OPERABLE UNIT SUMMARY REPORT

WEYERHAEUSER EVERETT EAST SITE

Prepared for

Weyerhaeuser Company
101 East Marine View Drive
Everett, Washington

March 17, 1995

Prepared by

EMCON
18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016

Project 0141-037.64

CONTENTS

ILLUSTRATIONS

Figures

1 INTRODUCTION AND OPERABLE UNIT BOUNDARIES

The Weyerhaeuser Company's Everett facility is presently listed as one site pursuant to site ranking procedures of the Model Toxics Control Act (MTCA) and its implementing regulations (Chapter 173-340 WAC). By letter to the Washington State Department of Ecology (Ecology), dated January 7, 1994, Weyerhaeuser Company requested that the site be divided into the seven "operable units," that follow and are shown on Figure 1-1:

- East Site
- West Site
- Former Mill E/Wood Treatment Site
- East Sediments Site
- South End Residual Wood Storage Site
- Smith Island Woodwaste Recovery Site
- Marine View Drive Site

Division of the site into separate units will facilitate reporting cleanup actions and subsequent requests for determinations of "No Further Action" from Ecology for this large site. To facilitate site assessment and characterization, the East Site was further divided into eight areas (3 through 10). These areas were delineated based on historical site activities. Results of the East Site Phase 1 Assessment are provided in Attachment A at the back of this report.

Ecology responded to the request in a letter, dated March 16, 1994. The letter indicated that the site could be divided into operable units and that separate reports could be submitted to the agency under the Independent Remedial Action Program to request a "No Further Action" determination. To proceed, Ecology requested that the following information be submitted for each proposed operable unit:

1. A map with operable unit boundaries
2. A figure showing all available groundwater data across the site
3. A figure overlaying groundwater constituent plumes beneath the operable unit
4. A summary of groundwater data for the unit
5. A summary of soil constituent data for the unit
6. A summary of constituent sources for the unit

This report represents information compiled for the East Site operable unit only. Sections of this report correspond to the information Ecology requested, as numbered above.

The Weyerhaeuser Everett facility consists of more property than is included in the proposed operable units. These other properties are farm fields, Smith Island solid waste landfills, and process treatment ponds. They are regulated by the Department of Agriculture, state minimum functional standards, and NPDES, respectively. All Weyerhaeuser property is shown on Figure 1-1.

2 GROUNDWATER DATA

First round groundwater sampling activities were performed at the East Site in January 1993. Second, third, fourth, and fifth round groundwater sampling activities were performed at the East Site in May 1993, October 1993, February 1994, and September 1994, respectively. Results of the first round groundwater sampling activities are summarized in Section 3 of Attachment A at the back of this report. Results of the second, third, fourth, and fifth round groundwater sampling activities are summarized in Section 4 of this report and are shown on Figures 2-1A through 2-4B.

3 GROUNDWATER PLUMES

Groundwater plumes beneath the East Site have not been delineated at this time. Additional information is required to support determination of groundwater plumes. Groundwater samples were collected from more than one round of sampling activities at the East Site. Constituents detected in groundwater samples included petroleum hydrocarbons as diesel and oil, and arsenic. These constituents may be associated with former site and off-site manufacturing operations located near specific monitoring wells. Groundwater monitoring activities as summarized in Section 4.

4 SUMMARY OF GROUNDWATER DATA

Fourteen groundwater monitoring wells, designated MW-100s, MW-100d, MW-101s, MW-102s, MW-103s, MW-103d, MW-104s, MW-105s, MW-105d, MW-106s, MW-107s, MW-108s, MW-108d, and MW-109s, were installed at the East Site in January 1993. The "s" designated a well completed in the shallow aquifer encountered less than 5 feet below grade, and the "d" designated a well completed in the deep aquifer encountered more than 10 feet below grade.

Monitoring well MW-107s was damaged during September 1994. During October 1994, EMCON directed the abandonment of monitoring well MW-107s in accordance with WAC 173-160-415. A replacement monitoring well designated MW-107s(2) was constructed in the vicinity of former well MW-107s.

EMCON performed East Site groundwater sampling activities on five separate occasions: January 1993, May 1993, October 1993, February 1994, and September 1994. Results of the first round sampling event are included in *Phase 1 Assessment for Areas 3 through 10, Weyerhaeuser Everett East Site* (EMCON, 1994; provided as Attachment A). Results of the second, third, fourth, and fifth round sampling events are shown on Figures 2-1A through 2-4B presented at the end of the Operable Unit Summary Report.

Laboratory reports associated with the first three rounds of East Site groundwater sampling were validated by Hart Crowser in June 1994. The laboratory reports and the Hart Crowser data validation report are included in Attachment A. Additional groundwater data will be validated as East Site Assessment activities progress. Laboratory reports associated with the fourth and fifth rounds of East Site groundwater sampling are currently being validated by EMCON.

Elevated concentrations of petroleum hydrocarbons as diesel (i.e., above 1.0 mg/L) have been detected in groundwater samples collected from monitoring well MW-107s. Monitoring well MW-107s was located hydraulically downgradient from a former aboveground diesel tank. Due to elevated concentrations of heavy-end petroleum hydrocarbons have not been detected in any of the other East Site wells.

Relatively high concentrations of arsenic (above 1,000 µg/L) were detected in groundwater samples collected from monitoring well MW-108d during all five sampling rounds.

5 SUMMARY OF SOIL DATA

During August 1992, EMCON collected 27 soil samples from 21 test pits excavated near the proposed trestle alignment area on the East Site. All 27 soil samples were analyzed for petroleum hydrocarbons as diesel, and 20 samples were analyzed for PCBs and pentachlorophenol.

Petroleum hydrocarbons as diesel detected in 22 samples ranged from 3 to 5,400 milligrams per kilogram (mg/kg). PCBs detected in eight samples ranged from 0.006 to 0.570 mg/kg. Pentachlorophenol detected in ten samples ranged from 0.0008 to 0.206 mg/kg. Results of the above-referenced scope of work are reported in the Trestle Alignment Preload Area Summary Report (Attachment C).

A "Phase 1 Assessment" was conducted on the East Site between November 1992 and October 1993 (EMCON, 1994; provided as Attachment A). Soil samples were collected from 131 test pits, 5 soil borings, 2 soil excavations, and 1 soil stockpile. Based on laboratory results associated with the Phase 1 Assessment activities, soil constituents identified for the East Site were heavy-end petroleum hydrocarbons, PCBs, and pentachlorophenol. Heavy-end petroleum hydrocarbons were detected above 1,000 mg/kg in four general areas, PCBs were detected above 10 mg/kg in two general areas, and pentachlorophenol was not detected above 200 mg/kg.

Hart Crowser validated laboratory reports associated with East Site soil sampling activities in June 1994. The validated laboratory reports, including the Hart Crowser data validation report, are included in Attachment A-1

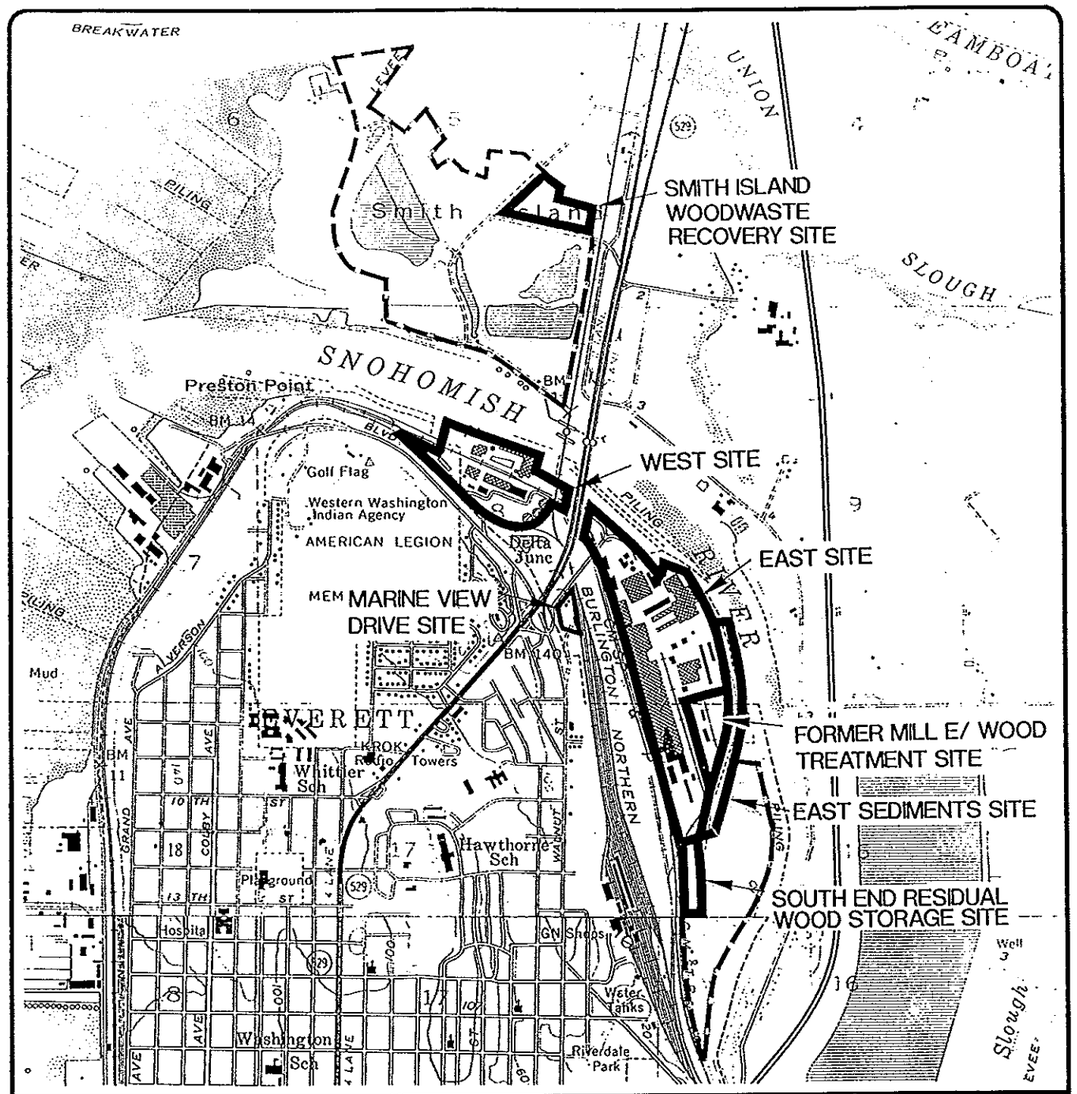
During June 1993, Weyerhaeuser performed an interim remedial action. This included excavation and off-site disposal of approximately 460 cubic yards of petroleum-hydrocarbon-impacted soil from a former fueling site in Area 3.

6 CONSTITUENT SOURCE AREAS

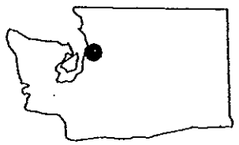
Based on the review of site specific historical photos, documentation, information on file at the Weyerhaeuser Mill, and results of the Phase 1 Assessment activities, the following constituent source areas have been identified:

- Former Mill B powerhouse and machine shops in Areas 7 and 9 where heavy-end petroleum hydrocarbons and PCBs have been detected.
- Former transformer location in Area 3 where PCBs have been detected.
- Two former fueling sites in Area 3 where heavy-end petroleum hydrocarbons have been detected. This soil has been excavated and removed from the site to an approved landfill facility.
- One former fueling site in Area 10 where heavy-end petroleum hydrocarbons have been detected

The general distribution of affected soil, and the locations of associated former manufacturing areas and locations of associated former features, are shown on Figure 6-1.



SOURCE: USGS 7.5 MINUTE QUADRANGLE, EVERETT, WASHINGTON 1973 AND MARYSVILLE, WASHINGTON 1973.



WASHINGTON

0 2000 4000

SCALE (Ft.)

N

LEGEND

OPERABLE UNIT BOUNDARY

WEYERHAUSER PROPERTY

EMCON Northwest, Inc.

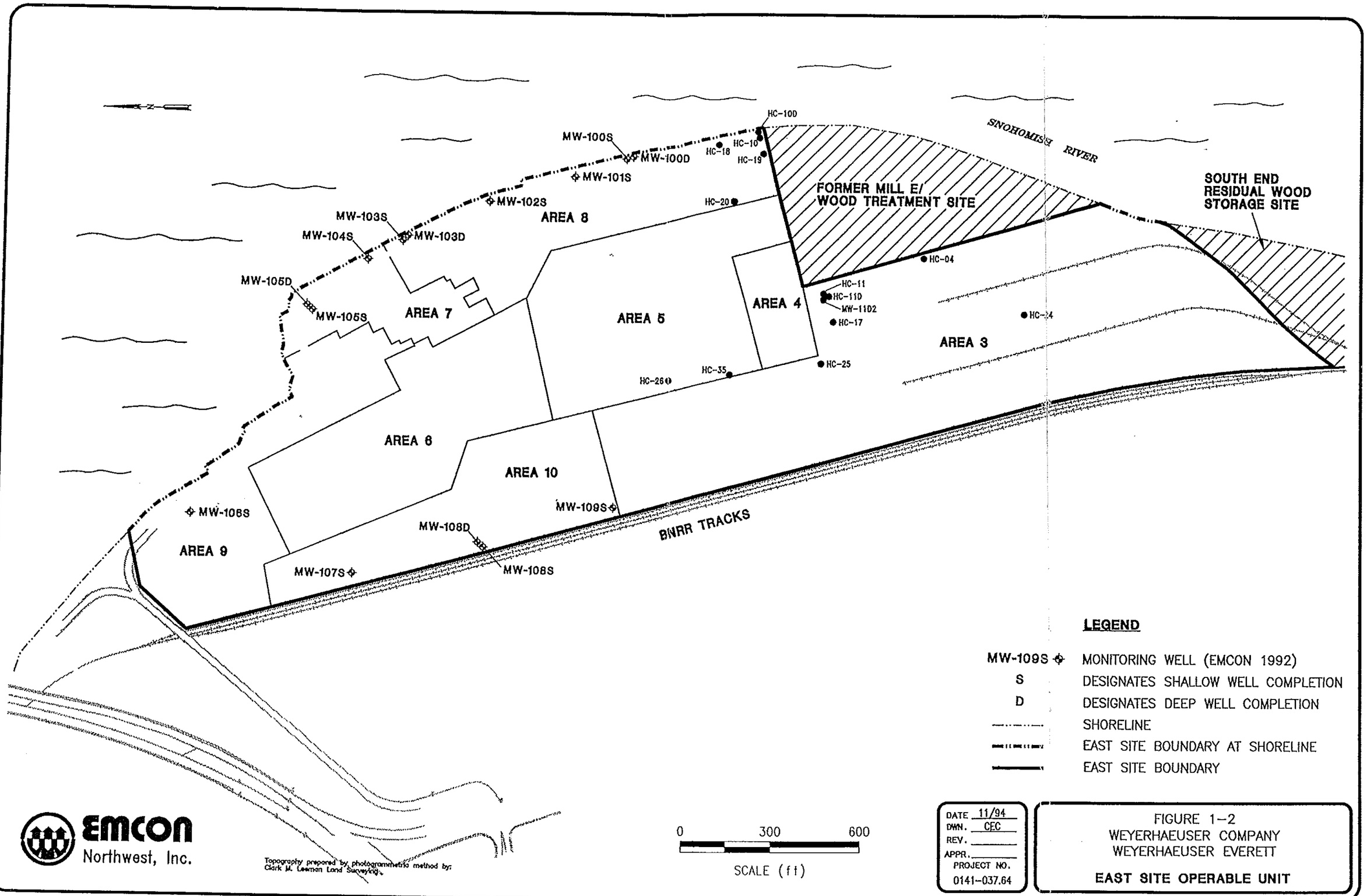
DATE 12/94
DWN. CEC
REV.
APPR.
PROJECT NO. 0141-037.64

Figure 1-1

WEYERHAEUSER COMPANY

WEYERHAEUSER EVERETT OPERABLE UNIT BOUNDARIES

1=1 1/23/95 G:\DWG\0141\037\64BLC27


HC-10D
MW-100S
MW-100D
HC-18
HC-10
HC-19
MW-101S
MW-102S
HC-20
MW-103S
MW-103D
MW-104S
MW-105D
MW-105S
AREA 8
AREA 7
AREA 5
AREA 4
AREA 6
AREA 10
AREA 9
AREA 3
SNOHOMISH RIVER
FORMER MILL E/
WOOD TREATMENT SITE
SOUTH END
RESIDUAL WOOD
STORAGE SITE
HC-04
HC-11
HC-11D
MW-11D2
HC-17
HC-24
HC-25
HC-35
HC-26
MW-106S
MW-107S
MW-108D
MW-108S
MW-109S
BNRR TRACKS
LEGEND
MW-109S MONITORING WELL (EMCON 1992)
S DESIGNATES SHALLOW WELL COMPLETION
D DESIGNATES DEEP WELL COMPLETION
SHORELINE
EAST SITE BOUNDARY AT SHORELINE
EAST SITE BOUNDARY
0 300 600
SCALE (ft)
EMCON
Northwest, Inc.
Topography prepared by photogrammetric method by:
Clark M. Leeman Land Surveying.
DATE 11/94
DWN. CEC
REV.
APPR.
PROJECT NO.
0141-037.64
FIGURE 1-2
WEYERHAEUSER COMPANY
WEYERHAEUSER EVERETT
EAST SITE OPERABLE UNIT
1=300 1/18/95 G:\DWG\0141\037\648LC10A

MW-100S	
TPH-G	ND
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	ND
Dissolved As	0.004

MW-101S	
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	NA
Toluene	NA
Ethylbenzene	NA
Xylene	NA
PCP	NA
Dissolved As	0.020

MW-102S	
TPH-G	ND
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	ND
Dissolved As	0.008

MW-103S	
TPH-G	ND
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	ND
Dissolved As	0.019

MW-104S	
TPH-G	NA
TPH-D	0.40
TPH-O	0.25
Benzene	NA
Toluene	NA
Ethylbenzene	NA
Xylene	NA
PCP	NA
Dissolved As	0.024

MW-105S	
TPH-G	ND
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	NA
Dissolved As	0.003

MW-106S	
TPH-G	ND
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	NA
Dissolved As	0.009

MW-107S	
TPH-G	ND
TPH-D	1.9
TPH-O	0.91
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	NA
Dissolved As	0.067

MW-108S	
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	NA
Toluene	NA
Ethylbenzene	NA
Xylene	NA
PCP	NA
Dissolved As	0.006

MW-109S	
TPH-G	ND
TPH-D	0.23
TPH-O	0.77
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	ND
Dissolved As	0.006

MW-100S (4.27)
MW-101S (4.43)
MW-102S (3.88)
MW-103S (3.09)
MW-104S (3.53)
MW-105S (3.81)
MW-106S (5.61)
MW-107S (6.83)
MW-108S (6.48)
MW-109S (6.25)

HC-10D, HC-10, HC-18, HC-19, HC-20, HC-04, HC-11, HC-11D, MW-11D2, HC-17, HC-24, HC-25, HC-35, HC-26D

AREA 3, AREA 4, AREA 5, AREA 6, AREA 7, AREA 8, AREA 9, AREA 10

SNOHOMISH RIVER

FORMER MILL E/ WOOD TREATMENT SITE

SOUTH END RESIDUAL WOOD STORAGE SITE

BNRR TRACKS

LEGEND

- MW-109S ⊕ — MONITORING WELL (EMCON)
- (6.25) — GROUND WATER ELEVATION (MSL, MAY 10, 1994)
- HC-24 ● — MONITORING WELL ASSOCIATED WITH FORMER MILL E/ WOOD TREATMENT SITE
- —·—·— SHORELINE
- —·—·— EAST SITE BOUNDARY SHORELINE
- ——— EAST SITE BOUNDARY

P/RAMETER	(mg/l)
TPH-G	ND
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	ND
Dissolved As	0.004

NA = NOT ANALYZED

ND = NOT DETECTED

Topography prepared by photogrammetric method by:
Clark M. Leaman Land Surveying

EMCON Northwest, Inc.

0 300 600

SCALE (ft)

DATE 11/94
DWN. CEC
REV.
APPR.
PROJECT NO. 0141-037.64

FIGURE 2-1A
WEYERHAEUSER COMPANY
EAST SITE OPERABLE UNIT

SECOND ROUND SHALLOW AQUIFER GROUNDWATER RESULTS

1=300 1/23/95 G:\DWG\0141\037\64BLC21

MW-100D	
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	NA
Toluene	NA
Ethylbenzene	NA
Xylene	NA
PCP	ND
Dissolved As	0.008

MW-103D	
TPH-G	NA
TPH-D	0.42
TPH-O	0.30
Benzene	NA
Toluene	NA
Ethylbenzene	NA
Xylene	NA
PCP	NA
Dissolved As	0.003

MW-105D	
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	NA
Toluene	NA
Ethylbenzene	NA
Xylene	NA
PCP	NA
Dissolved As	0.003

MW-108D	
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	NA
Toluene	NA
Ethylbenzene	NA
Xylene	NA
PCP	NA
Dissolved As	5.01

MW-100D (3.86)

MW-103D (0.25)

MW-105D (-1.02)

MW-108D (3.30)

HC-10D HC-10 HC-18 HC-19 HC-20 HC-04 HC-11 HC-11D MW-11D2 HC-17 HC-24 HC-25 HC-35 HC-26

SNOHOMISH RIVER

FORMER MILL E/ WOOD TREATMENT SITE

SOUTH END RESIDUAL WOOD STORAGE SITE

AREA 8 AREA 7 AREA 6 AREA 4 AREA 3 AREA 10 AREA 9

BNRR TRACKS

LEGEND

MW-108D ⊕ MONITORING WELL (EMCON)

(3.30) GROUND WATER ELEVATION (MSL, MAY 10, 1994)

HC-24 ● MONITORING WELL ASSOCIATED WITH FORMER MILL E/ WOOD TREATMENT SITE

SHORELINE

EAST SITE BOUNDARY SHORELINE

EAST SITE BOUNDARY

PARAMETER	(mg/l)
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	NA
Toluene	NA
Ethylbenzene	NA
Xylene	NA
PCP	NA
Dissolved As	5.01

NA = NOT ANALYZED

ND = NOT DETECTED

Topography prepared by photogrammetric method by: Clark M. Leeman Land Surveying

EMCON Northwest, Inc.

0 300 600

SCALE (ft)

DATE 11/94
DWN. CEC
REV.
APPR.
PROJECT NO. 0141-037.64

FIGURE 2-1B
WEYERHAEUSER COMPANY
EAST SITE OPERABLE UNIT

SECOND ROUND DEEP AQUIFER GROUNDWATER RESULTS

1-300 12-20-94 G:\DWG\0141\037\648LC22

MW-100D	
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	ND
Dissolved As	0.019

MW-103D	
TPH-G	NA
TPH-D	0.90
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	NA
Dissolved As	0.006

MW-105D	
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	1J
Ethylbenzene	ND
Xylene	1J
PCP	NA
Dissolved As	ND

MW-108D	
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	NA
Dissolved As	3.98

MW-100D (0.46)
MW-103D (-0.60)
MW-105D (-0.77)
MW-108D (1.72)

HC-10D
HC-10
HC-18
HC-19
HC-20
HC-04
HC-11
HC-11D
MW-11D2
HC-17
HC-24
HC-35
HC-25
HC-26

SNOHOMISH RIVER

FORMER MILL E/ WOOD TREATMENT SITE

SOUTH END RESIDUAL WOOD STORAGE SITE

AREA 3
AREA 4
AREA 5
AREA 6
AREA 7
AREA 8
AREA 9
AREA 10

BNRR TRACKS

LEGEND

MW-108D ⊕	MONITORING WELL (EMCON)
(1.72)	GROUND WATER ELEVATION (MSL, OCT 22, 1994)
HC-24 ●	MONITORING WELL ASSOCIATED WITH FORMER MILL E/ WOOD TREATMENT SITE
	SHORELINE
	EAST SITE BOUNDARY SHORELINE
	EAST SITE BOUNDARY

PARAMETER	(mg/l)
TPH-G	NA
TPH-D	ND
TPH-O	ND
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
PCP	NA
Dissolved As	3.98

NA = NOT ANALYZED

ND = NOT DETECTED

Topography prepared by photogrammetric method by: Clark M. Leeman Land Surveying

EMCON Northwest, Inc.

