

0047775

B00007-Wey

CASE NARRATIVE

WEYERHAEUSER (WEYER)  
ANALYTICAL AND TESTING SERVICES



Case Number: 01850  
SDG Number: B0007D  
Contract Number: 68-D9-0080

Samples from this case (01850) were received 02/07/90 through 02/09/90. This case was comprised waters for dissolved metals analysis. The requested analyses were as follows:

<u>Sample ID</u>	<u>Matrix</u>	<u>Analysis Requested</u>
B0007D	WATER	METALS
B0007DD	WATER	METALS
B0007DS	WATER	METALS
B0010D	WATER	METALS
B0013D	WATER	METALS
B0014D	WATER	METALS
B0016D	WATER	METALS
B0019D	WATER	METALS
B0021D	WATER	METALS
B0023D	WATER	METALS
B0026D	WATER	METALS

Several anomalies existed with this sample set that are listed below.

1. The furnace analytical spike for several of the samples analyzed for arsenic, lead, selenium and thallium was outside the control limit; however, the sample absorbances were less than 50 percent of the spike and consequently MSAs were not performed. These samples are flagged with a "W".

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

  
\_\_\_\_\_  
Kari H. Doxsee, Manager  
Analytical Chemistry Laboratories

  
\_\_\_\_\_  
Date

Please feel free to contact me with any questions concerning this data report. I can be reached at (206) 924-6148.

Sincerely,

Kari H. Doxsee  
Analytical Chemistry Laboratories  
Weyerhaeuser Analytical & Testing Services



# ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number: 01850

Title: WESTINGHOUSE WATER SAMPLES - PROJECT 11003		
Number of Samples: 9	Project Number: 046-5751	Groups: 3
Date Received: 02/07/90	Date Desired: 02/26/90	Estimated Completion Date: 02/26/90
Submitted By: BECHTOLD, BECKY / KHD	Location: WTC 2F25	Telephone: (509) 373-3448
Reviewed By: DOXSEE, Kari	Location: 2F 25	Telephone: 924-6148
Copy To:		

Sample Description and History:

**UPDATED**  
2-13

*Sample collected from WTC 2F25*

Series	Test Code - Report Range - Test Description
Group	Report Basis - Lower Limit of Sensitivity

3 A CLPINOR3 - - DISSOLVED Westinghouse - Inorganic Group 3 CLP Deliverables

Sample Number	Series to Be Evaluated	Submitter's Designation
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44565	A	B0007D - REC'D 2/7 - WATER
44566	A	B0010D - REC'D 2/7 - WATER
44567	A	B0013D - REC'D 2/7 - WATER
44568	A	B0014D - REC'D 2/7 - WATER
44569	A	B0016D - REC'D 2/7 - WATER
44570	A	B0019D - REC'D 2/9 - WATER
44571	A	B0021D - REC'D 2/9 - WATER
44572	A	B0023D - REC'D 2/9 - WATER
44573	A	B0026D - REC'D 2/9 - WATER

Interim Report Desired?	Hazardous Samples? Yes	No	
Reference:			Record Book:
Results Approved: <i>[Signature]</i>	Date: <i>2-28-90</i>	Signature applies to attached pages	Page Number:



Weyerhaeuser

# ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development - Analysis and Testing

Request Number: 01850

Title: WESTINGHOUSE WATER SAMPLES - PROJECT 11003

Test Code	Test Description	Number of Samples	Cost Multiplier	Cost per Sample	Line Total
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CLPINOR3	DISSOLVED Westinghouse - Inorganic Group 3 CLP Deliverables	9		\$ 160.00	\$ 1,440.00
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Sub-Total: \$ 1,440.00

Other Considerations:

Administration Fee \$ 0.00

Special Handling

Rush Jobs

QA/QC

Grand Total for Request: \$ 1,440.00

Comments:

Fixed Bid Prepared By: DJM	Date: 02/13/90
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SDG#	B0007D
SAS#	
CASE #	

Weyerhaeuser Company

Request #

1850

Analytical Laboratories  
Tacoma, Washington

Form 1

1990

	EPA Samp. No.	Matrix	Level	% Solids	Date Rec'd	Color Before	Color After	Clarity Before	Clarity After	Texture
1	B0007D	W			2.7					
2	B0010D	W								
3	B0013D	W								
4	B0014D	W								
5	B0016D	W			↓					
6	B0019D	W			2.9					
7	B0021D	W								
8	B0023D	W								
9	B0026D	W			↓					
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

Notes/Comments: (Include sample# and artifacts present.)

pH met &lt; 2

- MATRIX - Water (W), Soil (S)  
 LEVEL - Low (L), Medium (M)  
 COLOR - Red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black  
 CLARITY - Clear, cloudy, opaque  
 TEXTURE - Fine (powdery), medium (sand), coarse (large crystals or rocks)  
 ARTIFACTS - Any man-made materials present



1-)  
INORGANIC ANALYSIS DATA SHEET

B0007D

Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44565

Level (low/med): LOW

Date Received: 02/07/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	83.8	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	102	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.2	B		P
7440-70-2	Calcium	105000			P
7440-47-3	Chromium	3.4	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	8.0	B		P
7439-89-6	Iron	34.4	B		P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	21900			P
7439-96-5	Manganese	194			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	17.4	B		P
7440-09-7	Potassium	9670			P
7782-49-2	Selenium	2.7	B	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	34100			P
7440-28-0	Thallium	1.3	B	W	F
7440-62-2	Vanadium	4.7	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1-2  
INORGANIC ANALYSIS DATA SHEET

