

0047776

B008/6-Wey-038



## ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number: 02755

Title: WESTINGHOUSE 1100 EMI			
Number of Samples: 17	Project Number: 046-5751	Groups: 1,3,4,7,A,V	
Date Received: 05/25/90	Date Desired: 06/26/90	Estimated Completion Date: 06/26/90	
Submitted By: BECHTOLD, BECKY		Location: WTC 2F25	Telephone: (509) 373-3448
Reviewed By: DOXSEE, Kari		Location: 2F 25	Telephone: 924-6148
Copy To:			

## Sample Description and History:

ONLY PERFORM SO4 AND NO3 WATER LAB TESTS AFTER ANIONS TEST HAS BEEN COMPLETED.

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

1	A	CLP/ORG	Westinghouse - Organic CLP Deliverables		
3	B	CLPINOR3	Westinghouse - Inorganic Group 3 CLP Deliverables		
3	D	CLPINOR3 DISSOLVED	Westinghouse - Inorganic Group 3 CLP Deliverables		
4	C	CLPINOR4	Westinghouse - Inorganic Group 4 CLP Deliverables		
4	E	ALKA	Alkalinity		
4	E	AOX	Absorbable Organic Halides (TOX)		
4	E	COD	COD		
4	E	COND	Specific Conductivity of water		
4	E	NH3-N	Nitrogen, Ammonia in water		
4	E	NO3-W	Nitrate/Nitrite-Nitrogen in Water		
4	E	PH-WATER	pH of waters		
4	E	SO4-W	Sulfate, Turbidimetric in water		
4	E	SOL-TDS	Total Dissolved solids		
4	E	TURB	Turbidity		



Interim Report Desired?	Hazardous Samples? Yes	No	
Reference: 2715	Record Book:		
Results Approved:	Date:	Signature applies to attached pages	Page Number:



# ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser

Research and Development - Analysis and Testing

Request Number: 02755

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

7 F NO CODE7 S04/7, CL-DION, N03-W, P04= ANIONS  
 7 F TOC-LL/7 Total organic carbon - low level - ampule

Sample Number	Series to Be Evaluated	Submitter's Designation
---------------	------------------------	-------------------------

50446	ABC EF	B00B16	REC'D 5-25
50447	D	B00B17	REC'D 5-25
50448	ABC EF	B00B20	REC'D 5-25
50449	D	B00B21	REC'D 5-25
50450	A	B00B24	REC'D 5-25 LIA ONLY
50451	ABC EF	B009X1	REC'D 5-25
50452	ABC EF	B009X5	REC'D 5-25
50453	D	B009X6	REC'D 5-25
50454	ABC EF	B009X9	REC'D 5-25
50455	D	B009Y0	REC'D 5-25
50456	ABC EF	B009Y3	REC'D 5-25
50457	D	B009Y4	REC'D 5-25
50458	ABC EF	B009Y7	REC'D 5-25
50459	D	B009Y8	REC'D 5-25
50460	ABC EF	B009Z1	REC'D 5-25
50461	D	B009Z2	REC'D 5-25
50462	D	B009X2	REC'D 5-25

SR 02755

WEYERHAEUSER TECHNOLOGY CENTER  
Analytical Laboratories  
Tacoma, Washington

TOC REPORT  
WESTINGHOUSE 1100 EMI

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D BASIS	DATE ANALYZED	DATE SAMPLED
B00816	50446	<0.1	6/7/90	5/24/90
B00820	50448	<0.1	6/7/90	5/24/90
B009X1	50451	<0.1	6/7/90	5/24/90
B009X5	50452	1.3	6/7/90	5/24/90
B009X9	50454	0.8	6/7/90	5/23/90
B009Y3	50456	2.2	6/7/90	5/24/90
B009Y7	50458	2.8	6/7/90	5/24/90
B009Z1	50460	0.7	6/7/90	5/23/90

Approved



Date 6/27/90

Notebook \_\_\_\_\_

SR 02755

WEYERHAEUSER TECHNOLOGY CENTER  
Analytical Laboratories  
Tacoma, Washington

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D
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BASIS

B00816	50446	<0.1
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B00816	50446 DUPL.	<0.1
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	RPD	NC
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SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D BASIS
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B00816	50446	<0.1
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B00816	50446 SPIKE	10.1
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	SPIKE ADDED	11.1
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	% RECOVERY	90.9
--	------------	------

Approved: 

