START 07515.2793

Analytical and Testing Services

B00048-WEY-032

0046182

Weyerhaeuser

32901 Weyerhaeuser Way South
Federal Way, Washington 98003
Analytical Chemistry Laboratories
Tacoma, Washington 98477
Tel (206) 924 6035
Fax (206) 924 4207

CASE NARRATIVE

WEYERHAEUSER (WEYER)
ANALYTICAL AND TESTING SERVICES

Case Number: 01949
SDG Number: B0048D
Contract Number: 11003

Samples from this case (01949) were received on 3/3/90. This case was comprised of waters for VOAs, BNAs, and Pesticides. The requested analysis were as follows:

SAMPLE ID	MATRIX	ANALYSIS REQUESTED
B0048T	WATER	BNA; VOA; PEST
B0052T	WATER	VOA
B0053T	WATER	BNA; VOA; PEST
B0055T	WATER	BNA; VOA; PEST
B0057T	WATER	VOA
B0058T	WATER	VOA
B0059T	WATER	BNA; VOA; PEST
B0061T	WATER	BNA; VOA; PEST
B0063T	WATER	VOA
B0064T	WATER	BNA; VOA; PEST
B0066T	WATER	BNA; VOA; PEST
B0068T	WATER	BNA; VOA; PEST
B0061TRE	WATER	VOA
B0055TMS	WATER	BNA; PEST
B0055TMSD	WATER	BNA; PEST
B0059TMS	WATER	VOA
B0059TMSD	WATER	VOA

Several anomalies existed with this sample set that are listed below. The anomalies are broken up into three categories for ease of explanation.

1. VOA

a) All samples and blanks contain a peak at approximately scan #50 that is >10% of the nearest internal standard. This peak is carbon dioxide and is not searched in any of the samples. A spectra of this peak is on file at the laboratory for review.

b) Sample B0061T had surrogates outside QC limits. The sample was reanalyzed and the same pattern of low surrogates was observed. Both results are reported.

MAR 1990
RECEIVED
J.H. KESSNER

c) The surrogate recovery of sample B0059TMSD was outside QC limits. Normally we would reanalyze the sample, however, insufficient sample was received for reanalysis. This rerun on a spike is not contractually required, so no other action was taken.

d) The percent recovery for benzene in the spike was outside QC limits. The percent RPD for toluene was outside limits in the MS/MSD. These are advisory limits only and no action was required.

2. PESTICIDES-- No Problems Found

3. BNA

a) Sample B0064T had the last internal standard area outside QC limits on the low end. The reanalysis of this sample produced similar problems indicating a matrix problem. No further action is required.

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

3/9/90
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

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0048T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45440

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1393

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/27/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	4	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0048T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45440

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1393

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/27/90

Column (pack/cap) CAP 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

9713515.2797

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0052T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45441

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1394

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/27/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	0.8	BJ
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	3	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0052T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45441

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1394

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/27/90

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75694	Methane, trichlorofluoro-	2.05	2.0	J

9713515.2799

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0053T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45443

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1397

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/27/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	2	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0053T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45443

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1397

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/27/90

Column (pack/cap) CAP 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

9713515.2801

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0055T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45445

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1402

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0055T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45445

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1402

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column (pack/cap) CAP 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

9713515.2803

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0057T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45447

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1403

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

9713515.2804
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0057T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45447

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1403

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column (pack/cap) CAP 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

FORM I VOA-TIC 1/87 Rev.

9713515.2805

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0058T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45566

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1406

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	2	
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0058T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45566

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1406

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75694	Methane, trichlorofluoro-	2.07	2.0	J

9713515.2807

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0059T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45568

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1407

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	3	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

9713515.2808

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0059T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45568

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1407

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column (pack/cap) CAP 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

FORM I VOA-TIC

0063

1287 Rev.

9713515.2809

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1408

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	4	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

9713515.2810

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0061T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1408

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column (pack/cap) CAP 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

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061TRE

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570RE

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1411

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	3	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

9713515.2812

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0061TRE

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570RE

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1411

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column (pack/cap) CAP 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

97135 15.28 13 TA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0063T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45792

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1454

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	0.8	J
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	7	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

9713515.2814
1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0063T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45792

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1454

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75694	Methane, trichlorofluoro-	2.02	8.0	J

9713515.2815

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1455

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

9713515.2846

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1455

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column (pack/cap) CAP 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

9713515.2817

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45796

Sample wt/vol: 25.0 (g/mL) ML m Lab File ID: A1456

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	
67-64-1	Acetone	3	
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	2	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

9713515.2818

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45796

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1456

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column (pack/cap) CAP 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

9713515.2819

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45797

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1457

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45797

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1457

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column (pack/cap) CAP 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

B 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0048T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45440

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227G

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/27/90

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

9713515.2822

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0048T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45440

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227G

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/27/90

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

B 9713515.2823

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0048T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45440

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227G

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/27/90

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0053T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45443

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227H

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/27/90

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

97135 15.2825

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0053T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45443

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227H

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/27/90

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

0262

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0053T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45443

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227H

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/27/90

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

9713515.2827
1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0055T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45445

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227J

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/28/90

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.

B0055T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45445

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227J

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/28/90

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

9713515.2829

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0055T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45445

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0227J

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. dec. Date Extracted: 02/24/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/28/90

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

FORM I SV-TIC 0273 1/87 Rev.

9713515.2830

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0059T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45568

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0301B

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. dec. Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/01/90

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

9713515.2831

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0059T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45568

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0301B

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. dec. Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/01/90

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	2	BJ
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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0059T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45568

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0301B

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. dec. Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/01/90

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

9713515.2833

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0302A

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. dec. Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/02/90

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

9713515.2834

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0302A

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. dec. Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/02/90

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

0294

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0061T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0302A

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. dec. Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/02/90

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

9713515.2836

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0308B

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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

9713515.2837

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0308B

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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

9713515.2838

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0308B

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	8.03	13	JX
2. 115-96-8	ETHANOL, 2-CHLORO-, PHOSPHAT	21.62	36	JX

9713515.2839

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064TRE

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0309A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/90

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

9713515.2840

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064TRE

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0309A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/90

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

9713515.2841

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0064TRE

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0309A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/90

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	8.03	16	JX
2. 115-96-8	ETHANOL, 2-CHLORO-, PHOSPHAT	21.64	36	JX

9713515.2842

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45796

Sample wt/vol: 910 (g/mL) ML Lab File ID: 2BN0308A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	56	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

9713515.2843

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45796

Sample wt/vol: 910 (g/mL) ML Lab File ID: 2BN0308A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	56	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-Methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

(1) - Cannot be separated from Diphenylamine

9713515.2844

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45796

Sample wt/vol: 910 (g/mL) ML Lab File ID: 2BN0308A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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

0333

9713515.2845

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45797

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0308C

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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

9713515.2846

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45797

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0308C

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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

9713515.2847

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45797

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0308C

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0048T

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 01949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45440

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. __ dec. __ Date Extracted: 02/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/03/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9213515.2849 1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0053T

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 01949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45443

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. __ dec. __ Date Extracted: 02/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/03/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9213515 2850 1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0055T

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 01949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45445

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. __ dec. __ Date Extracted: 02/26/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/04/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9213515.2851D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0059T

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 01949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45568

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. __ dec. __ Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/04/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9213515.2852

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061T

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 01949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. __ dec. __ Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/04/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 01949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. __ dec. __ Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9213515.2854 1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 01949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45796

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. __ dec. __ Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/07/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9213515 2855

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 01949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45797

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. __ dec. __ Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/07/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9713515.2856

RECEIVED
MAR 1990
LH KESSNER

CASE NARRATIVE

WEYERHAEUSER (WEYER)
ANALYTICAL AND TESTING SERVICES

Case Number: 01949
SDG Number: B0048D
Contract Number: 68-D9-0080

Samples from this case (01949) were received on 02/23/90 through 03/03/90. This case was comprised of waters for metals and cyanide analysis. The requested analyses were as follows:

Sample ID	Matrix	Analysis Requested
B0048D	WATER	METALS
B0048DD	WATER	METALS
B0048DS	WATER	METALS
B0048T	WATER	METALS & CYANIDE
B0048TD	WATER	METALS & CYANIDE
B0048TS	WATER	METALS & CYANIDE
B0053D	WATER	METALS
B0053DD	WATER	METALS
B0053DS	WATER	METALS
B0053T	WATER	METALS & CYANIDE
B0053TD	WATER	METALS & CYANIDE
B0053TS	WATER	METALS & CYANIDE
B0055D	WATER	METALS
B0055T	WATER	METALS & CYANIDE
B0057D	WATER	METALS
B0059D	WATER	METALS
B0059T	WATER	METALS & CYANIDE
B0061D	WATER	METALS
B0061T	WATER	METALS & CYANIDE
B0064D	WATER	METALS
B0064T	WATER	METALS & CYANIDE
B0066D	WATER	METALS
B0066T	WATER	METALS & CYANIDE
B0068T	WATER	METALS & CYANIDE

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

1. Separate spikes were done on total and dissolved samples. The spike recovery was outside the control limit on the total sample for iron which is flagged with an "N" on all total samples. A post digestion ICP spike was performed for iron on the total sample.

2. 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".

3. An ICP serial dilution was performed on both a total and dissolved sample and sodium was outside the control limit for both. All samples are flagged with an "E" for sodium.

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 Doxsee

Kari H. Doxsee, Manager
Analytical Chemistry Laboratories

3-12-90
Date

Please feel free to contract 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

9713515.2858

U.S. EPA - CLP

1-A

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0048D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45439

Level (low/med): LOW Date Received: 02/23/90

% 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	81.1	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.9	B		F
7440-39-3	Barium	8.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	23500			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6.0	U		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	4830	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	13.5	B		P
7440-09-7	Potassium	733	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2440	B	E	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.8	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:

9713515.2859

U.S. EPA - CLP

1-b

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0048T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45440

Level (low/med): LOW Date Received: 02/23/90

% 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	86.2	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	8.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	23700			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	14.4	B	N	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	5110			P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	798	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2700	B	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2860

U.S. EPA - CLP

1-C

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0053D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45442

Level (low/med): LOW Date Received: 02/23/90

% 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	97.6	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.1	B		F
7440-39-3	Barium	10.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	26400			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron	6.0	U		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	5020			P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	1840	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	3510	B	E	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	4.3	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:

9713515.2801

U.S. EPA - CLP

1-D

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0053T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45443

Level (low/med): LOW Date Received: 02/23/90

% 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	100	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	4.9	B		F
7440-39-3	Barium	14.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	25900			P
7440-47-3	Chromium	13.4			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	53.3	B	N	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	4720	B		P
7439-96-5	Manganese	2.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	1720	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	3440	B	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	4.3	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2862

U.S. EPA - CLP

EPA SAMPLE NO.