B0010D
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Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44566

Level (low/med): LOW

Date Received: 02/07/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	69.6	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.2	B		F
7440-39-3	Barium	101	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	5.4	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	B		P
7439-89-6	Iron	49.6	B		P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	20700			P
7439-96-5	Manganese	86.9			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	30.0	B		P
7440-09-7	Potassium	8380			P
7782-49-2	Selenium	2.3	B	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	30400			P
7440-28-0	Thallium	1.3	B		F
7440-62-2	Vanadium	7.5	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1-3  
INORGANIC ANALYSIS DATA SHEET

B0013D

Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44567

Level (low/med): LOW

Date Received: 02/07/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	112	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	97.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.3	B		P
7440-70-2	Calcium	88900			P
7440-47-3	Chromium	9.8	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	74.3	B		P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	18500			P
7439-96-5	Manganese	181			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	13.6	B		P
7440-09-7	Potassium	9310			P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	31300			P
7440-28-0	Thallium	1.7	B	W	F
7440-62-2	Vanadium	4.8	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1-4  
INORGANIC ANALYSIS DATA SHEET

B0014D

Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44568

Level (low/med): LOW

Date Received: 02/07/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	92.1	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	102	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.7	B		P
7440-70-2	Calcium	90100			P
7440-47-3	Chromium	5.7	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	25.4	B		P
7439-92-1	Lead	1.2	B	W	F
7439-95-4	Magnesium	19300			P
7439-96-5	Manganese	195			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.5	B		P
7440-09-7	Potassium	9650			P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	31900			P
7440-28-0	Thallium	1.0	B	W	F
7440-62-2	Vanadium	4.8	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1-5  
INORGANIC ANALYSIS DATA SHEET

B0016D

Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44569

Level (low/med): LOW

Date Received: 02/07/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	166	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	108	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	90600			P
7440-47-3	Chromium	7.1	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	260			P
7439-92-1	Lead	1.5	B		F
7439-95-4	Magnesium	20000			P
7439-96-5	Manganese	232			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	9030			P
7782-49-2	Selenium	2.2	B		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	29400			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc	3.6	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1-6  
INORGANIC ANALYSIS DATA SHEET

B0019D

Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44570

Level (low/med): LOW

Date Received: 02/09/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	86.3	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	6.5	B		F
7440-39-3	Barium	48.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	42700			P
7440-47-3	Chromium	7.8	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	222			P
7439-92-1	Lead	1.1	B		F
7439-95-4	Magnesium	8100			P
7439-96-5	Manganese	241			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	6150			P
7782-49-2	Selenium	3.3	B	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	23000			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	12.2	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1-7

INORGANIC ANALYSIS DATA SHEET

B0021D

Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44571

Level (low/med): LOW

Date Received: 02/09/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	86.3	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.2	B		F
7440-39-3	Barium	43.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.6	B		P
7440-70-2	Calcium	38900			P
7440-47-3	Chromium	6.1	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	31.5	B		P
7439-92-1	Lead	1.7	B		F
7439-95-4	Magnesium	9060			P
7439-96-5	Manganese	200			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	5400			P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	20000			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	10.8	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1-8

INORGANIC ANALYSIS DATA SHEET

B0023D

Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44572

Level (low/med): LOW

Date Received: 02/09/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	82.6	B		P
7440-36-0	Antimony	21.4	B		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	97.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.9	B		P
7440-70-2	Calcium	85300			P
7440-47-3	Chromium	4.4	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron	50.5	B		P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	18500			P
7439-96-5	Manganese	352			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	8510			P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	29000			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	6.2	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1-4  
INORGANIC ANALYSIS DATA SHEET

B0026D

Lab Name: WEYERHAEUSER COMPANY

Contract: 68-D9-0080

Lab Code: WEYER

Case No.:

SAS No.:

SDG No.: B0007D

Matrix (soil/water): WATER

Lab Sample ID: 44573

Level (low/med): LOW

Date Received: 02/09/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	91.6	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.9	B		F
7440-39-3	Barium	41.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.5	B		P
7440-70-2	Calcium	35600			P
7440-47-3	Chromium	5.5	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	61.2	B		P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	7590			P
7439-96-5	Manganese	21.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	4650	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	13300			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	10.1	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

Westinhouse Hanford Company

CHAIN

USTODY

Company Contact B. H. Ford Telephone 509-376-9234

Sa  $\approx$  Collected by L. D. Walker Date 2-6-90 Time 11:00

Sample Locations 1100 EM-1, MW-10

Ice Chest No. GOTT #RM5 Field Logbook and Page No. WHC-N-370, pg. 7

Remarks \_\_\_\_\_

Bill of Lading No. WHC-0824 Offsite Property No. W90-0006 #61

Method of Shipment Oak Harbor / Truck

Shipped to Weyerhaeuser

Sample Identification

B00016

(3) 40 ml amber, water, CLP-VOA

(1) 4 l amber, water, CLP-Semi Vol

(1) 1 l plastic, water, CLP-CN<sup>-</sup>, 2 ml NaOH

(1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - unfiltered

(1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - Filtered

Chain of Possession

Relinquished by: <u>L. D. Walker</u> <u>L. D. Walker</u>	Received by: <u>BH Ford</u> <u>BH Ford</u>	Date/Time: <u>2/6/90</u> <u>1250</u>
Relinquished by: <u>BH Ford</u> <u>BH Ford</u>	Received by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Date/Time: <u>2-6-90</u> <u>14:10</u>
Relinquished by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Received by: <u>T PERROTTI</u> <u>T Perrotti</u>	Date/Time: <u>2-7-90</u> <u>8:40 A</u>
Relinquished by: _____	Received by: _____	Date/Time: _____