0 300 600

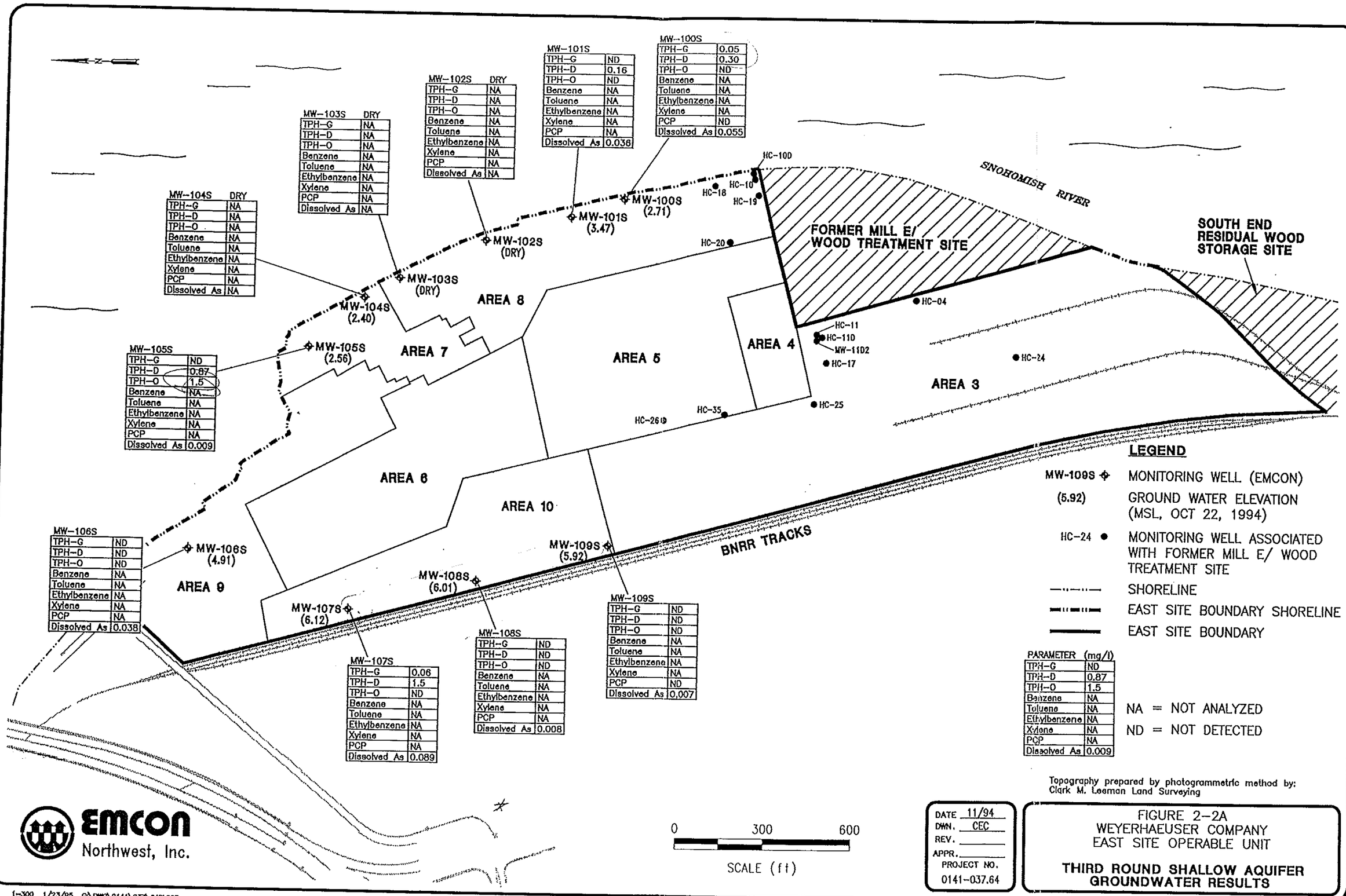
SCALE (ft)

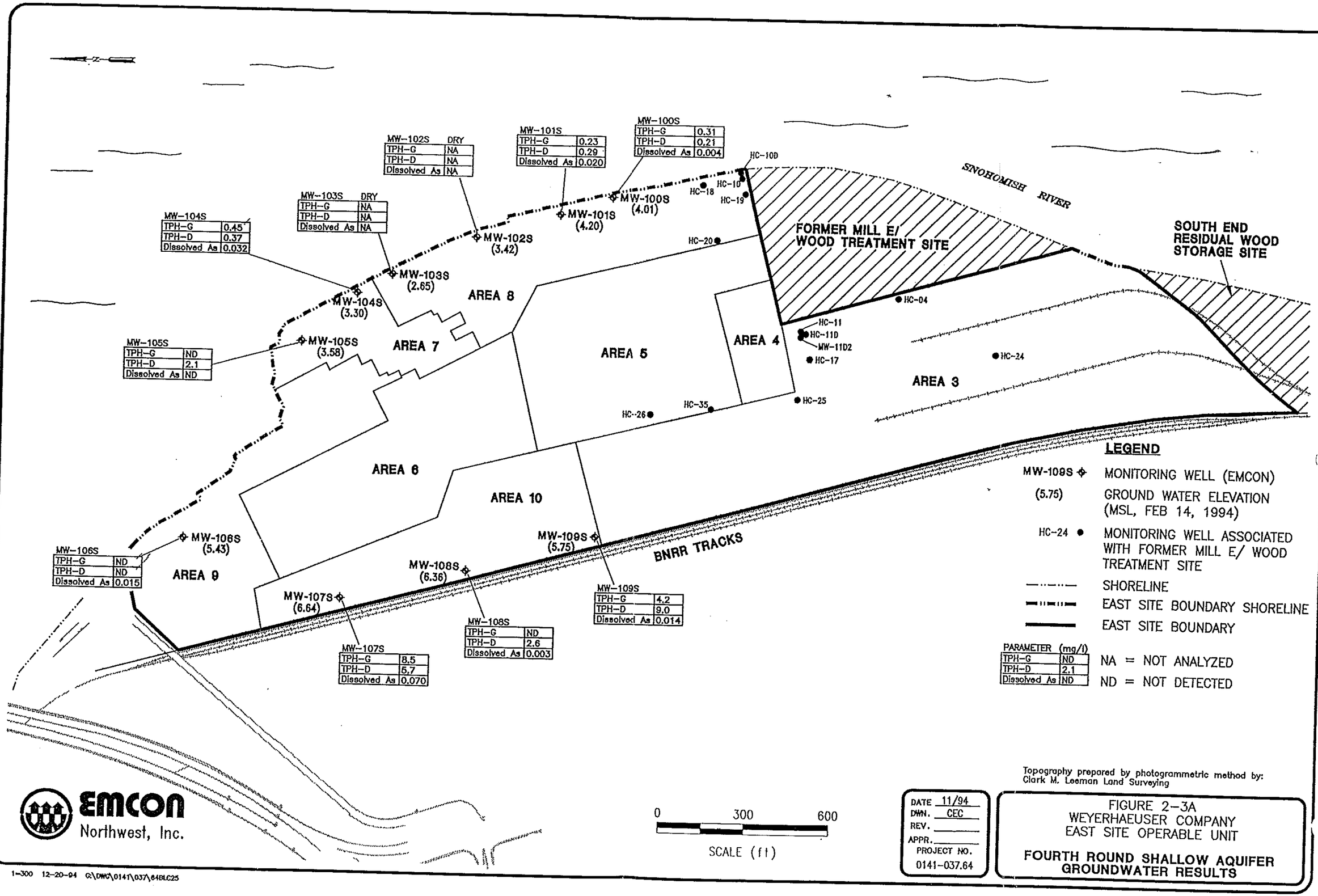
DATE	11/94
DWN.	CEC
REV.	
APPR.	
PROJECT NO.	0141-037.64

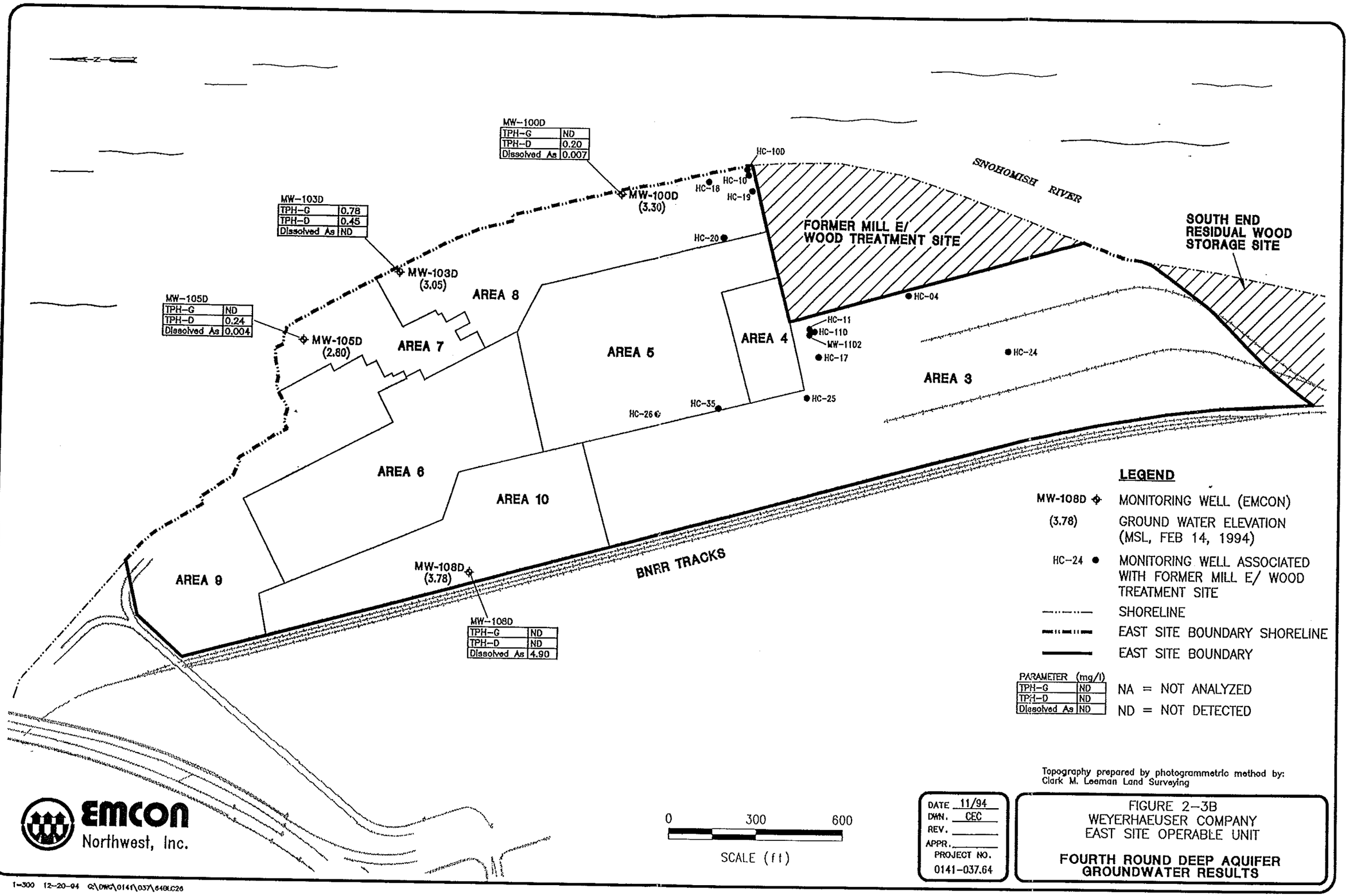
FIGURE 2-2B
WEYERHAEUSER COMPANY
EAST SITE OPERABLE UNIT

THIRD ROUND DEEP AQUIFER GROUNDWATER RESULTS

1=300 12-20-94 G:\DWG\0141\037\64BLC24


MW-101S
TPH-G ND
TPH-D 0.16
TPH-O ND
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As 0.038
MW-100S
TPH-G 0.05
TPH-D 0.30
TPH-O ND
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP ND
Dissolved As 0.055
MW-102S DRY
TPH-G NA
TPH-D NA
TPH-O NA
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As NA
MW-103S DRY
TPH-G NA
TPH-D NA
TPH-O NA
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As NA
MW-104S DRY
TPH-G NA
TPH-D NA
TPH-O NA
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As NA
MW-105S
TPH-G ND
TPH-D 0.87
TPH-O 1.5
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As 0.009
MW-106S
TPH-G ND
TPH-D ND
TPH-O ND
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As 0.038
MW-107S
TPH-G 0.06
TPH-D 1.5
TPH-O ND
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As 0.089
MW-108S
TPH-G ND
TPH-D ND
TPH-O ND
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As 0.008
MW-109S
TPH-G ND
TPH-D ND
TPH-O ND
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP ND
Dissolved As 0.007
MW-100S (2.71)
MW-101S (3.47)
MW-102S (DRY)
MW-103S (DRY)
MW-104S (2.40)
MW-105S (2.56)
MW-106S (4.91)
MW-107S (6.12)
MW-108S (6.01)
MW-109S (5.92)
HC-10D
HC-10
HC-18
HC-19
HC-20
HC-04
HC-11
HC-11D
MW-11D2
HC-17
HC-24
HC-25
HC-35
HC-26D
SNOHOMISH RIVER
FORMER MILL E/ WOOD TREATMENT SITE
SOUTH END RESIDUAL WOOD STORAGE SITE
AREA 3
AREA 4
AREA 5
AREA 6
AREA 7
AREA 8
AREA 9
AREA 10
BNRR TRACKS
LEGEND
MW-109S MONITORING WELL (EMCON)
(5.92) GROUND WATER ELEVATION (MSL, OCT 22, 1994)
HC-24 MONITORING WELL ASSOCIATED WITH FORMER MILL E/ WOOD TREATMENT SITE
SHORELINE
EAST SITE BOUNDARY SHORELINE
EAST SITE BOUNDARY
PARAMETER (mg/l)
TPH-G ND
TPH-D 0.87
TPH-O 1.5
Benzene NA
Toluene NA
Ethylbenzene NA
Xylene NA
PCP NA
Dissolved As 0.009
NA = NOT ANALYZED
ND = NOT DETECTED
0 300 600
SCALE (ft)
EMCON Northwest, Inc.
Topography prepared by photogrammetric method by: Clark M. Leeman Land Surveying
DATE 11/94
DWN. CEC
REV.
APPR.
PROJECT NO. 0141-037.64
FIGURE 2-2A
WEYERHAEUSER COMPANY
EAST SITE OPERABLE UNIT
THIRD ROUND SHALLOW AQUIFER GROUNDWATER RESULTS
1=300 1/23/95 G:\DWG\0141\037\649LC23


MW-100S
TPH-G 0.31
TPH-D 0.21
Dissolved As 0.004
MW-101S
TPH-G 0.23
TPH-D 0.29
Dissolved As 0.020
MW-102S DRY
TPH-G NA
TPH-D NA
Dissolved As NA
MW-103S DRY
TPH-G NA
TPH-D NA
Dissolved As NA
MW-104S
TPH-G 0.45
TPH-D 0.37
Dissolved As 0.032
MW-105S
TPH-G ND
TPH-D 2.1
Dissolved As ND
MW-106S
TPH-G ND
TPH-D ND
Dissolved As 0.015
MW-107S
TPH-G 8.5
TPH-D 5.7
Dissolved As 0.070
MW-108S
TPH-G ND
TPH-D 2.6
Dissolved As 0.003
MW-109S
TPH-G 4.2
TPH-D 9.0
Dissolved As 0.014
MW-100S (4.01)
MW-101S (4.20)
MW-102S (3.42)
MW-103S (2.65)
MW-104S (3.30)
MW-105S (3.58)
MW-106S (5.43)
MW-107S (6.64)
MW-108S (6.36)
MW-109S (5.75)
HC-10D
HC-10
HC-18
HC-19
HC-20
HC-04
HC-11
HC-11D
MW-11D2
HC-17
HC-24
HC-25
HC-35
HC-26
SNOHOMISH RIVER
FORMER MILL E/ WOOD TREATMENT SITE
SOUTH END RESIDUAL WOOD STORAGE SITE
AREA 3
AREA 4
AREA 5
AREA 6
AREA 7
AREA 8
AREA 9
AREA 10
BNRR TRACKS
LEGEND
MW-109S MONITORING WELL (EMCON)
(5.75) GROUND WATER ELEVATION (MSL, FEB 14, 1994)
HC-24 MONITORING WELL ASSOCIATED WITH FORMER MILL E/ WOOD TREATMENT SITE
SHORELINE
EAST SITE BOUNDARY SHORELINE
EAST SITE BOUNDARY
PARAMETER (mg/l)
TPH-G ND
TPH-D 2.1
Dissolved As ND
NA = NOT ANALYZED
ND = NOT DETECTED
0 300 600
SCALE (ft)
EMCON Northwest, Inc.
Topography prepared by photogrammetric method by: Clark M. Leeman Land Surveying
DATE 11/94
DWN. CEC
REV.
APPR.
PROJECT NO. 0141-037.64
FIGURE 2-3A
WEYERHAEUSER COMPANY
EAST SITE OPERABLE UNIT
FOURTH ROUND SHALLOW AQUIFER GROUNDWATER RESULTS
1=300 12-20-94 G:\DWG\0141\037\64BLC25



EMCON Northwest, Inc.

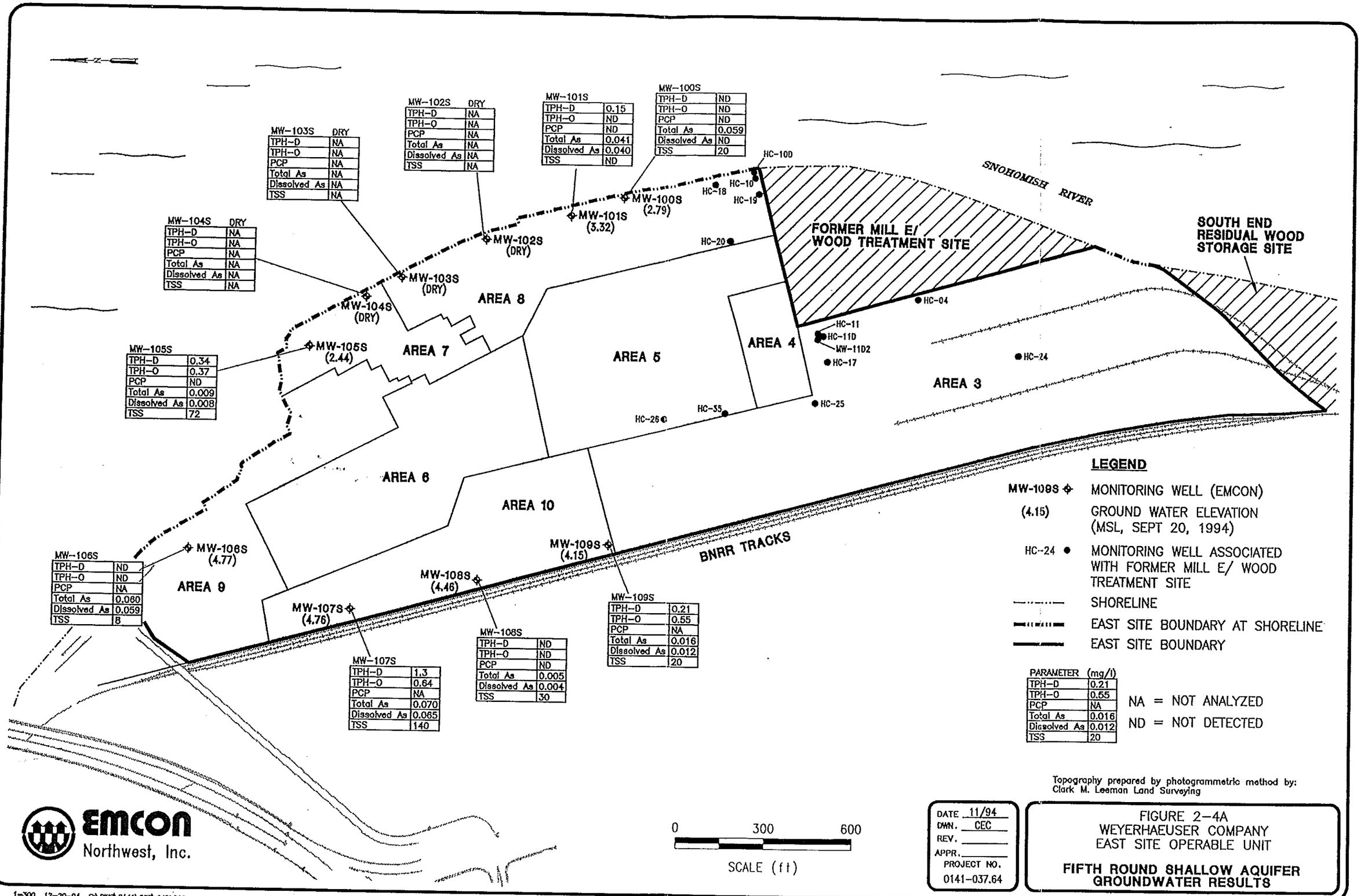
Topography prepared by photogrammetric method by: Clark M. Leeman Land Surveying

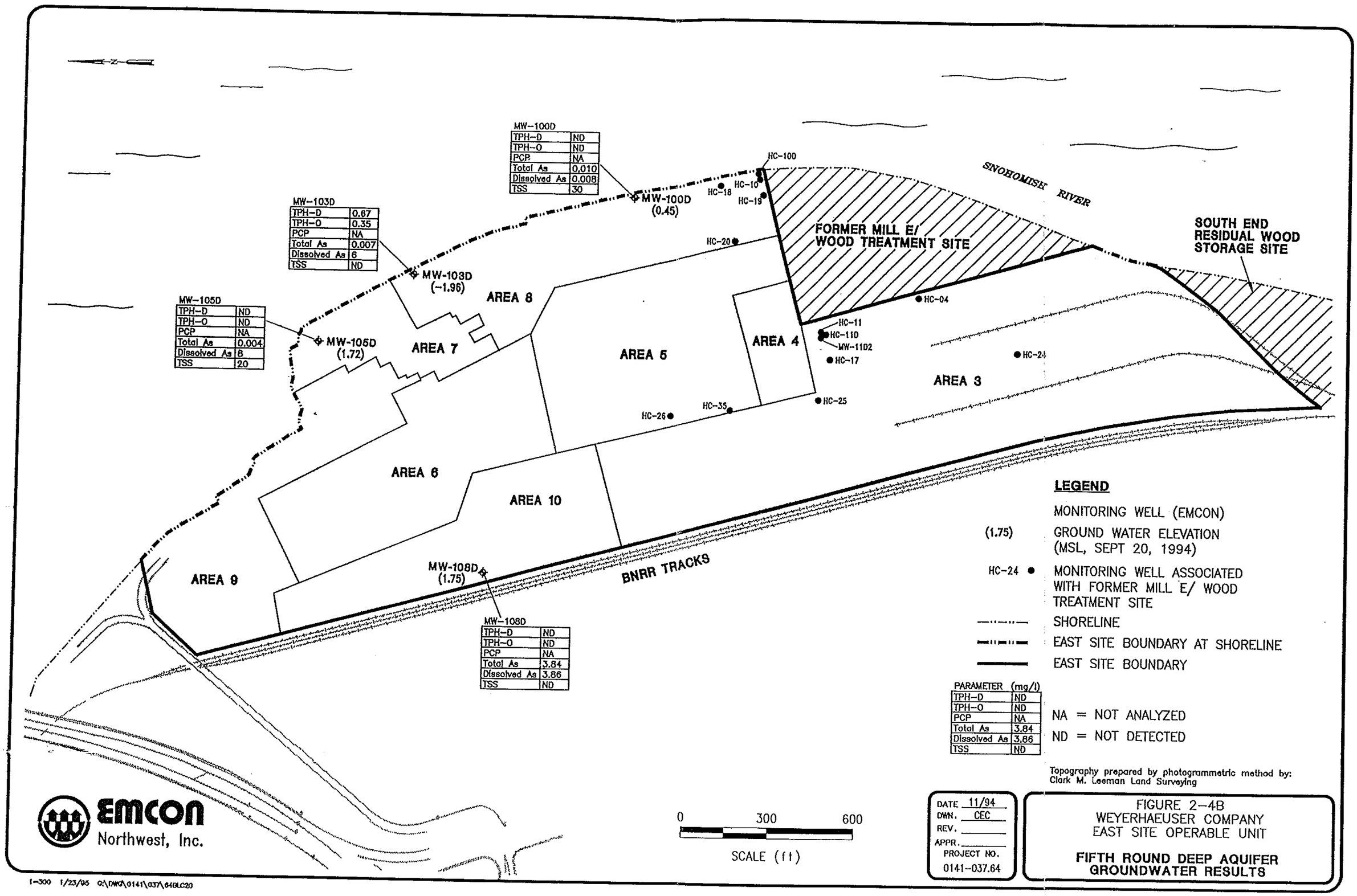
DATE 11/94
DWN. CEC
REV.
APPR.
PROJECT NO. 0141-037.64

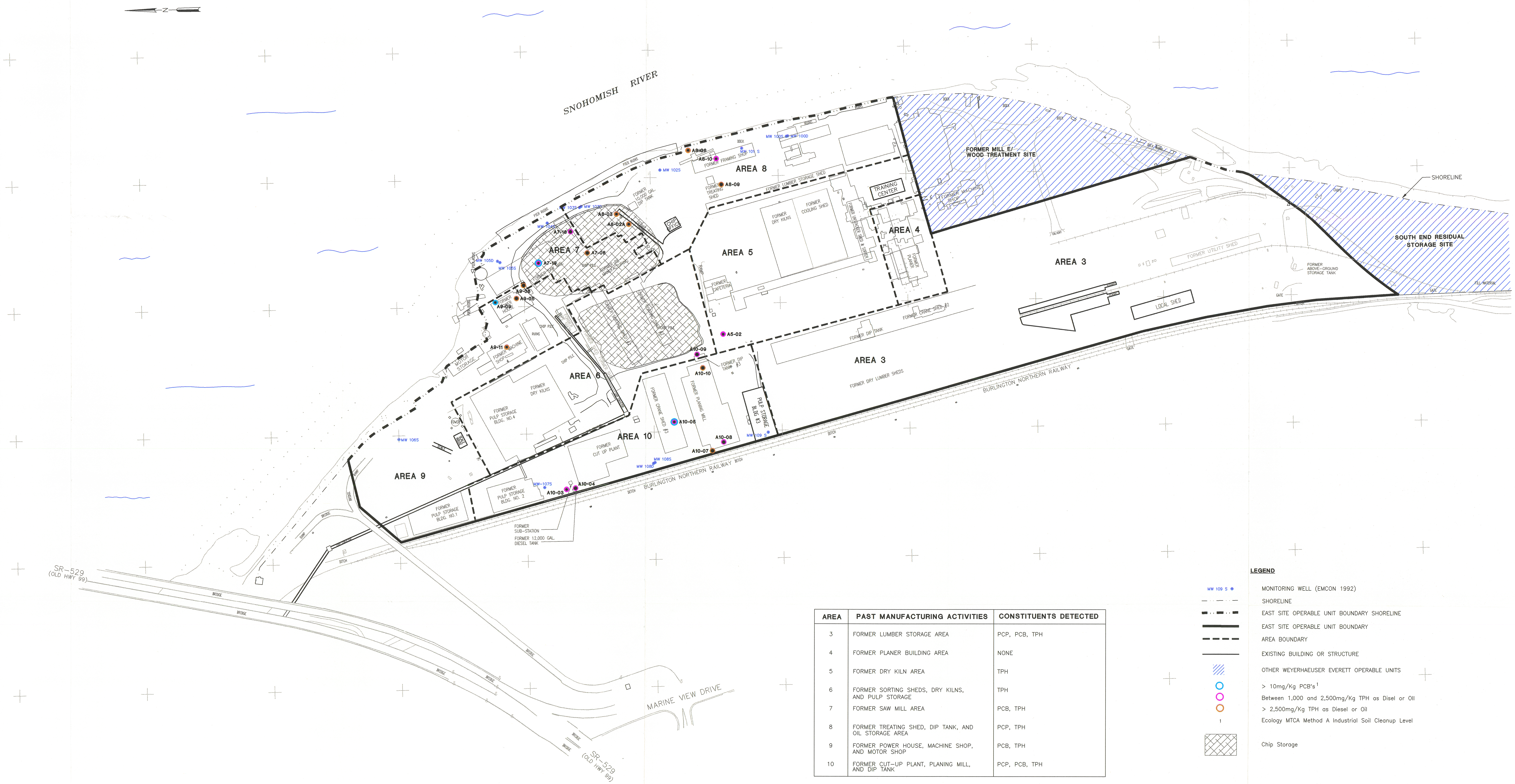
FIGURE 2-3B
WEYERHAEUSER COMPANY
EAST SITE OPERABLE UNIT