1-E

INORGANIC ANALYSIS DATA SHEET

B0055D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45444

Level (low/med): LOW Date Received: 02/23/90

% 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	120	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.7	B		F
7440-39-3	Barium	42.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	63200			P
7440-47-3	Chromium	3.5	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	16.1	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	12500			P
7439-96-5	Manganese	1.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	6990			P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	20100		E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	13.1	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:

9713515.2863

U.S. EPA - CLP

EPA SAMPLE NO.

1-F

INORGANIC ANALYSIS DATA SHEET

B0055T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45445

Level (low/med): LOW Date Received: 02/23/90

% 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	76.8	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.1	B		F
7440-39-3	Barium	42.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	64200			P
7440-47-3	Chromium	7.7	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.3	B		P
7439-89-6	Iron	61.7	B	N	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	12800			P
7439-96-5	Manganese	2.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.4	B		P
7440-09-7	Potassium	7070			P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	20000		E	P
7440-28-0	Thallium	1.1	B		F
7440-62-2	Vanadium	13.1	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2864

U.S. EPA - CLP

1-6

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0057D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45446

Level (low/med): LOW Date Received: 02/23/90

% 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	91.4	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	4.8	B		F
7440-39-3	Barium	20.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	30600			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	13.5	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	5680			P
7439-96-5	Manganese	1.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	3880	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	6190		E	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	10.4	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:

9713515.2805

U.S. EPA - CLP

1-H

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0059D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45567

Level (low/med): LOW Date Received: 02/27/90

% 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	93.2	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.7	B		F
7440-39-3	Barium	10.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	22600			P
7440-47-3	Chromium	5.8	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	33.8	B		P
7439-92-1	Lead	5.0			F
7439-95-4	Magnesium	4670	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	14.5	B		P
7440-09-7	Potassium	760	B		P
7782-49-2	Selenium	1.4	B		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2750	B	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	29.1			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2866

U.S. EPA - CLP

EPA SAMPLE NO.

1 - I

INORGANIC ANALYSIS DATA SHEET

B0059T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45568

Level (low/med): LOW Date Received: 02/27/90

% 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	90.6	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.4	B	W	F
7440-39-3	Barium	11.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	22700			P
7440-47-3	Chromium	4.2	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	24.5	B	N	P
7439-92-1	Lead	4.0			F
7439-95-4	Magnesium	4770	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	841	B		P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2700	B	E	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	19.0	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2867

U.S. EPA - CLP

1-J

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45569

Level (low/med): LOW Date Received: 02/27/90

% 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	122	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.0	B		F
7440-39-3	Barium	12.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	25100			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	51.6	B		P
7439-92-1	Lead	3.3			F
7439-95-4	Magnesium	4930	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	1020	B		P
7782-49-2	Selenium	1.9	B		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2790	B	E	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	7.0	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2868

U.S. EPA - CLP

EPA SAMPLE NO.

1-K

INORGANIC ANALYSIS DATA SHEET

B0061T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45570

Level (low/med): LOW Date Received: 02/27/90

% 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	83.7	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.7	B		F
7440-39-3	Barium	11.6	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	26000			P
7440-47-3	Chromium	4.2	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	7.5	B		P
7439-89-6	Iron	13.5	B	N	P
7439-92-1	Lead	2.4	B		F
7439-95-4	Magnesium	5200			P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	1200	B		P
7782-49-2	Selenium	1.6	B		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2900	B	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	3.6	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2809

U.S. EPA - CLP

1-L

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45793

Level (low/med): LOW Date Received: 03/03/90

% 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	1350			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.6	B		F
7440-39-3	Barium	65.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	56400			P
7440-47-3	Chromium	8.8	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	1820			P
7439-92-1	Lead	4.4			F
7439-95-4	Magnesium	12900			P
7439-96-5	Manganese	121			P
7439-97-6	Mercury	0.50	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	4160	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	18900		E	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	5.2	B		P
7440-66-6	Zinc	6.9	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLOUDY Artifacts:

Comments:

9713515.2870

U.S. EPA - CLP

1-m

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45794

Level (low/med): LOW Date Received: 03/03/90

% 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	1960			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.3	B		F
7440-39-3	Barium	137	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	144000			P
7440-47-3	Chromium	4.2	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	2810		N	P
7439-92-1	Lead	4.3			F
7439-95-4	Magnesium	32100			P
7439-96-5	Manganese	276			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	11400			P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	49200		E	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	13.9	B		P
7440-66-6	Zinc	5.7	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLOUDY Artifacts:

Comments:

9713515.2871

U.S. EPA - CLP

1-N

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45795

Level (low/med): LOW Date Received: 03/03/90

% 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	100	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.1	B		F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	32.0	B		P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6.0	U		P
7439-92-1	Lead	2.6	B		F
7439-95-4	Magnesium	297	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	271	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	462	B	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	1.0	U		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:

9713515.2872

U.S. EPA - CLP

1-0

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45796

Level (low/med): LOW Date Received: 03/03/90

% 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	95.1	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.3	B		F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	36.1	B		P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	13.5	B	N	P
7439-92-1	Lead	2.7	B		F
7439-95-4	Magnesium	297	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	271	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	574	B	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	9.3	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2873

U.S. EPA - CLP

1-P

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45797

Level (low/med): LOW Date Received: 03/03/90

% 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	96.3	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.9	B		F
7440-39-3	Barium	1.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	47.6	B		P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6.0	U	N	P
7439-92-1	Lead	5.7			F
7439-95-4	Magnesium	297	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.2	B		P
7440-09-7	Potassium	271	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	494	B	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	7.4	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2874

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number: 01949

Title: WESTINGHOUSE WATER SAMPLES - PROJECT 11003		
Number of Samples: 20	Project Number: 046-5751	Groups: 1,3,4
Date Received: 02/23/90	Date Desired: 03/01/90	Estimated Completion Date: 03/01/90
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:

QA/QC PER CLP

SAMPLE(S) ADDED

UPDATED 3.5.90

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

A	CLP/ORG	- -	Westinghouse - Organic CLP Deliverables
1		-	
B	CLPINOR3	- -	Westinghouse - Inorganic Group 3 CLP Deliverables
3		-	
C	CLPINOR4	- -	Westinghouse - Inorganic Group 4 CLP Deliverables
4		-	
D	CLPINOR3	- -	DISS Westinghouse - Inorganic Group 3 CLP Delive
3		-	

Sample Number	Series to Be Evaluated	Submitter's Designation	
45439	D	B0048D - WATER - REC'D 2/23	
45440	ABC	B0048T - WATER - REC'D 2/23	
45441	A	B0052T - WATER - REC'D 2/23	**VOA'S ONLY
45442	D	B0053D - WATER - REC'D 2/23	
45443	ABC	B0053T - WATER - REC'D 2/23	
45444	D	B0055D - WATER - REC'D 2/23	
45445	ABC	B0055T - WATER - REC'D 2/23	
45446	D	B0057D - WATER - REC'D 2/23	
45447	A	B0057T - WATER - REC'D 2/23	**VOA'S ONLY
45566	A	B0058T - WATER - REC'D 2/27	*VOA'S
45567	D	B0059D - WATER - REC'D 2/27	
45568	ABC	B0059T - WATER - REC'D 2/27	

Interim Report Desired?	Hazardous Samples? Yes		No	

Reference:			Record Book:
Results Approved:	Date:	Signature applies to attached pages	Page Number:

Printed on: 03/05/90

0088

9713515.2875

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number: 01949

Sample Number	Series to Be Evaluated	Submitter's Designation
45569	D	B0061D - WATER - REC'D 2/27
45570	ABC	B0061T - WATER - REC'D 2/27
45792	A	B0063T - WATER - REC'D 3/3 **VOA'S ONLY
45793	D	B0064D - WATER - REC'D 3/3
45794	ABC	B0064T - WATER - REC'D 3/3
45795	D	B0066D - WATER - REC'D 3/3
45796	ABC	B0066T - WATER - REC'D 3/3
45797	ABC	B0068T - WATER - REC'D 3/3

9713515.2836

Westinhouse Hanford Company	CHAIN USTODY

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

Sample Collected by: L. D. Walker Date: 2-21-90 Time: 08:30-10:00

Sample Locations: 699-S37-E14, 699-S40-E14

Ice Chest No.: Igloo #4 Field Logbook and Page No.: WHC-N-370, pg 14

Remarks: None

Bill of Lading No.: 609433904 Offsite Property No.: W90-0006 #75

Method of Shipment: ~~Oak Harbor / Truck~~ AIRBORNE

Shipped to: Weyerhaeuser

Sample Identification

B00053
- (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, CLP-metals, 2 ml HNO_3 - unfiltered
- (1) 1 l plastic, water, CLP-metals, 2 ml HNO_3 - Filtered

B00052
- (2) 40 ml amber, water, CLP-VOA

B00048
- (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, CLP-metals, 2 ml HNO_3 - unfiltered
- (1) 1 l plastic, water, CLP-metals, 2 ml HNO_3 - Filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
L. D. Walker L. D. Walker	BH Ford BH Ford	2/21/90 14:55
BH Ford BH Ford	J. Demarest J. Demarest	2/22/90 8:50
J. Demarest J. Demarest		

0091

A-6000-407 (07/89)

9713515.2877

DEFSITE #: W90-0006 #75
BLK: 609433504

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser

Research and Development – Analysis and Testing

REQUEST NUMBER

TITLE: Westinghouse 1100 EMI

NUMBER OF SAMPLES	PROJECT NUMBER	GROUPS
9 BOTTLES	1100 EM-1	
DATE RECEIVED	DATE DESIRED	ESTIMATED COMPLETION DATE

SUBMITTED BY	LOCATION	TELEPHONE
L.D. Walker	699-S37-E14	509-376-9234
REVIEWED BY	LOCATION	TELEPHONE

COPY TO

NAME OF TEST OR METHOD	Expected Report Range %	PPM	PPB	REPORT BASIS*	LOWER LIMIT SENSITIVITY
CLP all water	☐	☐	☒	Detection limits are	
	☐	☐	☐	specified in CLP	
	☐	☐	☐	statement of work.	
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

*Indicate volume or weight basis on O.D. or as received sample, etc.

SPECIAL HANDLING: ☒ Keep Chilled ☐ Keep Frozen ☐ Other N/A

PRESERVATIVE ADDED: ☒ Yes ☐ No

Kind: NaOH, HNO_3

Amount: 2 ml in each bottle

Does submitter want non-hazardous samples returned? ☐ Yes ☒ No

SAMPLE DESCRIPTION AND HISTORY (Include potential hazards): Water samples to be shipped to Weyerhaeuser. Samples may contain hazardous ~~waste~~ constituents.