Company Contact B. H. Ford Telephone 509-376-9234  
 Sample Collected by L. D. Walker Date 2-6-90 Time \_\_\_\_\_  
 Sample Locations 1100 EM-1, MW-11  
 Ice Chest No. IGLOO #13 Field Logbook and Page No. WHC-N-370, p.96  
 Remarks \_\_\_\_\_

Bill of Lading No. WHC #824 Offsite Property No. W90-0006 #61  
 Method of Shipment Oak Harbor / Truck  
 Shipped to Weyerhaeuser

Sample Identification

- B00013
- (3) 40 ml amber, water, CLP-VOA
  - (1) 4 l amber, water, CLP- Semi Vol
  - (1) 1 l plastic, water, CLP-CN<sup>-</sup>, 2 ml NaOH
  - (1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - unfiltered
  - (1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - Filtered
- B00011
- (2) 40 ml amber, water, CLP-VOA

Chain of Possession

Relinquished by: <u>L. D. Walker</u> <u>L. D. Walker</u>	Received by: <u>Bill Ford</u> <u>Bill Ford</u>	Date/Time: <u>2/6/90 12:18</u>
Relinquished by: <u>Bill Ford</u> <u>Bill Ford</u>	Received by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Date/Time: <u>2-6-90 14:10</u>
Relinquished by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Received by: <u>T. PERROTTI</u> <u>T. Perrotti</u>	Date/Time: <u>2-7-90 840A</u>
Relinquished by: _____	Received by: _____	Date/Time: _____

Westinhouse Hanford Company

CHAIN

USTODY

Company Contact B. H. Ford Telephone 509-376-9234  
 Sar Collected by L. D. Walker Date 2-6-90 Time \_\_\_\_\_  
 Sample Locations 1100 EM-1, MW-11  
 Ice Chest No. IGLOO #13 Field Logbook and Page No. WHC-N-370, pg. 6  
 Remarks \_\_\_\_\_

Bill of Lading No. WHC DB24 Offsite Property No. W90-0006 #61  
 Method of Shipment Oak Harbor / Truck  
 Shipped to Weyerhaeuser

Sample Identification

B00014

- (3) 40 ml amber, water, CLP-VOA
- (1) 4 l amber, water, CLP- Semi Vol
- (1) 1 l plastic, water, CLP-CN<sup>-</sup>, 2 ml NaOH
- (1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - unfiltered
- (1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - Filtered

Chain of Possession

Relinquished by: <u>L. D. Walker</u> <u>L. D. Walker</u>	Received by: <u>Bill Ford</u> <u>Bill Ford</u>	Date/Time: <u>2/6/90 12:18</u>
Relinquished by: <u>BH Ford</u> <u>BH Ford</u>	Received by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Date/Time: <u>2-6-90 14:10</u>
Relinquished by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Received by: <u>T. Pepprotti</u> <u>T. Pepprotti</u>	Date/Time: <u>2-7-90 840A</u>
Relinquished by: _____	Received by: _____	Date/Time: _____

Company Contact B.H. Ford Telephone 509-376-9234  
 Site Collected by L.D. Walker Date 2-5-90 Time 11:00 pst  
 Sample Locations 1100 EM-1 MW-14  
 Ice Chest No. IC 100 #12 WHC 0825 BH Field Logbook and Page No. WHC-N-370, pg. 5  
 Remarks \_\_\_\_\_

Bill of Lading No. WHC 0825 Offsite Property No. W90-0006 #60  
 Method of Shipment Oak Harbor / Truck  
 Shipped to Weyerhaeuser

Sample Identification

1) ~~B00007~~  
 3, 40 ml, amber, water, CLP-VOA  
 1, 4 l amber, water, CLP-SemiVol  
 1, 1 l plastic, water, CN<sup>-</sup>, 2ml NaOH-CLP  
 1, 1 l plastic, water, metals, CLP-2ml HNO<sub>3</sub> - unfiltered  
 1, 1 l plastic, water, metals, CLP 2ml HNO<sub>3</sub> - Filtered

2) ~~B00008~~  
 2, 40ml amber, water CLP-VOA

Chain of Possession

Relinquished by: <u>L.D. Walker</u> <u>L.A. Walker</u>	Received by: <u>SM Steele</u> smsteele	Date/Time: <u>2-5-90 / 1352</u>
Relinquished by: <u>SM Steele</u> smsteele	Received by: <u>JH Ford</u> BH Ford	Date/Time: <u>2-6-90 / 1204</u>
Relinquished by: <u>JH Ford</u> BH Ford	Received by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Date/Time: <u>2-6-90 / 14:10</u>
Relinquished by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Received by: <u>T PERROTTI</u> <u>J. Demarest</u>	Date/Time: <u>2-7-90</u> <u>840A</u>

Company Contact B.H. Ford Telephone 509-376-9234  
 Sample Collected by L.D. Walker Date 2-5-90 Time 12:00 pmt  
 Sample Locations 1100 EM-1, MW-13  
 Ice Chest No. ~~Field #12 WHC 0825 B4~~ Field Logbook and Page No. WHC-N-370, pg 5  
 Remarks \_\_\_\_\_