FOURTH ROUND DEEP AQUIFER GROUNDWATER RESULTS

1=300 12-20-94 Q:\DWG\0141\037\648LC26


MW-103S DRY
TPH-D NA
TPH-O NA
PCP NA
Total As NA
Dissolved As NA
TSS NA
MW-102S DRY
TPH-D NA
TPH-O NA
PCP NA
Total As NA
Dissolved As NA
TSS NA
MW-101S
TPH-D 0.15
TPH-O ND
PCP ND
Total As 0.041
Dissolved As 0.040
TSS ND
MW-100S
TPH-D ND
TPH-O ND
PCP ND
Total As 0.059
Dissolved As ND
TSS 20
MW-104S DRY
TPH-D NA
TPH-O NA
PCP NA
Total As NA
Dissolved As NA
TSS NA
MW-105S
TPH-D 0.34
TPH-O 0.37
PCP ND
Total As 0.009
Dissolved As 0.008
TSS 72
MW-106S
TPH-D ND
TPH-O ND
PCP NA
Total As 0.060
Dissolved As 0.059
TSS 8
MW-107S
TPH-D 1.3
TPH-O 0.64
PCP NA
Total As 0.070
Dissolved As 0.065
TSS 140
MW-108S
TPH-D ND
TPH-O ND
PCP ND
Total As 0.005
Dissolved As 0.004
TSS 30
MW-109S
TPH-D 0.21
TPH-O 0.55
PCP NA
Total As 0.016
Dissolved As 0.012
TSS 20
MW-103S (DRY)
MW-102S (DRY)
MW-101S (3.32)
MW-100S (2.79)
MW-104S (DRY)
MW-105S (2.44)
MW-106S (4.77)
MW-107S (4.76)
MW-108S (4.46)
MW-109S (4.15)
HC-10D
HC-10
HC-18
HC-19
HC-20
HC-04
HC-11
HC-11D
MW-11D2
HC-17
HC-24
HC-25
HC-35
HC-26
AREA 8
AREA 7
AREA 5
AREA 4
AREA 3
AREA 6
AREA 10
AREA 9
FORMER MILL E/ WOOD TREATMENT SITE
SOUTH END RESIDUAL WOOD STORAGE SITE
SNOHOMISH RIVER
BNRR TRACKS
LEGEND
MW-109S MONITORING WELL (EMCON)
(4.15) GROUND WATER ELEVATION (MSL, SEPT 20, 1994)
HC-24 MONITORING WELL ASSOCIATED WITH FORMER MILL E/ WOOD TREATMENT SITE
SHORELINE
EAST SITE BOUNDARY AT SHORELINE
EAST SITE BOUNDARY
PARAMETER (mg/l)
TPH-D 0.21
TPH-O 0.55
PCP NA
Total As 0.016
Dissolved As 0.012
TSS 20
NA = NOT ANALYZED
ND = NOT DETECTED
0 300 600
SCALE (ft)
EMCON Northwest, Inc.
Topography prepared by photogrammetric method by: Clark M. Leeman Land Surveying
DATE 11/94
DWN. CEC
REV.
APPR.
PROJECT NO. 0141-037.64
FIGURE 2-4A
WEYERHAEUSER COMPANY
EAST SITE OPERABLE UNIT
FIFTH ROUND SHALLOW AQUIFER GROUNDWATER RESULTS
1=300 12-20-94 G:\DWG\0141\037\64BUC19


MW-100D
TPH-D ND
TPH-O ND
PCP NA
Total As 0.010
Dissolved As 0.008
TSS 30
MW-103D
TPH-D 0.67
TPH-O 0.35
PCP NA
Total As 0.007
Dissolved As 6
TSS ND
MW-105D
TPH-D ND
TPH-O ND
PCP NA
Total As 0.004
Dissolved As 8
TSS 20
MW-108D
TPH-D ND
TPH-O ND
PCP NA
Total As 3.84
Dissolved As 3.86
TSS ND
MW-100D (0.45)
MW-103D (-1.96)
MW-105D (1.72)
MW-108D (1.75)
HC-10D
HC-18
HC-10
HC-19
HC-20
HC-04
HC-11
HC-11D
MW-11D2
HC-17
HC-24
HC-25
HC-35
HC-26
SNOHOMISH RIVER
FORMER MILL E/ WOOD TREATMENT SITE
SOUTH END RESIDUAL WOOD STORAGE SITE
AREA 8
AREA 7
AREA 5
AREA 4
AREA 3
AREA 6
AREA 10
AREA 9
BNRR TRACKS
LEGEND
MONITORING WELL (EMCON)
(1.75) GROUND WATER ELEVATION (MSL, SEPT 20, 1994)
HC-24 ● MONITORING WELL ASSOCIATED WITH FORMER MILL E/ WOOD TREATMENT SITE
SHORELINE
EAST SITE BOUNDARY AT SHORELINE
EAST SITE BOUNDARY
PARAMETER (mg/l)
TPH-D ND
TPH-O ND
PCP NA
Total As 3.84
Dissolved As 3.86
TSS ND
NA = NOT ANALYZED
ND = NOT DETECTED
Topography prepared by photogrammetric method by: Clark M. Leeman Land Surveying
0 300 600
SCALE (ft)
EMCON Northwest, Inc.
DATE 11/94
DWN. CEC
REV.
APPR.
PROJECT NO. 0141-037.64
FIGURE 2-4B
WEYERHAEUSER COMPANY
EAST SITE OPERABLE UNIT
FIFTH ROUND DEEP AQUIFER GROUNDWATER RESULTS
1=300 1/23/95 C:\DWG\0141\037\64BLC20



AREA	PAST MANUFACTURING ACTIVITIES	CONSTITUENTS DETECTED
3	FORMER LUMBER STORAGE AREA	PCP, PCB, TPH
4	FORMER PLANER BUILDING AREA	NONE
5	FORMER DRY KILN AREA	TPH
6	FORMER SORTING SHEDS, DRY KILNS, AND PULP STORAGE	TPH
7	FORMER SAW MILL AREA	PCB, TPH
8	FORMER TREATING SHED, DIP TANK, AND OIL STORAGE AREA	PCP, TPH
9	FORMER POWER HOUSE, MACHINE SHOP, AND MOTOR SHOP	PCB, TPH
10	FORMER CUT-UP PLANT, PLANING MILL, AND DIP TANK	PCP, PCB, TPH

LEGEND

- MW 109 S — MONITORING WELL (EMCON 1992)
- SHORELINE
- EAST SITE OPERABLE UNIT BOUNDARY SHORELINE
- EAST SITE OPERABLE UNIT BOUNDARY
- AREA BOUNDARY
- EXISTING BUILDING OR STRUCTURE
- OTHER WEYERHAEUSER EVERETT OPERABLE UNITS
- > 10mg/Kg PCB's[1]
- Between 1,000 and 2,500mg/Kg TPH as Disel or Oil
- > 2,500mg/Kg TPH as Diesel or Oil
- 1 Ecology MTCA Method A Industrial Soil Cleanup Level
- Chip Storage

0 150 300
SCALE (ft)

Topography prepared by photogrammetric method by:
Clark M. Leeman Land Surveying

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE DWN BY ____ DES BY ____ CHK BY ____ APP BY ____

EMCON Northwest, Inc.

FIGURE 6-1
WEYERHAEUSER COMPANY
WEYERHAEUSER EVERETT EAST SITE

FORMER MANUFACTURING LOCATIONS AND AREAS OF AFFECTED SOILS

1=150 3/17/95 G:\DWG\0141\037\64\64BLC31

ATTACHMENT A

PHASE 1 ASSESSMENT FOR AREAS 3 THROUGH 10, WEYERHAEUSER EVERETT EAST SITE

PHASE 1 ASSESSMENT FOR
AREAS 3 THROUGH 10
WEYERHAEUSER EVERETT EAST SITE

Prepared for

Weyerhaeuser Company

101 East Marine View Drive

Everett, Washington

December 1994

Prepared by

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016

Project 0141-037.64

CONTENTS

TABLES AND ILLUSTRATIONS

Tables

End of Report

Figures

End of Report

Drawing

Pocket

SUMMARY

EMCON conducted preliminary environmental site assessment activities at the Weyerhaeuser East Site (Areas 3 through 10), located in Everett, Washington. Assessment activities included the following:

- Acquiring operational information pertaining to former structures and past practices
- Reviewing the environmental setting surrounding the site
- Digging and collecting soil samples from 131 test pits and 2 soil excavations
- Drilling and collecting soil samples from five soil borings
- Installing and collecting groundwater samples from ten shallow and four deep monitoring wells and seven temporary wellpoints
- Conducting chemical analysis of soil and groundwater samples
- Reviewing laboratory results
- Reporting the findings

Soil Investigation

Soil samples were collected from 131 test pits, 14 soil borings, 2 soil excavations, and 1 soil stockpile. Based on a review of soil sample laboratory results, conclusions pertaining to soil quality at the site are as follows:

- One hundred thirty-nine soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), total petroleum hydrocarbons as diesel (TPH-D), and total petroleum hydrocarbons as heavier (TPH-O). TPH compounds were found in the following four locations on the site: Areas 7, 8, and 9 in the former manufacturing areas; near former dip tank No. 3, including parts of Areas 5, 6, and 10; near the former 12,000-gallon aboveground diesel tank in Area 10; and near the former local shed, a former aboveground diesel

tank, and along the southern portion of the RABANCO lease area in the southern portion of Area 3.

- Eleven soil samples were analyzed for volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and total xylene (BTEX). Two VOC compounds (acetone and 2-butanone) were detected. One BTEX compound (total xylene) was detected in one sample.

- Forty-five soil samples were analyzed for 64 semivolatile organic compounds (semiVOCs), including pentachlorophenol (PCP) and polycyclic aromatic hydrocarbons (PAHs). One or more semiVOC compounds were detected in 32 samples; concentrations ranged from 0.032 mg/kg 4-methylphenol in sample A5-02 to 200 mg/kg PCP in sample A8-09.

- Two soil samples were analyzed exclusively for 16 PAH constituents. Seven PAH compounds were detected in boiler ash sample EX-2, collected from southern Area 3; the compounds ranged from 0.88 mg/kg benzo(a)anthracene to 18 mg/kg phenanthrene. Twelve PAHs were detected in a product sample taken from the boiler ash material; results ranged from 480 mg/kg benzo(k)fluoranthene to 6,000 mg/kg phenanthrene.

- Thirty-six soil samples were analyzed for four phenolic compounds, including PCP. PCP, associated phenolic compounds, or both, were detected in 31 samples. Results ranged from 0.002 mg/kg 2,3,4,6-tetrachlorophenol in sample A4-02 to 200 mg/kg PCP in sample A8-09. (Results of sample analysis for PCP in A8-09 were 30.3 mg/kg by EPA Method 8040. This exceeded the calibration range for the instrument. EPA Method 8270 analysis of sample A8-09 yielded results of 200 mg/kg PCP.)

- Forty soil samples were analyzed for pesticides and PCB compounds. Pesticide compounds were detected in 22 samples. Results ranged from 0.00051 mg/kg 4,4-DDE in A10-09 to 0.35 alpha-chlordane in sample A9-09. Aroclor-1016 was detected in three samples. Results ranged from 0.047 mg/kg in sample A7-01A to 1.2 mg/kg in sample A7-19B. Aroclor-1242 was detected in sample A6-05 at 0.038 mg/kg. Aroclor-1254 was detected in 15 samples. Results ranged from 0.015 mg/kg in sample A7-17 to 22 mg/kg in sample A9-09. Aroclor-1260 was detected in 14 samples. Results ranged from 0.016 mg/kg in sample A10-09 to 87 mg/kg in sample A10-05.

- Five soil samples were analyzed for total arsenic. Arsenic was detected in all five samples. Results ranged from 5.2 mg/kg in sample A10-08 to 20 mg/kg in sample A3-05.

Groundwater Investigation

Groundwater samples were collected from 1 soil excavation, 7 temporarily installed wellpoints, and 14 monitoring wells. Based on a review of groundwater sample laboratory results, conclusions pertaining to groundwater quality at the site are as follows:

- Groundwater samples from four wellpoints and seven monitoring wells were analyzed for TPH-G. Groundwater samples from 4 wellpoints, 1 soil excavation, and 13 monitoring wells were analyzed for TPH-D and TPH-O. TPH-G was detected in two groundwater samples: MW-107S at 0.33 mg/L, and MW-109S at 0.69 mg/L. TPH-D was detected in five groundwater samples. Results ranged from 1 mg/L in sample MW-104S to 26.3 mg/L in sample EX-1. TPH-O was detected in six groundwater samples. Results ranged from 1 mg/L in sample MW-103D to 5.7 mg/L in sample EX-1.

- Sixteen groundwater samples were analyzed for VOCs. Methylene chloride was detected at 5.0 μg/L in sample MW-106S. Acetone was detected in six samples. Results ranged from 12 μg/L in samples MW-103D and MW-106S to 26 μg/L in sample MW-109S. No BTEX compounds were detected in any of the groundwater samples analyzed.

- Seventeen groundwater samples were analyzed for 64 semiVOCs, including PCP. SemiVOC compounds were detected in 13 samples. Results ranged from 1 μg/L to 71 μg/L. Naphthalene and bis(2-Ethylhexyl)phthalate were detected in sample WP-R1 at 71 μg/L and 69 μg/L, respectively. PCP was detected in samples WP-2 and WP-R1 at 1 μg/L and 8 μg/L, respectively.

- Five groundwater samples were analyzed for four phenolic compounds. Only one phenolic compound, PCP, was detected. PCP was detected in sample MW-103S at 0.05 μg/L.

- Four groundwater samples were analyzed for pesticides and PCB compounds. One pesticide compound, Aldrin, was detected in sample MW-103S at 0.011 μg/L. Aroclor-1016 and Aroclor-1242 were detected in sample WP-2 at 0.78 μg/L and 1.2 μg/L, respectively. Aroclor-1254 was detected in sample MW-105S at 0.42 μg/L.

- Fourteen groundwater samples were analyzed for dissolved arsenic. Dissolved arsenic was detected in 13 samples. Results ranged from 4 μg/L in sample MW-103D to 4,460 μg/L in sample MW-108D.

Geology

The site is situated on relatively level dredge fill adjacent to the Snohomish River. In the early 1900s, the site was filled by using sand dredged from the river bottom. In general, the sediment underlying the site consists of man-made and dredge fill overlying natural estuarine and fluvial sediment. The natural sediments underlying the site have been subdivided into the following silt and sand units:

- The Grade Fill and Mixed Fill unit was encountered in four soil borings. It ranged from approximately 2 to 6 feet thick.
- The Upper Sand unit (dredge fill) was encountered site-wide within the deep soil borings. It ranged from approximately 4 to 6 feet thick.
- The Upper Silt unit (estuarine) was encountered in four soil borings. It ranged from approximately 6 to 9 feet thick.
- The Lower Sand unit (fluvial) was encountered site-wide within the deep soil borings. Its thickness was not determined.

Hydrogeology

Two groundwater aquifers were encountered beneath the site during drilling activities. A shallow water table (perched) aquifer was encountered from near the ground surface to the base of the Upper Sand unit. A deeper aquifer was encountered beneath the base of the Upper Silt unit in the Lower Sand unit.

No aquifer testing was conducted as part of the assessment activities.

1 INTRODUCTION

This report describes the findings of preliminary site assessment activities performed on the Weyerhaeuser East Site located in Everett, Washington. The site and surrounding areas are shown on Figure 1-1. The assessment is being conducted as an independent voluntary action on behalf of The Weyerhaeuser Company. EMCON performed preliminary site assessment activities from November 1992 through October 1993. The scope of work consisted of excavating 131 test pits, excavating 2 areas of impacted soil, drilling 14 soil borings, installing 14 monitoring wells, collecting soil and groundwater samples, installing and sampling 7 temporary wellpoints, laboratory analysis of soil and groundwater samples, and reviewing and reporting the findings.

1.1 Site Background

Weyerhaeuser began Everett, Washington, operations in 1902. The Weyerhaeuser East Site consists of former facilities including lumber processing, Mill B, Mill E, a planing mill, a power house, former dip tanks, lumber treatment and storage sheds, and pipe, machine, and motor storage sheds. Site background information was obtained from past assessment and characterization reports.

The following is a summary of known historical land uses near the site:

- According to an enforcement order issued to ASARCO (No. DE 92TC-N147), a lead smelter and ore refinery operated from approximately 1894 to 1912 on property near what is now the intersection of East Marine View Drive and State Route 529. The Puget Sound Reduction Company began operating the smelter to refine ore for lead, copper, gold, and silver. ASARCO bought the smelter in 1903. The lead smelter operated until 1908. An arsenic processing plant also operated at the smelter site from approximately 1898 until 1912. The smelter and processing plant were dismantled in 1914.

- Weyerhaeuser operated saw mills south of State Route 529 from 1916 to around 1980. Wood waste landfills, aeration lagoons, and log sorting operations are located northeast of the site on Smith Island.

- Burlington Northern Railroad (BNRR) currently operates and maintains a railroad switching yard and right-of-way immediately west of the Weyerhaeuser East Site.

- A residential area is located west of the BNRR switching yard, and west of Marine View Drive, at an elevation about 75 feet above the Weyerhaeuser facility.

1.2 Environmental Setting

The site consists of approximately 115 acres located on the southeastern portion of the Weyerhaeuser Everett property (Drawing 1). The site is relatively flat and is bordered on the east by the Snohomish River, on the west by the BNRR switching yard, and on the north and south by other Weyerhaeuser operable units.

The climate of the Everett area is predominantly marine temperate, with prevailing westerly winds (Newcomb, 1952). The average annual rainfall is approximately 34 inches, with maximum precipitation in the winter months and a dry period in the summer. The mean annual temperature for Everett is 51 degrees Fahrenheit (°F.).

The Snohomish River to the east of the site is tidally influenced, with salt wedge intrusion to approximately 5 miles south of the site, beyond the Interstate 5 bridge. The mean tide range of the Snohomish River at Everett is approximately 7 feet (Newcomb, 1952). The tides at Everett (with mean lower low water [MLLW] as 0 feet) range from 11.1 feet mean higher high water (MHHW), 10.2 feet mean high water (MHW), 2.8 feet mean low water (MLW), and -4.5 feet extreme low water (ELW) (NOAA, 1991).

1.3 Geology

Site-specific geologic information has been obtained from this assessment and from previous investigations. Geologic investigations included excavating and sampling test pits and drilling and sampling soil borings.

The site is located on relatively level dredge fill adjacent to the Snohomish River, approximately 2 miles upstream from the river mouth at Port Gardner in Puget Sound. The river has become channelized into a main stream with several shallow sloughs separated by marshy islands. The main stream of the river flows adjacent to the site and is approximately 750 feet wide. The site is within the low-lying floodplain of the river. The floodplain is bounded on the west and east by steeply sloped ridges and hills reaching to 500 feet above mean sea level.

The site may be accessed by a spur road and a trestle bridge over the BNRR leading from East Marine View Drive. The BNRR forms the western property boundary. Approximately 35 percent of the site is covered by vegetation consisting primarily of grasses, weeds, small shrubs, and trees. Most vegetation is found along the western portion of the site. Log and wood debris piles are scattered around the site.

The site was formerly an estuarine tide flat adjacent to the Snohomish River. In the early 1900s, it was filled by using sand dredged from the river bottom. The bank of the Snohomish River has been stabilized with a bulkhead of timber and steel sheet pilings along the length of the site. The eastern and southern areas of the site have been covered by approximately 2 to 3 feet of mixed wood and gravel grade fill.

The sediment underlying the site consists of man-made and dredge fill overlying natural estuarine and fluvial sediment. For the purposes of this report, the natural sediment has been subdivided into silt and sand units, although there is some interbedding within each unit. Each material is analyzed below.

Fill materials and native fluvial and estuarine sediment encountered during the preliminary assessment were divided into the following geologic units, listed from youngest to oldest:

- Grade Fill and Mixed Fill unit
- Upper Sand unit (dredge fill)
- Upper Silt unit (estuarine)
- Lower Sand unit (fluvial)

1.3.1 Grade Fill and Mixed Fill

Grade fill or mixed fill was encountered at the surface at most of the test pit and soil boring locations. Grade fill material apparently was placed at the site after 1974 to improve the working surface. The fill was composed of sandy gravel, asphalt, angular pebbles and cobbles of crushed rock, wood debris, and bark. The top few inches contained abundant organic and wood debris and were vegetated in many areas. The grade fill formed a very dense, although permeable, layer at the surface. The fill thickness ranged from 1 to 4 feet.

1.3.2 Upper Sand

The upper sand unit was composed of gray-brown to black, fine to medium sand with trace coarse sand. The upper sand averaged 5 to 6 feet thick and ranged from less than 1 to 10 feet thick. The sand was typically uniform in texture and composition. Thin lenses, less than 2 inches, of coarser or finer sand were encountered in most borings. Historical records indicated that sand dredged from the Snohomish River was deposited

on its estuarine tide flats from at least Mill B to the South-End Residual Wood Storage Site. Faint horizontal bedding was seen in most samples, confirming a hydraulic emplacement of the dredge fill. Dredge sands were encountered below fill units in all test pits and soil borings. The groundwater table was found in the upper sand at an average depth of 4 feet below the surface.

1.3.3 Upper Silt

The upper silt unit was encountered in all borings penetrating the base of the upper sand at the site. The silt unit was composed of stiff, low plasticity to non-plastic, gray-brown to dark brown, silt with abundant organic matter (wood fragments and rootlets) in the upper layers of the unit. Lenses of fine sand, sandy silt, and silty sand, 0.1 to 0.2 feet thick, were encountered in most borings and found at all depths in the unit.

The thickness of the upper silt unit averaged 8 feet. The thickness was estimated where borings did not fully penetrate the silt.

1.3.4 Lower Sand

The lower sand unit was encountered in the four deep monitoring well borings (MW-100D, MW-103D, MW-105D, and MW-108D) advanced below the base of the upper silt unit. The lower sand unit was composed of medium to coarse sand with trace gravel and wood debris. It appeared coarser and denser than the upper sand unit. Zones of coarse sand and fine gravel were encountered below the base of the upper silt unit. The base of the lower sand unit was not intercepted during assessment activities.

1.4 Hydrogeology

Four hydrostratigraphic units were identified during site assessment activities. These were, in order of increasing depth, grade fill and mixed fill, upper sand, upper silt, and lower sand.

1.4.1 Grade Fill and Mixed Fill

As described in Section 1.3.1, the entire site appeared to be underlain by fill material composed primarily of sandy gravel with or without abundant wood debris. The grade fill is not considered a barrier to vertical infiltration. Some of the mixed fill had been compacted, and ponded water was observed on the surface at some locations. Following significant rainfall events, surface water was ponded over compacted gravel and silt. The grade and mixed fill units were unsaturated in most areas during the assessment, but could be part of the capillary fringe during maximum water table elevations.

1.4.2 Upper Sand Aquifer

The upper sand hydrostratigraphic unit underlaid the grade and mixed fill across the site. The unit was predominantly composed of fine to medium sand. The upper sand aquifer is unconfined.

The water table was about 4 feet below grade in most areas. A capillary fringe was estimated to extend a few inches above the water table. The water table apparently fluctuates an average of 2.5 feet between seasonal maximum and minimum elevations. The upper sand aquifer was monitored by using ten on-site monitoring wells (labeled with an "S" suffix) screened from the base of the unit to above the water table.

1.4.3 Upper Silt Aquitard

The upper silt hydrostratigraphic unit underlays the upper sand aquifer. It was composed of soft to stiff low plasticity to nonplastic silt. No monitoring wells were installed in the upper silt aquitard. Soil samples indicated that the unit impeded groundwater flow. Sand stringers within the aquitard could be, however, conduits for vertical flow. Timber pilings could also be conduits if driven through the silt. The unit is considered a leaky aquitard between the two sand aquifers.

The upper silt aquitard was fully saturated at the time of drilling. The unit is recharged by the upper sand aquifer and discharges groundwater downward to the lower sand aquifer and east into the Snohomish River.

1.4.4 Lower Sand Aquifer

The lower sand hydrostratigraphic unit has a saturated layer of medium to coarse sand with scattered lenses of fine sand, fine gravel, and silty sand.

The lower sand aquifer was monitored by four wells (wells labeled with a "D" suffix). Water elevations were influenced by tidal fluctuation of the Snohomish River. The tidal influence decreased with distance from the river.

The lower sand unit is considered to be a partially confined aquifer because it is bounded above and below by beds of distinctly lower permeability.

2 SOIL INVESTIGATION

2.1 Introduction

Test pit and soil boring locations were selected to delineate the lateral and vertical extent of known and suspected contamination. Soil sampling location rationale, including the sample collection depth and laboratory parameters associated with specific soil sample locations by area, are presented in Table 2-1.

2.2 Approach

Findings of previously completed East Site investigation activities (Hart Crowser, 1990), and EMCON's *Overall Site Assessment Report* (EMCON, 1992), were used to direct preliminary assessment activities. These activities included acquiring logistical information pertaining to former structures and past practices, soil and groundwater sampling, chemical analysis of samples to determine the extent of known and suspected soil contamination, and obtaining information related to the hydrogeology and groundwater quality at the site.

Soil data obtained from the Hart Crowser investigations were considered screening level since the laboratory methods used were appropriate at that time but do not meet current standards.

Numeric area designations have been used for previous investigations. They were established based on former structures and past manufacturing practices. To maintain continuity, EMCON has continued to use the numeric area designations where applicable. The preliminary site assessment activities were limited to Areas 3 through 10 of the Weyerhaeuser Everett East Site. The following are brief summaries of activities in Areas 3 through 10:

- **Area 3 - Former Lumber Storage Area.** Most of Area 3 was used primarily for lumber storage. Former structures associated with past manufacturing practices included a dip tank, oiling stations, and an aboveground diesel storage tank. Area 3 is located southeast of, and partially hydraulically downgradient from, the former American Smelting and Refining Company (ASARCO) smelter facility, a potential source of arsenic contamination.

- **Area 4 - Former Planer Building Area.** No previous assessment has been performed on Area 4. Area 4 includes a former paint booth (where end spraying of "cherry brown" paint occurred) and the concrete foundation of the former oil room. An on-site inspection revealed the presence of two end spray locations within the former planer building.

- **Area 5 - Former Dry Kiln Area.** The southwest portion of Area 5 is adjacent to a former dip tank site in Area 3, and the northwest portion is adjacent to the former site of "Dip Tank No. 3" in the southern portion of Area 10. A former transformer site lies at the east end of the former unstacker shed.

- **Area 6 - Former Sorting Sheds Area.** Soil samples were collected from Area 6, to the south of the dry kiln building, as part of the trestle realignment study. A transformer was located near the southwest corner of the dry kiln building. The southwest corner of Area 6 is adjacent to the former site of Dip Tank No. 3 of Area 10. The eastern boundary of Area 6 is adjacent to the "Mill B fire" and includes the "southeast fire area."

- **Area 7 - Former Saw Mill Area.** Area 7 includes the Mill B fire area, the former remanufacturing building, former transformer sites, and a former oiling room. Laboratory results from previous investigations of Area 7 indicated TPH and PCB contamination in soil near the former dip tank located in Area 8 and the Mill B fire area.

- **Area 8 - Former Treating Shed, Dip Tank, and Oil Storage Shop Area.** The southern portion of the area is adjacent to the northern boundary of Area 1 (former Mill E/wood treatment site). Historic equipment and structures include a former treating shed, gasoline and diesel tanks, and a former dip tank. The location of the dip tank varies in air photos taken in different years. Staining is visible beneath the east end of the chip loading ramp in the north end of the area. Remains of large tank supports are evident within the former framing shop foundation. A former aboveground diesel storage tank was located at the south side of the oil and paint storage shop.

- **Area 9 - Former Power House, Pipe Shop, Machine Shop, and Motor Shop Area.** Area 9 includes the Mill B fire area, motor storage building, former machine shop, fuel vault, and former transformer sites and storage. Soil samples were collected in the vicinity of the former machine shop as part of the trestle realignment study.

- **Area 10 - Former Cut-up Plant, Crane Sheds, and Planing Mill Area.** Area 10 includes the former site of Dip Tank No. 3, a former aboveground diesel tank, and the former diesel distribution system associated with the manufacturing of Presto-logs. Previous sampling indicated PCP, PAH, and

TPH contamination north and northeast of the old beveled siding building, the former site of Dip Tank No. 3. Area 10 is located east of, and hydraulically downgradient from, the former ASARCO smelter facility.

In addition to the Phase 1 assessment activities in Areas 3 through 10, 22 additional test pits were excavated, and soil samples were collected in the southernmost portion of Area 3. This phase of work was designated as the South End Followup (SEF). Samples collected as part of the SEF activities are designated with the SEF prefix. The results of the SEF were reported to Weyerhaeuser by EMCON in a letter report entitled *Weyerhaeuser Everett East Site South End Followup Summary Report* (Attachment B of the *Operable Unit Summary Report for Weyerhaeuser Everett East Site,* EMCON, 1995). Two locations contained TPH-impacted soil. EMCON oversaw the excavation of these two locations, as well as collecting soil and groundwater samples. After TPH-D was detected in one groundwater sample collected from excavation EX-1, approximately 7,000 gallons of groundwater were pumped, treated, and discharged to the Weyerhaeuser Everett Mill treatment system. The findings of the excavation oversight, soil and groundwater sampling, and laboratory results were reported in the above-referenced report.