LW 2-6-90

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B0003			
(2) 40 ml amber glass, water	CLP-VOA		
(1) 4 l amber glass, water	CLP-Semi-Vol		
(1) 1 l plastic, water,	CLP-CN^-	2 ml NaOH	
(1) 1 l plastic, water,	CLP-metals	2 ml HNO_3, unfiltered	
(1) 1 l plastic, water,	CLP-metals	2 ml HNO_3, Filtered	
B0002			
(2) 40 ml amber glass, water,	CLP-VOA		

INTERIM REPORT DESIRED: ☒ Yes ☐ No

HAZARDOUS SAMPLES: UNKNOWN ☐ Yes ☐ No

REFERENCE

RECORD BOOK

RESULTS APPROVED

DATE

SIGNATURE APPLIES TO _____ attached pages

PAGE NUMBER

FORM 7810 1/89 Printing Services TP-1 Tacoma

9713515.2878

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development – Analysis and Testing

REQUEST NUMBER: 1949

TITLE: WESTINGHOUSE WATER SAMPLES - PROJECT 11003

NUMBER OF SAMPLES: ~~3~~ 9

PROJECT NUMBER: 046-5751

GROUPS: 1,3,4

DATE RECEIVED: 2·23

DATE DESIRED: 3/1

ESTIMATED COMPLETION DATE:

SUBMITTED BY: Bechtold, Bucky/KHO

LOCATION: 2F25

TELEPHONE: (509) 373-344

REVIEWED BY: Dorsle

LOCATION:

TELEPHONE:

COPY TO:

NAME OF TEST OR METHOD	Expected Report Range %	PPM	PPB	REPORT BASIS *	LOWER LIMIT SENSITIVITY
(A) CLP/ORG					
(B) CLP/NOR3					
(C) CLP/NOR4					
(D) CLP/NOR3 = DISS					

*Indicate volume or weight basis on O.D. or as received sample, etc.

SPECIAL HANDLING: ☐ Keep Chilled ☐ Keep Frozen ☐ Other

PRESERVATIVE ADDED: ☐ Yes ☐ No

Kind

Amount

Does submitter want non-hazardous samples returned? ☐ Yes ☐ No

SAMPLE DESCRIPTION AND HISTORY (Include potential hazards)

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED		SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
~~B0048~~	~~45439~~	D	B0048D - WATER - Rec'd 2/23	
~~B0052~~	40	ABC	B0048T	
~~B0053~~	1	A	B0052T	VOA'S ON
~~B0055~~	2	D	B0053D	
~~B0057~~	3	ABC	B0053T	
	4	D	B0055D	
	5	ABC	B0055T	
	6	D	B0057D	
	7	A	B0057T	VOA'S ON

INTERIM REPORT DESIRED ☐ Yes ☐ No

HAZARDOUS SAMPLES ☐ Yes ☐ No

REFERENCE

RECORD BOOK

RESULTS APPROVED

DATE

SIGNATURE APPLIES TO _____ attached pages

PAGE NUMBER

FORM 7610 1/89 Printing Services TP-1 Tacoma

9713515.2879

Westinhouse Hanford Company

CHAIN USTODY

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

Sample Collected by: L. D. Walker Date: 2-21-90 Time: 1130-1300

Sample Locations: 699-543-E12, 699-541-E13A

Ice Chest No.: TGLOO #14 Field Logbook and Page No.: WHC-N-370, pg. 14

Remarks: NONE

Bill of Lading No.: 609433904 Offsite Property No.: N90-0006 #75

Method of Shipment: ~~Oak Harbor/Truck~~ AIRBORNE

Shipped to: Weyerhaeuser

Sample Identification

B00055
(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, CLP-metals, 2 ml HNO_3 - unfiltered
(1) 1 l plastic, water, CLP-metals, 2 ml HNO_3 - Filtered

B00057
(3) 40 ml amber, water, CLP-VOA
(1) 1 l plastic, water, CLP-metals, 2 ml HNO_3, Filtered

Chain of Possession

Relinquished by: L. D. Walker [signature]	Received by: [signature] BH Ford	Date/Time: 2/22/90 14:55
Relinquished by: [signature] BH Ford	Received by: J. Demarest [signature]	Date/Time: 2/22/90 8:50
Relinquished by: J. Demarest [signature]	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

A-6000-507 (07/89)

0002

9713515.2880

OFFSITE #: N90-0006 #75
BL#: 609433904

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE: Westinghouse 1100 EM1

NUMBER OF SAMPLES: 11 Bottles

PROJECT NUMBER: 1100 EM-1

GROUPS:

DATE RECEIVED:

DATE DESIRED:

ESTIMATED COMPLETION DATE:

SUBMITTED BY: L.D. Walker

LOCATION:

TELEPHONE: 509-376-9234

REVIEWED BY:

LOCATION:

TELEPHONE:

COPY TO:

NAME OF TEST OR METHOD	Expected Report Range %	PPM	PPB	REPORT BASIS *	LOWER LIMIT SENSITIVITY
CLP all water	☐	☐	☒	Detection limits are	
	☐	☐	☐	specified in CLP	
	☐	☐	☐	statement of work.	
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

*Indicate volume or weight basis on O.D. or as received sample, etc.

SPECIAL HANDLING: ☒ Keep Chilled ☐ Keep Frozen ☐ Other N/A

PRESERVATIVE ADDED: ☒ Yes ☐ No

Kind: NaOH, HNO_3

Amount: 2 ml in each bottle

Does submitter want non-hazardous samples returned? ☐ Yes ☒ No

SAMPLE DESCRIPTION AND HISTORY (Include potential hazards): Water samples to be shipped to Weyerhaeuser. Samples may contain hazardous ~~waste~~ constituents.

LW 2-6-90

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B0000 55			
(3) 40 ml amber glass, water, CLP-VOA			
(1) 4 l amber glass water, CLP-Semi Vol			
(1) 1 l plastic, water, CLP-CN^-		2 ml NaOH	
(1) 1 l plastic, water, CLP-metals		2 ml HNO_3, unfiltered	
(1) 1 l plastic, water, CLP-metals		2 ml HNO_3, Filtered	
B0000 57			
(3) 40 ml amber glass, water, CLP-VOA			
(1) 1 l plastic, water, CLP-metals, 2 ml HNO_3 (Filtered)			

INTERIM REPORT DESIRED: ☒ Yes ☐ No

HAZARDOUS SAMPLES: UNKNOWN ☐ Yes ☐ No

REFERENCE:

RECORD BOOK:

RESULTS APPROVED:

DATE:

SIGNATURE APPLIES TO: _____ attached pages

PAGE NUMBER:

FORM 7810 1/89 Printing Services TP-1 Tacoma

9713515.2841

Westinhouse Hanford Company	CHAIN USTODY

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

Sample Collected by: ~~L. D. Walker~~ BH. Ford Date: 2/25/90 Time: 1340

Sample Locations: RICHLAND WELL FIELD - WEST & EAST FLOW LINES

Ice Chest No.: IGLOO #19A Field Logbook and Page No.: WHC-N-370, pg. 15

Remarks: NONE

~~Bill of Lading No.~~ OFFSITE #: W90-0006 #76 ~~Offsite Property No.~~ Bill of Lading #: 617690312

Method of Shipment: AIRBORNE

Shipped to: Weyerhaeuser

Sample Identification

B0000 59
- (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, CLP-metals, 2ml HNO_3 - unfiltered
- (1) 1 l plastic, water, CLP-metals, 2ml HNO_3 - Filtered

B0000 58
- (2) 40 ml amber, water, CLP-VOA

B0000 61
- (3) 40 ml amber, water, CLP-VOA
- (1) 4 l amber, water, CLP-SemiVoc
- (1) 1 l plastic, water, CLP-CN^-, 2ml NaOH
- (1) 1 l plastic, water, CLP-metals 2ml HNO_3, unfiltered
- (1) 1 l plastic, water, CLP-metals, 2ml HNO_3, filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
BH Ford BH Ford	J. Demarest	2/26/90 9:22
J. Demarest	T Perrotti	2/27/90 1045A

A-6000-407 (07/89)

0096

97135/5.2882

OFFSITE#: W90-0006 #7
BL#: 61769031Z

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development – Analysis and Testing

REQUEST NUMBER

TITLE: Westinghouse 1100 EM1

NUMBER OF SAMPLES: 9 Bottles

PROJECT NUMBER: 1100-EM-1

GROUPS:

DATE RECEIVED:

DATE DESIRED:

ESTIMATED COMPLETION DATE:

SUBMITTED BY: B H Ford

LOCATION: Richland Well Field

TELEPHONE: (509)376-9234

REVIEWED BY:

LOCATION:

TELEPHONE:

COPY TO:

NAME OF TEST OR METHOD	Expected Report Range %	PPM	PPB	REPORT BASIS *	LOWER LIMIT SENSITIVITY
CLP – All Water	☐	☐	☒	Detection Limits	
	☐	☐	☐	are specified in	
	☐	☐	☐	CLP Statement of	
	☐	☐	☐	Work	
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

*Indicate volume or weight basis on O.D. or as received sample, etc.

SPECIAL HANDLING: ☒ Keep Chilled ☐ Keep Fro ☐ Other

PRESERVATIVE ADDED: ☒ Yes ☐ No

Kind: NaOH, HNO_3

Amount: 2ml each in bottle indica

Does submitter want non-hazardous samples returned? ☐ Yes ☒ No

SAMPLE DESCRIPTION AND HISTORY (Include potential hazards): Water samples to be shipped to Weyerhaeuser. Samples may contain hazardous constituents.

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B0000 59			
(3) 40 ml	amber glass, water	CLP-VOA	
(1) 4 l	amber glass, water	CLP-Semi Vol	
(1) 1 l	plastic, water	CLP-CN⁻, 2ml	NaOH
(1) 1 l	plastic, water,	CLP-metals, 2ml	HNO_3, unfiltered
(1) 1 l	plastic, water,	CLP-metals, 2ml	HNO_3, filtered
B0000 58			
(2) 40 ml	amber glass, water,	CLP-VOA	

INTERIM REPORT DESIRED: ☒ Yes ☐ No

HAZARDOUS SAMPLES: Unknown ☐ Yes ☐ No

REFERENCE:

RECORD BOOK:

RESULTS APPROVED:

DATE:

SIGNATURE APPLIES TO: _____ attached pages

PAGE NUMBER:

FORM 7610 1/89 Printing Services TP-1 Tacoma

9713515.2803

OFFSITE#: W90-0006 #7
BL#: 617690312

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development – Analysis and Testing

REQUEST NUMBER

TITLE: Westinghouse 1100 EMI

NUMBER OF SAMPLES: 7 BOTTLES

PROJECT NUMBER: 1100-EM-1

GROUPS:

DATE RECEIVED:

DATE DESIRED:

ESTIMATED COMPLETION DATE:

SUBMITTED BY: B H FORD

LOCATION: RICHLAND WELL FIELD

TELEPHONE: (509) 376-9234

REVIEWED BY:

LOCATION:

TELEPHONE:

COPY TO:

NAME OF TEST OR METHOD	Expected Report Range %	PPM	PPB	REPORT BASIS *	LOWER LIMIT SENSITIVITY
CLP – ALL WATER	☐	☐	☒	DETECTION LIMITS	
	☐	☐	☐	ARE SPECIFIED IN	
	☐	☐	☐	CLP STATEMENT OF	
	☐	☐	☐	WORK	
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

*Indicate volume or weight basis on O.D. or as received sample, etc.