Date 6/27/90

Notebook \_\_\_\_\_

SR 02755

WEYERHAEUSER TECHNOLOGY CENTER  
Analytical Laboratories  
Tacoma, Washington

ANION REPORT  
WESTINGHOUSE 1100 EMI

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	FLUORIDE	CHLORIDE	BROMIDE	NITRATE	PHOSPHATE	SULPHATE	DATE	DATE
		F mg/L AS REC'D BASIS	Cl mg/L AS REC'D BASIS	Br mg/L AS REC'D BASIS	NO <sub>3</sub> -N mg/L AS REC'D BASIS	PO <sub>4</sub> mg/L AS REC'D BASIS	SO <sub>4</sub> mg/L AS REC'D BASIS	ANALYZED	SAMPLED
B00816	50446	<0.1	<0.2	<0.2	<0.1	<0.6	<0.5	5/25/90	5/24/90
B00820	50448	<0.1	<0.2	<0.2	<0.1	<0.6	<0.5	5/25/90	5/24/90
B009X1	50451	<0.1	<0.2	<0.2	<0.1	<0.6	<0.5	5/25/90	5/24/90
B0009X5	50452	0.2	8.2	<0.2	4.8	<0.6	23.2	5/25/90	5/24/90
B009X9	50454	0.3	12.0	<0.2	4.5	<0.6	34.2	5/25/90	5/23/90
B009Y3	50456	0.3	7.9	<0.2	4.5	<0.6	21.5	5/25/90	5/24/90
B009Y7	50458	0.2	6.3	<0.2	2.4	<0.6	18.0	5/25/90	5/24/90
B009Z1	50460	0.3	13.4	0.2	7.5	<0.6	39.7	5/25/90	5/23/90

Approved



Date 7/2/90

Notebook \_\_\_\_\_



# ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number: 02755

Title: WESTINGHOUSE 1100 EM1		
Number of Samples: 17	Project Number: 046-5751	Groups: 1,3,4,7,A,V
Date Received: 05/25/90	Date Desired: 06/26/90	Estimated Completion Date: 06/26/90
Submitted By: BECHTOLD, BECKY	Location: WTC 2F25	Telephone: (509) 373-3448
Reviewed By: DOXSEE, Kari	Location: 2F 25	Telephone: 924-6148
Copy To:		

### Sample Description and History:

ONLY PERFORM SO4 AND NO3 WATER LAB TESTS AFTER ANIONS TEST HAS BEEN COMPLETED.

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

- 1 A CLP/ORG Westinghouse - Organic CLP Deliverables
- 3 B CLPINOR3 Westinghouse - Inorganic Group 3 CLP Deliverables
- 3 D CLPINOR3 DISSOLVED Westinghouse - Inorganic Group 3 CLP Deliverables
- ✓ 4 C CLPINOR4 Westinghouse - Inorganic Group 4 CLP Deliverables
- ✓ E ALKA Alkalinity
- ✓ 4 E AOX Absorbable Organic Halides (TOX)
- ✓ 4 E COD COD
- ✓ E COND Specific Conductivity of water
- ✓ 4 E NH3-N Nitrogen, Ammonia in water
- ✓ 4 E NO3-W Nitrate/Nitrite-Nitrogen in Water
- ✓ E PH-WATER pH of waters
- 4 E SO4-W Sulfate, Turbidimetric in water
- ✓ 4 E SOL-TDS Total Dissolved solids
- ✓ 4 E TURB Turbidity

Interim Report Desired?	Hazardous Samples? Yes	No	
Reference: 2715	Record Book:		
Results Approved: <i>Mattie Rose</i>	Date: 6.22-90	Signature applies to attached pages	Page Number: 000001



# ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number: 02755

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

7 F NO CODE7 S04/7, CL-DION, N03-W, P04= ANIONS  
 7 F TOC-LL/7 Total organic carbon - low level - ampule

Sample Number	Series to Be Evaluated	Submitter's Designation
---------------	------------------------	-------------------------

50446	ABC EF	B00B16	REC'D 5-25
50447	D	B00B17	REC'D 5-25
50448	ABC EF	B00B20	REC'D 5-25
50449	D	B00B21	REC'D 5-25
50450	A	B00B24	REC'D 5-25
50451	ABC EF	B009X1	REC'D 5-25
50452	ABC EF	B009X5	REC'D 5-25
50453	D	B009X6	REC'D 5-25
50454	ABC EF	B009X9	REC'D 5-25
50455	D	B009Y0	REC'D 5-25
50456	ABC EF	B009Y3	REC'D 5-25
50457	D	B009Y4	REC'D 5-25
50458	ABC EF	B009Y7	REC'D 5-25
50459	D	B009Y8	REC'D 5-25
50460	ABC EF	B009Z1	REC'D 5-25
50461	D	B009Z2	REC'D 5-25
50462	D	B009X2	REC'D 5-25