2.3 Soil Sampling Methods and Procedures

Soil samples were collected from 131 test pit excavations and 5 soil borings (MW-106S, MW-106D, MW-104S, MW-105D, and MW-100S) as shown on Drawing 1. The test pits were excavated by using a rubber tire or track mounted backhoe owned and operated by A.L. Sleister and Sons Construction, Inc, of Mukilteo, Washington. Soil borings were advanced by using hollow-stem auger drilling equipment owned and operated by Geoboring and Development, Inc., of Puyallup, Washington.

Soil samples were collected from the test pits and soil borings by using standard EMCON sampling methods and procedures. In general, each test pit soil sample represented a vertical composite profile of the test pit soil from the ground surface to a depth immediately above the shallow groundwater table. Soil boring soil samples were collected by using 2-inch-diameter, split-spoon, samplers. All soil samples from soil borings were collected above the water table. Exploratory test pit and soil boring logs were completed by describing subsurface soil conditions at each sampling location. The test pit and soil boring logs are attached in Appendix A.

The excavation, drilling, and sampling equipment was decontaminated by hot pressure washing between sampling events to reduce the possibility of cross-contamination. The soil samples were placed into laboratory-prepared containers, preserved in iced coolers, and delivered to the Weyerhaeuser laboratory located in Federal Way, Washington, under standard chain-of-custody procedures, for chemical analyses.

Samples collected as part of the SEF and the excavation oversight were submitted to Columbia Analytical Services, Inc., located in Bothell, Washington, for analysis.

2.4 Soil Sample Designation and Laboratory Parameters

Sample designations were used to associate each sample with the sample location within a particular area. For example, sample A3-01 was collected from Test Pit Sample Location 01 in Area 3; sample A9-08 was collected from Test Pit Location 8 in Area 9, etc. In some cases, soil sample designations do not correspond to the area in which they were located. Soil samples collected from the SEF test pits in Area 3 were designated SEF. Samples collected from the excavations in Area 3 were designated by excavation and location from which the sample was collected: sample EX-1E2 was the second sample collected from the east wall of Excavation One; sample EX-2B was collected from the bottom of Excavation Two. Soil stockpile samples were designated SS. The locations of all test pits and soil borings are shown on Drawing 1 (attached).

2.5 Results of Soil Sample Analyses

Laboratory results associated with East Site soil sampling activities are provided in Appendix B. The laboratory data were validated during June and July 1994 by Hart Crowser (Hart Crowser, 1994). The data validation report is included in Appendix B.

Soil sample laboratory parameter-specific results are summarized in the following subsections and in Tables 2-2 through 2-7.

2.5.1 Petroleum Hydrocarbons

One hundred-forty-three soil samples were screened for gasoline, diesel, and heavier than oil total petroleum hydrocarbons by Ecology Method WTPH-HCID. Eighty-nine soil samples exceeded the WTPH-HCID method detection limits and were rerun using the following appropriate followup analysis: gasoline (TPH-G), diesel (TPH-D), and oil (TPH-O). In addition, six soil stockpile samples were analyzed for TPH-D and TPH-O.

The following four areas at the Weyerhaeuser East Site were identified as having TPH-impacted soil:

- Throughout Areas 7, 8, and 9 in the former manufacturing areas of Mill B. TPH-O concentrations ranged from not detected to 83,000 mg/kg in sample A7-06.

- Near former Dip Tank No. 3, including parts of Areas 5, 6, and 10. TPH concentrations ranged from 16 mg/kg in sample A10-06 to 5,900 mg/kg in sample A10-10.

- Near the former 12,000-gallon aboveground diesel tank in Area 10. TPH-D concentrations ranged from 300 mg/kg in sample A10-17 to 4,300 mg/kg in sample A10-03.

- Near the former local shed and aboveground diesel tank in the south end of Area 3. TPH-G concentrations ranged from 18 mg/kg in sample SEF-16 to 1,140 mg/kg in sample SEF-5. TPH-D concentrations ranged from 3 mg/kg in sample A3-08 to 768 mg/kg in SEF-16. TPH-O concentrations ranged from 11 mg/kg in sample A3-06 to 1,190 mg/kg in sample SEF-11. Approximately 460 cubic yards of impacted soil were excavated from the south end of Area 3 (i.e., SEF-16 and SEF-11) and disposed off site.

A summary of laboratory results for detected TPH in soil samples is presented in Table 2-2.

2.5.2 Volatile Organic Compounds

Eleven soil samples were analyzed for VOCs by EPA Method 8240. Three VOC compounds were detected in the soil samples. Acetone was detected in samples A8-06 and A8-09 at 0.019 and 0.079 mg/kg, respectively. In samples A10-03, A3-05, and A8-06, 2-Butanone was detected at 1.9 mg/kg, 1.7 mg/kg, and 0.005 mg/kg, respectively. However, 2-Butanone was also detected in the method blanks associated with samples A3-05 and A10-03. Total xylenes were detected at 0.014 mg/kg in sample A8-09. No other VOCs were detected in any of the other soil samples. A summary of laboratory results for detected VOC compounds in soil samples is presented in Table 2-3.

2.5.3 Semivolatile Organic Compounds

Forty-five soil samples were analyzed for 64 semiVOCs. This included PCP and PAHs by EPA Method 8270. Two samples were analyzed strictly for PAHs by EPA Method 8310. One or more semiVOC compounds were detected in 32 samples ranging from 0.032 mg/kg 4-methylphenol in sample A5-02 to 6,000 mg/kg phenanthrene in the product sample collected from excavation EX-2 in southern Area 3. Thirteen semiVOC compounds were detected in sample SEF-16. This sample is located near a former diesel tank. Nine semiVOC compounds were identified in sample A9-08, located near the former power house and saw mill. PCP (EPA Method 8270) was detected in six samples ranging from an estimated 0.074 mg/kg in sample A4-03 to 200 mg/kg in sample A8-09. A summary of laboratory results for detected semiVOCs is presented in Table 2-4.

2.5.4 Phenolic Compounds

Thirty-six soil samples were analyzed for four phenolic compounds by EPA Method 8040. Phenolic compounds were detected in 31 samples. The following is a summary of the phenolic compound analysis by Method 8040:

- 2,3,5,6-tetrachlorophenol was not detected in any soil sample.
- 2,3,4,6-tetrachlorophenol was detected in 24 of 36 samples, ranging in concentration from 0.002 mg/kg in sample A4-02 to 4.8 mg/kg in sample A3-03D.
- 2,3,4,5-tetrachlorophenol was detected in 4 of 36 samples, with concentrations ranging from an estimated 0.00015 mg/kg in sample A5-08B to 0.370 mg/kg in sample A3-03D.
- PCP was detected in 31 of 36 samples, ranging in concentration from 0.002 mg/kg in sample A10-17 to 200 mg/kg in sample A8-09.

These results indicated the presence of phenolic compounds in soil near former Dip Tank No. 3 in southern Area 10, near a former 10,000-gallon dip tank and treating shed in Area 8, and near a former dip tank pad in Area 3. A summary of laboratory results for detected phenolic compounds is presented in Table 2-5.

2.5.5 PCBs and Pesticides

Forty soil samples were analyzed for pesticide and PCB compounds by EPA Method 8080. Pesticide compounds were detected in 22 samples ranging from 0.00035 mg/kg alpha-chlordane in sample A9-01 to 0.35 mg/kg alpha-chlordane in sample A9-09.

Forty soil samples were analyzed for seven PCB compounds, and the results indicated the following:

- Aroclor-1221, -1232, and -1246 were not detected.
- Aroclor-1016 was detected in three samples, ranging from 0.047 mg/kg in sample A7-01A to 1.2 mg/kg in sample A7-19B.
- Aroclor-1242 was detected in sample A6-05 at 0.038 mg/kg.

- Aroclor-1254 was detected in 16 samples, ranging in concentration from 0.015 mg/kg in sample A7-17 to 22 mg/kg in sample A9-09.

- Aroclor-1260 was detected in 14 samples, ranging from 0.016 mg/kg in sample A10-09 to 87 mg/kg in sample A10-05.

These results indicated the presence of PCB compounds in soil near former transformers in southern Area 10 and former Mill B, in the Mill B Fire area, and adjacent to the former Power House. A summary of laboratory results for detected pesticide and PCB compounds is presented in Table 2-6.

2.5.6 Arsenic

Five soil samples were analyzed for total arsenic by EPA Method 7060. Arsenic concentrations ranged from 5.2 mg/kg in sample A10-08 to 20 mg/kg in sample A3-05. The arsenic laboratory results for soil are presented in Table 2-7.

2.5.7 Dioxins

A total dioxin-furan toxicity equivalency factor (TEF) of 1 ppb was not exceeded for any soil samples analyzed for dioxin-furan. Dioxin laboratory results are included in Attachment A-1 of the Operable Unit report (EMCON, 1995).

3 GROUNDWATER INVESTIGATION

3.1 Approach

Fourteen groundwater monitoring wells were installed on site during the preliminary site assessment activities. Three shallow wells and one deep well were installed along the west site boundary, and seven shallow wells and three deep wells were installed along the Snohomish River shoreline. The shallow monitoring wells are designated with an "S" suffix, and the deep monitoring wells are designated with a "D" suffix. In addition, groundwater samples were collected from seven wellpoints designated WP-R1, WP-R2, WP-R3, WP-2, WP-3, WP-4, and WP-5. Three wellpoints were temporarily installed within select soil borings, and in soil excavation EX-1. Groundwater monitoring well and wellpoint sample locations are shown on the Section 2 series drawings of the *Operable Unit Summary Report, Weyerhaeuser Everett East Site* (EMCON, 1995).

3.2 Monitoring Well Construction and Development

Groundwater monitoring wells were constructed by using 2-inch, inside-diameter (I.D.) SCH 40 PVC well materials, 0.010-inch slotted well screen, and 20-40 washed silica sand pack. A summary of monitoring well completion details is presented on Table 3-1. The exploratory soil boring logs, including monitoring well construction details, are attached as Appendix A.

An EMCON geologist developed each of the wells by using pumping and surging techniques subsequent to well completion. Purge water was stored in secured and labeled 55-gallon drums and left on site.

3.3 Groundwater Sampling Methods and Procedures

Groundwater samples were collected from the 14 monitoring wells on Januaryn 22 and 25, 1993. Groundwater samples were collected by using disposable Teflon bailers and standard EMCON sampling methods and procedures. The sampling equipment was decontaminated between sampling events to prevent cross-contamination. The groundwater samples were placed into laboratory prepared containers, preserved in iced coolers, and delivered to the Weyerhaeuser Analytical Laboratory, located in Federal Way, Washington, under standard chain-of-custody procedures for analyses.

Groundwater sampling data sheets, including depth-to-water and field parameter measurements of pH, conductivity, and temperature, were completed at the time of sampling. Copies of the groundwater sampling data sheets are included in Appendix C.

At each wellpoint sampling location, a borehole was excavated either by using a hand auger or a truck-mounted hollow-stem auger at least 1 foot below the groundwater. A clean, 2-inch-diameter, machine slotted, stainless steel wellpoint was placed within each of the boreholes so that the wellpoint screen was submerged below groundwater. The annular space surrounding each wellpoint screen was filled with washed silica sand.

Wellpoint development was performed by removing at least three pore volumes of groundwater from each of the wellpoints. A peristaltic pump and a portable generator were used to accomplish this. Approximately 5 gallons of development water were removed from each wellpoint and stored on site in a sealed and labeled 55-gallon drum.

Immediately following wellpoint development, field measurements of groundwater specific conductivity, pH, and temperature were obtained.

Groundwater samples were collected from wellpoints WP-2, WP-3, WP-4, and WP-5 by using disposable PVC bailers. Wellpoints WP-R1, WP-R2, and WP-R3 were sampled by using a peristaltic pump, a portable generator, and new tygon tubing. Groundwater samples were collected by using standard EMCON sampling methods and procedures. Groundwater samples were collected in laboratory-prepared glass containers and transported in iced coolers under standard chain-of-custody procedures to the Weyerhaeuser Analytical Laboratory, located in Federal Way, Washington.

Two groundwater samples were collected from excavation EX-1. The samples were collected directly into laboratory prepared glass containers and transported in iced coolers under standard chain-of-custody procedures to the Columbia Analytical Services, Inc., laboratory in Bothell, Washington.

3.4 Groundwater Sample Designations and Laboratory Parameters

A summary of groundwater sample designations, associated laboratory parameters and methods, and sample location rationale is presented in Table 3-2. Sample designations were used to associate each sample with a particular monitoring well, wellpoint location, or excavation number.

3.5 Results of Groundwater Sample Analyses

Laboratory reports associated with the first round of East Site groundwater sampling are attached in Appendix B. Hart Crowser conducted data validation of the groundwater sample laboratory results during June and July 1994 (Hart Crowser, 1994). The data validation report is also included in Appendix B.

Groundwater sample laboratory, parameter-specific, results are summarized in the following subsections.

3.5.1 Petroleum Hydrocarbons

Groundwater samples were collected from four wellpoints and seven monitoring wells and analyzed for TPH-G by Ecology Method WTPH-G. Four wellpoint samples, 2 excavation groundwater samples, and 13 monitoring well groundwater samples were analyzed for diesel or heavier oil by Ecology Method WTPH-D. Laboratory results for TPH detected in groundwater samples are summarized in Table 3-3.

TPH-G was not detected in any of the wellpoint samples. TPH-G was detected in two monitoring well samples, at 0.33 mg/L in sample MW-107S and 0.69 mg/L in sample MW-109S.

TPH-D was detected in five groundwater samples, ranging from 1 mg/L in sample MW-104S to 26.3 mg/L in sample EX-1.

TPH-O was detected in six groundwater samples, ranging from 1 mg/L in sample MW-103D to 5.7 mg/L in sample EX-1.

Groundwater sample EX-1 was collected from an open excavation where the impacted soil had been removed. Based on the sample EX-1 laboratory results, approximately 7,500 gallons of groundwater was pumped from the excavation into a Baker tank, treated, and resampled. Following treatment, TPH constituents were not detected in the excavation groundwater.

3.5.2 Volatile Organic Compounds

Sixteen groundwater samples collected from 12 monitoring wells and 4 wellpoints were analyzed for VOCs by EPA Method 8240. Tetrachloroethene (PCE), acetone, and methylene chloride were detected. Methylene chloride was detected at estimated concentrations of 4 μg/L in sample MW-100D and 5 μg/L in sample MW-106S. Acetone was detected in six samples, ranging from 12 μg/L in sample MW-106S to 26 μg/L in sample MW-109S. PCE was detected at an estimated concentration of 2 μg/L

in sample MW-110. No other VOC compounds were detected. Laboratory results of detected VOC compounds in groundwater samples are summarized in Table 3-4.

3.5.3 Semivolatile Organic Compounds

Fourteen groundwater samples were analyzed for 64 semivolatile organic compounds (semiVOCs), including pentachlorophenol by EPA Method 8270. Twenty-two semiVOCs were detected in 13 samples. Twenty semiVOCs were detected in sample WP-R1, ranging from 1 μg/L dimethylphthalate, dibenzofuran, and anthracene, to 71 μg/L naphthalene. Nine compounds were detected in well MW-105S, ranging from 1 μg/L benzo(a)anthracene and chrysene to 29 μg/L 4-methylphenol. Five compounds were detected in wellpoint WP-2, ranging from 1 μg/L phenol, 4-Methylphenol, and pentachlorophenol to 8 μg/L bis(2-Ethylhexyl)phthalate (which also was detected in the laboratory method blank). Pentachlorophenol was detected in two groundwater samples. Laboratory results of detected semiVOCs in groundwater samples are summarized in Table 3-5.

3.5.4 Phenols

Five groundwater samples were analyzed for four phenolic compounds by EPA Method 8040. Pentachlorophenol was detected at 0.05 μg/L in sample MW-103S. No other phenolic compounds were detected in the other groundwater samples. Laboratory results of detected phenolic compounds in groundwater samples are summarized in Table 3-6.

3.5.5 PCBs and Pesticides

Four groundwater samples were analyzed for PCBs and pesticides by EPA Method 8080. The pesticide Aldrin was detected at 0.011 μg/L in sample MW-103S. Aroclor-1016 and Aroclor-1242 were detected in sample WP-2 at approximately 0.78 μg/L and at 1.2 μg/L, respectively. Aroclor-1254 was detected at an estimated concentration of 0.42 μg/L in sample MW-105S, and at 1 μg/L in sample MW-103S. Laboratory results of detected pesticide and PCB compounds in groundwater samples are summarized in Table 3-7.

3.5.6 Arsenic

Fourteen groundwater samples were analyzed for dissolved arsenic by EPA Method 7060. Dissolved arsenic was detected in 13 samples, ranging from 4 μg/L in sample MW-103D to 4,460 μg/L in sample MW-108D. Laboratory results of dissolved arsenic in groundwater samples are summarized in Table 3-8.

REFERENCES

EMCON. 1992. *Overall Site Assessment Report, Weyerhaeuser-Everett Mill.*

EMCON. 1995. *Operable Unit Summary Report for Weyerhaeuser Everett East Site.*

Hart Crowser. 1990. *Phase 1, Preliminary Environmental Site Assessment, Weyerhaeuser Everett Mill B. Everett, Washington.*

Hart Croswer. 1990. *Results of Mill B Site Characterization.*

Hart Crowser. 1994. *Results of Soil and Groundwater-Data Validation, Weyerhaeuser-Everett East Site.*

Newcomb, R.C. 1952. *Groundwater Resources of Snohomish County, Washington.* USGS Water Supply Paper 1135. 133p.

NOAA. 1991. *Everett Harbor, Nautical Chart 18444.* National Oceanic and Atmospheric Administration. Washington, D.C.

Table 2-1

Soil Sampling Location Rationale by Area
Weyerhaeuser Everett East Site

Location and Sample Number[1]	Location Rationale	Sample Depth (feet)	Analytical Parameters[2]
AREA 3	Former Lumber Storage Area		
A3-01	Characterize upgradient site	0.8-1.5	Total As
A3-02A	Potential contamination in vicinity of beveled siding building		
A3-02B	Potential contamination in vicinity of beveled siding building	1.5-1.9	WTPH-D, semi-VOCs, PCB, Dioxin
A3-02C	Potential contamination in vicinity of beveled siding building	0.5-1.9	WTPH-D, semi-VOCs, PCB
A3-03A	Former dip tank site	0.5-1.3	PCP
A3-03B	Former dip tank site	0.8-2.0	PCP
A3-03C	Former dip tank site	0.7-1.3	PCP
A3-03D	Former dip tank site	0.8-1.7	PCP
A3-04	Upgradient site	0.7-1.9	Total As
A3-05	Southern Area 3	1-2.9	semi-VOCs, WTPH-HCID (w/8240 follow up), Total As
A3-06	Former oiling station	0.8-1.3	WTPH-D
A3-07A	Former oiling station	0.7-2.5	WTPH-HCID
A3-07B	Former oiling station	0.5-2.1	WTPH-HCID
A3-08	Former oiling station	0.5-2.1	WTPH-D
A3-09	Adjacent to former diesel tank site	2.8-3.5	WTPH-D
A3-09b	As above		WTPH-D
A3-10d	Former oil-water separator site	0.3-2.1	WTPH-D
A3-11	Former diesel tank site	0.7-3.1	WTPH-D
A3-12	Former transformer site	0.6-1.8	PCB
A3-13	Site of former spray booth		WTPH-HCID, VOC

Table 2-1
Soil Sampling Location Rationale by Area
Weyerhaeuser Everett East Site

Location and Sample Number[1]	Location Rationale	Sample Depth (feet)	Analytical Parameters[2]
AREA 3	**Former Lumber Storage Area**		
SEF-1	In vicinity of Test Pit A3-5		WTPH-HCID, VOC, PCP
SEF-2	In vicinity of Test Pit A3-5	1.1-2.2	WTPH-HCID, VOC, PCP
SEF-3	In vicinity of Test Pit A3-5	1.6-2.8	WTPH-HCID, VOC, PCP
SEF-4	In vicinity of Test Pit A3-5 northwest corner of area	1.2-2.7	WTPH-HCID, VOC, PCP
SEF-5	In vicinity of Test Pit A3-5	1.2-3.0	WTPH-HCID, VOC, PCP
SEF-6	In vicinity of Test Pit A3-5	0.2-2.8	WTPH-HCID, VOC, PCP
SEF-7	In vicinity of Test Pit A3-5	1.7-3.6	WTPH-HCID, VOC, PCP
SEF-8	In vicinity of Test Pit A3-5	1.0-2.4	WTPH-HCID, VOC, PCP
SEF-9	Upgradient site	1.0-2.8	WTPH-HCID
SEF-10	Upgradient site	1.0-2.8	WTPH-HCID
SEF-11	TPH contamination at test pit location A3-09	0.5-2.8	WTPH-HCID
SEF-12	TPH contamination at test pit location A3-09	1.3-3.1	WTPH-HCID
SEF-13	TPH contamination at test pit location A3-09	0.5-1.8	WTPH-HCID
SEF-14	TPH contamination at test pit location A3-09	0.6-3.7	WTPH-HCID
SEF-15	TPH contamination at test pit location A3-09	0.9-2.5	WTPH-HCID
SEF-16	Groundwater sample location WP-5; vicinity of former truck scale	1.1-2.6	WTPH-HCID, semi-VOCs, PCP
SEF-17	General site	1.2-2.1	WTPH-HCID
SEF-18	General site	1.3-3.3	WTPH-HCID
SEF-19	General site	1.0-3.0	WTPH-HCID
SEF-20	General site	1.2-2.7	WTPH-HCID, VOC
SEF-21	Northeast corner of area	1.2-2.9	WTPH-HCID
SEF-22	Characterize general site	1.2-3.2	WTPH-HCID

Table 2-1
Soil Sampling Location Rationale by Area
Weyerhaeuser Everett East Site

Location and Sample Number[1]	Location Rationale	Sample Depth (feet)	Analytical Parameters[2]
AREA 4	**Former Planer-Building Area**		
A4-01	North central area 4	1.5-2.5	WTPH-HCID
A4-02	Former oiling station	1.5-3.0	WTPH-HCID (w/8240 follow up), semi-VOCs, PCP
A4-03	Southeast corner area 4, adjacent to Mill E area	1.1-2.5	WTPH-HCID (w/8240 follow up), semi-VOCs, PCP
A4-04	Suspected former paint booth	0.4-2.3	WTPH-HCID (w/8240 follow up), semi-VOCs
A4-05	Suspected former paint booth	1.4-2.8	WTPH-HCID, VOC
A4-06	Suspected machinery hydraulic/TPH contamination	1.9-3.1	WTPH-HCID, semi-VOCs, PCP
AREA 5	**Former Dry Kiln Area**		
A5-01	Northwest corner Area 5; follow-up to dip Tank 3 area contamination	0.8-1.5	WTPH-D, semi-VOCs, PCP
A5-02	Northwest corner Area 5; follow-up to dip Tank 3 area contamination	0.8-2.5	WTPH-D, semi-VOCs, PCP
A5-03	Northwest corner Area 5; follow-up to dip Tank 3 area contamination	1.8-2.5	WTPH-D, semi-VOCs, PCP
A5-04	Northwest corner Area 5; follow-up to dip Tank 3 contamination	0.4-1.9	WTPH-HCID
A5-05A	South Area 5; Mill E influence	1.3-3.9	WTPH-HCID (w/8240 follow up), semi-VOCs, PCP
A5-05B	South Area 5; Mill E influence	4.2-5.2	semi-VOCs, PCP
A5-06	Suspected oiling station	1.5-3.3	WTPH-HCID
A5-07	Longtime transformer site	1.4-3.5	WTPH-HCID, VOC, PCB
A5-08A	Former loading dock	0.5-1.8	WTPH-D, PCP
A5-08B	Former loading dock	0.9-2.0	WTPH-D, PCP
A5-09	Northeast Corner Area 5; near former oil/paint storage building	1.4-3.5	WTPH-HCID (w/8240 follow up), semi-VOCs, PCB
A5-10	Northern Area 5; suspected parking/loading area	1.5-2.3	WTPH-D, semi-VOCs, PCP
A5-11	Dry kiln building site	0.3-1.4	WTPH-D, PCP
A5-12	Cooling shed site	0.3-1.8	WTPH-D, PCP
A5-13	Southern third of former lumber storage shed site	2.0-2.7	WTPH-D, semi-VOCs, PCP

Table 2-1
Soil Sampling Location Rationale by Area
Weyerhaeuser Everett East Site

Location and Sample Number[1]	Location Rationale	Sample Depth (feet)	Analytical Parameters[2]
AREA 6	**Former Sorting Sheds Area**		
MW-106A	Northern Area 6; parking lot/Mill B fire	0.5-2.0	WTPH-HCID, WTPH-D
MW-106B	Northern Area 6; parking lot/Mill B fire	2.0-3.5	WTPH-HCID
A6-01	Follow-up to dip Tank 3 area	0.5-1.5	WTPH-D, PCP, PCB
A6-02	Follow-up to dip Tank 3 area	0.3-0.8	WTPH-D, PCB
A6-03A	Former transformer site	0.4-2.4	WTPH-HCID, PCB
A6-03B	Former transformer site	3.1-4.0	WTPH-HCID, semi-VOCs, PCP
A6-05	"Southeast Fire Area"	2.0-4.0	WTPH-HCID, PCB, Dioxin
A6-07	Below chip conveyor; site of former sorting shed	2.8-4.1	WTPH-D
A6-08	Site of former sorting shed #2	2.1-3.0	WTPH-D
A6-09	Site of former sorting shed #1	1.3-3.3	WTPH-D
A6-10	"Southeast Fire Area"	1.7-4.3	WTPH-HCID, PCB, Dioxin
AREA 7	**Former Saw Mill Area**		
MW-104A	Southeast Area 7 former sawmill site	2.5-4.0	WTPH-HCID, WTPH-D
MW-105D	North Area 7 former sawmill site	0-1.5	PCB, WTPH-HCID
A7-01A	Adjacent to former saw mill; previous work verification	1.8-2.4	WTPH-D, PCB
A7-01B	Adjacent to former saw mill; previous work verification	0.5-1.5	WTPH-HCID, PCB
A7-02	North Area 7/former sawmill site	1.0-2.0	WTPH-HCID, semi-VOCs
A7-04a	Suspected former transformer site	2.8-3.5	PCB
A7-04b	Oily-looking lens in pit	3.2-3.5	Dioxin, PCB
A7-05a	Former sawmill site	2.5-3.0	Dioxin, semi-VOCs, PCB
A7-05b	Former sawmill site	3.2-3.9	Dioxin, semi-VOCs, PCB
A7-06	Former oiling room site	3.4-4.3	WTPH-HCID
A7-07	"Southeast Fire Area"	1.8-3.2	WTPH-D, semi-VOCs Dioxin, PCB
A7-08	Previous work verification	1.8-2.0	WTPH-HCID
A7-09	Previous work verification	1.0-2.0	WTPH-D
A7-11	Suspected TPH staining/contamination	3.0-5.0	WTPH-HCID
A7-12	East Area 7	2.8-3.2	WTPH-HCID

Table 2-1
Soil Sampling Location Rationale by Area
Weyerhaeuser Everett East Site