Bill of Lading No. WHC 0825 Offsite Property No. W90-0006 #60  
 Method of Shipment Oak Harbor / Truck  
 Shipped to Weyerhaeuser

Sample Identification

- <sup>CLW</sup> B00010
- (3) 40 ml amber, water, CLP-VOA
  - (1) 4 l amber, water, CLP- Semi Vol
  - (1) 1 l plastic, water, CLP-CN, 2 ml NaOH
  - (1) 1 l plastic, water, metals-CLP, 2 ml HNO<sub>3</sub> - unfiltered
  - (1) 1 l plastic, water, CLP-metals, 2 ml HNO<sub>3</sub> - Filtered

Chain of Possession

Relinquished by: <u>L.D. Walker</u> <u>L.D. Walker</u>	Received by: <u>SM Steele</u> <u>smsteele</u>	Date/Time: <u>2-5-90 1155?</u>
Relinquished by: <u>SM Steele</u> <u>smsteele</u>	Received by: <u>J.H. Ford B4 Ford</u>	Date/Time: <u>2/6/90 1204</u>
Relinquished by: <u>B.H. Ford</u> <u>BH Ford</u>	Received by: <u>J. Demarest</u> <u>J. Demarest</u>	Date/Time: <u>2/6/90 14:10</u>
Relinquished by: <u>J. Demarest</u> <u>J. Demarest</u>	Received by: <u>T. Perrotti</u> <u>T. Perrotti</u>	Date/Time: <u>2-7-90 840A</u>

CONTRACTOR <i>Westinghouse Hanford Co</i>	OFF-SITE PROPERTY CONTROL	SERIAL NUMBER (TO BE OBTAINED FROM PROPERTY ACCOUNTING) <i>6050</i>
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PART I - TO BE COMPLETED BY ORIGINATOR

DEPARTMENT <i>Env. Eng &amp; Tech</i>	SECTION <i>Geosciences</i>	UNIT <i>Hydrology</i>
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THE FOLLOWING ITEMS ARE TO BE SHIPPED FROM:  CONTRACTOR  VENDOR

ROUTING: *Oak Harbor / Truck*  PREPAID  COLLECT

SHIPPED TO <i>Weyerhaeuser Co. 32901 32nd Drive South Federal Way, WA 98003</i>	OFF-SITE CUSTODIAN <i>Ken Dorn</i>
	FULL TITLE <i>Manager</i>

QUANTITY	DESCRIPTION (INCLUDE SERIAL AND H.E.W. NO'S)	ORIGINAL COST
<i>1000</i>	<i>10000 # REXWELL 120 POLYPROPYLENE GEOMEMBRANE SAMPLES TAKEN IN WOT ICE AND VERMICULITE SAMPLES ARE NON HAZARDOUS.</i>	<i>NA</i>
	<i>Sample # B00007, B00008, B00010</i>	

CLASSIFIED  UNCLASSIFIED  SHIPPED UNDER DOE CONTRACT  SHIPPED UNDER CONTRACTOR'S USE/PERMIT CONTRACT

NECESSITY FOR THE OFF-SITE USE OF THIS PROPERTY:  
*SAMPLES SUPPORT RI/FS WORK IN OWN RIBS LANDFILL AREA*

*BILL OF LADING # WHC-0825*

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO WESTINGHOUSE HANFORD OPERATIONS

RM CLEARANCE FOR PUBLIC RELEASE <i>JE Baldwin 60670</i>	RM SURVEY NO. <i>890021</i>	DATE <i>2/5/90</i>
LOCATION OF PROPERTY (AREA & BLDG.) <i>1100 Area / MN 13 / 14</i>	CONTACT <i>B. H. Ford</i>	PHONE <i>(509) 376-9234</i>
DATE READY FOR SHIPMENT <i>2/6/90</i>	COST CODE TO BE CHARGED <i>N80230</i>	APPROXIMATE DATE THIS PROPERTY WILL BE RETURNED <i>N.A.</i>
ORIGINATED BY <i>L. D. WALKER</i>	DATE <i>2/5/90</i>	AUTHORIZED BY <i>[Signature]</i>
SIGNATURE AND NAME OF PROPERTY CONTROL <i>[Signature]</i>	CUSTODIAN DATE <i>[Signature]</i>	DATE <i>2/6/90</i>

PART II - TO BE COMPLETED BY WHG SHIPPING OPERATION

SIGNATURE OF WHG RECIPIENT <i>[Signature]</i>	RETURN ORDER NO.	DATE ISSUED	PURCHASE ORDER NO.	DATE ISSUED
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DISTRIBUTION

BY ORIGINATOR	WHG SHIPPING OPERATIONS - SIGN ALL COPIES AND FORWARD TO:	<b>0052</b>
WHITE - PROPERTY MANAGEMENT GREEN - PROPERTY CONTROL CUSTODIAN (ISSUING OFFICE) YELLOW - RETAIN PINK - ORIGINATOR GOLDENROD - RETAIN		

CONTRACTOR <b>Westinghouse Hanford Co.</b>	OFF-SITE PROPERTY CONTROL	SERIAL NUMBER (TO BE OBTAINED FROM PROPERTY ACCOUNTING) <b>090-0006</b>
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PART I - TO BE COMPLETED BY ORIGINATOR

DEPARTMENT <b>ENV ENG / TECH</b>	SECTION <b>GEO SCIENCES</b>	UNIT <b>HYDROLOGY</b>
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THE FOLLOWING ITEMS ARE TO BE SHIPPED FROM:  CONTRACTOR  VENDOR