*LOA ONLY*

WEYERHAEUSER TECHNOLOGY CENTER  
Analytical Laboratories  
Tacoma, Washington

Service Request 02755  
Page 1 of 1

REPORT

Westinghouse Water Samples  
1100 EM1

<u>Sample Description</u>	<u>Analytical Lab Code</u>	<u>pH</u>	<u>Turbidity NTU</u>	<u>Specific Conductance <math>\mu</math>s/Cm</u>	<u>TDS mg/L</u>	<u>Alkalinity mg/L CaCO<sub>3</sub></u>	<u>COD mg/L</u>
B00B16	50446	5.7	0.1	1.5	<5	<5	<5; <5
B00B20	50448	5.8	0.3	1.7	<5	<5	<5
B009X1	50451	6.2	<0.05	1.6	<5	<5; <5	<5
B009X5	50452	7.7	93	480	330	223	<5
B009X9	50454	7.9	4.2	420	260	141	<5
B009Y3	50456	7.4	79	520	330	230	<5
B009Y7	50458	7.7	3.4	450	280	202	<5
B009Z1	50460	8.1	0.1	460; 460	300; 300	149	<5

<u>Sample Description</u>	<u>Analytical Lab Code</u>	<u>NH<sub>3</sub>-N mg/L</u>	<u>NO<sub>3</sub>-NO<sub>2</sub>-N mg/L</u>	<u>SO<sub>4</sub> mg/L</u>	<u>AOX mg/L</u>	<u>CN mg/L</u>	<u>TP mg/L</u>
B00B16	50444	<0.02	<0.05	<1	<0.01	<0.01	<0.01
B00B20	50448	<0.02	<0.05	<1; <1	<0.01	<0.01	<0.01
B009X1	50451	<0.02	<0.05	<1	<0.01; <0.01	<0.01	<0.01
B009X5	50452	<0.02	4.3	20	<0.01	<0.01	0.04
B009X9	50454	<0.02; <0.02	4.1	23	<0.01	<0.01	0.07
B009Y3	50456	<0.02	4.0	19	<0.01	<0.01	0.05
B009Y7	50458	<0.02	2.4; 2.2	14	<0.01	<0.01	0.04
B009Z1	50460	<0.02	7.2	38	<0.01	<0.01; <0.01	0.04; 0.06

000003

Notebook \_\_\_\_\_

Approved Marlene Rantz Date 6-22-90 Page Number \_\_\_\_\_

CONTRACT LABORATORY PROGRAM  
COVER SHEET

ADDITIONAL OR DUPLICATE DATA SUBMISSION  
(NOT TO BE USED FOR CCS RESPONSES)

Organic \_\_\_\_\_ Inorganic \_\_\_\_\_ Dioxin \_\_\_\_\_ Other(SAS) \_\_\_\_\_

Lab Name: Weyerhueser Date: 9/7/90

Case: 03301 SAS: \_\_\_\_\_ SDG: B00943

The attached data are being submitted to (check one):

\_\_\_\_\_ All  SMO \_\_\_\_\_ Region \_\_\_\_\_ EMSL-LV \_\_\_\_\_

For EPA Sample Nos. (enter only those to which these data apply):

Case No	Station

These data supplement the data submitted on : 8/15/90  
(State reasons for submission in cover letter)

OR

These data are a duplicate submission, requested by (name, affiliation):

Becky Bechtold - Westinghouse



32901 Weyerhaeuser Way South  
Federal Way, Washington 98003  
Analytical Chemistry Laboratories  
Tacoma, Washington 98477  
Tel (206) 924 6035  
Fax (206) 924 6654

### CASE NARRATIVE

#### WEYERHAEUSER (WEYER) ANALYTICAL AND TESTING SERVICES

Case Number: 03301  
SDG Number: B009Y3  
Contract Number: 11003

The Sample from this case is a rerun of a sample on SR 2755. This case was comprised of a water for BNAs. The requested analysis were as follows:

<u>SAMPLE ID</u>	<u>MATRIX</u>	<u>ANALYSIS REQUESTED</u>
B009Y3	WATER	BNA
B009Y3MS	WATER	BNA
B009Y3MSD	WATER	BNA

No anomalies existed with this sample set. The Phthalate problem that we found in the original result was not seen in this sample. The only explanation that I have for this problem is contamination in our laboratory. This phthalate is a common contamination product whenever the sample comes in contact with plastic. Plastic is not used in our laboratory in any of the steps of analysis, so I do not know how the sample got contaminated. I will look into this problem in order to avoid this type of error in the future.