Location and Sample Number[1]	Location Rationale	Sample Depth (feet)	Analytical Parameters[2]
A7-13 Area 7 (cont)	West Area 7/former remanufacturing site	1.1-2.3	WTPH-HCID, PCB, Dioxin
A7-14	Follow-up of previous results	0.5-1.4	WTPH-HCID, PCB
A7-16	Southeast Area 7/former sawmill site	1.0-2.0	WTPH-D, PCB
A7-17	Southern Area 7/former remanufacturing site	2.0-3.8	WTPH-HCID, PCB
A7-19a	Former saw mill site	2.9-3.4	WTPH-HCID, dioxin, semi-VOCs, PCB
A7-19b	Former saw mill site	4.4-4.8	WTPH-HCID, dioxin, semi-VOCs, PCB
A7-20	Former resaw building site	3.1-4.7	WTPH-HCID, dioxin
AREA 8	**Former Treating Shed, Dip Tank, and Oil Shop Area**		
A8-1S-A	Southeast Area 8	1.0-2.5	VOC, PCP, WTPH-HCID
A8-01	Suspected former dip tank site/northern Area 8	2.4-4.1	WTPH-HCID (w/8240 follow up), semi-VOCs
A8-02A	Suspected former dip tank site/northern Area 8	3.6-4.6	WTPH-HCID, PCP
A8-02B	Suspected former dip tank site/northern Area 8	2.0-3.5	WTPH-HCID, PCP
A8-03	Suspected hydraulic contamination from chip dumper	1.0-4.0	WTPH-HCID, semi-VOCs, PCP, PCB
A8-04	Northwestern Area 8	0.4-3.3	WTPH-HCID (w/8240 follow up if appropriate)
A8-05	Suspected oil/paint/TPH contamination	0.5-1.7	WTPH-D, semi-VOCs, VOC
A8-06	Suspected former diesel/fuel tank site	1.4-2.3	WTPH-D, VOC
A8-07	Suspected former diesel/fuel tank site	1.0-4.0	WTPH-D
A8-08	Suspected oil/hydraulic/gasoline contamination	0.4-1.2	WTPH-HCID, VOC
A8-09	Former wood treatment site	1.2-3.5	WTPH-HCID (w/8240 follow up if appropriate), semi-VOCs, PCP
A8-10a	Suspected former oil/fuel/penta tank site	1.0-1.9	WTPH-HCID (w/8240 follow up), semi-VOCs, PCP
A8-10b	As above	2.2-3.2	WTPH-HCID (w/8240 follow up), PCP
A8-12	South Area 8	2.4-4.8	WTPH-HCID (w/8240 follow up), semi-VOCs
A8-13	As above	1.1-3.8	WTPH-HCID (w/8240 follow up), semi-VOCs, PCP

Table 2-1
Soil Sampling Location Rationale by Area
Weyerhaeuser Everett East Site

Location and Sample Number[1]	Location Rationale	Sample Depth (feet)	Analytical Parameters[2]
AREA 9	**Former Power House, Pipe Shop, Machine Shop, and Motor Shop Area**		
A9-01	"SE Fire Area"	2.0-4.1	WTPH-HCID, PCB, Dioxin
A9-05	Former power house ruins	4.1-5.0	WTPH-HCID, PCB
A9-06	Southwest Area 9	1.2-2.8	WTPH-HCID (w/8240 follow up if appropriate)
A9-07	West side, former machine shop; former transformer site	0.8-2.3	WTPH-HCID, PCB
A9-08	Former sawmill site	3.0-5.7	WTPH-HCID, Dioxin, semi-VOCs
A9-09	Former power house site	0.7-1.9	WTPH-HCID, PCB
A9-10	Former transformer site	0.5-1.5	Dioxin, semi-VOCs, PCB
A9-11	East side, former machine shop	1.6-4.9	WTPH-HCID, PCB
A9-12	Former transformer site	0.6-2.8	WTPH-HCID, PCB
A9-13	Suspected TPH contamination	1.1-3.2	WTPH-HCID
A9-14	Suspected TPH contamination	0.8-2.6	WTPH-HCID, PCB
A9-15	Long time transformer site	1.8-2.9	WTPH-HCID, PCB
A9-16A	North Area 9 characterization	1.0-2.0	Dioxin
A9-16B	North Area 9 characterization	2.0-3.0	WTPH-HCID, PCB
AREA 10	**Former Cut-up Plant, Crane Sheds, and Planing Mill Area**		
A10-01a	Suspected TPH contamination; former oiling station	0.5-2.0	WTPH-HCID
A10-02a	Suspected oil/hydraulic contamination	0.5-2.1	WTPH-HCID
A10-02b	Suspected oil/hydraulic contamination	2.1-3.5	WTPH-HCID
A10-03	Former diesel tank site	0.7-1.5	WTPH-HCID
A10-04	Former diesel tank site	1.6-2.0	WTPH-D
A10-05	Suspected former transformer site; general characterization	0.7-1.3	WTPH-D, semi-VOCs, PCB, Total As
A10-06	Suspected former penta dip tank site; follow-up/verify previous work	0.7-1.3	WTPH-D, PCP, PCB
A10-07	Suspected TPH contamination; verify previous work	0.7-1.9	WTPH-D
A10-08	Suspected TPH contamination; verify previous work	1.0-2.0	WTPH-D, Total As
A10-09	Suspected former penta dip tank site; follow-up/verify previous work	1.2-1.8	WTPH-D, PCP, PCB
A10-10	Suspected former penta dip tank site; follow-up/verify previous work	0.8-2.0	WTPH-D, PCP

Table 2-1
Soil Sampling Location Rationale by Area
Weyerhaeuser Everett East Site

Location and Sample Number[1]	Location Rationale	Sample Depth (feet)	Analytical Parameters[2]
A10-11 Area 10 (cont)	Suspected former penta dip tank site; follow-up/verify previous work	1.3-1.8	WTPH-D, PCP, PCB
A10-12	Suspected former penta dip tank site; follow-up/verify previous work	0.8-1.2	WTPH-D, PCP, PCB
A10-13	Suspected TPH contamination; verify previous work	0.5-2.3	WTPH-D, PCP
A10-14	Suspected TPH contamination; verify previous work	1.0-1.8	WTPH-D, PCP
A10-15a	Suspected TPH contamination	0.0-2.0	WTPH-HCID
A10-16a	Follow up TPH contamination to the west	0.5-1.3	WTPH-HCID
A10-17	A10-3 TPH contamination follow up trestle footing area	1.-2.5	WTPH-HCID, semi-VOCs, PCP
A10-18	A10-3 TPH contamination follow up trestle footing area	1.1-3.2	WTPH-HCID, semi-VOCs, PCP

NOTE: "A" designates test pit and "MW" designates monitoring well boring sample.
Laboratory Methods: WTPH-HCID (Ecology), WTPH-G (Ecology), WTPH-D (Ecology), VOC (EPA 8240), semi-VOCs (EPA 8270), PCB (EPA 8080), PCP (EPA 8040), Total As (EPA 846).

Table 2-2
Detected Petroleum Hydrocarbons
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	WTPH-G (mg/kg)	WTPH-HCID* (mg/kg)		
			Gasoline	Diesel	Heavier
AREA 3					
A3-02A	09-Dec-92			7	40
A3-02B	09-Dec-92			1	15
A3-02C	09-Dec-92			6	51
A3-05	09-Dec-92			340	3 U
A3-06	09-Dec-92			3 U	11
A3-08	09-Dec-92			3	16
A3-09	09-Dec-92			19	210
A3-09B	09-Dec-92			500	0
A3-10D	09-Dec-92			3	34
A3-11	11-Dec-92			3 U	24
SEF-5	24-Jan-93	1140	20 E	56	150
SEF-6	24-Jan-93		20 U	30	100 E
SEF-7	24-Jan-93		20 U	165	450
SEF-11	24-Jan-93	21	20 E	543	1090
SEF-16	24-Jan-93	18	20 E	768	490
SEF-19	24-Jan-93		20 U	50 E	100 U
SEF-20	24-Jan-93		20 U	50 U	100 E
SEF-21	24-Jan-93		20 U	34	100 U
EX-1N	29-Jun-93		20 U	115	100 U
EX-1E	29-Jun-93		20 U	603	400
EX-1E2	06-Jul-93		20 U	53	220
EX-2N	29-Jun-93		20 U	43	180
EX-2B	29-Jun-93		20 U	198	360
SS-1	23-Jul-93			5020	1310
SS-2	23-Jul-93			1290	580
SS-3	23-Jul-93			730	2660
SS-4	23-Jul-93			143	670
SS-5	23-Jul-93			176	160
SS-6	23-Jul-93			1910	230
AREA 4					
A4-04	21-Jan-92		20 U	31	250
AREA 5					
A5-01	14-Dec-92			3 U	96
A5-02	14-Dec-92			130	1400
A5-03	16-Dec-92			43	33
A5-04	21-Jan-93		20 U	26	260
A5-08A	11-Dec-92			8	150
A5-08B	11-Dec-92			8	55

Table 2-2

Detected Petroleum Hydrocarbons
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	WTPH-G (mg/kg)	WTPH-HCID* (mg/kg)		
			Gasoline	Diesel	Heavier
A5-11	14-Dec-92			120	370
A5-12	14-Dec-92			3 U	15
AREA 6					
A6-01	14-Dec-92			69	410
A6-02	14-Dec-92			15	100
A6-03A	20-Jan-93		20 U	39	170
A6-03B	20-Jan-93			790	770
A6-05	21-Jan-93		20 U	55	340
A6-07	15-Dec-92			3 U	15
A6-08	15-Dec-92			3 U	54
A6-09	16-Dec-92			17	60
A6-10	21-Jan-93		20 U	110	730
AREA 7					
A7-01A	17-Dec-92			19 U	230
A7-06	16-Dec-92		20 U	420 U	83000
A7-07	15-Dec-92			3 U	140
A7-08	17-Dec-92			431	620
A7-09	17-Dec-92			19 U	600
A7-14	17-Dec-92		20 U	50	176
A7-16	17-Dec-92			19 U	1400
A7-17	15-Dec-92		20 U	2 U	89
A7-19A	16-Dec-92		20 U	363	1174
A7-20	15-Dec-92		20 U	50 E	100 E
AREA 8					
A8-01	15-Dec-92		20 U	50 E	100 E
A8-02A	15-Dec-92		20 U	21 U	3900
A8-02B	15-Dec-92		20 U	38	60
A8-03	20-Jan-93		20 U	770	3300
A8-05	16-Dec-92			19 U	58
A8-06	14-Dec-92			190	3400
A8-07	11-Dec-92			43	510
A8-08	14-Dec-92		20 U	16	200
A8-09	20-Jan-93		20 E	29000	47000
A8-10A	15-Dec-92		20 U	20 U	2300
AREA 9					
A9-01	21-Jan-93		20 U	77	270
A9-05	20-Jan-93		20 E	950	3600
A9-06	20-Jan-93		20 U	23	240
A9-07	20-Jan-93		20 U	39	260

Table 2-2

Detected Petroleum Hydrocarbons
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	WTPH-G (mg/kg)	WTPH-HCID* (mg/kg) Gasoline	Diesel	Heavier
AREA 9					
A9-08	17-Dec-92		20 U	2886	2948
A9-11	20-Jan-93	0.72	20 E	6900	24000
A9-12	20-Jan-93		20 U	52	410
A9-13	20-Jan-93		20 U	58	550
A9-14	20-Jan-93		20 U	19	140
Area 10					
A10-02A	28-Dec-92		20 U	350	20 U
A10-03	10-Dec-92			4300	2300
A10-04	10-Dec-92			870	1700
A10-05	10-Dec-92			230	1000
A10-06	10-Dec-92			16	100
A10-07	10-Dec-92			2400	16400
A10-08	10-Dec-92			140	1100
A10-09	11-Dec-92			310	1300
A10-10	10-Dec-92			1900	5900
A10-11	11-Dec-92			58	220
A10-12	11-Dec-92			21	250
A10-13	09-Dec-92			19	110
A10-14	10-Dec-92			33	240
A10-15A	28-Dec-92		20 U	220	830
A10-16A	29-Dec-92		20 U	50 E	100 U
A10-17	20-Jan-93		20 U	300	310
MW-104A	23-Dec-92		20 U	151	239
MW-105D	28-Dec-92		20 U	33	250
MW-106A	28-Dec-92		20 U	58	390

Note:
* - If the WTPH-HCID detection limit was exceeded, the sample was rerun for the appropriate analysis
U - Undetected at method reporting limit shown.
E - Concentration exceeds calibration range of the instrument.

Table 2-3
Detected Volatile Organic Compounds
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Acetone (mg/kg)	2-Butanone (mg/kg)	Total Xylenes (mg/kg)
AREA 3				
A3-05	09-Dec-92	1.5 U	1.7 B	1.5 U
AREA 8				
A8-06	14-Dec-92	0.019	0.005 J	0.011 U
A8-09	20-Jan-93	0.079	0.05 U	0.014 J
AREA 10				
A10-03	10-Dec-92	1.4 U	1.9 B	1.4 U

Notes:
U - Undetected at method reporting limit shown.
J - Estimated value less than the quantitation limit.
B - Analyte detected in blank and sample.

Table 2-4
Detected Semivolatile Organics
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	4-Methyl-phenol (mg/kg)	1,2,4-Trichloro-benzene (mg/kg)	Naphthalene (mg/kg)	2-Methyl naphthalene (mg/kg)
AREA 3					
A3-02A	09-Dec-92	0.33 U	0.33 U	0.33 U	0.33 U
A3-02B	09-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
A3-02C	09-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
A3-05	09-Dec-92	0.32 U	0.32 U	0.32 U	0.038 J
SEF-16	24-Jan-93	N/A	N/A	N/A	N/A
EX-2	11-Aug-93	N/A	N/A	7 Ua	N/A
Product	11-Aug-93	N/A	N/A	2000 Ua	N/A
AREA 4					
A4-02	21-Jan-92	0.39 U	0.39 U	0.16 J	0.39 U
A4-03	20-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
A4-06	21-Jan-92	0.36 U	0.36 U	0.36 U	0.36 U
AREA 5					
A5-01	14-Dec-92	0.42 U	0.42 U	0.42 U	0.42 U
A5-01(rerun)	14-Dec-92	0.31 U	0.31 U	0.31 U	0.31 U
A5-02	14-Dec-92	0.032 J	0.32 U	0.71	0.11 J
A5-03	16-Dec-92	0.48 U	0.48 U	0.48 U	0.48 U
A5-05A	21-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
A5-05B	21-Jan-93	0.48 U	0.48 U	8.3 E	0.35 J
A5-05B(rerun)	21-Jan-93	1.2 U	1.2 U	1.2 U	0.18 DJ
AREA 6					
A6-03B	20-Jan-93	0.39 U	0.39 U	0.39 U	0.25 J
AREA 7					
A7-02	17-Dec-92	0.33 U	0.33 U	0.33 U	0.33 U
A7-05A	16-Dec-92	0.38 U	0.38 U	0.38 U	0.38 U
A7-07	15-Dec-92	0.36 U	0.36 U	0.082 J	0.36 U
A7-19A	16-Dec-92	1.2 U	0.4 J	5.6	0.95 J
AREA 8					
A8-1S-A	21-Dec-92	350 U	350 U	350 U	350 U
A8-01	15-Dec-92	0.38 U	0.38 U	0.32 J	0.089 J
A8-03	20-Jan-93	0.34 U	0.34 U	0.041 J	0.34 U
A8-05	16-Dec-92	0.36 U	0.36 U	0.36 U	0.36 U
A8-09	20-Jan-93	36 U	36 U	36 U	36 U
A8-10A	15-Dec-92	1.6 U	1.6 U	1.6 U	1.6 U
A8-13	21-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
AREA 9					
A9-08	17-Dec-92	21 U	21 U	21 U	21 U
A9-10	17-Dec-92	0.35 U	0.35 U	0.35 U	0.35 U
AREA 10					
A10-05	10-Dec-92	330 U	330 U	330 U	330 U
A10-17	20-Jan-93	0.4 U	0.4 U	0.4 U	0.4 U
A10-18	20-Jan-93	0.39 U	0.39 U	0.39 U	0.39 U

See Page 7 for Note.

Table 2-4
Detected Semivolatile Organics
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Acenaph-thylene (mg/kg)	Acenaph-thene (mg/kg)	Dibenzo-furan (mg/kg)	Fluorene (mg/kg)
AREA 3					
A3-02A	09-Dec-92	0.33 U	0.33 U	0.33 U	0.33 U
A3-02B	09-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
A3-02C	09-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
A3-05	09-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
SEF-16	24-Jan-93	3.1 b	3.9 b	N/A	19.4 b
EX-2	11-Aug-93	14 Ua	7 Ua	N/A	3 D
Product	11-Aug-93	1000 Ua	2500 Ua	N/A	920 D
AREA 4					
A4-02	21-Jan-92	0.39 U	0.39 U	0.39 U	0.39 U
A4-03	20-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
A4-06	21-Jan-92	0.36 U	0.36 U	0.36 U	0.36 U
AREA 5					
A5-01	14-Dec-92	0.42 U	0.42 U	0.42 U	0.42 U
A5-01(rerun)	14-Dec-92	0.31 U	0.31 U	0.31 U	0.31 U
A5-02	14-Dec-92	0.15 J	0.04 J	0.061 J	0.32 U
A5-03	16-Dec-92	0.48 U	0.48 U	0.48 U	0.48 U
A5-05A	21-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
A5-05B	21-Jan-93	0.48 U	0.45 J	0.48 U	0.48 U
A5-05B(rerun)	21-Jan-93	1.2 U	0.23 DJ	1.2 U	1.2 U
AREA 6					
A6-03B	20-Jan-93	0.39 U	0.086 J	0.39 U	0.24 J
AREA 7					
A7-02	17-Dec-92	0.33 U	0.33 U	0.33 U	0.33 U
A7-05A	16-Dec-92	0.38 U	0.38 U	0.38 U	0.38 U
A7-07	15-Dec-92	0.36 U	0.36 U	0.36 U	0.36 U
A7-19A	16-Dec-92	1.2 U	0.52 J	0.24 J	0.22 J
AREA 8					
A8-1S-A	21-Dec-92	350 U	350 U	350 U	350 U
A8-01	15-Dec-92	0.38 U	0.041 J	0.048 J	0.38 U
A8-03	20-Jan-93	0.34 U	0.34 U	0.34 U	0.34 U
A8-05	16-Dec-92	0.36 U	0.36 U	0.36 U	0.36 U
A8-09	20-Jan-93	36 U	36 U	36 U	36 U
A8-10A	15-Dec-92	1.6 U	1.6 U	1.6 U	1.6 U
A8-13	21-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
AREA 9					
A9-08	17-Dec-92	21 U	21 U	21 U	21 U
A9-10	17-Dec-92	0.35 U	0.35 U	0.35 U	0.35 U
AREA 10					
A10-05	10-Dec-92	330 U	330 U	330 U	330 U
A10-17	20-Jan-93	0.4 U	0.4 U	0.4 U	0.4 U
A10-18	20-Jan-93	0.39 U	0.39 U	0.39 U	0.39 U

See Page 7 for Note.

Table 2-4
Detected Semivolatile Organics
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	4-Nitro-aniline (mg/kg)	Pentachloro-phenol (mg/kg)	Phen-anthrene (mg/kg)	Anthracene (mg/kg)
AREA 3					
A3-02A	09-Dec-92	0.79 U	0.79 U	0.14 J	0.33 U
A3-02B	09-Dec-92	0.78 U	0.78 U	0.24 J	0.046 J
A3-02C	09-Dec-92	0.79 U	0.79 U	0.089 J	0.32 U
A3-05	09-Dec-92	0.78 U	1.8 U	0.32 U	0.32 U
SEF-16	24-Jan-93	N/A	20 Ua	128 c	14 b
EX-2	11-Aug-93	N/A	N/A	18 D	1 D
Product	11-Aug-93	N/A	N/A	6000 D	590 D
AREA 4					
A4-02	21-Jan-92	0.94 U	0.94 U	0.08 J	0.39 U
A4-03	20-Jan-93	0.85 U	0.074 J	0.35 U	0.35 U
A4-06	21-Jan-92	0.87 U	0.076 J	0.049 J	0.36 U
AREA 5					
A5-01	14-Dec-92	1 U	1 U	0.061 J	0.42 U
A5-01(rerun)	14-Dec-92	0.76 U	0.76 U	0.31 U	0.31 U
A5-02	14-Dec-92	0.78 U	0.41 J	0.41	0.32 U
A5-03	16-Dec-92	1.2 U	1.2 U	0.16 J	0.48 U
A5-05A	21-Jan-93	0.85 U	0.85 U	0.35 U	0.35 U
A5-05B	21-Jan-93	1.2 U	1.2 U	0.48 U	0.48 U
A5-05B(rerun)	21-Jan-93	2.9 U	2.9 U	1.2 U	1.2 U
AREA 6					
A6-03B	20-Jan-93	0.96 U	0.96 U	0.39 J	0.39 U
AREA 7					
A7-02	17-Dec-92	0.8 U	0.8 U	0.33 U	0.33 U
A7-05A	16-Dec-92	0.92 U	0.92 U	0.38 U	0.38 U
A7-07	15-Dec-92	0.86 U	0.27 J	0.36 U	0.36 U
A7-19A	16-Dec-92	3 U	3 U	0.91 J	0.17 J
AREA 8					
A8-1S-A	21-Dec-92	840 U	110 J	77 J	350 U
A8-01	15-Dec-92	0.93 U	0.93 U	0.34 J	0.043 J
A8-03	20-Jan-93	0.83 U	0.83 U	0.09 J	0.34 U
A8-05	16-Dec-92	0.87 U	0.87 U	0.039 J	0.36 U
A8-09	20-Jan-93	87	200	36 U	36 U
A8-10A	15-Dec-92	4 U	4 U	1.6 U	1.6 U
A8-13	21-Jan-93	0.84 U	0.84 U	0.35 U	0.35 U
AREA 9					
A9-08	17-Dec-92	52 U	52 U	4.7 J	21 U
A9-10	17-Dec-92	0.84 U	0.84 U	0.35 U	0.35 U
AREA 10					
A10-05	10-Dec-92	790 U	790 U	330 U	330 U
A10-17	20-Jan-93	0.96 U	0.96 U	0.045 J	0.4 U
A10-18	20-Jan-93	0.94 U	0.94 U	0.39 U	0.39 U

See Page 7 for Note.

Table 2-4

Detected Semivolatile Organics
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Carbazole (mg/kg)	Fluor-anthene (mg/kg)	Pyrene (mg/kg)	Benzo(a)-anthracene (mg/kg)
AREA 3					
A3-02A	09-Dec-92	0.33 U	0.2 J	0.23 J	0.054 J
A3-02B	09-Dec-92	0.042 J	0.18 J	0.16 J	0.076 J
A3-02C	09-Dec-92	0.32 U	0.1 J	0.11 J	0.033 J
A3-05	09-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
SEF-16	24-Jan-93	N/A	102 c	77 c	21.7 b
EX-2	11-Aug-93	N/A	7.8 D	8.6 D	0.88 D
Product	11-Aug-93	N/A	5000 D	4000 D	1000 D
AREA 4					
A4-02	21-Jan-92	0.39 U	0.079 J	0.13 J	0.39 U
A4-03	20-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
A4-06	21-Jan-92	0.36 U	0.36 U	0.36 U	0.36 U
AREA 5					
A5-01	14-Dec-92	0.42 U	0.054 J	0.097 J	0.42 U
A5-01(rerun)	14-Dec-92	0.31 U	0.31 U	0.31 U	0.31 U
A5-02	14-Dec-92	0.32 U	0.24 J	0.54	0.32 U
A5-03	16-Dec-92	0.48 U	0.23 J	0.35 J	0.092 J
A5-05A	21-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
A5-05B	21-Jan-93	0.48 U	0.48 U	0.48 U	0.48 U
A5-05B(rerun)	21-Jan-93	1.2 U	1.2 U	1.2 U	1.2 U
AREA 6					
A6-03B	20-Jan-93	0.39 U	0.39 U	0.39 U	0.39 U
AREA 7					
A7-02	17-Dec-92	0.33 U	0.33 U	0.33 U	0.33 U
A7-05A	16-Dec-92	0.38 U	0.042 J	0.07 J	0.38 U
A7-07	15-Dec-92	0.36 U	0.3 J	0.52 J	0.13 J
A7-19A	16-Dec-92	0.39 J	1.3	1.1 J	0.3 J
AREA 8					
A8-1S-A	21-Dec-92	350 U	120 J	86 J	350 U
A8-01	15-Dec-92	0.38 U	0.31 J	0.63	0.13 J
A8-03	20-Jan-93	0.34 U	0.34 U	0.34 U	0.34 U
A8-05	16-Dec-92	0.36 U	0.055 J	0.075 J	0.36 U
A8-09	20-Jan-93	36 U	36 U	36 U	36 U
A8-10A	15-Dec-92	1.6 U	1.6 U	0.24 J	1.6 U
A8-13	21-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
AREA 9					
A9-08	17-Dec-92	21 U	7.1 J	6.2 J	2.7 J
A9-10	17-Dec-92	0.35 U	0.089 J	0.14 J	0.039 J
AREA 10					
A10-05	10-Dec-92	330 U	330 U	38 J	330 U
A10-17	20-Jan-93	0.4 U	0.046 J	0.07 J	0.4 U
A10-18	20-Jan-93	0.39 U	0.043 J	0.044 J	0.39 U

See Page 7 for Note.

Table 2-4

Detected Semivolatile Organics
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Chrysene (mg/kg)	bis(2-Ethyl-hexyl)-phthalate (mg/kg)	Benzo(b)fluor-anthene (mg/kg)	Benzo(k)fluor-anthene (mg/kg)
AREA 3					
A3-02A	09-Dec-92	0.076 J	0.33 U	0.095 J	0.33 U
A3-02B	09-Dec-92	0.085 J	0.036 BJ	0.069 J	0.32 U
A3-02C	09-Dec-92	0.044 J	0.037 BJ	0.044 J	0.32 U
A3-05	09-Dec-92	0.32 U	0.032 J	0.32 U	0.32 U
SEF-16	24-Jan-93	17.4 b	N/A	35.1 b,d	35.1 b,d
EX-2	11-Aug-93	1.6 D	N/A	1.4 Ua	0.7 Ua
Product	11-Aug-93	1300 D	N/A	1000 D	480 D
AREA 4					
A4-02	21-Jan-92	0.39 U	0.39 U	0.39 U	0.39 U
A4-03	20-Jan-93	0.35 U	0.092 J	0.35 U	0.35 U
A4-06	21-Jan-92	0.36 U	0.36 U	0.36 U	0.36 U
AREA 5					
A5-01	14-Dec-92	0.42 U	0.59	0.42 U	0.42 U
A5-01(rerun)	14-Dec-92	0.31 U	0.23 J	0.31 U	0.31 U
A5-02	14-Dec-92	0.32 U	0.039 J	0.32 U	0.32 U
A5-03	16-Dec-92	0.11 J	0.48 U	0.13 J	0.056 J
A5-05A	21-Jan-93	0.35 U	0.074 J	0.35 U	0.35 U
A5-05B	21-Jan-93	0.48 U	0.063 J	0.48 U	0.48 U
A5-05B(rerun)	21-Jan-93	1.2 U	1.2 U	1.2 U	1.2 U
AREA 6					
A6-03B	20-Jan-93	0.39 U	0.39 U	0.39 U	0.39 U
AREA 7					
A7-02	17-Dec-92	0.33 U	0.2 J	0.33 U	0.33 U
A7-05A	16-Dec-92	0.38 U	0.38 U	0.38 U	0.38 U
A7-07	15-Dec-92	0.22 J	0.16 J	0.33 J	0.1 J
A7-19A	16-Dec-92	0.31 J	1 J	0.39 J	1.2 U
AREA 8					
A8-1S-A	21-Dec-92	66 J	350 U	65 J	350 U
A8-01	15-Dec-92	0.19 J	0.38 U	0.19 J	0.38 U
A8-03	20-Jan-93	0.054 J	0.34 U	0.34 U	0.34 U
A8-05	16-Dec-92	0.36 U	1.1	0.36 U	0.36 U
A8-09	20-Jan-93	36 U	36 U	36 U	36 U
A8-10A	15-Dec-92	1.6 U	1.6 U	1.6 U	1.6 U
A8-13	21-Jan-93	0.35 U	0.062 J	0.35 U	0.35 U
AREA 9					
A9-08	17-Dec-92	2.9 J	21 U	2.8 J	21 U
A9-10	17-Dec-92	0.042 J	0.077 J	0.054 J	0.35 U
AREA 10					
A10-05	10-Dec-92	330 U	330 U	330 U	330 U
A10-17	20-Jan-93	0.4 U	0.4 U	0.4 U	0.4 U
A10-18	20-Jan-93	0.39 U	0.39 U	0.39 U	0.39 U

See Page 7 for Note.