SPECIAL HANDLING: ☒ Keep Chilled ☐ Keep Fro ☐ Other

PRESERVATIVE ADDED: ☒ Yes ☐ No

Kind: NaOH, HNO_3

Amount: 2ml each in bottle indicat

Does submitter want non-hazardous samples returned? ☐ Yes ☒ No

SAMPLE DESCRIPTION AND HISTORY (Include potential hazards): WATER SAMPLES TO BE SHIPPED TO WEYERHAEUSER. SAMPLES MAY CONTAIN HAZARDOUS CONSTITUENTS

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B0061			
(3) 40 ml	amber glass, water	CLP-VOA	
(1) 4 l	amber glass, water	CLP-Semi Vol	
(1) 1 l	plastic, water	CLP-CN⁻, 2ml	NaOH
(1) 1 l	plastic, water,	CLP-metals, 2ml	HNO_3, unfiltered
(1) 1 l	plastic, water,	CLP-metals, 2ml	HNO_3, filtered

INTERIM REPORT DESIRED: ☒ Yes ☐ No

HAZARDOUS SAMPLES: UNKNOWN ☐ Yes ☐ No

REFERENCE:

RECORD BOOK:

RESULTS APPROVED:

DATE:

SIGNATURE APPLIES TO _____ attached pages

PAGE NUMBER:

FORM 7610 1/89 Printing Services TP-1 Tacoma

9713515.2884

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development – Analysis and Testing

REQUEST NUMBER: 1975

TITLE: ( ) Westinghouse ~~Soil~~/Water Survey - Project 11003

NUMBER OF SAMPLES: 5

PROJECT NUMBER: 046-5751

GROUPS: 1,3,4

DATE RECEIVED: 2/27

DATE DESIRED: 3/1

ESTIMATED COMPLETION DATE:

SUBMITTED BY: Bechtold, Becky / RHD

LOCATION: WTC 2F25

TELEPHONE: (509) 373-344?

REVIEWED BY: Doxsee

LOCATION:

TELEPHONE:

COPY TO:

	NAME OF TEST OR METHOD	Expected Report Range %	PPM	PPB	REPORT BASIS *	LOWER LIMIT SENSITIVITY
A	CLP/ORG	☐	☐	☐		
		☐	☐	☐		
B	CLP/NOR3	☐	☐	☐		
		☐	☐	☐		
C	CLP/NOR4	☐	☐	☐		
		☐	☐	☐		
D	CLP/NOR3 - DISS	☐	☐	☐		

*Indicate volume or weight basis on O.D. or as received sample, etc.

SPECIAL HANDLING: ☐ Keep Chilled ☐ Keep Frozen ☐ Other

PRESERVATIVE ADDED: ☐ Yes ☐ No

Kind

Amount

Does submitter want non-hazardous samples returned? ☐ Yes ☐ No

SAMPLE DESCRIPTION AND HISTORY (Include potential hazards): QA/QC per CLP.

35-37 +/A.

	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
A	B0058T ---	WATER ---	Rec'd 2/27	VOAS ONLY 4556
D	B0059D			7
ABC	B0059T			8
D	B0061D			9
ABC	B0061T			70

INTERIM REPORT DESIRED ☐ Yes ☐ No

HAZARDOUS SAMPLES ☐ Yes ☐ No

REFERENCE

RECORD BOOK

RESULTS APPROVED

DATE

SIGNATURE APPLIES TO _____ attached pages

PAGE NUMBER

FORM 7610 1/89 Printing Services TP-1 Tacoma

9213515.2845

Westinhouse Hanford Company	CHAIN USTODY

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

Sample Collected by: B. H. Ford Date: 3/2/90 Time:

Sample Locations: MW-3, MW-E-1

Ice Chest No.: Igloo #17 Field Logbook and Page No.: WHC-N-370, p16-17

Remarks: None

Bill of Lading No.: 617690323 Offsite Property No.: W90-0-0006 #77

Method of Shipment: AIRBORNE

Shipped to: Weyerhaeuser

Sample Identification

B0006 4
(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, CLP-metals, 2ml HNO_3 - unfiltered
(1) 1 l plastic, water, CLP-metals, 2ml HNO_3 - Filtered (partial fill)

B0006 3
(2) 40 ml amber, water, CLP-VOA

B0006 6
(3) 40 ml amber, water, CLP-VOA
(1) 4 l amber, water, CLP-SemiVol
(1) 1 l plastic, water, CLP-CN^-, 2 ml NaOH
(1) 1 l plastic, water, CLP-metals, 2 ml HNO_3, unfiltered
(1) 1 l plastic, water, CLP-metals, 2 ml HNO_3, filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
BH Ford	J. DEMAREST	3/2/90 11:21 AM
J. DEMAREST		
		0100

A-6000-407 (07/89)

9713515.2806

OFFSITE#: W90-0006 #7
BL#: 61769032

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser

Research and Development – Analysis and Testing

REQUEST NUMBER

TITLE: Westinghouse 1100 EM1		
NUMBER OF SAMPLES: Bottles	PROJECT NUMBER: 1100-EM-1	GROUPS
DATE RECEIVED	DATE DESIRED	ESTIMATED COMPLETION DATE
SUBMITTED BY: B H Ford	LOCATION: Richland Well Field	TELEPHONE: (509)376-9234
REVIEWED BY	LOCATION	TELEPHONE
COPY TO		

NAME OF TEST OR METHOD	Expected Report Range %	PPM	PPB	REPORT BASIS *	LOWER LIMIT SENSITIVITY
CLP – All Water	☐	☐	☒	Detection Limits	
	☐	☐	☐	are specified in	
	☐	☐	☐	CLP Statement of	
	☐	☐	☐	Work	
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

*Indicate volume or weight basis on O.D. or as received sample, etc.

SPECIAL HANDLING

☒ Keep Chilled ☐ Keep Frc

☐ Other

PRESERVATIVE ADDED

☒ Yes ☐ No

Kind: NaOH, HNO_3

Amount: 2ml each in bottle indica

Does submitter want non-hazardous samples returned?

☐ Yes ☒ No

SAMPLE DESCRIPTION AND HISTORY (Include potential hazards): Water samples to be shipped to Weyerhaeuser. Samples may contain hazardous constituents.

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
BØØØ64			
(3) 40 ml	amber glass, water	CLP-VOA	
(1) 4 l	amber glass, water	CLP-Semi Vol	
(1) 1 l	plastic, water	CLP-CN^-, 2ml	NaOH
(1) 1 l	plastic, water,	CLP-metals, 2ml	HNO_3, unfiltered
(1) 1 l	plastic, water,	CLP-metals, 2ml	HNO_3, filtered
BØØØ:3			
(2) 40ml	amber glass, water,	CLP-VOA	

INTERIM REPORT DESIRED: ☒ Yes ☐ No

HAZARDOUS SAMPLES: Unknown ☐ Yes ☐ No

REFERENCE

RECORD BOOK

RESULTS APPROVED

DATE

SIGNATURE APPLIES TO _____ attached pages

PAGE NUMBER

FORM 7810 1/89 Printing Services TP-1 Tacoma

9213515.2887

Westinhouse Hanford Company	CHAIN USTODY

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

Sample Collected by BHFord Date 3/2/90 Time

Sample Locations MW-E-2

Ice Chest No. Igloo #17 Field Logbook and Page No. WHC-N-370 p 16/17

Remarks NONE

Bill of Lading No. 617690323 Offsite Property No. WQD-0006 #77

Method of Shipment AIRBORNE

Shipped to Weyerhaeuser

Sample Identification

B00068

(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, CLP-metals, 2ml HNO_3 - unfiltered

~~(1) 1 l plastic, water, CLP-metals, 2ml HNO_3 - Filtered~~ BHF 3/2/90

Chain of Possession

Relinquished by:	Received by:	Date/Time:
BHFord BHFord	J. DEMAREST J. Demarest	3/2/90 11:21 AM
Relinquished by: J. DEMAREST J. Demarest	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time: 0101

A-6000-407 (07/89)

9713515.2808

OFFSITE#: W90-0002 #7
BL#: 617690323

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser
Research and Development – Analysis and Testing

REQUEST NUMBER: 1949

TITLE: Westinghouse 1100 EMI

NUMBER OF SAMPLES: Bottles	PROJECT NUMBER: 1100-EM-1	GROUPS
DATE RECEIVED	DATE DESIRED	ESTIMATED COMPLETION DATE
SUBMITTED BY: B H Ford	LOCATION: Richland Well Field	TELEPHONE: (509)376-9234
REVIEWED BY	LOCATION	TELEPHONE
COPY TO		

NAME OF TEST OR METHOD	Expected Report Range %	PPM	PPB	REPORT BASIS *	LOWER LIMIT SENSITIVITY
CLP – All Water	☐	☐	☒	Detection Limits	
	☐	☐	☐	are specified in	
	☐	☐	☐	CLP Statement of	
	☐	☐	☐	Work	
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

*Indicate volume or weight basis on O.D. or as received sample, etc.