ROUTING: **OAK HARBOUR / TRUCK**  PREPAID  COLLECT

SHIPPED TO <b>Westinghouse Co. 52901 32<sup>ND</sup> BLVD SOUTH FEDERAL WAY, WA 98003</b>	OFFSITE CUSTODIAN <b>KURT DORSKE</b> FULL TITLE <b>MANAGER</b>
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QUANTITY	DESCRIPTION (INCLUDE SERIAL AND I.E.W NO'S.)	ORIGINAL COST
70 lbs / 1	<b>I GLOO #13 POLYCOOLR. GROUNDWATER SAMPLES PACKED IN NET ICE AND VERMICULITE. NONHAZARDOUS. SAMPLE # BDD11, BDD13, BDD14</b>	<b>NA</b>
46 lbs / 1	<b>GOTT #RM5 POLYCOOLR. GROUNDWATER SAMPLES PACKED IN NET ICE AND VERMICULITE. NONHAZARDOUS. SAMPLE # BDD16</b>	<b>NA</b>

CLASSIFIED  UNCLASSIFIED  SHIPPED UNDER DOE CONTRACT  SHIPPED UNDER CONTRACTOR'S USE PERMIT CONTRACT

NECESSITY FOR THE OFF-SITE USE OF THIS PROPERTY:  
**SAMPLES SUPPORT RI/FS WORK IN HOEN RAPIDS LANDFILL AREA**

**Bill of Lading # 0824**

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO WESTINGHOUSE HANFORD OPERATIONS

RM CLEARANCE FOR PUBLIC RELEASE <b>NE BDDW10 60070</b>	RM SURVEY NO. <b>890021</b>	DATE <b>2/6/90</b>
LOCATION OF PROPERTY (AREA & BLDG.) <b>1100-EM-1</b>	CONTACT <b>B. H. Ford</b>	PHONE <b>(509) 976-9231</b>
DATE READY FOR SHIPMENT <b>2/7/90</b>	COST CODE TO BE CHARGED <b>W 80230</b>	APPROXIMATE DATE THIS PROPERTY WILL BE RETURNED <b>NA</b>
ORIGINATED BY <b>L. D. WALKER</b>	DATE <b>2/6/90</b>	AUTHORIZED BY <b>[Signature]</b> DATE <b>2/6/90</b>
SIGNATURE AND NAME OF PROPERTY CONTROL	CUSTODIAN DATE	PROPERTY MANAGEMENT APPROVAL <b>[Signature]</b> DATE <b>2/6/90</b>

PART II - TO BE COMPLETED BY WHG SHIPPING OPERATION

SIGNATURE OF WHG RECIPIENT <b>[Signature]</b>	RETURN ORDER NO.	DATE ISSUED	PURCHASE ORDER NO.	DATE ISSUED
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DISTRIBUTION

BY ORIGINATOR	WHG SHIPPING OPERATIONS - SIGN ALL COPIES AND FORWARD TO:
WHITE } PROPERTY MANAGEMENT GREEN } YELLOW } PINK } GOLDENROD - RETAIN	WHITE - PROPERTY MANAGEMENT GREEN - PROPERTY CONTROL CUSTODIAN (ISSUING OFFICE) YELLOW - RETAIN PINK - ORIGINATOR

0053





RECEIPT OF WESTINGHOUSE SAMPLES  
 JEANETTE DUNCAN - (509) 373-4718

	DATE	TIME	
WEYCO SHIPPING/RECEIVING	<u>2-9-90</u>	<u>1030</u>	
WEYCO SAMPLE MANAGEMENT	<u>2-9-90</u>	<u>1050</u>	
OPENING OF COOLER:	<u>1150</u> <u>1205</u> <u>1210</u>	<u>1225</u>	
TEMPERATURE:	<u>4</u> <u>3.3</u> <u>2.4</u>	<u>15.9</u>	
SAMPLES RECEIVED:	<u>B00018</u> <u>B00019</u> <u>B00025</u> <u>B00026</u> _____ _____ _____ _____	<u>300021</u> <u>B00023</u> _____ _____ _____ _____	<u>A2402</u> <u>A2404</u> <u>A2405</u> <u>A2401</u> _____ _____ _____ _____

44502 COMMENTS	ABC	A 2402 S	44505	A 2401 W	ABC - NO DISS.
03	↓	A 2404 S	06	B00018 W	VOA only - A VOA's only
04	↓	A 2405 S	07	" 19 W	ABC
		(to incl. Ethylene Glycol or soils)	08	" 21 W	ABC
			09	" 23 W	ABC
			10	" 25 W	VOA only A VOA's only
			44511	" 26 W	ABC

pH - met < 2  
 " CN > 10  
 Sulfide - neg.  
CONFIRMATION:

CALLED WESTINGHOUSE:   
 MAILED TALLY RECORD:   
 MAILED PAPER WORK:

Westinhouse Hanford Company

CHAIN

USTODY

Company Contact B. H. Ford Telephone 509-376-9234  
 Sample Collected by L. D. Walker Date 2-7-90 Time 0900  
 Sample Locations 1100 EM-1, MW-7  
 Ice Chest No. T-100 #50 Field Logbook and Page No. WHC-N-370, pg. 7  
 Remarks NONE

Bill of Lading No. 617688120 Offsite Property No. W90-0006 #64  
 Method of Shipment Oak Harbor / Truck ~~to~~ AIRBORNE  
 Shipped to Weyerhaeuser