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.

Dennis Catalano  
Dennis Catalano  
Laboratory Manager

9/7/90  
Date

Please feel free to contact me with any questions concerning this data report. I can be reached at (206) 924-6242.

Sincerely,

A handwritten signature in cursive script that reads "Dennis Catalano".

Dennis Catalano, Manager  
Organic Laboratory  
Weyerhaeuser Analytical & Testing Services

Request Number: **03301**

Title: <b>WESTINGHOUSE 1100 EMI</b>		
Number of Samples: <b>1</b>	Project Number: <b>046-5751</b>	Groups: <b>1,6</b>
Date Received: <b>07/26/90</b>	Date Desired: <b>08/09/90</b>	Estimated Completion Date: <b>08/09/90</b>
Submitted By: <b>BECHTOLD, BECKY</b>	Location: <b>WTC 2F25</b>	Telephone: <b>(509) 373-3448</b>
Reviewed By: <b>DOXSEE, Kari</b>	Location: <b>2F 25</b>	Telephone: <b>924-6148</b>
Copy To:		

Sample Description and History:

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

**1    A    BNACLP-W BNA on waters - CLP Deliverables \*\*REANALYSIS OF SAMPLE #50456 DUE TO HIGH PHTHALATE CONC.**

Sample Number	Series to Be Evaluated	Submitter's Designation
<b>53633</b>	<b>A</b>	<b>B009Y3 (SAMPLE 50456/SR 2755)</b>

Interim Report Desired?	Hazardous Samples? Yes	No	
Reference: <b>2755</b>			Record Book:
Results Approved: <i>Kari Doxsee</i>	Date: <b>8-20-90</b>	Signature applies to attached pages	Page Number:

Request Number: 03301

Title: WESTINGHOUSE 1100 EMI

Test Code	Test Description	Number of Samples	Cost Multiplier	Cost per Sample	Line Total
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Group 1

BNACLP-W	BNA on waters - CLP Deliverables **REANALYSIS OF SAMPLE #50456 DUE TO HIGH PHTHALATE CONC.	1	1.500	\$ 319.70	\$ 479.55
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Sub-total for group 1: -----  
\$ 479.55

Sub-Total: \$ 479.55

Other Considerations:

Administration Fee	\$ 0.00
Special Handling	
Rush Jobs	
QA/QC	

Grand Total for Request: \$ 479.55

Comments: \_\_\_\_\_

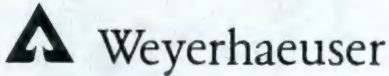


From Page No. \_\_\_\_\_

Run No.	Run I.D.	D I S K	Temp/Scan	Quan	Comment	Tape No.
8/7/90					MS hard to Tune. 51 high. Remove source, inspect. Replaced with new filament. Clean inj port. Replaced orig. septum. Removed ~20 cm of column. OK.	
2DFTPP0807	DFTPP 8/7/90 50ng	3:		-		
ZBN0807050	SSTD050	3:	450-4150	+Q F/R		
ZBN0807A	SBLKW1	3:		+Q	SR. 03272, 03301	
ZBN0807B	53633 B00943	3:		+Q	SR. 03301	
ZBN0807C	53633MS B00943MS	3:		+Q		
ZBN0807D	53633MSD B00943MSD	3:		+Q		
ZBN0807E	53464 MW003-351	3:		+Q	SR. 03272	
ZBN0807F	53465 MW007-352	3:		+Q	ISTD Low	
ZBN0807G	53466 MW007-353	3:		+Q	↓	
ZBN0807H	53467 MW007-350	3:		+Q		
3N0807I	53468 MW001-354	6:		+Q		
ZBN0807J	53469 MW004-355	6:		+Q		
ZBN0807K	53470 MW002-356	6:		+Q		
ZBN0807L	53471 MW006-357	6:		+Q		
ZBN0807M	53472 MW005-358	6:		+Q		
8/8/90					Clean inj port. Replaced septum, orig. Removed ~15 cm of column. Tune MS OK.	
2DFTPP0808	DFTPP 8/8/90 50ng	6:		-		
ZBN0808050	SSTD050	6:	450-4150	+Q F/R		
ZBN0808A	53465 MW007-352	6:		+Q		
ZBN0808B	53466 MW007-353	6:		+Q		
ZBN0808C	53467 MW007-350	6:		+Q		
ZBN0808D	53468 MW001-354	6:		+Q		
ZBN0808E	53469 MW004-355	6:		+Q		
ZBN0808F	53470 MW002-356	6:		+Q		
3N0808G	53471 MW006-357	6:		+Q		
ZBN0808H	53472 MW005-358	6:		+Q		