SPECIAL HANDLING: ☒ Keep Chilled ☐ Keep Fr ☐ Other

PRESERVATIVE ADDED: ☒ Yes ☐ No
Kind: NaOH, HNO_3
Amount: 2ml each in bottl indica

Does submitter want non-hazardous samples returned? ☐ Yes ☒ No

SAMPLE DESCRIPTION AND HISTORY (include potential hazards): Water samples to be shipped to Weyerhaeuser. Samples may contain hazardous constituents

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B0006 6			
(3) 40 ml	amber glass, water	CLP-VOA	
(1) 4 l	amber glass, water	CLP-Semi Vol	
(1) 1 l	plastic, water	CLP-CN⁻, 2ml	NaOH
(1) 1 l	plastic, water,	CLP-metals, 2ml	HNO_3, unfiltered
(1) 1 l	plastic, water,	CLP-metals, 2ml	HNO_3, filtered
B0006 8			
(3) 40 ml	amber glass, water,	CLP-VOA	
(1) 4 l	amber glass, water	CLP-Semi Vol	
(1) 1 l	plastic, water,	CLP-CN⁻ 2ml	NaOH
(1) 1 l	plastic, water	CLP-metals, 2ml	HNO_3, unfiltered
~~(1) 1 l~~	~~plastic, water~~	BHF 3/2/90	

INTERIM REPORT DESIRED: ☒ Yes ☐ No

HAZARDOUS SAMPLES: Unknown ☐ Yes ☐ No

REFERENCE			RECORD BOOK
RESULTS APPROVED	DATE	SIGNATURE APPLIES TO _____ attached pages	PAGE NUMBER

FORM 7610 1/89 Printing Services TP-1 Tacoma

97135152889 CLP

SDG# B0048D
SAS#
CASE #

Weyerhaeuser Company

Analytical Laboratories
Tacoma, Washington

Form 1

Request # 1949

	EPA Samp. No.	Matrix	Level	% Solids	Date Rec'd	Color Before	Color After	Clarity Before	Clarity After	Texture
1	B0048D	W			2/23	COLORLESS	COLORLESS	CLEAR	CLEAR	
2	B0048T	W			2/23					
3	B0052T	W			2/23					
4	B0053D	W			2/23					
5	B0053T	W			2/23					
6	B0055D	W			2/23					
7	B0055T	W			2/23					
8	B0057D	W			2/23					
9	B0057T	W			2/23					
10	B0058T	W			2/27					
11	B0058D	W			2/27					
12	B0059T	W			2/27					
13	B0061D	W			2/27					
14	B0061T	W			2/27					
15	B0063T	W			3/3					
16	B0064D	W			3/3			CLOUDY	CLOUDY	
17	B0064T	W			3/3			CLOUDY		
18	B0066D	W			3/3			CLEAR	CLEAR	
19	B0066T	W			3/3					
20	B0068D	W			3/3					

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

QC LEVEL INDICATED - PH of MET LESS THAN 2. PH of CN GREATER THAN 10. Sulfide NEGATIVE. Sample B0064T NOT A FULL CONTAINER

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

0104

9713515.2890

ANALYTICAL WORKSHEET

Weyerhaeuser Company
Analytical Laboratories
Tacoma, Washington

Client/Case # WEST / 11003	Service Req. Number/SDG# 01749 / B0048D
Analysis for: GFAAS METALS	Method Number: CLP WATER DIGEST

DATA

Sample Number	Client Sample Number	Aliquot (mL, as rec'd)	Final Dilution (mL)	Matrix	Comments
	–				
PBW	PBW	100	100	1% HNO3	
LCSW	LCSW				
45439	B0048D				
440	B0048T				
442	B0053D				
442D	B0053DD				
442S	B0053DS				
443	B0053T				
443D	~~B0055D~~ B0053TD				
443S	B0053TS				
444	B0055D				
445	B0055T				
446	B0057D				

Comments: LCSW= ICV-2(0789) 1/20 + ICV-4(0389) 1/10

Analyst Rob	Date 2/24/90	NB Number
Witness	Date	Page Number 0105

9713515.2841

ANALYTICAL WORKSHEET

Weyerhaeuser Company
Analytical Laboratories
Tacoma, Washington

Client/Case # WEY. / 11003 | Service Req. Number / SDG# 01949 / B0048D
Analysis for: ICP METALS | Method Number: CLP WATER DIGEST

DATA

Sample Number	Client Sample Number	Aliquot (mL, as rec'd)	Final Dilution (mL)	Matrix	Comments
PBW -1	PBW	100	100	1% HNO3, 5% HCl	
LCSW -1	LCSW				
RJ 2-26 ~~454439~~ 45439	B0048D				
45439D	B0048DD				
4395	B0048DS				
440	B0048T				
4400	B0048TD				
4405	B0048TS				
442	B0053D				
443	B0053T				
444	B0055D				
445	B0055T				
446	B0057D				

Comments: LCSW= ICV-1(0489) 1/10 + ICV-3(0189) 1/10

Analyst [signature]	Date 2/26/90	NB Number
Witness	Date	Page Number 0106

9713515.2892

ANALYTICAL WORKSHEET

Weyerhaeuser Company
Analytical Laboratories
Tacoma, Washington

Client/Case # Wes / 11003	Service Req. Number/SDG# 01949 / B0048D
Analysis for: GFAAS METALS	Method Number: CLP WATER DIGEST

DATA

Sample Number	Client Sample Number	Aliquot (mL, as rec'd)	Final Dilution (mL)	Matrix	Comments
PBW	PBW	100	100	1% HNO3	
LCSW	LCSW				
45567	B0059D				
568	B0059T				
569	B0061D				
570	B0061T				
45793	B0064D	40	100		
794	B0064T				
795	B0066D				
796	B0066T				
797	B0068T				

Comments: LCSW= ICV-2(0989) 1/20 + ICV-4(0389) 1/10

SAMPLE # B00640 WAS SAMPLED AT 40 ml AND THEN DILUTED TO 100 ml BEFORE THE ~~THE~~ RS3-590 CLP WATER DIGEST BECAUSE OF INSUFFICIENT SAMPLE REC'D

Analyst Robert Jones	Date 3/6/90	NB Number 0107
Witness	Date	Page Number

9713515.2893

ANALYTICAL WORKSHEET

Weyerhaeuser Company
Analytical Laboratories
Tacoma, Washington

Client/Case # WEST/11003	Service Req. Number / SDG# 01949/B00480
Analysis for: ICP METALS	Method Number: CLP WATER DIGEST

DATA

Sample Number	Client Sample Number	Aliquot (mL, as rec'd)	Final Dilution (mL)	Matrix	Comments
PBW -2	PBW	100	100	1% HNO3, 5% HCl	
LCSW -2	LCSW	↓	↓	↓	
45567	B0059D	100	100	↓	
568	B0059T	↓	↓	↓	
569	B0061D	↓	↓	↓	
570	B0061T	↓	↓	↓	
45793	B0064D	40	↓	↓	
794	B0064T	↓	↓	↓	
795	B0066D	↓	↓	↓	
796	B0066T	↓	↓	↓	
797	B0068T	↓	↓	↓	

Comments: LCSW= ICV-1(0489) 1/10 + ICV-3(0189) 1/10

SAMPLE # B0064D WAS SAMPLED AT 40ml AND THEN DILUTED TO 100ml BEFORE BEFORE THE CLP WATER DIGEST. THIS WAS DONE BECAUSE OF LACK OF SAMPLE

Analyst Robert Jones	Date 3/6/90	NB Number 0108
Witness	Date	Page Number

9713515.2894

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

		DATE	TIME
WEYCO SHIPPING/RECEIVING		3·3·90	11:28A
WEYCO SAMPLE MANAGEMENT		3·5·90	8:00A
OPENING OF COOLER:	8:30A		
TEMPERATURE:	3.4		
SAMPLES RECEIVED:	B00063		
	B00064		
	B00066		
	B00068		

COMMENTS: B00064 FILTERED (Jeff 9:15A 3/5 left info)
SAMPLE NOT FULL.

CONFIRMATION:

CALLED WESTINGHOUSE: X

MAILED TALLY RECORD: X

MAILED PAPER WORK: X

1) OVERNIGHT HELIPORT — SIGNATURE SECURITY SERVICE

CONTRACTOR	OFF-SITE PROPERTY CONTROL	SERIAL NUMBER (TO BE OBTAINED FROM PROPERTY ACCOUNTING)
WESTINGHOUSE HANFORD		90-0006 #76

PART I - TO BE COMPLETED BY ORIGINATOR

DEPARTMENT	SECTION	UNIT
ENV. ENG / TECH	GEOSCIENCES	HYDROLOGY

THE FOLLOWING ITEMS ARE TO BE SHIPPED FROM: ☒ CONTRACTOR ☐ VENDOR

ROUTING: AIR-BORNE ☒ PREPAID ☐ COLLECT

SHIPPED TO: WCYIR HEUSER CO. 32901 32ND BLVD SOUTH FEDERAL WAY, WASHINGTON 98003

OFFSITE CUSTODIAN: KARL DOYSEK

FULL TITLE: PLANNER

QUANTITY	DESCRIPTION (INCLUDE ITEM NO., SERIAL NO., ETC.)	ORIGINAL COST
1 73167	IBLOO #19A POLYPOPE GROUND WATER SAMPLES PACKED IN WET SAND VERMICULITE. NON HAZARDOUS. SAMPLE #S B00058 B00059, B00061	NA

☐ 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 THE 1100 AREA.

BL #: 617690312

T PERRETTI 2-27-90

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	RM SURVEY NO.	DATE

LOCATION OF PROPERTY (AREA & BLDG.)	CONTACT	PHONE
1100-CM-1	B. H. FORD	376-7734

DATE READY FOR SHIPMENT	COST CODE TO BE CHARGED	APPROXIMATE DATE THIS PROPERTY WILL BE RETURNED
2/26/90	W81230	NA

ORIGINATED BY	DATE	AUTHORIZED BY	DATE
BH Ford	2/25/90	[signature]	2/26/90

SIGNATURE AND NAME OF PROPERTY CONTROL	CUSTODIAN DATE	PROPERTY MANAGEMENT APPROVAL	DATE
		[signature]	2-26-90

PART II - TO BE COMPLETED BY WHC SHIPPING OPERATION

SIGNATURE OF WHC RECIPIENT	RETURN ORDER NO.	DATE ISSUED	PURCHASE ORDER NO.	DATE ISSUED
[signature] DATE 2-26-90				

DISTRIBUTION

BY ORIGINATOR: WHITE, GREEN, YELLOW, PINK — PROPERTY MANAGEMENT; GOLDENROD — RETAIN

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

0097

9713515.2896

OVERNIGHT DELIVERY — SIGNATURE SERVICES REQ.

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
WESTINGHOUSE HANFORD		D90-0-0006 #1

PART I – TO BE COMPLETED BY ORIGINATOR

Department	Section	Unit
ENV. ENG & TECH	GEOSCIENCES	HYDROLOGY

The following items are to be shipped from ☒ Contractor ☐ Vendor

Routing AIRBORNE ☒ Contractor ☐ Vendor

Shipped to
WEYERHAEUSER CO.
32901 32ND DRIVE SOUTH
FEDERAL WAY, WA 98003

Off-site Custodian: KARL DOXSEE

Full Title: MANAGER

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1 82 lbs	IGLOO 47 POLYCOOLER. GROUNDWATER SAMPLES PACKED IN 3.4 IN VERMICULITE AND WET ICE. NONHAZARDOUS. B00063 B00064 SAMPLES: B00066, B00068 B00068	NA

☐ 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
B000L4N ~~STANDPIPE~~ AREA, 3/4 left up)
Sample not full.

BL# 617690323

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING.