Sample Identification

~~B00019~~

- (3) 40 ml amber, water, CLP-VOA
- (1) 4 l amber, water, CLP- Semi Vol
- (1) 1 l plastic, water, CLP-CN<sup>-</sup>, 2 ml NaOH
- (1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - unfiltered
- (1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - Filtered

~~B00018~~

- (2) 40 ml amber glass, water, CLP-VOA

Chain of Possession

Relinquished by: <u>BH Ford</u> BH Ford	Received by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Date/Time: <u>2/8/90 13:10</u>
Relinquished by: <u>J. DEMAREST</u> <u>J. Demarest</u>	Received by: <u>B. CHAPPEL</u> <u>B. Chappel</u>	Date/Time: <u>2-9-90 1050</u>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

0057

Company Contact B. H. Ford Telephone 509-376-9234  
 Sample Collected by L. D. Walker Date 2-8-90 Time 11:00 a.m.  
 Sample Locations 1100 EM-1, MW-4  
 Ice Chest No. Telco #50 Field Logbook and Page No. WHL-N-370, pg. 9  
 Remarks NONE

Bill of Lading No. 617688120 AIRBORNE Offsite Property No. W90-0006 1st  
 Method of Shipment ~~Oak Harbor / Truck~~ AIRBORNE  
 Shipped to Weyerhaeuser

Sample Identification

B00026

- (3) 40 ml amber, water, CLP-VOA
- (1) 4 l amber, water, CLP-Semi Vol
- (1) 1 l plastic, water, CLP-CN<sup>-</sup>, 2 ml NaOH
- (1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - unfiltered
- (1) 1 l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - Filtered

B00025

- (2) 40 ml amber glass, water, CLP-VOA

Chain of Possession

Relinquished by: <u>L. D. Walker</u> B.H. Ford	Received by: <u>J. Demarest</u>	Date/Time: <u>2/8/90 13:10</u>
Relinquished by: <u>J. Demarest</u>	Received by: <u>B. Chappel</u>	Date/Time: <u>2-9-90 1050</u>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time: <u>0058</u>

Westinhouse Hanford Company

CHAIN

USTODY

Company Contact B. H. Ford Telephone 509-376-9234  
 Collected by L. D. Walker Date 2-7-90 Time 1200  
 Sample Locations 1100 EM-1, MW-6  
 Ice Chest No. TELCO #19A Field Logbook and Page No. WHC-N-370, pg. 8  
 Remarks NONE

Bill of Lading No. 617688120 Offsite Property No. W90-0006 #6d  
 Method of Shipment ~~Oak Harbor / Truck~~ AIRBORNE  
 Shipped to Weyerhaeuser

Sample Identification

B00021

- (3) 40 ml amber, water, CLP-VOA
- (1) 4l amber, water, CLP- Semi Vol
- (1) 1l plastic, water, CLP-CN<sup>-</sup>, 2ml NaOH
- (1) 1l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - unfiltered
- (1) 1l plastic, water, CLP-metals, 2ml HNO<sub>3</sub> - Filtered

B00023

- (3) 40 ml amber glass, water, CLP-VOA
- (1) 4l amber, water, CLP- Semi Vol
- (1) 1l plastic, water, CLP-CN<sup>-</sup>, 2ml NaOH
- (1) 1l plastic, water, CLP-metals, 2ml HNO<sub>3</sub>, unfiltered
- (1) 1l plastic, water, CLP-metals, 2ml HNO<sub>3</sub>, Filtered

Chain of Possession

Relinquished by: <u>B.H. Ford</u>	Received by: <u>J. Demarest</u>	Date/Time: <u>2/8/90 13:10</u>
Relinquished by: <u>J. Demarest</u>	Received by: <u>B. Chappel</u>	Date/Time: <u>2-9-90 1050</u>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time: <u>0059</u>

Company Contact S.K. Skwarek Telephone 509 373-3722  
 Sample Collected by G.B. Gould Date 2-7-90 Time 0945, 1105, 1300, 1436  
506  
2-7-90  
 Sample Locations 1100-4 MW-3  
 Ice Chest No. Igloo #10-24 SMS 2/17/90 Field Logbook and Page No. WHC-EM-253-2 p984  
N  
 Remarks Samples are soil & water to be shipped to be SMS 2/17/90  
shipped to Weyerhaeuser.  
 Bill of Lading No. 617088105 Offsite Property No. W90-0006 #63  
 Method of Shipment Out Harbor / Truck SMS 2/17/90 Airborne  
 Shipped to Weyerhaeuser Co, Federal Way, Wa.

Sample Identification

- |  |  |
|--|--|
| <p>1) A2401<br/>                 2 40 ml amber glass vials, CLP-VOA, water<br/>                 1 1 gal amber glass bottle, CLP-Extractables, water</p>  | <p>4) A2405<br/>                 2, 120 ml amber glass bottles, CLP-VOA, soil<br/>                 1, 250 ml amber glass bottle, CLP-Extractables, soil<br/>                 1, 250 ml amber glass bottle, CLP-Metals &amp; CN, soil<br/>                 1, 250 ml amber glass bottle, Ethylene glycol, soil</p>            |
| <p>2) A2402<br/>                 2, 120 ml amber glass bottles, CLP-VOA, soil<br/>                 2, 250 ml amber glass bottle CLP-Extractables, soil<br/>                 50 ml amber glass bottle, CLP-Metals &amp; CN, soil<br/>                 1, 250 ml amber glass bottle, Ethylene glycol, soil</p> | <p><del>3) A2404<br/>                 2, 120 ml amber glass bottles, CLP-VOA, soil<br/>                 1, 250 ml amber glass bottle, CLP-Extractables, soil<br/>                 1, 250 ml amber glass bottle, CLP-Metals &amp; CN, soil<br/>                 1, 250 ml amber glass bottle, Ethylene glycol, soil</del></p> |