To Page # \_\_\_\_\_

Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	



32901 Weyerhaeuser Way South  
Federal Way, Washington 98003  
Analytical Chemistry Laboratories  
Tacoma, Washington 98477  
Tel (206) 924 6035  
Fax (206) 924 6654

CASE NARRATIVE

WEYERHAEUSER (WEYER)  
ANALYTICAL AND TESTING SERVICES

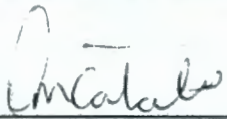
Case Number: 03301  
SDG Number: B009Y3  
Contract Number: 11003

The Sample from this case is a rerun of a sample on SR 2755. This case was comprised of a water for BNAs. The requested analysis were as follows:

<u>SAMPLE ID</u>	<u>MATRIX</u>	<u>ANALYSIS REQUESTED</u>
B009Y3	WATER	BNA
B009Y3MS	WATER	BNA
B009Y3MSD	WATER	BNA

No anomalies existed with this sample set. The Phthalate problem that we found in the original result was not seen in this sample. The only explanation that I have for this problem is contamination either in the field or in our laboratory. This phthalate is a common contamination product whenever the sample comes in contact with plastic. Plastic is not used in our laboratory in any of the steps of analysis and may be caused by the use of plastic in sampling or in the bottle preparation. This sample came from a separate bottle from the first sample.

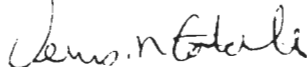
I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer readable data submitted on floppy diskette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

  
\_\_\_\_\_  
Dennis Catalano  
Laboratory Manager

01/15/90  
\_\_\_\_\_  
Date

Please feel free to contact me with any questions concerning this data report. I can be reached at (206) 924-6242.

Sincerely,



Dennis Catalano, Manager  
Organic Laboratory  
Weyerhaeuser Analytical & Testing Services

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

B009Y3

Lab Name: WEYERHAEUSER

Contract: BECHTOLD

Lab Code: WEYER

Case No.: 03301

SAS No.:

SDG No.: B009Y3

Matrix: (soil/water) WATER

Lab Sample ID: 53633

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 2BN0807B

Level: (low/med) LOW

Date Received: 07/26/90

% Moisture: not dec. dec.

Date Extracted: 07/30/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/07/90

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009Y3

Lab Name: WEYERHAEUSER

Contract: BECHTOLD

Lab Code: WEYER

Case No.: 03301

SAS No.:

SDG No.: B009Y3

Matrix: (soil/water) WATER

Lab Sample ID: 53633

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 2BN0807B

Level: (low/med) LOW

Date Received: 07/26/90

% Moisture: not dec. dec.

Date Extracted: 07/30/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/07/90

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

0011

B

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

B009Y3

Lab Name: WEYERHAEUSER

Contract: BECHTOLD

Lab Code: WEYER

Case No.: 03301

SAS No.:

SDG No.: B009Y3

Matrix: (soil/water) WATER

Lab Sample ID: 53633

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 2BN0807B

Level: (low/med) LOW

Date Received: 07/26/90

% Moisture: not dec. dec.

Date Extracted: 07/30/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/07/90

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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OSM RCRA LEVEL C/CLP-SAS DATA ASSESSMENT

DATE 08/07/90 SAMPLES/MATRIX ~~300816~~ 3009X9  
 REVIEWED BY JA Lerch 300816 3009Y3  
 LABORATORY Weyerhaeuser 300820 3009Y7  
 CASE # — 3009X1 3009Z1  
 SDG # SR 2755 3009X5 all water

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	<u>TGC</u>	<u>Anions</u>	<u>Water Data</u> (See note:)
1. <u>Holding Time</u>		<u>0</u>	<u>0</u>	<u>X</u>
2. <u>Spike Recovery</u>		<u>0</u>	<u>0</u>	<u>0</u>
3. <u>Duplicate Analysis</u>		<u>0</u>	<u>0</u>	<u>0</u>
4. <u>LCS</u>		<u>0</u>	<u>NA</u>	<u>0</u>
5. <u>Calibrations</u>		<u>0</u>	<u>0</u>	<u>0</u>
6. <u>Blanks</u>		<u>0</u>	<u>0</u>	<u>0</u>
7. _____		_____	_____	_____
8. _____		_____	_____	_____
9. _____		_____	_____	_____
10. _____		_____	_____	_____

0 = data had no problems  
 X = data qualified due to minor problems  
 M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSMENT: no major problems - all results acceptable w/qualification.