RM Clearance for ~~Public Release~~ OFFSITE LAB ANALYSIS	RM Survey No.	Date
R.W. Lapt 69785	900101	03-02-90

Location of Property (Area & Bldg.)	Contact	Phone
1100-CP-1	B. H. FORD	(509) 376-9734

Date Ready for Shipment	Cost Code to be Charged	Approximate Date This Property will be Returned
3/2/90	WB1230	NA

Originated By	Date	Authorized By	Date
B H FORD	3/2/90	[signature]	3/2/90

Signature and Name of Property Control	Custodian Date	Property Management Approval	Date
		[signature]	3/2/90

PART II – TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No.	Date Issued	Purchase Order No.	Date Issued
Joyce L. Dumont	X			
Date 3 2 90	X			0102

DISTRIBUTION

By Originator	Shipping Operation – Sign all Copies and Forward to:	
White, Green, Yellow, Pink – Property Management Goldenrod – Retain	White – Property Management Yellow – Retain	Green – Property Control Custodian (Issuing Office) Pink – Originator

54-3000-479 (09/89)

9713515.2897

84163 OVERNIGHT DELIVERY

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (Code obtained from PROPERTY MANAGEMENT)
WESTINGHOUSE HANFORD Co.		WB90-0016

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: AIRBORNE	☒ Contractor	☐ Vendor
Shipped to: WEYERHAUSER Co. 32901 32nd DRIVE SOUTH FEDERAL WAY, WA 98003	Off-site Custodian: KARI DOERSER	Full Title: MANAGER

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1 84163	IGLOO #14 POLYCOOLER. GROUNDWATER SAMPLES PACKED IN WET ICE AND VERMICULITE. NONHAZARDOUS. SAMPLE #s: B0004B, B0004S2, B0004S3, B0004S5, B0004S7	NA

☐ 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 THE 1100 AREA.

BL#: 609433904

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING.

RM Clearance for Public Release: [signature]	RM Survey No: 520019	Date: 2/21/90
Location of Property (Area & Bldg.): 1100-EM-1	Contact: B. H. FORD	Phone: (509) 376-9234
Date Ready for Shipment: 2/22/90	Cost Code to be Charged: ~~WB0~~ WB1230	Approximate Date This Property will be Returned: NA
Originated By: L. D. WALKER	Date: 2/21/90	Authorized By: [signature] Date: 2/22/90
Signature and Name of Property Control	Custodian Date	Property Management Approval: [signature] Date: 2/22/90

PART II – TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No.	Date Issued	Purchase Order No.	Date Issued
[signature] Date: 2-22-90				

DISTRIBUTION

By Originator	Shipping Operation – Sign all Copies and Forward to:
White, Green, Yellow, Pink – Property Management Goldenrod – Retain	White – Property Management Yellow – Retain Green – Property Control Custodian (Issuing Office) Pink – Originator

6093

54-3000-479 (09/89)

9713515.2898

SIGNATURE AND TALLY RECORD

DISTRIBUTION INSTRUCTIONS:

(1) The SHIPPER will prepare Copy 1 thru 5 and retain Copy 5. Deliver Copy 1 thru 4 to the "origin carrier".

(2) The CARRIER will deliver Copy 1 thru 4 to the "destination carrier".

(3) The DESTINATION CARRIER will mail Copy 1 (reflecting signatures) to SHIPPER Copy 2 and 3 will be delivered to the "consignee" Retain Copy 4.

(4) The CONSIGNEE will mail Copy 2 to the shipper and retain Copy 3.

SECTION A – To be completed by the SHIPPER

1 Name of Shipper & Origin WESTINGHOUSE HANFORD COMPANY 2355 STEVENS DR PO BOX 1970 RICHLAND WA 99352	2 Protection Service Requested SIGNATURE SECURITY SERVICE 3 GBL or CBL Number
4 Name of Consignee & Destination WEYERHAUSER CO 32901 32ND DRIVE SOUTH FEDERAL WAY WA 98003	5 Transportation Control Number AIRBORNE AIRBILL NO. PSC 609433904 RO# W90-0006 #75
6 Routing AIRBORNE PSC 609433904	7 Weight 84 LBS
8 Special Instructions OVERNIGHT & S.S.S.	9 Date Shipment Tendered to Carrier & Name of Carrier 02-22-90
10 Number of Pieces & Type of Package(s) *(for unsealed loads only)* or Conveyance Identification & Seal Numbers *(for sealed loads only)* 1 IGLOO #14 POLYCOOLER	11 Freight Classification Description B00048, B00052, B00053, B00055, B00057 SAMPLES (NON-HAZARDOUS)

SECTION B – To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit.

Print Name of Person and Company Represented	Station Interchange Point Destination	Signature of Person Accepting Custody	Time/Date
JOYCE DEMAREST	WESTINGHOUSE RICHLAND WA	Joyce DeMarest	02-22-90
MIKE WILSON	WESTINGHOUSE RICHLAND WA	Mike Wilson	02-22-90
Debra Walters	PSC	Debra Walters	2-22-90
Steven Greenwood	weyerhaeuser	Steven Greenwood	2-23-90 9:04 AM
T Ferrotti	weyco	T Ferrotti	2.23.90 930A

PLEASE SIGN AND RETURN A COPY TO: WESTINGHOUSE HANFORD COMPANY
ATTN: SHIPPING DEPARTMENT
PO BOX 1970, G2-06
RICHLAND WA 99352

0094

BC-6000 3-2 (07 89)

9713515.2899

SIGNATURE AND TALLY RECORD

DISTRIBUTION INSTRUCTIONS:

(1) The SHIPPER will prepare Copy 1 thru 5 and retain Copy 5. Deliver Copy 1 thru 4 to the "origin carrier".
(2) The CARRIER will deliver Copy 1 thru 4 to the "destination carrier".
(3) The DESTINATION CARRIER will mail Copy 1 (reflecting signatures) to SHIPPER Copy 2 and 3 will be delivered to the "consignee" Retain Copy 4.
(4) The CONSIGNEE will mail Copy 2 to the shipper and retain Copy 3.

SECTION A – To be completed by the SHIPPER

1. Name of Shipper & Origin WESTINGHOUSE HANFORD CO 2355 STEVENS DRIVE PO BOX 1970 RICHLAND WA 99352	2. Protection Service Requested SIGNATURE SECURITY SERVICE 3. GBL or CBL Number
4. Name of Consignee & Destination WEYERHAEUSER CO 32901 32ND DRIVE SOUTH FEDERAL WAY WA 98003	5. Transportation Control Number AIRBORNE # PSC 617690312 W90-0006#76
6. Routing AIRBORNE # PSC 617690312 AIRBILL NO.	7. Weight 73 LBS
8. Special Instructions	9. Date Shipment Tendered to Carrier & Name of Carrier 02-26-90
10. Number of Pieces & Type of Package(s) *(for unsealed loads only)* or Conveyance Identification & Seal Numbers *(for sealed loads only)* 1 IGLOO #19A POLYCOOLER	11. Freight Classification Description B00058, B00059, B00061 SAMPLES (NON-HAZARDOUS)

SECTION B – To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit.

Print Name of Person and Company Represented	Station Interchange Point Destination	Signature of Person Accepting Custody	Time/Date
JOYCE DEMAREST	WESTINGHOUSE RICHLAND WA	[illegible]	1440 /02/26/90
MIKE WILSON	WESTINGHOUSE RICHLAND WA	[illegible]	1440 / 02-26-90
Delva Walters	PSC	Delva Walters	1530 2-26-90
E Robert [illegible]	SPF	[illegible]	0900 2-27
Steven Gerlund	weyerhaeuser	[illegible]	10:23 : 2-27-90
T PERROTTI	Weyco	[illegible]	1045 2-27-90

PLEASE SIGN AND RETURN A COPY TO: WESTINGHOUSE HANFORD COMPANY
ATTN: SHIPPING DEPARTMENT
~~PO BOX 1970, G2-06~~
RICHLAND WA 99352

0098

BC-6000 322 (07 89)

9713515.2900

SIGNATURE AND TALLY RECORD

DISTRIBUTION INSTRUCTIONS:

(1) The SHIPPER will prepare Copy 1 thru 5 and retain Copy 5. Deliver Copy 1 thru 4 to the "origin carrier".

(2) The CARRIER will deliver Copy 1 thru 4 to the "destination carrier".

(3) The DESTINATION CARRIER will mail Copy 1 (reflecting signatures) to SHIPPER. Copy 2 and 3 will be delivered to the "consignee". Retain Copy 4.

(4) The CONSIGNEE will mail Copy 2 to the shipper and retain Copy 3.

SECTION A – To be completed by the SHIPPER

1. Name of Shipper & Origin WESTINGHOUSE HANFORD CO 2355 STEVENS DR PO BOX 1970 RICHLAND WA 99352	2. Protection Service Requested SIGNATURE SECURIT:Y SERVICE 3. GBL or CBL Number
4. Name of Consignee & Destination WEYERHAEUSER COMPANY 32901 32ND DRIVE SOUTH FEDERAL WAY WA 98003	5. Transportation Control Number W90-0-0006#77
6. Routing AIR BILL NUMBER AIRBORNE PSC 617690323	7. Weight 82 LBS
8. Special Instructions SATURDAY DELIVERY	9. Date Shipment Tendered to Carrier & Name of Carrier 3-2-90 AIRBORNE
10. Number of Pieces & Type of Package(s) *(for unsealed loads only)* or Conveyance Identification & Seal Numbers *(for sealed loads only)*. 1 IGLOO #17 POLYCOOLER	11. Freight Classification Description #B00063, B00064, B00066, B00068 SAMPLES (NON-HAZARDOUS)

SECTION B – To be completed by each person accepting custody of classified or protected material requiring the use of transportation protective service during transit.

Print Name of Person and Company Represented	Station Interchange Point Destination	Signature of Person Accepting Custody	Time/Date
JOYCE DEMAREST	WESTINGHOUSE RICHLAND WA	Joyce DeMarest	1440 /3-2-90
MIKE WILSON	WESTINGHOUSE RICHLAND WA	Mike Wilson	1440 / 3-2-90
Debra Walters	PSC	Debra Walters	1645 3-2-90
Ed DeHART	AIRBORNE SEA	[illegible]	0900 / 3-3-90
CARRI GREIN	AIRX SEA	[illegible]	1003 / 3-3-90
JAMES BRADBURY	WEYCO / FED WY.	[illegible]	1128 / 3-3-90
Teresa Perrotti	weyco	TERESA PERROTTI	8:00A 3-5-90
PLEASE SIGN AND RETURN	A COPY TO: WESTINGHOUSE HANFORD COMPANY ATTN: SHIPPING DEPARTMENT PO BOX 1970, G2-06 RICHLAND WA 99352		
			0103

BC-6000 322 (07 89)

9713515.2901

Westinghouse
Hanford Company

OSM INORGANIC DATA ASSESSMENT

DATE 3/18/90

REVIEWED BY JA Lerch

LABORATORY Weyerhaeuser

CASE # 01949

SDG # B0048D

SAMPLES/MATRIX

B0048D	B0055T	B0061T	B0068T
B0048T	B0057D	B0064D	• all water
B0053D	B0059D	B0064T	
B0053T	B0059T	B0066D	
B0055D	B0061D	B0066T	

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)	O	O	O	O
2. Blanks (III)	X	X	O	O
3. ICS (IV)	X			
4. Matrix Spike (V)	X	O	O	O
5. Duplicate Analysis (VI)	O	O	O	O
6. LCS (VII)	O	O		
7. Serial Dilution (IX)	X			
8. GFAA		X		
9. Holding Times (XIV)	O	O	O	O
10. Other QC See attachment				

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

OVERALL ASSESSSMENT: no major problems - all data acceptable with attached qualification

NOTES: "D" suffix indicates dissolved metals analysis (CN NR)
"T" indicates total metals

o Refer to the corresponding attachments for explanation of any problems.