Chain of Possession

Relinquished by: <u>G.B. Gould</u> <small>GB Gould</small>	Received by: <u>C.S. McCell</u> <small>C.S. McCell</small>	Date/Time: <u>2-7-90 1558</u>
Relinquished by: <u>C.S. McCell</u> <small>C.S. McCell</small>	Received by: <u>S.M. Skwarek</u> <small>SM SKVAREK</small>	Date/Time: <u>2-8-90 0830</u>
Relinquished by: <u>S.M. Skwarek</u> <small>SM SKVAREK</small>	Received by: <u>J. Demarest</u> <small>J. Demarest</small>	Date/Time: <u>2-8-90 12:35</u>
Relinquished by: <u>J. Demarest</u> <small>J. Demarest</small>	Received by: <u>B. Chappel</u> <small>B. Chappel</small>	Date/Time: <u>2-9-90 1050</u>

Company Contact S.K. Skvarek Telephone 509 373-3722

Sample Collected by G.B. Gould Date 2-7-90 Time 0945

Sample Locations 1100-EM-1 1100-4 MW-3

Ice Chest No. NA Field Logbook and Page No. WHC-NJ-253-2 pg. 84

Remarks Soil samples shipped in DOT 12B fiber based box.

Bill of Lading No. 617488105 Offsite Property No. W90-0006 #63

Method of Shipment ~~Oak Harbor / Truck~~ Airborne

Shipped to Weyerhaeuser Co, Federal Way, Wa.

Sample Identification

1) A2401

1-1 liter plastic bottle CHP-Metals, <sup>1-9-90</sup> ~~soil~~ water.

1-1 liter plastic bottle CLP-CN, water

Chain of Possession

Relinquished by: <u>G.B. Gould</u>	Received by: <u>C.S. McClellan</u>	Date/Time: <u>2-7-90 1552</u>
Relinquished by: <u>C.S. McClellan</u>	Received by: <u>SM Skvarek</u>	Date/Time: <u>2-8-90 0830</u>
Relinquished by: <u>SM Skvarek</u>	Received by: <u>J. Demarest</u>	Date/Time: <u>2-8-90 12:35</u>
Relinquished by: <u>J. Demarest</u>	Received by: <u>B. Chappel</u>	Date/Time: <u>2-9-90 1050</u>

WESTINGHOUSE HANFORD OFF-SITE PROPERTY CONTROL SERIAL NUMBER (TO BE OBTAINED FROM PROPERTY ACCOUNTING) 1190-0006-69

PART I - TO BE COMPLETED BY ORIGINATOR

DEPARTMENT: ENV. ENG. & TECH. SECTION: GEOSCIENCES UNIT: HYDROLOGY

THE FOLLOWING ITEMS ARE TO BE SHIPPED FROM:  CONTRACTOR  VENDOR

ROUTING: ~~THE HANFORD PLANT~~ AIRBORNE  PREPAID  COLLECT

SHIPPED TO:   
 OFFSITE CUSTODIAN: KART DUSEK   
 FULL TITLE: MANAGER

QUANTITY	DESCRIPTION (INCLUDE SERIAL AND H.E.W. NO.S.)	ORIGINAL COST
62 lbs	TRUCK # 19A. POLYPROPYLENE GROUNDWATER SAMPLES PACKED IN NET BAGS AND VERTICALS. NONHAZARDOUS. SAMPLES # 800021, 800023	NA
61 lbs	TRUCK # 50. POLYPROPYLENE GROUNDWATER SAMPLES PACKED IN NET BAGS AND VERTICALS. NONHAZARDOUS. SAMPLES # 800019, 800025, 800026	NA

CLASSIFIED  UNCLASSIFIED  SHIPPED UNDER DOE CONTRACT  SHIPPED UNDER CONTRACTOR'S USE PERMIT CONTRACT

NECESSARY FOR THE OFF-SITE USE OF THIS PROPERTY:   
 SAMPLES SUPPORT RI/FS WORK IN THE 1100 AREA.   
 AIRBILL# 617688120   
 CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO WESTINGHOUSE HANFORD OPERATIONS

RM CLEARANCE FOR PUBLIC RELEASE: JEBaldwin 60690	RM SURVEY NO.: 890021	DATE: 2/8/90
LOCATION OF PROPERTY (AREA & BLDG.): 1100-EM-1	CONTACT: B. H. FOLTS	PHONE: (501) 876-9234
DATE READY FOR SHIPMENT: 2/8/90	COST CODE TO BE CHARGED: W823 BY W80230	APPROXIMATE DATE THIS PROPERTY WILL BE RETURNED: NA
ORIGINATED BY: L. D. WALKER	DATE: 2/8/90	AUTHORIZED BY: [Signature]
SIGNATURE AND NAME OF PROPERTY CONTROL: [Signature]	CUSTODIAN DATE: 2/8/90	PROPERTY MANAGEMENT APPROVAL: [Signature] DATE: 2/8/90