Table 2-4

Detected Semivolatile Organics
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Benzo(a)-pyrene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	Dibenz(a,h)-anthracene (mg/kg)	Benzo(g,h,i)-perylene (mg/kg)
AREA 3					
A3-02A	09-Dec-92	0.044 J	0.33 U	0.33 U	0.33 U
A3-02B	09-Dec-92	0.033 J	0.32 U	0.32 U	0.32 U
A3-02C	09-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
A3-05	09-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
SEF-16	24-Jan-93	38.3 b	7.3 b,d	7.3 b,d	9.5 U
EX-2	11-Aug-93	0.7 Ua	0.7 Ua	1.4 Ua	1.4 Ua
Product	11-Aug-93	900 D	740 D	100 Ua	650 D
AREA 4					
A4-02	21-Jan-92	0.39 U	0.39 U	0.39 U	0.39 U
A4-03	20-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
A4-06	21-Jan-92	0.36 U	0.36 U	0.36 U	0.36 U
AREA 5					
A5-01	14-Dec-92	0.42 U	0.42 U	0.42 U	0.42 U
A5-01(rerun)	14-Dec-92	0.31 U	0.31 U	0.31 U	0.31 U
A5-02	14-Dec-92	0.32 U	0.32 U	0.32 U	0.32 U
A5-03	16-Dec-92	0.084 J	0.48 U	0.48 U	0.48 U
A5-05A	21-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
A5-05B	21-Jan-93	0.17 J	0.48 U	0.48 U	0.48 U
A5-05B(rerun)	21-Jan-93	1.2 U	1.2 U	1.2 U	1.2 U
AREA 6					
A6-03B	20-Jan-93	0.39 U	0.39 U	0.39 U	0.39 U
AREA 7					
A7-02	17-Dec-92	0.33 U	0.33 U	0.33 U	0.33 U
A7-05A	16-Dec-92	0.38 U	0.38 U	0.38 U	0.38 U
A7-07	15-Dec-92	0.13 J	0.18 J	0.36 U	0.36 U
A7-19A	16-Dec-92	0.13 J	1.2 U	1.2 U	1.2 U
AREA 8					
A8-1S-A	21-Dec-92	350 U	350 U	350 U	350 U
A8-01	15-Dec-92	0.18 J	0.38 U	0.38 U	0.38 U
A8-03	20-Jan-93	0.34 U	0.34 U	0.34 U	0.34 U
A8-05	16-Dec-92	0.36 U	0.36 U	0.36 U	0.36 U
A8-09	20-Jan-93	36 U	36 U	36 U	36 U
A8-10A	15-Dec-92	1.6 U	1.6 U	1.6 U	1.6 U
A8-13	21-Jan-93	0.35 U	0.35 U	0.35 U	0.35 U
AREA 9					
A9-08	17-Dec-92	2.7 J	2.4 J	21 U	2.4 J
A9-10	17-Dec-92	0.35 U	0.35 U	0.35 U	0.35 U
AREA 10					
A10-05	10-Dec-92	330 U	330 U	330 U	330 U
A10-17	20-Jan-93	0.4 U	0.4 U	0.4 U	0.4 U
A10-18	20-Jan-93	0.39 U	0.39 U	0.39 U	0.39 U

See Page 7 for Note.

Table 2-4
Detected Semivolatile Organics
Test Pit Soil Results
Weyerhaeuser Everett East Site

Notes:

B - Analyte detected in blank and sample.

D - compound identified at a secondary dilution.

E - Concentration exceeded calibration range of the instrument.

J - Estimated value.

N/A - Not analyzed.

P - Greater than 25% difference for the detected contrations between two gas chromatograph columns.

U - Undetected at method reporting limit shown.

a - MRL was elevated because sample required diluting.

b - Result was confirmed qualitatively using GC/MS.

c - Result was confirmed from a diluted sample qualitatively using gas chromatograph and mass spectrometry.

d - These compounds coeluted; therefore, results were reported as combined concentrations.

e - Not confirmed by GC/MS due to low level.

Table 2-5
Detected Phenols
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Indentification	Date Collected	Compound			
		2,3,5,6-Tetrachlorophenol (mg/kg)	2,3,4,6-Tetrachlorophenol (mg/kg)	2,3,4,5-Tetrachlorophenol (mg/kg)	Penta-chlorophenol (mg/kg)
AREA 3					
A3-03A	09-Dec-92	0.00031 U	0.061	0.0116 P	0.0361
A3-03B	09-Dec-92	0.00027 U	0.044	0.00027 U	0.0126
A3-03C	09-Dec-92	0.00031 U	0.041	0.0029	0.0042
A3-03D	09-Dec-92	0.027 U	4.8 E	0.37 P	7.7 E
AREA 4					
A4-02	21-Jan-92	0.00039 U	0.002	0.00039 U	0.0109
A4-03	20-Jan-93	0.00038 U	0.0022	0.00038 U	0.0304
A4-06	21-Jan-92	0.00038 U	0.00038 U	0.00038 U	0.16
AREA 5					
A5-01	14-Dec-92	0.00033 U	0.0083	0.00033 U	0.0358
A5-02	14-Dec-92	0.00033 U	0.0358	0.0025 P	0.241 E
A5-03	16-Dec-92	0.0033 U	0.0033 U	0.0033 U	0.0171 P
A5-08A	11-Dec-92	0.00033 U	0.0072	0.0069 P	0.0455 E
A5-08B	11-Dec-92	0.00033 U	0.0048	0.00015 JP	0.0394
A5-10	11-Dec-92	0.00033 U	0.00033 U	0.00033 U	0.0102
A5-11	14-Dec-92	0.00033 U	0.0027	0.0388 P	0.0638 E
A5-12	14-Dec-92	0.00033 U	0.00033 U	0.00033 U	0.0136
AREA 6					
A6-01	14-Dec-92	0.00033 U	0.0072	0.004 P	0.0693 E
A6-03B	20-Jan-93	0.0004 U	0.0099	0.0004 U	0.056 E
AREA 8					
A8-02A	15-Dec-92	0.0033 U	0.0184	0.0033 U	0.141
A8-02B	15-Dec-92	0.033 U	1.29 E	0.314 P	32.4 P
A8-03	20-Jan-93	0.0035 U	0.0035 U	0.0035 U	0.047
A8-09	20-Jan-93	0.035 U	2.54	0.035 U	30.3 E
A8-10A	15-Dec-92	0.0033 U	0.0033 U	0.0033 U	0.0395
AREA 10					
A10-06	10-Dec-92	0.00031 U	0.013	0.0035 P	0.137 E
A10-09D (rerun)	11-Dec-92	0.0033 U	0.021	0.03 P	0.306
A10-10	10-Dec-92	0.0021 U	0.147	0.124 P	0.838 PE
A10-11D (rerun)	11-Dec-92	0.033 U	0.36	0.033 U	0.904
A10-12D (rerun)	11-Dec-92	0.033 U	0.174	0.033 U	0.799
A10-13	09-Dec-92	0.00031 U	0.0078	0.0024 P	0.0168 PE
A10-14	10-Dec-92	0.00031 U	0.0027	0.0017 P	0.0088
A10-17	20-Jan-93	0.0004 U	0.0023	0.0004 U	0.002 P
A10-18	20-Jan-93	0.0004 U	0.0004 U	0.0004 U	0.0056

Notes:

U - Undetected at method reporting limit shown.

E - Concentration exceeded calibration range of the instrument.

P - Greater than 25% difference between GC columns.

J - Estimated value.

Table 2-6
Detected Pesticides & PCBs
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	beta-BHC (mg/kg)	Aldrin (mg/kg)	4,4'-DDE (mg/kg)	Endrin (mg/kg)	Endosulfan II (mg/kg)
AREA 3						
A3-02C	09-Dec-92	0.002 U	0.002 U	0.004 U	0.004 U	0.004 U
A3-12	15-Dec-92	0.0018 U	0.0018 U	0.0035 U	0.0035 U	0.0045 P
AREA 6						
A6-01	14-Dec-92	0.0021 U	0.0021 U	0.0042 J	0.0042 U	0.0042 U
A6-02	14-Dec-92	0.02 U	0.02 U	0.0088 JP	0.04 U	0.04 U
A6-05	21-Jan-93	0.002 U	0.002 U	0.0039 U	0.0039 U	0.0048 P
A6-10	21-Jan-93	0.0019 U	0.0019 U	0.0023 J	0.0038 U	0.0038 U
AREA 7						
A7-01A	17-Dec-92	0.0017 U	0.0009 JP	0.0035 U	0.0035 U	0.0035 U
A7-01B	17-Dec-92	0.18 U	0.18 U	0.078 JP	0.35 U	0.35 U
A7-04A	17-Dec-92	0.0026 U	0.0026 U	0.0026 J	0.0016 JP	0.0052 U
A7-04B	17-Dec-92	0.03 U	0.03 U	0.027 J	0.061 U	0.061 U
A7-05A	16-Dec-92	0.0018 U	0.0018 U	0.0051	0.0036 U	0.0036 U
A7-07	15-Dec-92	0.018 U	0.018 U	0.0044 JP	0.036 U	0.034 J
A7-14	17-Dec-92	0.0018 U	0.0018 U	0.0012 JP	0.0036 U	0.0036 U
A7-16	17-Dec-92	0.0021 U	0.0021 U	0.00092 J	0.0042 U	0.00098 JP
A7-17	15-Dec-92	0.0018 U	0.0018 U	0.0036 U	0.0036 U	0.0036 U
A7-19A	16-Dec-92	0.27 U	0.27 U	0.54 U	0.54 U	0.19 J
A7-19B	16-Dec-92	0.0085 JP	0.026 P	0.0035 JP	0.035 U	0.035 U
MW-105D	23-Dec-92	0.019 U	0.019 U	0.028 J	0.0061 JP	0.039 U
AREA 9						
A9-01	21-Jan-93	0.0018 U	0.0018 U	0.0035 U	0.0035 U	0.0045
A9-05	20-Jan-93	0.0021 U	0.0021 U	0.033	0.0042 U	0.0042 U
A9-09	17-Dec-92	0.2 U	0.2 U	0.41 P	0.054 JP	0.39 U
A9-10	17-Dec-92	0.018 U	0.018 U	0.0085 J	0.036 U	0.036 U
A9-12	20-Jan-93	0.0018 U	0.0018 U	0.0036 U	0.0036 U	0.0036 U
AREA 10						
A10-05	10-Dec-92	2.1 U	2.1 U	4.2 U	4.2 U	3.8 U
A10-09	11-Dec-92	0.0021 U	0.0021 U	0.00051 J	0.0042 U	0.0042 U

NOTES:

U - Undetected at method reporting limit shown.

E - Concentration exceeded instrument calibration range.

P - Greater than 25% difference between GC columns.

J - Estimated value.

Table 2-6
Detected Pesticides & PCBs
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	4,4'-DDD (mg/kg)	4,4'-DDT (mg/kg)	Methoxychlor (mg/kg)	Endrin aldehyde (mg/kg)	alpha-Chlordane (mg/kg)
AREA 3						
A3-02C	09-Dec-92	0.004 U	0.004 U	0.02 U	0.004 U	0.002 U
A3-12	15-Dec-92	0.0013 JP	0.0035 U	0.018 U	0.0074	0.0018 U
AREA 6						
A6-01	14-Dec-92	0.0042 U	0.0042 U	0.021 U	0.0042 U	0.0021 U
A6-02	14-Dec-92	0.04 U	0.04 U	0.2 U	0.04 U	0.02 U
A6-05	21-Jan-93	0.0039 U	0.0039 U	0.02 U	0.0092	0.0004 JP
A6-10	21-Jan-93	0.0038 U	0.0038 U	0.019 U	0.0016 JP	0.0023
AREA 7						
A7-01A	17-Dec-92	0.0035 U	0.0035 U	0.017 U	0.0035 U	0.0018 U
A7-01B	17-Dec-92	0.35 U	0.082 JP	1.8 U	0.35 U	0.18 U
A7-04A	17-Dec-92	0.0045 JP	0.0052 U	0.026 U	0.0052 U	0.0087 P
A7-04B	17-Dec-92	0.061 U	0.011 JP	0.3 U	0.061 U	0.031 U
A7-05A	16-Dec-92	0.0008 JP	0.0036 U	0.018 U	0.0036 U	0.0018 U
A7-07	15-Dec-92	0.036 U	0.036 U	0.18 U	0.046	0.019 U
A7-14	17-Dec-92	0.0036 U	0.0036 U	0.018 U	0.0036 U	0.0018 U
A7-16	17-Dec-92	0.0042 U	0.0042 U	0.021 U	0.0042 U	0.0021 U
A7-17	15-Dec-92	0.0036 U	0.0036 U	0.018 U	0.0036 U	0.0019 U
A7-19A	16-Dec-92	0.54 U	0.54 U	2.7 U	0.54 U	0.28 U
A7-19B	16-Dec-92	0.035 U	0.035 U	0.18 U	0.035 U	0.018 U
MW-105D	23-Dec-92	0.039 U	0.039 U	0.19 U	0.039 U	0.02 U
AREA 9						
A9-01	21-Jan-93	0.0035 U	0.0035 U	0.018	0.0066	0.00035 JP
A9-05	20-Jan-93	0.0045 P	0.0042 U	0.021 U	0.0042 U	0.0022 U
A9-09	17-Dec-92	0.39 U	0.14 JP	2 U	0.12 JP	0.35
A9-10	17-Dec-92	0.036 U	0.036 U	0.18 U	0.036 U	0.019 U
A9-12	20-Jan-93	0.0036 U	0.0036 U	0.0022 J	0.0036 U	0.0019 U
AREA 10						
A10-05	10-Dec-92	4.2 U	4.2 U	21 U	4.2 U	2.1 U
A10-09	11-Dec-92	0.0042 U	0.0042 U	0.021 U	0.0042 U	0.0022 U

NOTES:

U - Undetected at method reporting limit shown.

E - Concentration exceeded instrument calibration range.

P - Greater than 25% difference between GC columns.

J - Estimated value.

Table 2-6
Detected Pesticides & PCBs
Test Pit Soil Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	gamma-Chlordane (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)
AREA 3						
A3-02C	09-Dec-92	0.002 U	0.039 U	0.039 U	0.039 U	0.033 J
A3-12	15-Dec-92	0.0018 U	0.034 U	0.034 U	0.034 U	0.14
AREA 6						
A6-01	14-Dec-92	0.0021 U	0.041 U	0.041 U	0.041 U	0.041 U
A6-02	14-Dec-92	0.02 U	0.39 U	0.39 U	0.51	0.39 U
A6-05	21-Jan-93	0.002 U	0.038 U	0.038	0.038 U	0.17
A6-10	21-Jan-93	0.00041 JP	0.037 U	0.037 U	0.15	0.052
AREA 7						
A7-01A	17-Dec-92	0.0017 U	0.047	0.034 U	0.034 U	0.034 U
A7-01B	17-Dec-92	0.18 U	3.4 U	3.4 U	4.3	3.4 U
A7-04A	17-Dec-92	0.0087 P	0.05 U	0.05 U	0.1	0.053
A7-04B	17-Dec-92	0.03 U	0.59 U	0.59 U	1	0.59 U
A7-05A	16-Dec-92	0.00093 JP	0.052 P	0.035 U	0.29	0.035 U
A7-07	15-Dec-92	0.018 U	0.35 U	0.35 U	0.35 U	0.89
A7-14	17-Dec-92	0.0018 U	0.035 U	0.035 U	0.078	0.035 U
A7-16	17-Dec-92	0.0021 U	0.04 U	0.04 U	0.075	0.042
A7-17	15-Dec-92	0.0018 U	0.035 U	0.035 U	0.015 J	0.035 U
A7-19A	16-Dec-92	0.27 U	5.2 U	5.2 U	6.6	4.4 JP
A7-19B	16-Dec-92	0.018 U	1.2	0.34 U	0.13 J	0.34 U
MW-105D	23-Dec-92	0.0042 JP	0.38 U	0.38 U	1.8	0.53
AREA 9						
A9-01	21-Jan-93	0.0018 U	0.034 U	0.034 U	0.13	0.12
A9-05	20-Jan-93	0.0067 P	0.041 U	0.041 U	1.8 EP	0.6 EP
A9-09	17-Dec-92	0.058 JP	3.8 U	3.8 U	22	7
A9-10	17-Dec-92	0.018 U	0.35 U	0.35 U	0.64	0.35 U
A9-12	20-Jan-93	0.0018 U	0.035 U	0.035 U	0.035 U	0.035 U
AREA 10						
A10-05	10-Dec-92	2.1 U	41 U	41 U	41 U	87
A10-09	11-Dec-92	0.0021 U	0.041 U	0.041 U	0.041 U	0.016 J

NOTES:

U - Undetected at method reporting limit shown.

E - Concentration exceeded instrument calibration range.

P - Greater than 25% difference between GC columns.

J - Estimated value.

Table 2-7

Arsenic Results for Soil
Weyerhaeuser Everett East Site

Sample Idenfication	Arsenic Concentration (mg/kg)
AREA 3	
A3-05	20.0
A3-01	5.8
A3-04	5.3
AREA 10	
A10-08	5.2
A10-05	13.3

Table 3-1

Summary of Monitoring Well Details
Weyerhaeuser Everett East Site

Well	Date Drilled	Elevation Top of PVC Well Casing (ft msl)	Total Depth (ft bgs)	Filter Pack Internal (ft bgs)	Well Screen Interval (ft bgs)
AREA 8					
MW-100S	12/21/92	11.91	10	3 - 10	5 - 10
MW-100D	12/21/92	12.14	25	13 - 25	15 - 25
MW-101S	12/21/92	11.97	7.5	2 - 7.5	2.5 - 6.5
MW-102S	12/22/92	11.49	7.5	2.5 - 7.5	3.25 - 6.25
MW-103S	12/22/92	14.01	9.5	3 - 9.5	4.5 - 8.5
MW-103D	12/22/92	13.52	25	13 - 25	15 - 25
AREA 7					
MW-104S	12/23/92	14.83	11.5	4 - 11.5	5.5 - 10.5
MW-105S	12/23/92	11.81	7.5	2 - 7.5	3 - 7.25
MW-105D	12/23/92	12.19	25	11.5 - 25	15 - 25
MW-106S	12/28/92	8.66	6.5	1.9 - 6	2.25 - 6.25
AREA 9					
MW-107S	12/28/92	10.64	6	2 - 6	2.5 - 6
AREA 10					
MW-108S	12/28/92	11.15	7	1.75 - 7	2 - 7
MW-108D	12/28/92	10.88	28	15 - 28	18 - 28
MW-109S	12/31/92	11.36	11	3 - 11	5 - 11

NOTE: ft msl = Feet mean sea level.
ft bgs = Feet below the ground surface.

Table 3-2

Groundwater Monitoring Well Location Rationale
Weyerhaeuser Everett East Site

Monitor Well Number	Location	Location Rationale	Laboratory Parameters[1]
MW-100S	Southeastern Area 8	Potential Mill E/Koppers influence; characterize adjacent concrete pads	WTPH-GAS/BTEX, WTPH-D, PCP, semi-VOCs, Dissolved arsenic
MW-100D	Southeastern Area 8	Downgradient from Area 3 dip tank pad	VOC, WTPH-D, semi-VOCs, PCP, Dissolved arsenic
MW-101S	South-central Eastern Area 8	Framing shop	WTPH-D, semi-VOCs, Dissolved arsenic
MW-102S	North-central Eastern Area 8	Downgradient from oil/paint storage building; possible upgradient dip tank site	WTPH-GAS/BTEX, WTPH-D, PCP, semi-VOCs, Dissolved arsenic
MW-103S	Northeastern Area 8	Downgradient from leaking chip dumper and SE fire area	WTPH-GAS/BTEX, PCP, semi-VOCs, Dioxin, PCB, Dissolved arsenic
MW-103D	Northeastern Area 8		VOC, WTPH-D, semi-VOCs, Dissolved arsenic
MW-104S	Eastern Area 7	Downgradient from SE fire area and former saw mill	WTPH-D, semi-VOCs, PCB, Dioxin, Dissolved arsenic
MW-105S	Northeastern Area 7	Former saw mill site and fire area	WTPH-GAS/BTEX, WTPH-D, semi-VOCs, PCB, Dioxin, Dissolved arsenic
MW-105D	Northeastern Area 7		VOC, WTPH-D, semi-VOCs, Dioxin, Dissolved arsenic
MW-106S	Northern Area 9	Former parking lot	WTPH-GAS/BTEX, WTPH-D, semi-VOCs, Dissolved arsenic
MW-107S	Northern Area 10	Upgradient arsenic characterization; adjacent to potential petroleum contamination	WTPH-GAS/BTEX, WTPH-D, Dissolved arsenic
MW-108S	West-central Area 10	Upgradient arsenic	WTPH-D, Dissolved arsenic
MW-108D	West-central Area 10		VOC, WTPH-D, semi-VOCs, Dissolved arsenic
MW-109S	Southern Area 10/Northern Area 3	Characterize and delineate potential PCB, PCP, and petroleum contamination; upgradient arsenic	WTPH-GAS/BTEX, WTPH-D, semi-VOCs, Dissolved arsenic, PCP
WP-2	Southern Area 6	Downgradient from Dip Tank #3	WTPH-G, WTPH-D, VOC, semi-VOCs, PCB
WP-3	Southwest Area 5	Downgradient from Dip Tank Pad	WTPH-G, WTPH-D, VOC, semi-VOCs
WP-4	Northern Area 10	Downgradient from former 12,000-gallon diesel tank	WTPH-G, WTPH-D, VOC
WP-5	Southern Area 3	Downgradient from former diesel tank	WTPH-G, WTPH-D, VOC
WP-R1	Southern Area 3	Downgradient from WP-5	semi-VOCs
WP-R2	Southern Area 3	Downgradient from former diesel tank	semi-VOCs
WP-R3	Southern Area 3	South of former diesel tank	semi-VOCs

NOTE: S - designates shallow well completion.
A - designates deep well completion.

[1] Laboratory Methods: WTPH-Gas/BTEX (Ecology 8015M), WTPH-D (Ecology 8015M), VOC (EPA 624), semi-VOCs (EPA 625), PCB (EPA 608), PCP (EPA 604), Dissolved As (EPA 206.3).

Table 3-3

Detected Petroleum Hydrocarbons
Groundwater Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	WTPH-G (mg/L)	WTPH-D (mg/L)	
			Diesel	Heavier
MW-103D	01-Jan-93		0.5 U	1
MW-104S	22-Jan-93		1	0.5 U
MW-105S	22-Jan-93	0.05 U	2	3
MW-107S	20-Jan-93	0.33	20	4
MW-108S	20-Jan-93		0.5 U	3
MW-109S	20-Jan-93	0.69	0.5 U	2
WP-3	29-Dec-92	0.05 U	3	3 U
EX-1[1]	01-Jul-93		26.3	5.7
EX-2[2]	23-Jul-93	NA	0.25 U	0.75 U

Note: U - Undetected at method reporting limit shown.
1 = Before treatment.
2 = Following treatment.

Table 3-4
Detected Volatile Organic Compounds
Groundwater Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Methylene Chloride (µg/l)	Acetone (µg/l)
MW-103D	21-Jan-93	10 U	12
MW-105D	22-Jan-93	10 U	18
MW-106S	21-Jan-93	5 J	12
MW-107S	20-Jan-93	10 U	15
MW-109S	20-Jan-93	10 U	26
WP-5	29-Dec-92	10 U	14

Notes:

U - Undetected at method reporting limit shown.

J - Estimated value.

Table 3-5
Detected Semivolatile Organic Compounds
Groundwater Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Phenol (µg/l)	4-Methyl-phenol (µg/l)	Naphthalene (µg/l)	2-Methyl-naphthalene (µg/l)	Dimethyl phthalate (µg/l)	Dibenzo-furan (µg/l)	Pentachlor-ophenol (µg/l)	Phenan-threne (µg/l)
MW-102S	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	26 U	10 U
MW-103S	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U
MW-103D	21-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U
MW-104S	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U
MW-105S	22-Jan-93	2 J	29	4 J	10 U	10 U	10 U	25 U	2 J
MW-105D	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U
MW-106S	21-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U
MW-109S	20-Jan-93	1 J	10 U	7 J	1 J	10 U	10 U	25 U	2 J
WP-2	29-Dec-92	1 J	1 J	5 J	10 U	10 U	10 U	1 J	10 U
WP-3	29-Dec-92	10 U	10 U	2 J	10 U	10 U	10 U	26 U	10 U
WP-R1	13-Oct-93	11 U	6 J	71	5 J	1 J	1 J	8 J	9 J
WP-R2	13-Oct-93	11 U	11 U	11 U	11 U	11 U	11 U	28 U	11 U
WP-R3	13-Oct-93	10 U	10 U	2 J	10 U	10 U	10 U	26 U	1 J

Notes:
U - Undetected at method reporting limit shown.
J - Estimated value.
B - Analyte detected in blank and sample.

Table 3-5
Detected Semivolatile Organic Compounds
Groundwater Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Anthracene (µg/l)	Carbazole (µg/l)	Di-n-Butyl phthalate (µg/l)	Fluoran-thene (µg/l)	Pyrene (µg/l)	Benzo(a)-anthracene (µg/l)	Chrysene (µg/l)	bis(2-Ethyl-hexyl) phthalate (µg/l)
MW-102S	22-Jan-93	10 U	10 U	2 J	10 U	10 U	10 U	10 U	3 J
MW-103S	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
MW-103D	21-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J
MW-104S	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 J
MW-105S	22-Jan-93	10 U	10 U	10 U	3 J	4 J	1 J	1 J	10 U
MW-105D	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
MW-106S	21-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
MW-109S	20-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 J
WP-2	29-Dec-92	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8 BJ
WP-3	29-Dec-92	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 BJ
WP-R1	13-Oct-93	1 J	4 J	11 U	9 J	7 J	3 J	6 J	69
WP-R2	13-Oct-93	11 U	11 U	10 J	11 U	11 U	11 U	11 U	8 J
WP-R3	13-Oct-93	10 U	10 U	10 U	2 J	2 J	10 U	1 J	3 J

Notes:
U - Undetected at method reporting limit shown.
J - Estimated value.
B - Analyte detected in blank and sample.