9713515.2902

INORGANIC QC - Calibrations

Name JA Lerch Date 3/18/90

COMMENTS: - all ICV & CCV recoveries within control limits
- analysis run log check ok
- CN midrange std run; CN, Hg correlations acceptable

ACTION: none

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

9713515.2903

INORGANIC QC - Blanks

Name JA Lerch Date 3/18

COMMENTS: -possible trace contamination detected for Al, As, Ba, Cr, Fe, Ni, K, Se, Ag, Na, V, Zn Ca, Pb, Tl

ACTION: qualify associated sample results as per DSM guidelines

sample #	constituent	value/qual
B0048D	Al, As, Ni, K, V	U
B0048T	Al, Fe, K, V	U
B0053D	Al, As, V	U
B0053T	Al, As, Cr, Fe, V	U
B0055D	Al, As, Cr, Fe, V	U
B0055T	Al, As, Cr, Fe, Na, Tl, V	U
B0057T	Al, As, Fe, V	U
B0059D	Al, As, Cr, Fe, Ni, K, Se, V	U
B0059T	Al, As, Cr, Fe, K, V	U
B0061D	Al, As, Fe, K, Se, V, Zn	U
B0061T	Al, As, Cr, Fe, Pb, K, Se, V	U
B0064D	As, Cr, Pb, V, Zn	U
B0064T	As, Cr, Pb, V, Zn	U
B0066D	Al, As, Ca, Cr, Pb, Na, Zn	U
B0066T	Al, As, Ca, Cr Fe, Pb, Na, Zn	U
B0068T	Al, As, Ba, Ca, Cr Pb, Ni, Na, Zn	U

INORGANIC QC - ICS

Name JA Lerch Date 3/18

COMMENTS: - all ICS solution initial + final %R within limits
- possibility of false positives for Sb, Na
- possible negative interference for K

ACTION: qualify associated sample results as per OSM guidelines

sample #	constituent	value/qual
all	Na	J
with the following exceptions		
B0066D	Na	acceptable
B0066T	Na	w/out qual.
B0068T	Na	↓
B0048D	K	UJ
B0048T	↓	↓
B0059D	↓	↓
B0059T	↓	↓
B0061D	↓	↓
B0061T	↓	↓
B0066D	↓	↓
B0068T	↓	↓
B0066T	↓	↓

sample #	constituent	value/qual

9713515.2905

INORGANIC QC - Matrix Spike

Name JA Lerch Date 3/18

COMMENTS: B0048DS - all MS %R within control limits
B0048TS - Fe % R out of control limits (high bias) post diges
B0053DS - all recoveries within control limits
B0053TS - all recoveries within control limits

ACTION: qualify associated total metals Fe results as per OSM guidelines

sample #	constituent	value/qual
[redacted]	[redacted]	[redacted]
B0064T	Fe	J

- all others acceptable w/out qualification

sample #	constituent	value/qual

9713515.2906

INORGANIC QC - Duplicate Analysis

Name JA Lerch Date 3/18

COMMENTS: B0048DD - all RPD's within control limits where applicable
B0048TD - all RPD's within control limits where app.
B0053DD - all RPD's within limits
B0053TD - all RPD's within limits

ACTION: none

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

9713515.2907

INORGANIC QC - LCS

Name JA Lerch Date 3/18

COMMENTS: -all aqueous LCS results within control limits

ACTION: none

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

INORGANIC QC - Serial Dilution

Name JA Lerch Date 3/18

COMMENTS: B0048DL - Na %D out of control limits; all others ok
B0048TL - Na %D out of control limits; all others ok
- No evidence of negative interference

ACTION: qualify associated sample results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
all	Na	J			
- with the following exceptions					
B0066D	Na	UJ			
B0066T	↓	↓			
B0068T					

9713515.2909

INORGANIC QC - Holding Times

Name JA Lerch Date 3/18

COMMENTS: all HT requirements met

ACTION: none

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

9713515.2910

INORGANIC QC - GFAA

Name JA Lerch Date 3/18

COMMENTS: MSA - no MSA were performed
- furnace analytical spike out of control on some samples for As, Se, Tl, Pb (see below)
- no MSA required

ACTION: qualify associated data as per ASM guidelines

GFAA spikes out

sample #	constituent	value/qual	sample #	constituent	value/qual
B0048D	Tl	acceptable			
B0048T	As	acceptable			
B0053D	Tl	acceptable			
B0057D	Tl	acceptable			
B0059D	Tl	UJ			
	As	acceptable			
	Se	acceptable			acceptable
B0061D	Tl	acceptable			
B0064D	Tl	UJ			
B0064T	Tl	UJ			
	Se	UJ			

9713515.2911

INORGANIC QC - other

Name JA Lerch Date 3/18

COMMENTS: No trends in data to indicate loss off sensitivity of decrease in performance

ACTION: none

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

9713515.2912

U.S. EPA - CLP

1-A

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0048D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45439

Level (low/med): LOW Date Received: 02/23/90

% 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	81.1	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.9	~~B~~	U	F
7440-39-3	Barium	8.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	23500			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6.0	U		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	4830	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	13.5	~~B~~	U	P
7440-09-7	Potassium	733	~~B~~	UJ	P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2440	~~B~~	E J	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.8	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

JJ 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2913

U.S. EPA - CLP

1-b

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0048T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45440

Level (low/med): LOW Date Received: 02/23/90

% 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	86.2	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	8.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	23700			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	14.4	~~B~~	N U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	5110			P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	798	~~B~~	UJ	P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2700	~~B~~	E J	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.1	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide	10.0	U		AC

JJ 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2914

U.S. EPA - CLP

1-C

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0053D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45442

Level (low/med): LOW Date Received: 02/23/90

% 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	97.6	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.1	~~B~~	U	F
7440-39-3	Barium	10.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	26400			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron	6.0	U		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	5020			P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	1840	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	3510	~~B~~	E J	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	4.3	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

JJ 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2915

U.S. EPA - CLP

1-D

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0053T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45443

Level (low/med): LOW Date Received: 02/23/90

% 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	100	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	4.9	~~B~~	U	F
7440-39-3	Barium	14.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	25900			P
7440-47-3	Chromium	13.4	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	53.3	~~B~~	N U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	4720	B		P
7439-96-5	Manganese	2.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	1720	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	3440	~~B~~	E J	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	4.3	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide	10.0	U		AC

J 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2916

U.S. EPA - CLP

1-E

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0055D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45444

Level (low/med): LOW Date Received: 02/23/90

% 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	120	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.7	~~B~~	U	F
7440-39-3	Barium	42.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	63200			P
7440-47-3	Chromium	3.5	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	16.1	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	12500			P
7439-96-5	Manganese	1.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	6990			P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	20100	J	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	13.1	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

JL 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2917

U.S. EPA - CLP

EPA SAMPLE NO.

1-F

INORGANIC ANALYSIS DATA SHEET

B0055T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45445

Level (low/med): LOW Date Received: 02/23/90

% 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	76.8	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.1	~~B~~	U	F
7440-39-3	Barium	42.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	64200			P
7440-47-3	Chromium	7.7	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.3	B		P
7439-89-6	Iron	61.7	~~B~~	N U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	12800			P
7439-96-5	Manganese	2.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.4	~~B~~	U	P
7440-09-7	Potassium	7070			P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	20000	J	E	P
7440-28-0	Thallium	1.1	~~B~~	U	F
7440-62-2	Vanadium	13.1	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide	10.0	U		AC

JL 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2918

U.S. EPA - CLP

EPA SAMPLE NO.

1-G

INORGANIC ANALYSIS DATA SHEET

B0057D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45446

Level (low/med): LOW Date Received: 02/23/90

% 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	91.4	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	4.8	~~B~~	U	F
7440-39-3	Barium	20.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	30600			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	13.5	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	5680			P
7439-96-5	Manganese	1.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	3880	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	6190	J	E	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	10.4	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

JL 3/10/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2919

U.S. EPA - CLP

EPA SAMPLE NO.

1-H

INORGANIC ANALYSIS DATA SHEET

B0059D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45567

Level (low/med): LOW Date Received: 02/27/90

% 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	93.2	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.7	~~B~~	U	F
7440-39-3	Barium	10.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	22600			P
7440-47-3	Chromium	5.8	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	33.8	~~B~~	U	P
7439-92-1	Lead	5.0			F
7439-95-4	Magnesium	4670	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	14.5	~~B~~	U	P
7440-09-7	Potassium	760	~~B~~	UJ	P
7782-49-2	Selenium	1.4	~~B~~	U	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2750	~~B~~	E J	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.1	~~B~~	U	P
7440-66-6	Zinc	29.1			P
	Cyanide				NR

JL 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2920

U.S. EPA - CLP

EPA SAMPLE NO.

1 - I

INORGANIC ANALYSIS DATA SHEET

B0059T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45568

Level (low/med): LOW Date Received: 02/27/90

% 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	90.6	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.4	~~B~~	W U	F
7440-39-3	Barium	11.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	22700			P
7440-47-3	Chromium	4.2	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	24.5	~~B~~	N U	P
7439-92-1	Lead	4.0	U		F
7439-95-4	Magnesium	4770	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	841	~~B~~	UJ	P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2700	~~B~~	E J	P
7440-28-0	Thallium	1.0	~~U~~	W	F
7440-62-2	Vanadium	2.8	~~B~~	U	P
7440-66-6	Zinc	19.0	B		P
	Cyanide	10.0	U		AC

JJ 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2921

U.S. EPA - CLP

1-J

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45569

Level (low/med): LOW Date Received: 02/27/90

% 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	122	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	3.0	~~B~~	U	F
7440-39-3	Barium	12.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	25100			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	51.6	~~B~~	U	P
7439-92-1	Lead	3.3			F
7439-95-4	Magnesium	4930	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	1020	~~B~~	UJ	P
7782-49-2	Selenium	1.9	~~B~~	U	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2790	~~B~~	E J	P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.8	~~B~~	U	P
7440-66-6	Zinc	7.0	~~B~~	U	P
	Cyanide				NR

JL 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2922

U.S. EPA - CLP

EPA SAMPLE NO.