NOTES: Water Data includes - pH, turbidity, conductivity, TDS Alkalinity, COD, Nitrate/Nitrite, Nitrogen-Ammonia, Sulfate, TOX, CN, TP  
 o Refer to the corresponding attachments for explanation of any problems.

RCRA LEVEL C/CLP-SAS QC

Name JA Lerch *JD* Date 08/07/90

QC Check: Holding Time

COMMENTS: TOC - all samples analyzed within 28 days  
Anions - all samples completed within 28 days  
Water Data - TOX holding time exceeded, all  
other HT requirements met

ACTION: qualify associated results as per  
OSM guidelines

sample # constituent value/qual

sample # constituent value/qual

Water Data

all TOX US

WATER DATA Holding times

Alkalinity 14 days  
pH immediately  
COD 28  
Sulfate 28  
CN 14  
Turbidity 2  
cond. 28  
TOX 7  
NH<sub>3</sub>-N 28  
NO<sub>3</sub>/NO<sub>2</sub> 28

RCRA LEVEL C/CLP-SAS QC

Name JA Lerch *ff* Date 08/07/90

QC Check: Spike Recovery

COMMENTS: TOC - (B00B16): 70R within 75-125% limits  
Anions (B00B16, B009X9) - a 70R within 75-125%  
Water Data - all spike 70R within 75-125%  
(spikes not required for all analyses)

ACTION: none

<u>sample #</u>	<u>constituent</u>	<u>value/qual</u>	<u>sample #</u>	<u>constituent</u>	<u>value/qual</u>
					

RCRA LEVEL C/CLP-SAS QC

Name J.A. Lerch *jd* Date 08/07/90

QC Check: Duplicate analysis

COMMENTS: TOC - (BOOBIG) no RPD applies - initial + dup < DL

Anions - all RPD's within limits

Water Data - all duplicate analysis RPD's within limits

ACTION: none

<u>sample #</u>	<u>constituent</u>	<u>value/qual</u>	<u>sample #</u>	<u>constituent</u>	<u>value/qual</u>
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RCRA LEVEL C/CLP-SAS QC

Name JA Lerch *jd* Date 08/07/90

QC Check: LCS

COMMENTS: TOC - LCS recovery within 80-120% limits  
Anions - no LCS performed  
Water Data - all LCS %R within 80-120%

ACTION: none

<u>sample #</u>	<u>constituent</u>	<u>value/qual</u>	<u>sample #</u>	<u>constituent</u>	<u>value/qual</u>
					