Table 3-5
Detected Semivolatile Organic Compounds
Groundwater Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Di-n-Octyl phthalate (µg/l)	Benzo(b)fluor-anthene (µg/l)	Benzo(k)fluor-anthene (µg/l)	Benzo(a)-pyrene (µg/l)	Indeno(1,2,3-cd)pyrene (µg/l)	Benzo(g,h,i)-perylene (µg/l)
MW-102S	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U
MW-103S	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U
MW-103D	21-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U
MW-104S	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U
MW-105S	22-Jan-93	10 U	2 J	10 U	10 U	10 U	10 U
MW-105D	22-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U
MW-106S	21-Jan-93	10 U	10 U	10 U	10 U	10 U	10 U
MW-109S	20-Jan-93	4 J	10 U	10 U	10 U	10 U	10 U
WP-2	29-Dec-92	10 U	10 U	10 U	10 U	10 U	10 U
WP-3	29-Dec-92	10 U	10 U	10 U	10 U	10 U	10 U
WP-R1	13-Oct-93	11 J	4 J	2 J	3 J	2 J	2 J
WP-R2	13-Oct-93	11 U	11 U	11 U	11 U	11 U	11 U
WP-R3	13-Oct-93	10 U	1 J	10 U	10 U	10 U	10 U

Notes:
U - Undetected at method reporting limit shown.
J - Estimated value.
B - Analyte detected in blank and sample.

Table 3-6
Detected Phenols
Groundwater Results
Weyerhaeuser Everett East Site

Sample Indentification	Date Collected	Compound			
		2,3,5,6-Tetrachlorophenol (µg/L)	2,3,4,6-Tetrachlorophenol (µg/L)	2,3,4,5-Tetrachlorophenol (µg/L)	Pentachlorophenol (µg/L)
MW-103S	22-Jan-93	0.1 U	0.1 U	0.1 U	0.05 JP

Notes:
U - Undetected at method reporting limit shown.
J - Estimated value.
P - Greater than 25% difference between GC columns.

Table 3-7
Detected Pesticides And PCBs
Groundwater Results
Weyerhaeuser Everett East Site

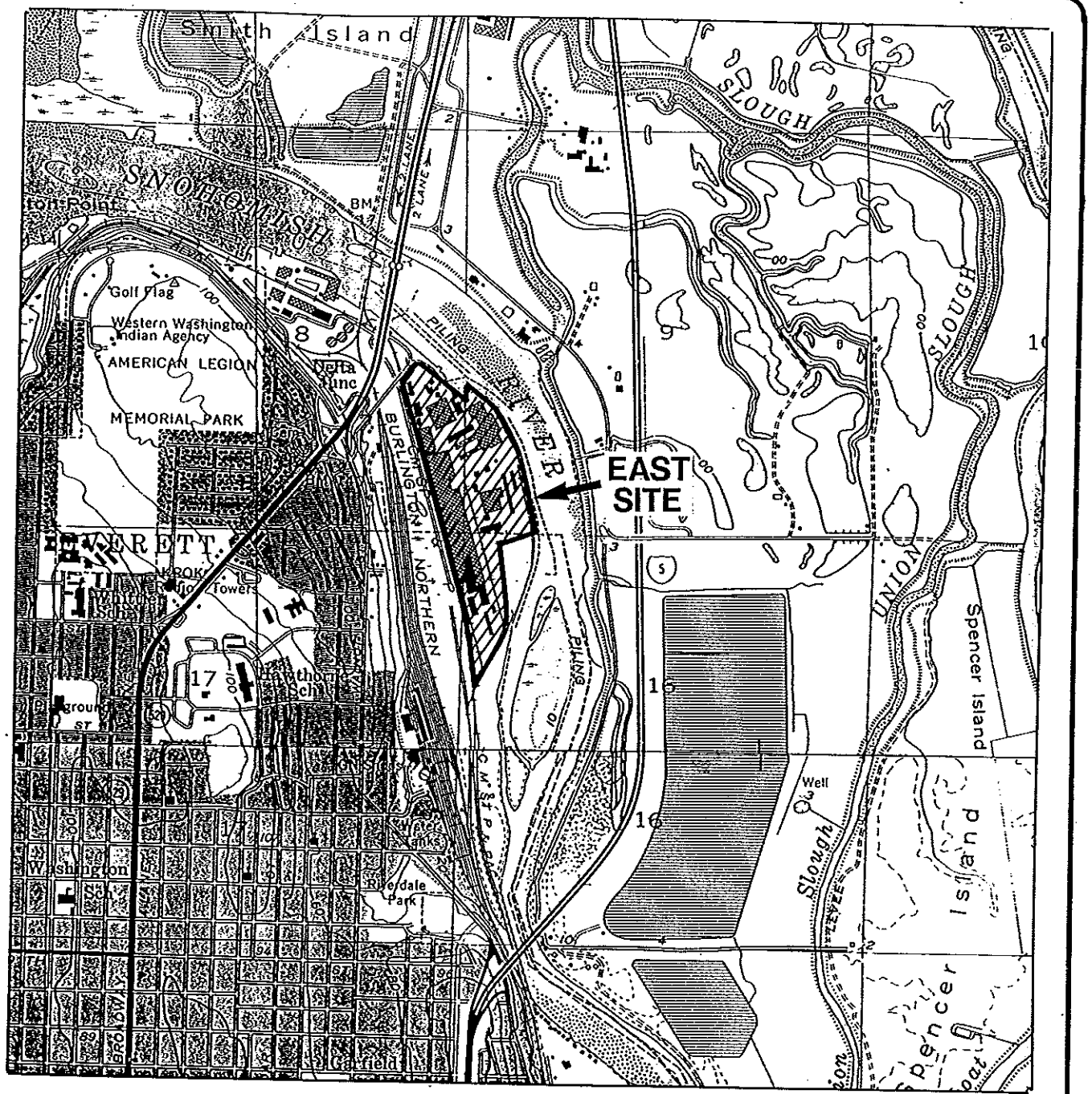
Sample Identification	Date Collected	Aldrin (µg/l)	Aroclor-1016 (µg/l)	Aroclor-1242 (µg/l)	Aroclor-1254 (µg/l)
MW-103S	22-Jan-93	0.011 JP	1 U	1 U	1
MW-105S	22-Jan-93	0.052 U	1 U	1 U	0.42 J
WP-2	29-Dec-92	0.054 U	0.78 J	1.2	1.1 U

Notes:
U - Undetected at method reporting limit shown.
J - Estimated value less than the quantitation limit.
P - Greater than 25% difference between GC columns.

Table 3-8
Detected Dissolved Arsenic
Groundwater Results
Weyerhaeuser Everett East Site

Sample Identification	Date Collected	Dissolved Arsenic Analysis EPA Method 206.2 (µg/l)
MW-100S	21-Jan-93	6
MW-100D	21-Jan-93	9
MW-101S	21-Jan-93	22
MW-102S	22-Jan-93	7
MW-103S	22-Jan-93	16
MW-103D	21-Jan-93	4
MW-104S	22-Jan-93	40
MW-105S	22-Jan-93	6
MW-106S	21-Jan-93	16
MW-107S	20-Jan-93	71
MW-108S	20-Jan-93	10
MW-108D	20-Jan-93	4,460
MW-109S	20-Jan-93	7

142322

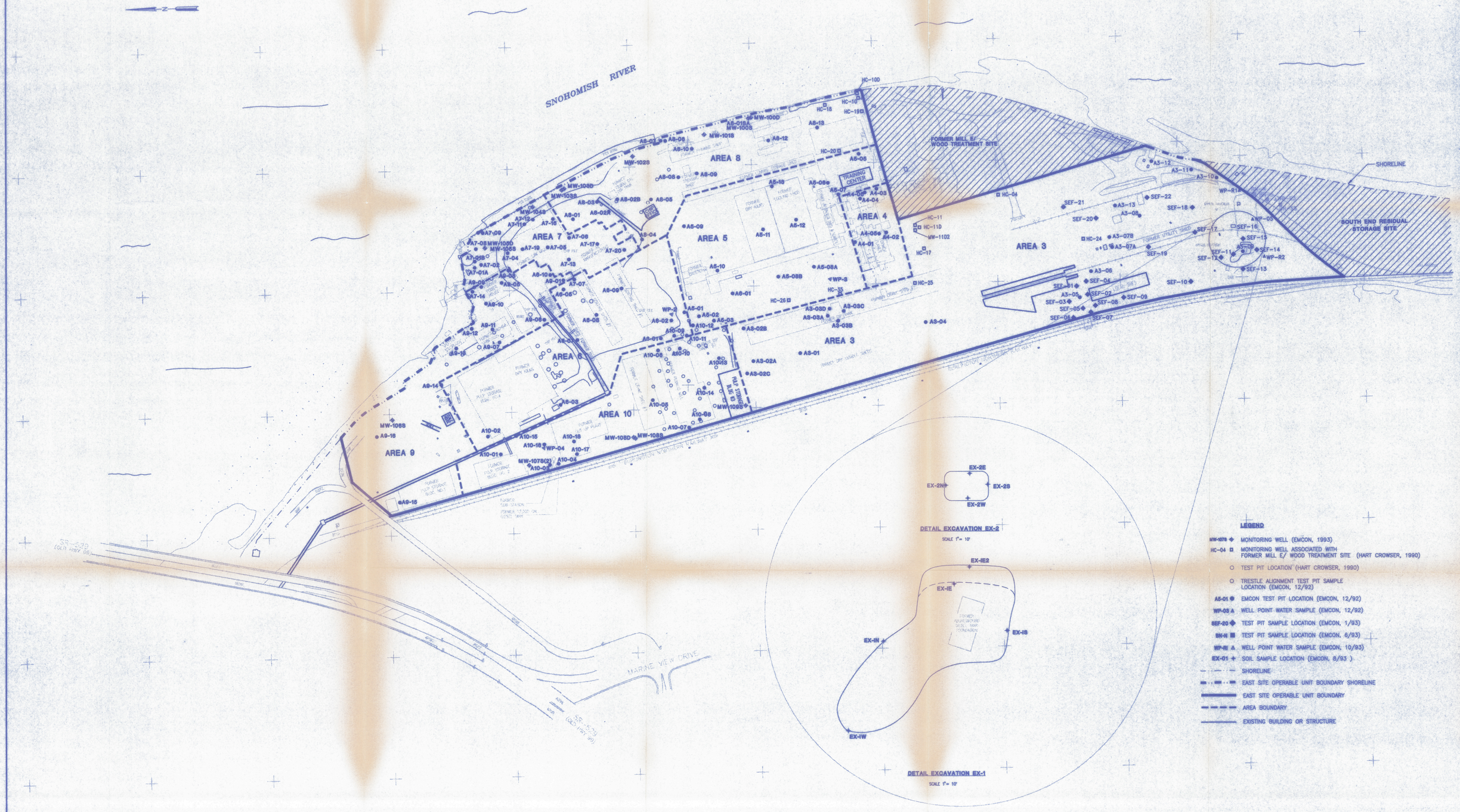


emcon Northwest, Inc.

DATE 12/94
DWN. JA
APPR.
REVIS.
PROJECT NO. 0141-037.64

Figure 1-1
WEYERHAEUSER EVERETT EAST SITE

SITE VICINITY MAP



DETAIL EXCAVATION EX-2

SCALE 1"= 10'

DETAIL EXCAVATION EX-1

SCALE 1"= 10'

LEGEND

- MW-107S ◆ MONITORING WELL (EMCON, 1993)
- HC-04 ◘ MONITORING WELL ASSOCIATED WITH FORMER MILL E/ WOOD TREATMENT SITE (HART CROWSER, 1990)
- ○ TEST PIT LOCATION (HART CROWSER, 1990)
- ○ TRESTLE ALIGNMENT TEST PIT SAMPLE LOCATION (EMCON, 12/92)
- A5-01 ● EMCON TEST PIT LOCATION (EMCON, 12/92)
- WP-03 ▲ WELL POINT WATER SAMPLE (EMCON, 12/92)
- SEF-20 ◆ TEST PIT SAMPLE LOCATION (EMCON, 1/93)
- BN-N ■ TEST PIT SAMPLE LOCATION (EMCON, 6/93)
- WP-R1 ▲ WELL POINT WATER SAMPLE (EMCON, 10/93)
- EX-01 ✦ SOIL SAMPLE LOCATION (EMCON, 8/93)
- SHORELINE
- EAST SITE OPERABLE UNIT BOUNDARY SHORELINE
- EAST SITE OPERABLE UNIT BOUNDARY
- AREA BOUNDARY
- EXISTING BUILDING OR STRUCTURE

Topography prepared by photogrammetric method by:
Clark M. Leeman Land Surveying

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
DATE OF ISSUE		DWN BY			CHK BY	
		DES BY			APP BY	

EMCON Northwest, Inc.

WEYERHAEUSER COMPANY
EVERETT, WASHINGTON

EAST SITE OPERABLE UNIT

DRAWING NO 1
PROJECT NO 0141-037.64

1=150 03/16/95 G:\DWG\0141\037\64\64BLC32

APPENDIX A

TEST PIT AND SOIL BORING LOGS

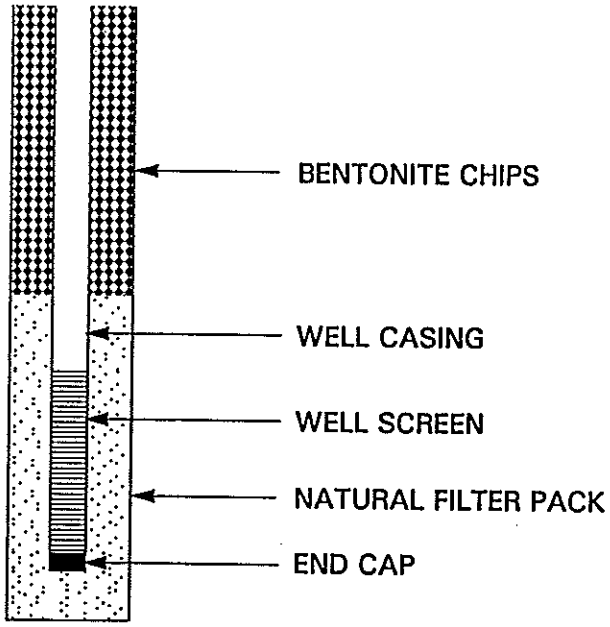
EXPLANATION OF SYMBOLS ON EXPLORATORY TEST PIT LOGS

EMCON
Northwest

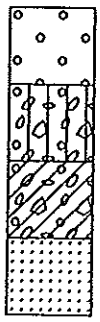
SAMPLE COLUMN

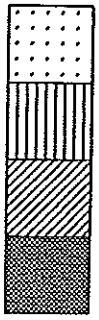
GRAB SAMPLE

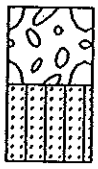
WELL DETAILS COLUMN



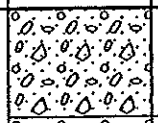
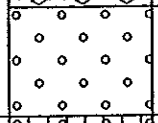
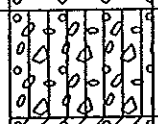
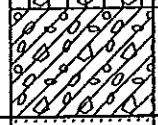
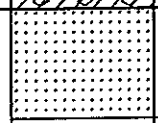
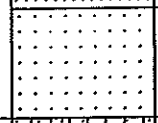
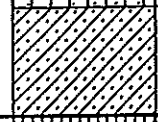
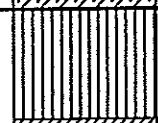
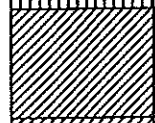
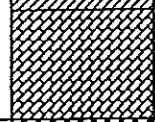
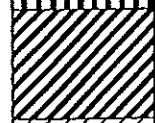
LITHOLOGIC COLUMN







SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-100D
PAGE 1 OF 2
GROUND ELEV. 9.60'
TOTAL DEPTH 25.00'
DATE COMPLETED 12/21/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
SS/S-1		8-10-13		5				0 to 0.5 foot: ASPHALT DEBRIS 0.5 to 7.5 feet: SAND (SW), brown, fine to coarse, sand, some fine to medium gravel, trace fines, medium dense, moist to damp, no noticeable odors. @ 3.0 feet: 1-inch-thick lens of coarse sand and fine gravel.
SS/S-2		1-2-3		10				7.5 to 7.8 feet: SILT (ML), brown. 7.8 to 12.5 feet: CLAY (CL), gray to gray brown, trace organic mottles, sandy silt lenses less than 0.5-inch-thick, firm, plastic. From 8.0 to 8.3 feet: abundant wood debris.
SS/S-3	13/18	1-3-6		15				12.5 to 13.2 feet: SAND (SP), gray to gray brown, medium grained sand, trace fines, loose, trace woody debris, trace organic matter. 13.2 to 17.5 feet: SANDY SILT WITH FINE SAND (ML), gray to gray brown, fine sand lenses less than 1-inch-thick, not plastic.
SS/S-4	17/18	3-5-11	▽	20				17.5 to 22.5 feet: SAND (SP), gray, fine to coarse, medium dense, wet. @ 17.9 feet: silt layer 1-inch-thick, brown, plastic, wet, gray brown, organic matter in sand, trace roots.

REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-100D
PAGE 2 OF 2
GROUND ELEV. 9.60'
TOTAL DEPTH 25.00'
DATE COMPLETED 12/21/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
								17.5 to 22.5 feet: SAND (SP), continued. @ 18.5 feet: sand coarsens to medium-coarse grained, trace gravel.
SS/S-5	17/18	5-15-16						**22.5 to 25.0 feet:** SAND (SW), gray, fine to medium sand, some fine gravel, trace fines, dense, wet, some wood debris at 23.5 feet, uniform appearance.
				25				Total depth drilled = 25.0 feet. Total depth sampled = 24.0 feet.
				30				WELL COMPLETION DETAILS: +3.0 to 15.75 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe. 15.75 to 25.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap. 0 to 1.0 foot: Concrete. 1.0 to 2.0 feet: 10 - 20 Colorado silica sand. 2.0 to 13.0 feet: Bentonite chips hydrated with potable water. 13.0 to 25.0 feet: 10 - 20 Colorado silica sand.
				35				
				40				

REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-100S
LOCATION	Weyerhaeuser Everett East Site	PAGE	1 OF 1
DRILLED BY	Geoboring	GROUND ELEV.	9.70'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	11.50'
LOGGED BY	J. Swanson	DATE COMPLETED	12/21/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
SS/S-1	14/18	6-8-9		5				0 to 0.8 foot: ASPHALT 0.8 to 10.0 feet: SAND (SP), gray to black, fine to coarse sand, trace fine gravel, medium dense, damp. From 1.5 to 1.7 feet: black, trace fines. @ 5.0 feet: dark brown to black cuttings, very loose, trace organic debris, wet.
SS/S-2	1/18	1-1-2	▽					@ 9.0 feet: approximately 6-inch-thick silt layer.
SS/S-3	8/18	0-0-2		10				10.0 to 11.5 feet: SILT (ML), gray brown, some organic matter, trace fine sand, very soft, medium plasticity. @ 11.3 feet: orange silt laminae, approximately 1-millimeter-thick. Total depth drilled = 10.0 feet. Total depth sampled = 11.5 feet.
				15				WELL COMPLETION DETAILS: +2.5 to 5.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe. 5.5 to 10.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap. 0 to 0.5 foot: Concrete. 0.5 to 3.0 feet: Bentonite chips hydrated with potable water. 3.0 to 11.5 feet: 10 - 20 Colorado silica sand.
				20				

REMARKS

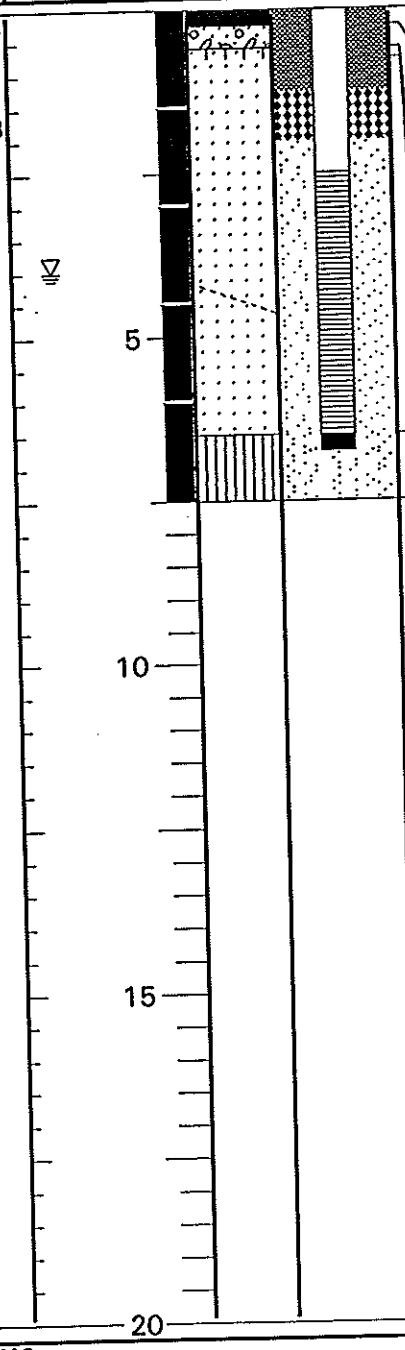
Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-101S
PAGE 1 OF 1
GROUND ELEV. 9.00'
TOTAL DEPTH 7.50'
DATE COMPLETED 12/21/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES
SS/S-1	12/15	29-29-26
SS/S-2	12/18	10-16-13
SS/S-3	12/18	4-7-8
SS/S-4	9/18	3-3-4
SS/S-5	18/18	0-1-2



LITHOLOGIC DESCRIPTION

0 to 0.25 foot: ASPHALT

0.25 to 0.6 foot: GRAVEL (GW), gray to reddish-brown, fine to medium gravel, some sand. (FILL)
From 0.5 to 0.6 foot: ash, black, friable, trace gravel.

0.6 to 0.75 foot: SILTY SAND (SM), reddish-brown, fine to medium sand, trace coarse sand, damp.

0.75 to 6.5 feet: SAND (SP), gray-brown, fine to coarse, trace gravel, trace fines, damp.
From 1.5 to 6.0 feet: trace orange mottling, medium dense.
From 4.0 to 6.0 feet: becomes moist.
From 6.0 to 6.5 feet: becomes loose.

6.5 to 7.5 feet: SILT (ML), olive-brown, plastic, abundant wood chips and rootlets.

Total depth drilled = 7.5 feet.
Total depth sampled = 7.5 feet.

WELL COMPLETION DETAILS:
+2.5 to 2.5 feet: 2-inch-diameter, flush-threaded, schedule 40 PVC blank riser pipe.
2.5 to 6.5 feet: 2-inch-diameter, flush-threaded, schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap.

0 to 1.0 foot: Concrete.
1.0 to 2.0 feet: Bentonite chips hydrated with potable water.
2.0 to 6.5 feet: 10 - 20 Colorado Silica Sand.

REMARKS

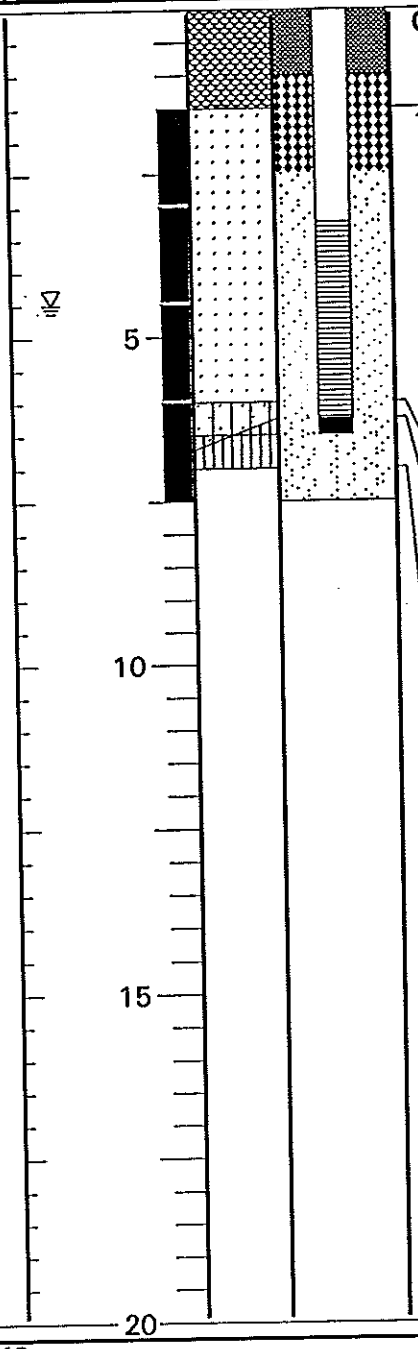
Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-102S
PAGE 1 OF 1
GROUND ELEV. 9.00'
TOTAL DEPTH 7.50'
DATE COMPLETED 12/22/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES
SS/S-1	13/8	5-9-10
SS/S-2	12/18	5-10-7
SS/S-3	13/18	3-2-2
SS/S-4	11/18	1



LITHOLOGIC DESCRIPTION

0 to 1.5 feet: WOOD CHIPS

1.5 to 6.0 feet: SAND (SP), brown to gray-brown, medium grained to fine grained, trace fines, trace fine gravel, medium dense, damp.

@ 4.5 feet: coarse sand increases and becomes very loose.
@ 5.0 feet: sand turns gray with iron staining apparent.

6.0 to 6.25 feet: SAND AND SILT (SM), very loose.

6.25 to 6.5 feet: SILT (ML), dark gray with abundant carbonized wood debris.

6.5 to 7.0 feet: SILT (ML), medium to olive gray, plastic.

Total depth drilled = 7.0 feet.
Total depth sampled = 7.0 feet.

WELL COMPLETION DETAILS:
+3.0 to 3.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe.
3.5 to 6.75 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter slip end cap.

0 to 1.0 foot: Concrete.
1.0 to 2.5 feet: Bentonite chips hydrated with potable water.
2.5 to 7.5 feet: 10 - 20 Colorado silica sand.