1-K

INORGANIC ANALYSIS DATA SHEET

B0061T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45570

Level (low/med): LOW Date Received: 02/27/90

% 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	83.7	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.7	~~B~~	U	F
7440-39-3	Barium	11.6	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	26000			P
7440-47-3	Chromium	4.2	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	7.5	B		P
7439-89-6	Iron	13.5	~~B~~	N U	P
7439-92-1	Lead	2.4	~~B~~	U	F
7439-95-4	Magnesium	5200			P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	1200	~~B~~	UJ	P
7782-49-2	Selenium	1.6	~~B~~	U	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2900	~~B~~	E J	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	3.6	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide	10.0	U		AC

JL 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2923

U.S. EPA - CLP

1-L

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45793

Level (low/med): LOW Date Received: 03/03/90

% 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	1350			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.6	~~B~~	U	F
7440-39-3	Barium	65.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	56400			P
7440-47-3	Chromium	8.8	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	1820	J		P
7439-92-1	Lead	4.4	U		F
7439-95-4	Magnesium	12900			P
7439-96-5	Manganese	121			P
7439-97-6	Mercury	0.50	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	4160	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	18900	J	E	P
7440-28-0	Thallium	1.0	UJ	W	F
7440-62-2	Vanadium	5.2	~~B~~	U	P
7440-66-6	Zinc	6.9	~~B~~	U	P
	Cyanide				NR

JL 3/18/90

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLOUDY Artifacts:

Comments:

9713515.2924

U.S. EPA - CLP

1-M

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45794

Level (low/med): LOW Date Received: 03/03/90

% 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	1960			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.3	~~B~~	U	F
7440-39-3	Barium	137	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	144000			P
7440-47-3	Chromium	4.2	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	2810	J	N	P
7439-92-1	Lead	4.3	U		F
7439-95-4	Magnesium	32100			P
7439-96-5	Manganese	276			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	11400			P
7782-49-2	Selenium	1.0	~~U~~	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	49200	J	E	P
7440-28-0	Thallium	1.0	~~U~~	W	F
7440-62-2	Vanadium	13.9	~~B~~	U	P
7440-66-6	Zinc	5.7	~~B~~	U	P
	Cyanide	10.0	U		AC

J 3/18/90

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLOUDY Artifacts:

Comments:

9713515.2925

U.S. EPA - CLP

1-N

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066D

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45795

Level (low/med): LOW Date Received: 03/03/90

% 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	100	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.1	~~B~~	U	F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	32.0	~~B~~	U	P
7440-47-3	Chromium	2.3	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6.0	U		P
7439-92-1	Lead	2.6	~~B~~	U	F
7439-95-4	Magnesium	297	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	271	~~U~~		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	462	~~B~~	E UJ	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	3.6	~~B~~	U	P
	Cyanide				NR

3/8/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2926

U.S. EPA - CLP

1-0

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45796

Level (low/med): LOW Date Received: 03/03/90

% 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	95.1	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.3	~~B~~	U	F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	36.1	~~B~~	U	P
7440-47-3	Chromium	2.3	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	13.5	~~B~~	N U	P
7439-92-1	Lead	2.7	~~B~~	U	F
7439-95-4	Magnesium	297	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	271	~~U~~		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	574	~~B~~	E UJ	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	9.3	~~B~~	U	P
	Cyanide	10.0	U		AC

JL 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2937

U.S. EPA - CLP

1-P

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B0048D

Matrix (soil/water): WATER Lab Sample ID: 45797

Level (low/med): LOW Date Received: 03/03/90

% 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	96.3	~~B~~	U	P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.9	~~B~~	U	F
7440-39-3	Barium	1.7	~~B~~	U	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	47.6	~~B~~	U	P
7440-47-3	Chromium	2.3	~~B~~	U	P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6.0	U	N	P
7439-92-1	Lead	5.7	U		F
7439-95-4	Magnesium	297	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.2	~~B~~	U	P
7440-09-7	Potassium	271	~~U~~		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	494	~~B~~	E UJ	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	7.4	~~B~~	U	P
	Cyanide	10.0	U		AC

JL 3/18/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713515.2928

ORGANIC QC - Surrogate Recovery

Name JA Lerch Date 3/17

COMMENTS: VOA - B0061T + RE - S1 out of control limits low bias (most likely a matrix problem)
- B0059TMSD - S1 recovery out of control (low) insufficient sample for reanalysis
SemiVOA - all surrogates within control limits
Pest - all recoveries within limits

ACTION: qualify associated sample results as per OSM guidelines

sample #	constituent	value/qual
B0061T	all	UJ
B0061TRE	all	UJ
with the following exceptions		
B0061T	chloroform	4J
B0061TRE	chloroform	3J

* Report results for B0061T

sample #	constituent	value/qual

9713515.2929

ORGANIC QC - Holding Times

Name JA Lerch Date 3/17

COMMENTS: VOA - all HT requirements met
SemiVOA - all HT requirements met
PEST - all HT requirements met

ACTION: none

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

9713515.2990

ORGANIC QC - MS/MSD

Name JA Lerch Date 3/17

COMMENTS: VOA-(B0059TMS+MSD) - benzene MS recovery (high bias) & toluene RPD out of control limits

SemiVOA - (B0055TMS+MSD) - all recoveries & RPD's within limits

Pest - (B0055TMS+MSD) - all recoveries & RPD's within control limits

ACTION: none

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

9715515.2941

ORGANIC QC - Blanks

Name JA Lerch Date 3/17

COMMENTS: VOA - MeCl, acetone detected in blanks
SemiVOA- bis(2-ethylhexyl)phthalate detected in SBLKW2
Pest- no contaminants detected in blanks
• all method blank summaries ok

ACTION: qualify associated results as per OSM guidelines

	sample #	constituent	value/qual
VOA	B0052T	acetone	U
	B0058T	$MeCl_2$	U
	B0063T	acetone	U
	B0066T	$MeCl_2$	U
		acetone	U
	B0068T	$MeCl_2$	U
SemiVOA	B0059T	bis(2-ethylhexyl) phthalate	10U

sample #	constituent	value/qual

ORGANIC QC - GC/MS Tune

Name JA Lerch JL Date 3/17

COMMENTS: VOA - all GC tune/mass calibration criteria met

SemiVOA - all GC tune/mass calibration criteria met

ACTION: none

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

ORGANIC QC - Calibrations

Name JA Lerch Date 3/17

COMMENTS: VOA - all initial and continuing cal. results accept
SemiVOA - all IC + CC results within limits
Pest - 72 hr analytical sequence requirements met
- cont. cal. factor %D within control limits
- linearity %RSD check out of control limits for DDT;
3 pt std curve plotted for calibration

ACTION: none

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

9713515.2934

ORGANIC QC - Internal Standards

Name JA Lerch Date 3/17

COMMENTS: ~~VOA~~ - all IS area counts, RT shifts within limits

SemiVOA - B0064T 1,5G area count low; RT ok
same problem on reanalysis (most likely matrix problem)
- all other area counts, RT shifts ok

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual
B0064FT	all	UJ

Report results for B0064T (not B0064TRE)

sample #	constituent	value/qual

9716515.2935

ORGANIC QC - Instrument Performance (pest)

Name JA Lerch Date 3/17

COMMENTS: - Endrin/DDT % breakdown check ok
- DBC RT shift %D ok for all SDG + Std samples
- All DDT rt's >12 min
- all RT window criteria met

ACTION: none

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

9713515.2936

ORGANIC QC - Other

Name JA Lorch Date 3/17

COMMENTS: —

ACTION: —

sample #	constituent	value/qual	sample #	constituent	value/qual
—					

Westinghouse Hanford Company

9713515.2937

OSM ORGANIC DATA ASSESSMENT

DATE 3/17/90

REVIEWED BY JA Lerch

LABORATORY Weyerhaeuser

CASE # 01949

SDG # B0048D

SAMPLES/MATRIX B0048T B0058T B0066T B0052T B0059T B0068T B0053T B0061T all water B0055T B0063T B0057T B0064T

DATA ASSESSMENT SUMMARY

	VOA	ABN	PEST
1. Holding Times (Form I)	O	O	O
2. Surrogate Recovery (II)	X	O	O
3. Matrix Spike/ MSD (III)	X	O	O
4. Blanks (IV)	X	X	O
5. GC/MS Tune (V)	O	O	
6. Calibration (VI-VII; VIII pest)	O	O	O
7. Internal Standards (VIII)	O	X	
8. Instr. Perform. (IX pest)			O
9. Other ( ) none			

O = 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 data acceptable w/attached qualifiers

NOTES : SemiVOA, PEST not requested for samples B0052T, 57T, 58T, 63T

Refer to the corresponding attachments for explanation of any problems.

54 7900 046

9213515 2978

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0052T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45441

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1394

Level: (low/med) LOW Date Received: 02/23/90

% Moisture: not dec. ____ Date Analyzed: 02/27/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1 ~~0.8~~ ~~BJ~~	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	3	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

JJ 3/7/90

9713515.2939

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0058T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45566

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1406

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

JJ 3/17

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1408

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	4	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

3/17

9713515.2941A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0061TRE

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45570RE

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1411

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. ____ Date Analyzed: 02/28/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

3/1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0063T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45792

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1454

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1 ~~0.8~~ ~~J~~	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	7	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

JF 3/17/

9713515.2948

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0066T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45796

Sample wt/vol: 25.0 (g/mL) ML m Lab File ID: A1456

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	3	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	2	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

JL 3/17/

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0068T

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 1949 SAS No.: _____ SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45797

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A1457

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. ____ Date Analyzed: 03/06/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

JJ 3/17

FORM I VOA 1/87 Rev.

9713515.2945

IC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0059T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45568

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0301B

Level: (low/med) LOW Date Received: 02/27/90

% Moisture: not dec. dec. Date Extracted: 02/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/01/90

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~~ 8	~~BN~~ 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

JL 3/17/90

9713515.2846

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0308B

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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

JL 3/17/

9713515.2847

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064T

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0308B

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/08/90

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

JJ 3/17

97135152948

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064TRE

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0309A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/90

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

Report Results for B0064LT

3/17/

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0064TRE

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0309A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/90

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

Report Results for B0064T

3/17/90

9713515.F2950

EPA SAMPLE NO.

B0064TRE

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 01949 SAS No.: SDG No.: B0048D

Matrix: (soil/water) WATER Lab Sample ID: 45794RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2BN0309A

Level: (low/med) LOW Date Received: 03/03/90

% Moisture: not dec. dec. Date Extracted: 03/07/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/90

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	8.03	16	JX
2. 115-96-8	ETHANOL, 2-CHLORO-, PHOSPHAT	21.64	36	JX

Report Results for B0064T

3/17/90

FORM I SV-TIC

1987-Rev.