (509) 373-4790
Project Designation 100-NR-2 Monthly Performance Monitoring - May	Sampling Location 100 N	SAF No. B96-036
Ice Chest No.	Field Logbook No. <i>EL-1288</i>	Method of Shipment Hand Delivered
Shipped To EAL	Offsite Property No. NA	Bill of Lading/Air Bill No. NA

Possible Sample Hazards/Remarks	Preservation	Cool 4°C																		
	Type of Container	G																		
	No. of Container(s)	1																		
	Special Handling and/or Storage Maintain samples between 2°C and 6°C.	Volume	60mL																	
SAMPLE ANALYSIS			Anions (IC) - SO ₄ (Only), Cations (IC) - Ca, Mg (Only)																	

Sample No.	Matrix	Date Sampled	Time Sampled																	
BOHDX5	W	5-6-96	0910	X						EAL02479										
BOHDX3	W	5-6-96	0947	X						EAL02480										
BOHDW3	W	5-6-96	1010	X						EAL02481										

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix*
Relinquished By <i>Marty Mehlhorn</i>	Date/Time <i>5-6-96</i>	Received By <i>Steve Call</i>	<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>Marty Mehlhorn</i>	Date/Time <i>1238</i>	Received By <i>Steve Call</i>	
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

000011

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

960507A

Data Turnaround

- Priority
- Normal

Collector <i>A. Rizzo, M. Mehlhorn</i>	Company Contact J.V. Borghese	Telephone (509) 373-4790
Project Designation 100-NR-2 Monthly Performance Monitoring - May	Sampling Location 100 N	SAF No. B96-036
Ice Chest No.	Field Logbook No. <i>EL-1288</i>	Method of Shipment Hand Delivered
Shipped To EAL	Offsite Property No. NA	Bill of Lading/Air Bill No. NA

Possible Sample Hazards/Remarks	Preservation	Cool 4°C																		
	Type of Container	G																		
	No. of Container(s)	1																		
Special Handling and/or Storage Maintain samples between 2°C and 8°C.	Volume	<i>60ml</i> 125ml	<i>mm</i> 5-7-96																	

SAMPLE ANALYSIS

Anions (IC)
- SO₄
(Only).
Cations (IC)
- Ca, Mg
(Only)

Sample No.	Matrix*	Date Sampled	Time Sampled																		
BOHDX7	W	<i>5-7-96</i>	<i>0940</i>	<i>X</i>	<i>EAL02485</i>																

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS										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>Monty</i>	Date/Time <i>5-7-96</i>	Received By	Date/Time											
	<i>Monty Mehlhorn</i>	<i>1250</i>	<i>Steve D. Bell</i>	<i>1250 5/7/96</i>											
	Relinquished By	Date/Time	Received By	Date/Time											
Relinquished By	Date/Time	Received By	Date/Time	000012											
Relinquished By	Date/Time	Received By	Date/Time												

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

960507A

Data Turnaround

- Priority
- Normal

Collector <i>A. Rizzo, M. Mehlhorn</i>	Company Contact J.V. Borghese	Telephone (509) 373-4790
Project Designation 100-NR-2 Monthly Performance Monitoring - May	Sampling Location 100 N	SAF No. B96-036
Ice Chest No.	Field Logbook No. <i>EL-1288</i>	Method of Shipment Hand Delivered
Shipped To EAL	Offsite Property No. NA	Bill of Lading/Air Bill No. NA

Possible Sample Hazards/Remarks	Preservation	Cool 4°C								
	Type of Container	G								
	No. of Container(s)	1								
Special Handling and/or Storage Maintain samples between 2°C and 6°C.	Volume	<i>60ml 125ml</i>	<i>mm 5/7/96</i>							

SAMPLE ANALYSIS

Anions (IC)
- SO₄
(Only).
Cations (IC)
- Ca, Mg
(Only)

Sample No.	Matrix*	Date Sampled	Time Sampled							
BOHDW5	W	5-7-96	0940	X	EAL02486					
BOHDX9	W	5-7-96	0910	X	EAL02487					
BOHDX7	W	5-7-96								
BOHDV9	W	5-7-96	1047	X	EAL02488					

CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS					Matrix*
Relinquished By	Date/Time	Received By	Date/Time								000013
<i>Marty Mehlhorn</i>	<i>5-7-96</i>	<i>Shirley O'Reilly</i>	<i>1250 5/7/96</i>								
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

Batch 960508C

Data Turnaround

- Priority
- Normal

Collector <i>A. Rizzo, M. Mehlhorn</i>	Company Contact J.V. Borghese	Telephone (509) 373-4790
Project Designation 100-NR-2 Monthly Performance Monitoring - April	Sampling Location 100 N	SAF No. B96-036
Ice Chest No.	Field Logbook No. <i>EL-1298</i>	Method of Shipment Hand Delivered
Shipped To EAL	Offsite Property No. NA	Bill of Lading/Air Bill No. NA

Possible Sample Hazards/Remarks	Preservation	Cool 4°C																		
	Type of Container	G																		
	No. of Container(s)	1																		
Special Handling and/or Storage Maintain samples between 2°C and 6°C.	Volume	500mL																		
SAMPLE ANALYSIS																				
TPH - Total																				

Sample No.	Matrix*	Date Sampled	Time Sampled																	
BOHDW8	W	5-8-96	1025	X																

CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS										Matrix*
Relinquished By <i>Marty</i>	Date/Time 5-8-96	Received By <i>DG Call</i>	Date/Time	000014										S = Soil		
<i>Marty Mehlhorn</i>	1220	<i>Diane H. Call</i>	5-8-96/12:20											SE = Sediment		
Relinquished By	Date/Time	Received By	Date/Time											SO = Solid		
Relinquished By	Date/Time	Received By	Date/Time											SL = Sludge		
Relinquished By	Date/Time	Received By	Date/Time	W = Water												
Relinquished By	Date/Time	Received By	Date/Time	O = Oil												
Relinquished By	Date/Time	Received By	Date/Time	A = Air												
Relinquished By	Date/Time	Received By	Date/Time	DS = Drum Solids												
Relinquished By	Date/Time	Received By	Date/Time	DL = Drum Liquids												
Relinquished By	Date/Time	Received By	Date/Time	T = Tissue												
Relinquished By	Date/Time	Received By	Date/Time	WI = Wipe												
Relinquished By	Date/Time	Received By	Date/Time	L = Liquid												
Relinquished By	Date/Time	Received By	Date/Time	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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Btk 960509A

Data Turnaround

- Priority
- Normal

Collector <i>A. Pizzo / M. Melillo</i>	Company Contact J.V. Borghese	Telephone (509) 373-4790
Project Designation 100-NR-2 Monthly Performance Monitoring - May	Sampling Location 100 N	SAF No. B96-036
Ice Chest No.	Field Logbook No. <i>EL-1288</i>	Method of Shipment Hand Delivered
Shipped To EAL	Offsite Property No. NA	Bill of Lading/Air Bill No. NA

Possible Sample Hazards/Remarks	Preservation	Cool 4°C	Cool 4°C								
	Type of Container	G	G								
	No. of Container(s)	1	1								
	Special Handling and/or Storage Maintain samples between 2°C and 6°C.	Volume	60mL	500mL							

SAMPLE ANALYSIS				Anions (IC) - SO ₄ (Only)	TPH Total							
Sample No.	Matrix*	Date Sampled	Time Sampled	Cations (IC) - Ca, Mg (Only)								
BOHDV5	W	5-9-96	1223	X	X					EAL02508		
BOHDV7	W	5-9-96	1013	X						EAL02509		
BOHDV3	W	5-7-96	1123	X						EAL02516		

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS							Matrix*	
Relinquished By <i>Marty Melillo</i>	Date/Time <i>5-9-96</i>	Received By <i>Deane Call</i>	Date/Time <i>5-9-96/13:35</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										

000015

- 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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

B-66 960513B

Data Turnaround
 Priority
 Normal

Collector	Company Contact J.V. Borghese	Telephone (509) 373-4790
Project Designation 100-NR-2 Monthly Performance Monitoring - May	Sampling Location 100 N	SAF No. B96-036
Ice Chest No.	Field Logbook No.	Method of Shipment Hand Delivered
Shipped To EAL	Offsite Property No. NA	Bill of Lading/Air Bill No. NA

Possible Sample Hazards/Remarks	Preservation	Cool 4°C																	
	Type of Container	G																	
	No. of Container(s)	1																	
Special Handling and/or Storage Maintain samples between 2°C and 6°C.	Volume	125mL																	
SAMPLE ANALYSIS		Anions (IC) - SO ₄ (Only), Cations (IC) - Ca, Mg (Only) ✓																	

Sample No.	Matrix*	Date Sampled	Time Sampled																
BOHDY3	W	5-13-96	10:05	X		EAL02513													Effluent tank T-200

CHAIN OF POSSESSION	Sign/Print Names		SPECIAL INSTRUCTIONS				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 R. Fullberg (R. Fullberg)	Date/Time 5-13-96	Received By D. G. Call	Date/Time 5-13-96/11:20	tie to BOTT DYE		
	Relinquished By	Date/Time	Received By	Date/Time			
	Relinquished By	Date/Time	Received By	Date/Time			
Relinquished By	Date/Time	Received By	Date/Time				

000016

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

Batch 960513B

Data Turnaround
 Priority
 Normal

Collector	Company Contact J.V. Borghese	Telephone (509) 373-4790
Project Designation 100-NR-2 Monthly Performance Monitoring - May	Sampling Location 100 N	SAF No. B96-036
Ice Chest No.	Field Logbook No.	Method of Shipment Hand Delivered
Shipped To EAL	Offsite Property No. NA	Bill of Lading/Air Bill No. NA

Possible Sample Hazards/Remarks	Preservation	Cool 4°C	Cool 4°C								
	Type of Container	G	G								
	No. of Container(s)	1	1								
Special Handling and/or Storage Maintain samples between 2°C and 6°C.	Volume	60mL	500 mL								
SAMPLE ANALYSIS		Anions (IC) - SO ₄ (Only), Cations (IC) - Ca, Mg (Only)	TPH- Total								

Sample No.	Matrix*	Date Sampled	Time Sampled								
BOHDY1	W	5-13-96	09:55	X	X	EAL02514	Influent				

CHAIN OF POSSESSION	Sign/Print Names				SPECIAL INSTRUCTIONS						Matrix*	
Relinquished By	Date/Time	Received By	Date/Time	<i>tie to BOHDY0</i>								000017
<i>R. S. ...</i>	11:20	<i>Diana H. Call</i>	5/13/96/11:20									
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