PART II - TO BE COMPLETED BY WHC SHIPPING OPERATION

SIGNATURE OF WHC RECIPIENT: [Signature]	RETURN ORDER NO.	DATE ISSUED	PURCHASE ORDER NO.	DATE ISSUED
2-8-90				

DISTRIBUTION   
 BY ORIGINATOR:   
 WHITE - PROPERTY MANAGEMENT   
 GREEN - RETAIN   
 YELLOW - RETAIN   
 PINK - RETAIN   
 GOLDENROD - RETAIN   
 WHC SHIPPING OPERATIONS - SIGN ALL COPIES AND FORWARD TO:   
 WHITE - PROPERTY MANAGEMENT   
 GREEN - PROPERTY CONTROL CUSTODIAN (ISSUING OFFICE)   
 YELLOW - RETAIN   
 PINK - ORIGINATOR   
 0062

13/103

Overnight Delivery Signature Security Service

CONTRACTOR <i>Westinghouse Hanford Co.</i>	OFF-SITE PROPERTY CONTROL	SERIAL NUMBER TO BE OBTAINED FROM PROPERTY ACCOUNT(S) <i>W990-0006-163</i>
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PART I - TO BE COMPLETED BY ORIGINATOR

DEPARTMENT <i>Environmental Engineering &amp; Technology</i>	SECTION <i>Field Services</i>	UNIT <i>Environmental Characterization &amp; Sampling</i>
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THE FOLLOWING ITEMS ARE TO BE SHIPPED FROM:

CONTRACTOR     VENDOR

ROUTING: *Out Harbor Truck*

PREPAID     COLLECT

SHIPPED TO <i>Weyerhaeuser 32901 32<sup>nd</sup> Drive South Federal Way, Wa 98003</i>	OFFSITE CUSTODIAN <i>Kari D. Sore</i>
	FULL TITLE <i>Sample Manager</i>

QUANTITY	DESCRIPTION (INCLUDE SERIAL AND HEAVY ID'S)	ORIGINAL COST
<i>1</i>	<i>1900 # 3A poly cooler with samples in metal cans surrounded by vermiculite. Samples are NON-HAZARDOUS. #A2404</i>	<i>N/A</i>
<i>1</i>	<i>DOT 12B Fiber board box water samples in plastic bottles, bagged in plastic, surrounded by vermiculite. Samples are NON-HAZARDOUS. #A2401</i>	

CLASSIFIED     UNCLASSIFIED     SHIPPED UNDER DOE CONTRACT     SHIPPED UNDER CONTRACTOR'S USE PERMIT CONTRACT

NECESSITY FOR THE OFF-SITE USE OF THIS PROPERTY:

*To support 1100-EM-1 RI/FS drums & sampling*

*Bill Gledens # 617085-105*

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO WESTINGHOUSE HANFORD OPERATIONS

RM CLEARANCE FOR PUBLIC RELEASE <i>Per Manager</i>	RM SURVEY NO. <i>11-45960</i>	DATE <i>2-7-90 3:28P</i>
LOCATION OF PROPERTY (AREA & BLDG.) <i>1100-EM-1 1100-4 MW-3</i>	CONTACT <i>S.K. SKVAREK</i>	PHONE <i>373-3722</i>
DATE READY FOR SHIPMENT <i>2-8-90</i>	COST CODE TO BE CHARGED <i>W 80241</i>	APPROXIMATE DATE THIS PROPERTY WILL BE RETURNED <i>N/A</i>
ORIGINATED BY <i>G.B. Gould</i>	DATE <i>2-7-90</i>	AUTHORIZED BY <i>L.A. BUECHER SA BUECHER</i>
SIGNATURE AND NAME OF PROPERTY CONTROL	CUSTODIAN DATE <i>Kari D. Sore</i>	PROPERTY MANAGEMENT APPROVAL <i>L.A. Buecher</i>
		DATE <i>2/5/90</i>

PART II - TO BE COMPLETED BY WHG SHIPPING OPERATION

SIGNATURE OF WHC RECIPIENT <i>J. Lemaire</i>	RETURN ORDER NO.	DATE ISSUED	PURCHASE ORDER NO.	DATE ISSUED

DISTRIBUTION

BY ORIGINATOR	WHG SHIPPING OPERATIONS - SIGN ALL COPIES AND FORWARD TO:
WHITE - PROPERTY MANAGEMENT GREEN - PROPERTY CONTROL CUSTODIAN (ISSUING OFFICE) YELLOW - RETAIN PINK - ORIGINATOR GOLDENROD - RETAIN	<b>0063</b>



SDG#	B0007D
SAS#	
CASE #	

Meyerhaeuser Company

Request #	1850
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Analytical Laboratories  
Tacoma, Washington

Form 1

1990

	EPA Samo. No.	Matrix	Level	% Solids	Date Rec'd	Color Before	Color After	Clarity Before	Clarity After	Texture
1	B0007D	W	L		2.7	colorless	colorless	clear	clear	
2	B0010D	W								
3	B0013D	W								
4	B0014D	W								
5	B0016D	W			↓					
6	B0019D	W			2.9					
7	B0021D	W								
8	B0023D	W								
9	B0026D	W	↓		↓	↓	↓	↓	↓	
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

Notes/Comments: (Include sample# and artifacts present.)

pH met < 2

- MATRIX - Water (W), Soil (S)
- LEVEL - Low (L), Medium (M)
- COLOR - Red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black
- CLARITY - Clear, cloudy, opaque
- TEXTURE - Fine (powdery), medium (sand), coarse (large crystals or rocks)
- ARTIFACTS - Any man-made materials present

0065