RCRA LEVEL C/CLP-SAS QC

Name JA Lerch *jl* Date 08/07/90

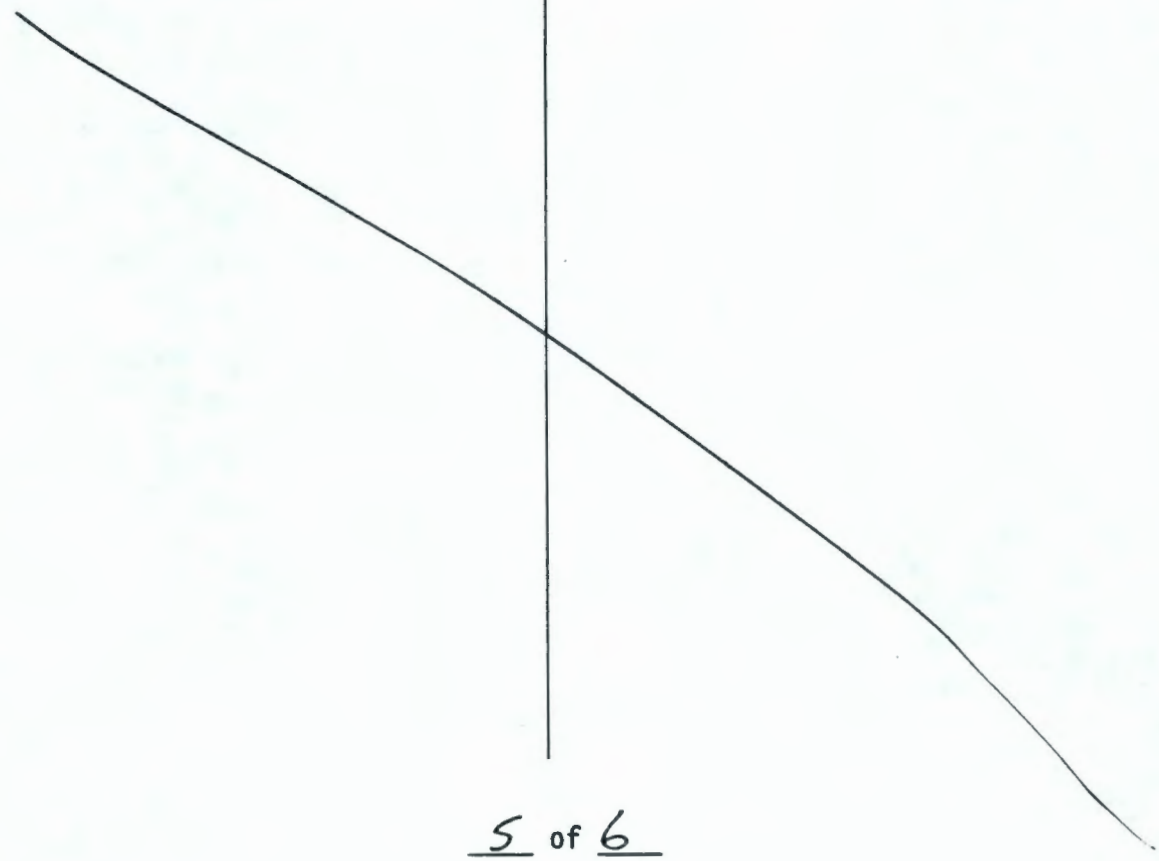
QC Check: Calibrations

COMMENTS: TOC - 6pt calibration used; all ICV + CCV  
%R within 90-110%

Anions - all ICV + CCV %R within 90-110% limits  
Water Data - all calibration results acceptable

ACTION: none

sample #   constituent   value/qual   |   sample #   constituent   value/qual



The table area is completely crossed out with a large diagonal line from the top-left to the bottom-right.

RCRA LEVEL C/CLP-SAS QC

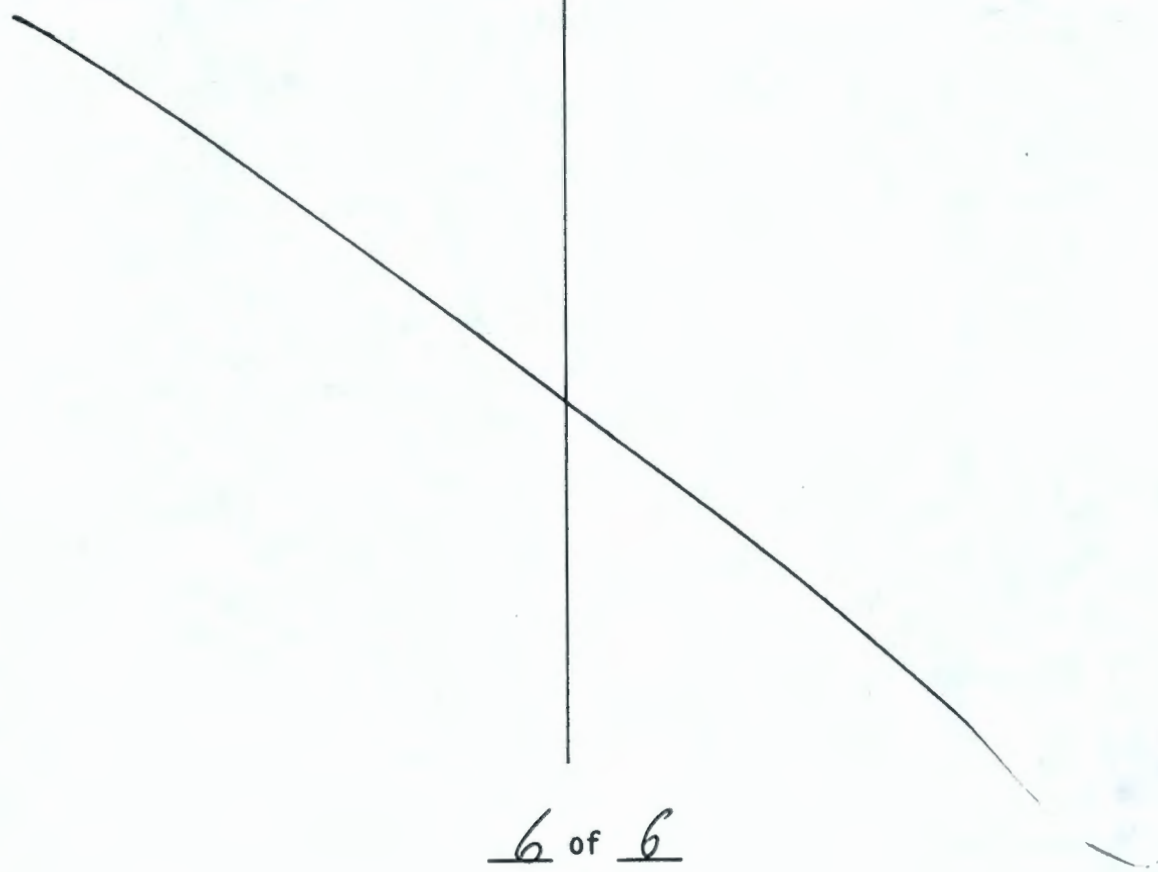
Name JA Lerch *jl* Date 08/07/90

QC Check: Blanks

COMMENTS: TOC - all blank results < DL  
Anions - all blank results < Detection Limit (DL)  
Water Data - no evidence of blank cont.

ACTION: none

sample #   constituent   value/qual   |   sample #   constituent   value/qual



<u>sample #</u>	<u>constituent</u>	<u>value/qual</u>	<u>sample #</u>	<u>constituent</u>	<u>value/qual</u>
<u>6 of 6</u>					

WEYERHAEUSER TECHNOLOGY CENTER  
Analytical Laboratories  
Tacoma, Washington

Service Request 02755  
Page 1 of 1

REPORT

Westinghouse Water Samples  
1100 EM1

<u>Sample Description</u>	<u>Analytical Lab Code</u>	<u>pH</u>	<u>Turbidity NTU</u>	<u>Specific Conductance <math>\mu</math>S/Cm</u>	<u>TDS mg/L</u>	<u>Alkalinity mg/L CaCO<sub>3</sub></u>	<u>COD mg/L</u>
B00B16	50446	5.7	0.1	1.5	<5	<5	<5; <5
B00B20	50448	5.8	0.3	1.7	<5	<5	<5
B009X1	50451	6.2	<0.05	1.6	<5	<5; <5	<5
B009X5	50452	7.7	93	480	330	223	<5
B009X9	50454	7.9	4.2	420	260	141	<5
B009Y3	50456	7.4	79	520	330	230	<5
B009Y7	50458	7.7	3.4	450	280	202	<5
B009Z1	50460	8.1	0.1	460; 460	300; 300	149	<5

<u>Sample Description</u>	<u>Analytical Lab Code</u>	<u>NH<sub>3</sub>-N mg/L</u>	<u>NO<sub>3</sub>-NO<sub>2</sub>-N mg/L</u>	<u>SO<sub>4</sub> mg/L</u>	<u>AOX mg/L</u>	<u>CN mg/L</u>	<u>TP mg/L</u>
B00B16	50444	<0.02	<0.05	<1	<0.01 <u>uJ</u>	<0.01	<0.01
B00B20	50448	<0.02	<0.05	<1; <1	<0.01 <u>uJ</u>	<0.01	<0.01
B009X1	50451	<0.02	<0.05	<1	<0.01 <u>uJ</u>	<0.01	<0.01
B009X5	50452	<0.02	4.3	20	<0.01 <u>uJ</u>	<0.01	0.04
B009X9	50454	<0.02; <0.02	4.1	23	<0.01 <u>uJ</u>	<0.01	0.07
B009Y3	50456	<0.02	4.0	19	<0.01 <u>uJ</u>	<0.01	0.05
B009Y7	50458	<0.02	2.4; 2.2	14	<0.01 <u>uJ</u>	<0.01	0.04
B009Z1	50460	<0.02	7.2	38	<0.01 <u>uJ</u>	<0.01; <0.01	0.04; 0.06

Notebook \_\_\_\_\_

Approved Maxine Rantz Date 6-22-90 Page Number \_\_\_\_\_

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