REMARKS

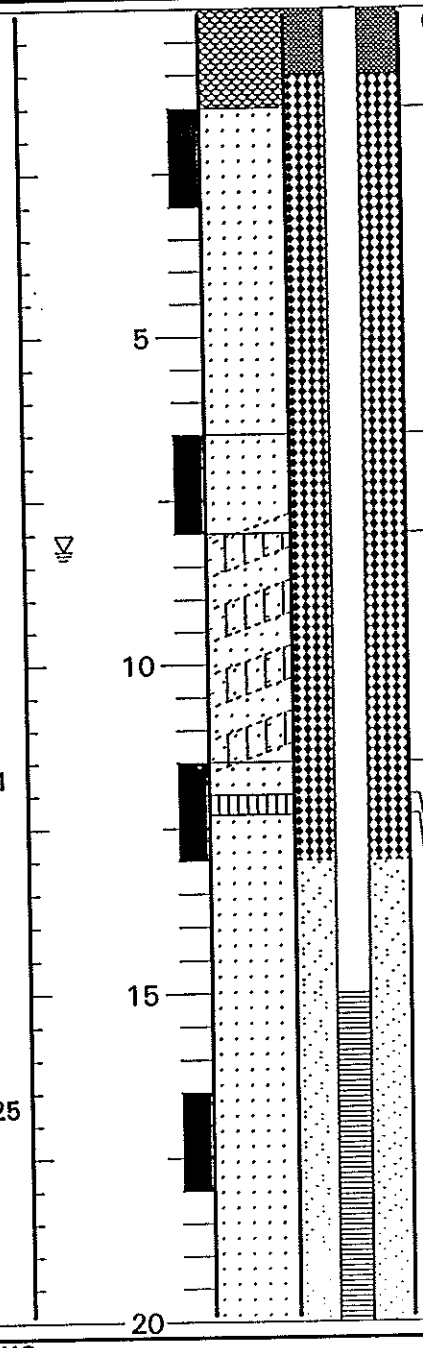
Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS =split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-103D
PAGE 1 OF 2
GROUND ELEV. 11.00'
TOTAL DEPTH 25.00'
DATE COMPLETED 12/22/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	LITHOLOGIC DESCRIPTION
			0 to 1.5 feet: WOOD CHIPS
SS/S-1	8/18	4-6-18	1.5 to 6.5 feet: SAND (SP), black, medium to fine grained, trace gravel, medium dense, moist, wood chips present.
SS/S-2	7/18	4-5-7	6.5 to 8.0 feet: SAND (SP), gray, fine to coarse grained, medium dense, damp.
			8.0 to 11.5 feet: SAND AND SILT INTERBEDS (SP-SM?)
SS/S-3	18/18	4-7-11	11.5 to 12.0 feet: SAND (SP), gray, medium to fine, medium dense, wet, trace iron-stained grains.
			12.0 to 12.3 feet: SILT (ML), gray, plastic, some wood chips.
SS/S-4		5-11-25	12.3 to 25.0 feet: SAND (SP), gray, fine to coarse, dense, wet with trace wood. @ 12.3 feet: trace coarse sand. From 12.5 to 13.0 feet: saturated.



REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-103D
PAGE 2 OF 2
GROUND ELEV. 11.00'
TOTAL DEPTH 25.00'
DATE COMPLETED 12/22/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
SS/S-5	5/18	8-14-14		25				**12.3 to 25.0 feet: SAND (SP)**, gray, fine to coarse, dense, wet with trace wood.
				30				Total depth drilled = 25.0 feet. Total depth sampled = 25.0 feet. **WELL COMPLETION DETAILS:** +2.7 to 15.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe. 15.0 to 25.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap. 0 to 1.0 feet: Concrete. 1.0 to 13.0 feet: Bentonite chips hydrated with potable water. 13.0 to 25.0 feet: 10 - 20 Colorado silica sand.
				35				
				40				

REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-103S
PAGE 1 OF 1
GROUND ELEV. 11.00'
TOTAL DEPTH 9.50'
DATE COMPLETED 12/22/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
								0 to 1.5 feet: WOOD CHIPS
								1.5 to 8.5 feet: SAND (SP), gray-brown, fine to coarse, medium dense, damp to moist.
SS/S-1	10/18	5-9-9		5				
SS/S-2	9/18	6-6-7						
SS/S-3	15/18	3-1-1	▽					From 8.0 to 8.5 feet: becomes wet.
								8.5 to 9.5 feet: SILT (ML), gray-brown to gray, soft, medium plastic, few wood chips.
				10				Total depth drilled = 9.5 feet. Total depth sampled = 9.5 feet.
				15				
				20				

WELL COMPLETION DETAILS:

+3.1 to 4.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe.

4.5 to 8.75 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter slip end cap secured with stainless steel screws.

0 to 3.0 feet: Bentonite chips hydrated with potable water.

3.0 to 9.5 feet: 10 - 20 Colorado silica sand.

REMARKS

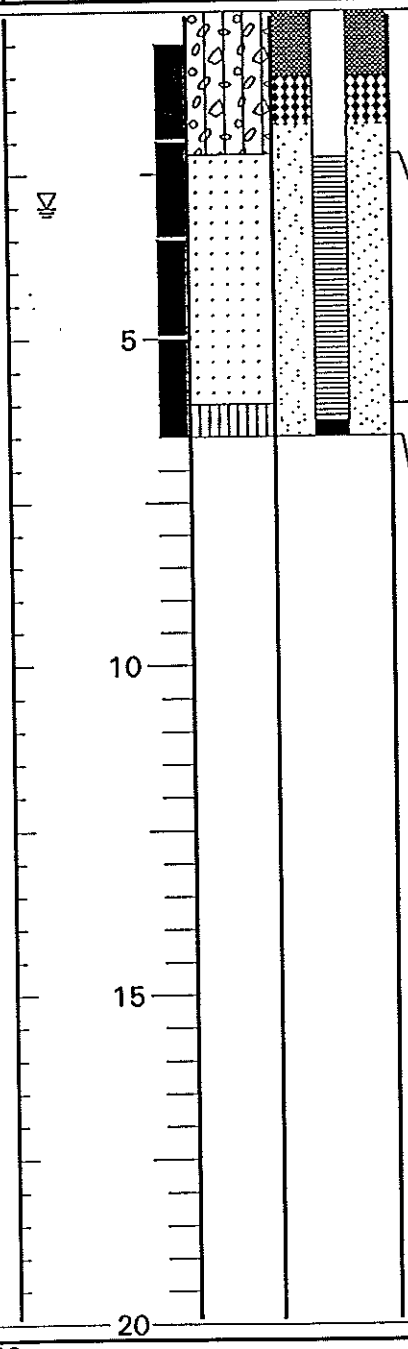
Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-106S
PAGE 1 OF 1
GROUND ELEV. 8.80'
TOTAL DEPTH 6.50'
DATE COMPLETED 12/28/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES
SS/MW-106A-1292	6/18	5-8-6
SS/S-2	6/18	4-5-7
SS/S-3	12/18	5-5-4
SS/S-4	11/18	2-1-1



0 to 2.2 feet: SILTY GRAVEL (GM), brown, some wood chips, damp.

From 1.3 to 2.0 feet: red bricks, building debris, some light gray ash.
From 2.0 to 2.2 feet: brick debris.

2.2 to 6.0 feet: SAND (SP), brown, fine to coarse sand, trace fine gravel, trace fines, loose, moist.
@ 3.0 feet: wet.
From 4.25 to 6.0 feet: sand becomes gray and wet.

6.0 to 6.5 feet: SILT (ML), brown, soft, abundant organic material at 6.0 to 6.2 feet, brown-gray, high plasticity at 6.2 to 6.5 feet.

Total depth drilled = 6.5 feet.
Total depth sampled = 6.5 feet.

WELL COMPLETION DETAILS:
0 to 2.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe.
2.5 to 6.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter slip end cap secured with stainless steel screws.

0 to 1.0 feet: Concrete.
1.0 to 2.0 feet: Bentonite chips hydrated with potable water.
2.0 to 6.5 feet: 10 - 20 Colorado silica sand.

REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler. Well secured with a flush-mount security casing.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-107S
PAGE 1 OF 1
GROUND ELEV. 7.90'
TOTAL DEPTH 6.00'
DATE COMPLETED 12/28/92

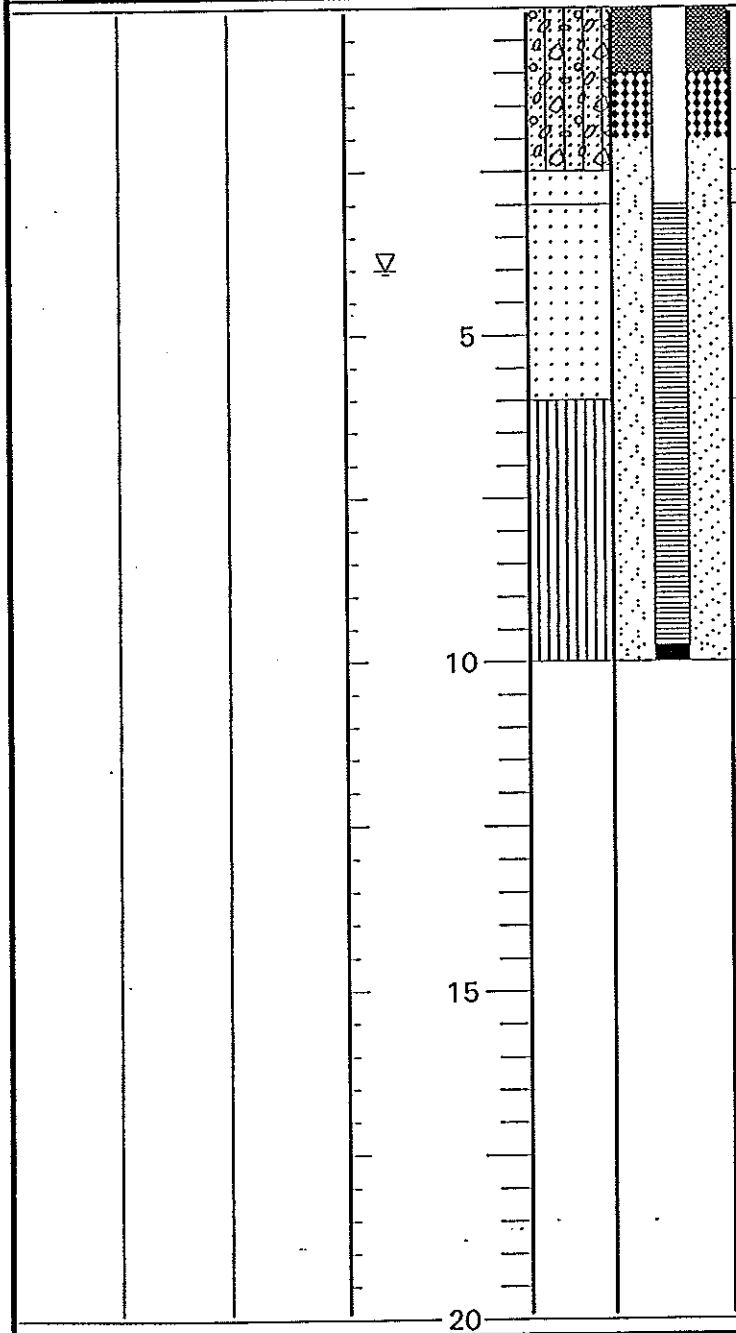
SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
SS/S-1	14/18	11-11-8						0 to 0.5 foot: SILT, GRAVEL, AND SAND (GM-SW)
								0.5 to 0.6 feet: WOOD WASTE.
								0.6 to 3.0 feet: SAND (SP), light gray, fine to medium, some gravel, some fines, medium dense, damp, petroleum-like odor.
SS/S-2	12/18	4-10-7						3.0 to 4.2 feet: SAND (SP), light gray, fine grained, trace medium grained, some gravel, some fines, some wood debris, damp.
			▽					@ 3.7 feet: wet.
SS/S-3	18/18	5-3-6		5				4.2 to 5.9 feet: SAND (SP), black, fine to coarse sand, medium dense, wet, visible product, some wood debris.
								From 4.5 to 5.9 feet: SAND (SP), fine to coarse, hydrocarbon-like odor.
								5.9 to 6.0 feet: SILT (ML), brown gray at 5.9 to 5.95 feet, gray at 5.95 to 6.0 feet, high plasticity, some organic material.
				10				Total depth drilled = 6.0 feet.
								Total depth sampled = 6.0 feet.
				15				WELL COMPLETION DETAILS:
								+3.0 to 2.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe.
								2.5 to 6.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter slip end cap secured with stainless steel screws.
								0 to 1.0 feet: Concrete.
								1.0 to 2.0 feet: Bentonite chips hydrated with potable water.
								2.0 to 6.0 feet: 10 - 20 Colorado silica sand.
				20				

REMARKS
Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke ; well secured with an above ground security casing. SS = split spoon sampler.

EMCON

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-107S(2)
LOCATION	Weyerhaeuser Everett East Site	PAGE	1 OF 1
DRILLED BY	Cascade Drilling, Inc.	GROUND ELEV.	7.90'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	10.50'
LOGGED BY	John Guenther	DATE COMPLETED	10/28/94



LITHOLOGIC DESCRIPTION

0 to 0.5 foot: SILT, GRAVEL, AND SAND (GM-SW)

0.5 to 3.0 feet: SAND (SP), light gray, fine to medium, some gravel, some fines, medium dense, damp, petroleum-like odor.

3.0 to 6.0 feet: SAND (SP), light gray, fine grained, trace medium grained, some gravel, some fines, some wood debris, damp.

@ 4.0 feet: wet.

6.0 to 10.5 feet: SILT (ML), brown gray at 5.9 to 5.95 feet, gray at 5.95 to 6.0 feet, high plasticity, some organic material.

WELL COMPLETION DETAILS:

0 to 3.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe.

3.0 to 10.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter slip end cap secured with stainless steel screws.

0 to 1.5 feet: Concrete.

1.5 to 2.5 feet: Bentonite chips hydrated with potable water.

2.5 to 10.5 feet: 10 - 20 Colorado silica sand.

REMARKS

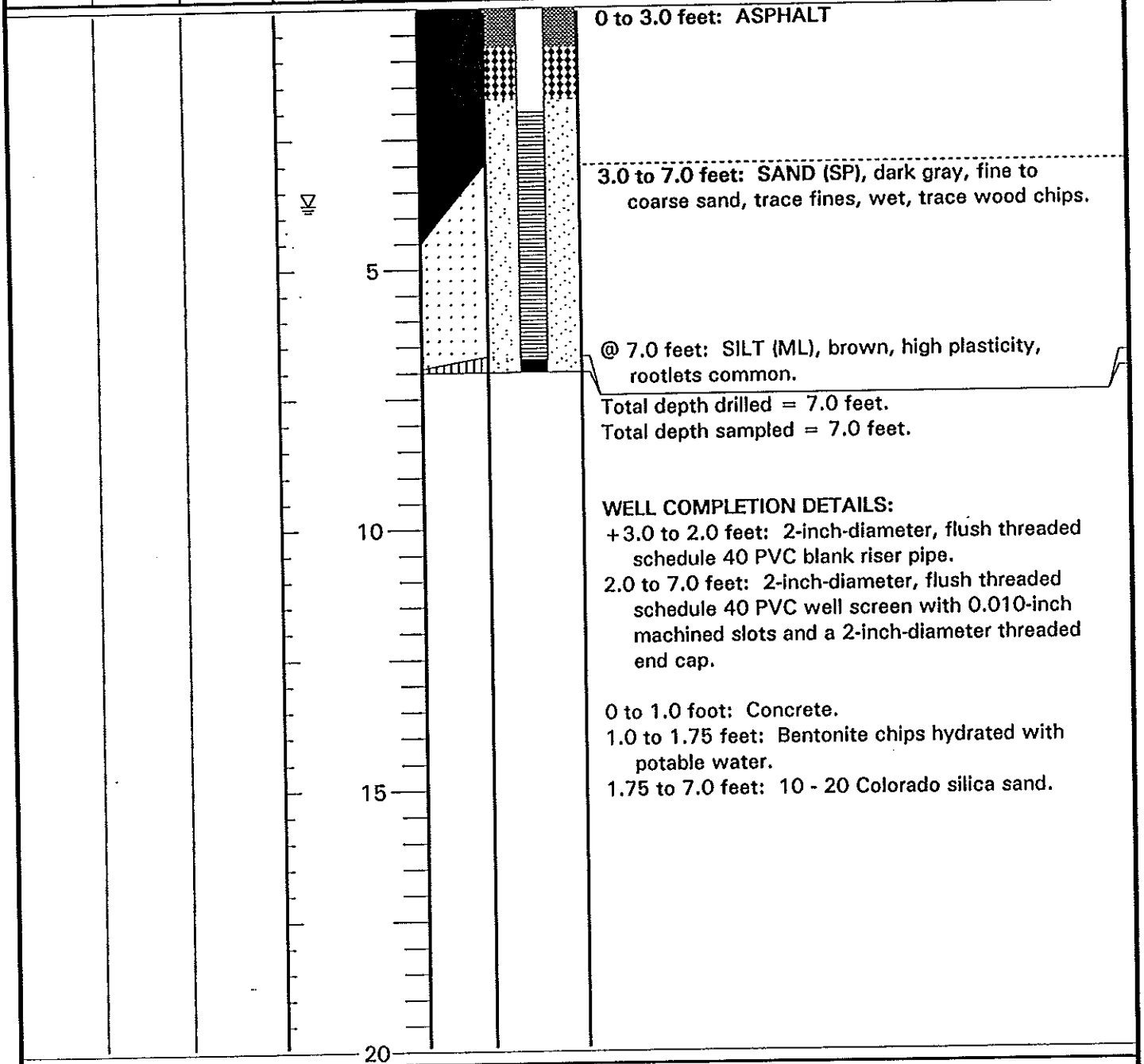
Due to structural damage to the aboveground protective casing, former monitoring well MW-107S was pulled out of the ground and the boring was sealed with hydrated bentonite chips. Replacement monitoring well MW-107S(2) was installed on 10/28/94 as described above. MW-107S(2) was drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke and secured with a flush mount traffic rated security casing.

LOG OF EXPLORATORY BORING

PROJECT NAME East Site Assessment
LOCATION Weyerhaeuser Everett East Site
DRILLED BY Geoboring
DRILL METHOD Hollow Stem Auger
LOGGED BY J. Swanson

BORING NO. MW-108S
PAGE 1 OF 1
GROUND ELEV. 8.40'
TOTAL DEPTH 7.00'
DATE COMPLETED 12/28/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION



0 to 3.0 feet: ASPHALT

3.0 to 7.0 feet: SAND (SP), dark gray, fine to coarse sand, trace fines, wet, trace wood chips.

@ 7.0 feet: SILT (ML), brown, high plasticity, rootlets common.

Total depth drilled = 7.0 feet.
Total depth sampled = 7.0 feet.

WELL COMPLETION DETAILS:
+3.0 to 2.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe.
2.0 to 7.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap.

0 to 1.0 foot: Concrete.
1.0 to 1.75 feet: Bentonite chips hydrated with potable water.
1.75 to 7.0 feet: 10 - 20 Colorado silica sand.

REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-108 D
LOCATION	Weyerhaeuser Everett East Site	PAGE	1 OF 2
DRILLED BY	Geoboring	GROUND ELEV.	8.50'
DRILL METHOD	6-Inch I.D. Hollow	TOTAL DEPTH	28.00'
LOGGED BY	J. Swanson	DATE COMPLETED	12/28/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6 INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
								0 to 3.5 foot: ASPHALT DEBRIS
			▽					3.5 to 7.0 feet: SAND (SP), dark gray, fine to coarse sand, trace fines, very loose, wet, trace wood chips present, no noticeable odors.
SS/S-1		3-2-1		5				
SS/S-2		0-1-1						7.0 to 15.8 feet: SILT (CL), brown, high plasticity, very soft, damp, no noticeable odors.
				10				
SS/S-3		6-10-10		15				15.8 to 16.5 feet: SAND (SP), gray, fine to coarse sand, trace fines, dense, wet, no noticeable odors.
								16.5 to 28.0 feet: SAND WITH SILT LENSES (SP-SM) gray, sand fine to medium grained, 10 percent fines, very stiff, wet, no noticeable odors.
				20				

REMARKS

Drilled with a mobile B-61 6-inch I.D. hollow stem auger, 300 pound hammer with a 30-inch stroke, well secured with an above-ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-108 D
LOCATION	Weyerhaeuser Everett East Site	PAGE	2 OF 2
DRILLED BY	Geoboring	GROUND ELEV.	8.50'
DRILL METHOD	6-Inch I.D. Hollow	TOTAL DEPTH	28.00'
LOGGED BY	J. Swanson	DATE COMPLETED	12/28/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6 INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
SS/S-4		7-12-15		25				16.5 to 28.0 feet: SAND WITH SILT LENSES (SP-SM) @ 21.0 feet: sand becoming finer grained, wet.
				30				Total depth drilled = 28.0 feet. Total depth sampled = 21.5 feet. WELL COMPLETION DETAILS: +3 to 18.0 feet: 2-inch-diameter, flush-threaded, schedule 40 PVC blank riser pipe. 18.0 to 28.0 feet: 2-inch-diameter, flush-threaded, schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap. 0 to 1.0 foot: Concrete. 1.0 to 15.0 feet: Bentonite grout. 15.0 to 28.0 feet: 10 - 20 Colorado Silica Sand.
				35				
				40				

REMARKS

Drilled with a mobile B-61 6-inch I.D. hollow stem auger, 300 pound hammer with a 30-inch stroke, well secured with an above-ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-109S
LOCATION	Weyerhaeuser Everett East Site	PAGE	1 OF 2
DRILLED BY	Geoboring	GROUND ELEV.	11.50'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	11.00'
LOGGED BY	J. Swanson	DATE COMPLETED	12/31/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
								0 to 0.5 foot: CEMENT, slab floor.
								0.5 to 5.0 feet: GRAVEL AND SAND (GW). (FOUNDATION FILL)
SS/S-1	13/18	20-30-20	▽	5				5.0 to 6.2 feet: SAND, GRAVEL, AND SILT (SW-GM), coarse grained sand with some gravel and silt, very dense, damp. (FILL)
SS/S-2	14/18	6-12-14						From 5.0 to 5.3 feet: brown.
								From 5.3 to 6.2 feet: gray.
SS/S-3	14/18	4-8-12						6.2 to 10.8 feet: SAND (SP), dark gray, fine to medium grained, some silt, trace wood chips, moist.
SS/S-4	18/18	2-4-12		10				From 6.5 to 7.0 feet: sand is green to yellow, dense, wet.
								From 7.0 to 7.5 feet: trace coarse gravel.
								From 7.5 to 8.0 feet: sand is green-gray and wet.
								From 9.5 to 10.0 feet: sand is gray-brown, medium to coarse, trace fine sand, medium dense, wet.
								From 10.0 to 10.8 feet: dark gray, trace wood chips/rootlets at 10.8 feet, wet.
								10.8 to 11.0 feet: SILT (ML), brown, high plasticity, some organic material.
				15				Total depth drilled = 11.0 feet.
								Total depth sampled = 11.0 feet.
								See Page 2 for Well Completion Details.
				20				

REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS =split spoon sampler. Well secured with a flush-mound security casing.

EMCON

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-109S
LOCATION	Weyerhaeuser Everett East Site	PAGE	2 OF 2
DRILLED BY	Geoboring	GROUND ELEV.	11.50'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	11.00'
LOGGED BY	J. Swanson	DATE COMPLETED	12/31/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION

WELL COMPLETION DETAILS:

0 to 5.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe.

5.0 to 11.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap.

0 to 1.0 foot: Concrete.

1.0 to 3.0 feet: Bentonite chips hydrated with potable water.

3.0 to 11.0 feet: 10 - 20 Colorado silica sand.

25

30

35

40

REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS =split spoon sampler. Well secured with a flush-mound security casing.

EMCON

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO. A3-01	TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G, A3-01 -1292			▽	1			0-3': SAND (SP), gray-green, medium sand, damp. (DREDGE)
				2			@ 0.75 - 1.25': undulatory horizon stained with iron-oxide.
				3			
				5			
				10			Bottom of pit at 3 feet below ground surface. Groundwater encountered at 1.25 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-02A TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G, A3-02A-1292			(perched) ▽	1 2 3 4 5 10			0-0.2': ASPHALT. 0.2'-1': SAND (SP), brown, medium-grained, wet. 1-4': SAND (SP), dark gray, medium. @ 3.8': CLAY (CH), gray-green, very plastic, wet, with rootlets. Bottom of pit at 4 feet below ground surface. Groundwater encountered at feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-02B TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-02B 1292			▽	1 2 5 10			0-0.3': GRAVELLY SAND (SP), yellow-brown, medium. 0.3 – 2.0': SAND (SP), dark gray, medium to coarse. @ 1': wooden planking.

Bottom of pit at 2' feet below ground surface.
Groundwater encountered at 2 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-02C TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-02C -1292			▽	1 2 3 4 5 10			0-0.75': ~~GRAVELLY~~ SAND (SP), yellow-brown, medium, wet. 0.75-4.0': SAND (SP), brown-gray to gray-green, medium, wet. @ 1.25': wooden planking. @ 2.75-3.25': Brown clay with rootlets. Bottom of pit at 4? feet below ground surface. Groundwater encountered at 2 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-03a TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	1.7
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-03A-1292			▽	0 1 2 3 4 5 10			0-0.3': Gravelly SAND (SP), yellow-brown, moist. Rare wood chips. 0.3-0.9': SAND (SP), gray, medium, moist to wet. Rare wood chips. 0.9-1.75': GRAVELLY SAND (SP), dark gray to black, medium, wet. Rare wood chips. Bottom of pit at 1.7 feet below ground surface. Groundwater encountered at 1.7 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-03B TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-03B -1292			▽	1 2 3 4 5 10			0-1': SILTY SAND (SW-SM) yellow-brown, with few gravels. 1-2': SAND (SP), medium. @ 1-1.5 yellow-brown. @ 1.5-2.0 gray-green. 2-3.5': SILT (ML), gray-green. Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at 2' feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-03d TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-03d -1292			▽	1 2 3 4 5 10			0-0.5': GRAVELLY SAND (SP), yellow-brown, medium, moist. 0.5-4': SAND (SP), dark gray-green, medium, moist. Iron-oxidized, coarse sand stringers @ 1" thick.

Bottom of pit at 4 feet below ground surface.
Groundwater encountered at 1.5 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037-27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-03d TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-03D -1292			▽	1 2 3 4 5 10			0-2': SAND (SP), medium, wet. Trace wood chips. @ 0-1': medium-gray @ 1-1.25': black 1.25-2': yellow-brown

Bottom of pit at 2' feet below ground surface.
Groundwater encountered at 2 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-04 TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-04 -1292			▽	1 2 3 5 10			0-2.5' SAND (SP), medium, moist. @ 0-0.5': yellow brown @ 0.5-2.5': gray-green (DREDGE SAND) Bottom of pit at 2.5 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037-27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-05 TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-05 -1292			▽	1 2 3 4 5 10			0-0.3': ASPHALT. 0.3-1.0': GRAVEL (GP), gray, moist. (FILL). 1.0-4.8': SAND (SP), , medium @ 1.0-1.5': black, with iron-oxide staining. @ 1.5-4.0': gray-green. Bottom of pit at 4 feet below ground surface. Groundwater encountered at 2.25 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A3-06 TP
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.5
DATE COMPLETED 12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-06 1292			▽	1			0-0.3': ASPHALT 0.3-0.75: GRAVEL (GP), gray, fine (FILL) 0.75-2.5': SAND (SP), gray-green, medium, moist. (DREDGE SAND).
				2			
				3			
				4			
				5			
				10			Bottom of pit at 2.5 feet below ground surface. Groundwater encountered at 1.25 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-07A TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-07A -1292			▽	1 2 3 4 5 10			0-0.5': SAND (SP), brown. Moist. 0.5-5': SAND (SP), brown, with trace gravel. @ 0.5-2.75': Moist. @ 2.75-5.0': Wet. @ 2.25-3.0': gray-green

Bottom of pit at 5 feet below ground surface.
Groundwater encountered at 2.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A3-07B TP
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.75
DATE COMPLETED 12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-07B-1292			▽	1 2 3 4 5 10			0-2.75': SAND (SP), medium; moist to @ 2.5', wet below 2.5' @ 0-0.5': yellow-brown sand with minor gravel. @ 0.5-1.25': yellow brown sand @ 1.25-1.75': black to dark gray sand. @ 1.75-2.75': gray-green sand. Bottom of pit at 2.75 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

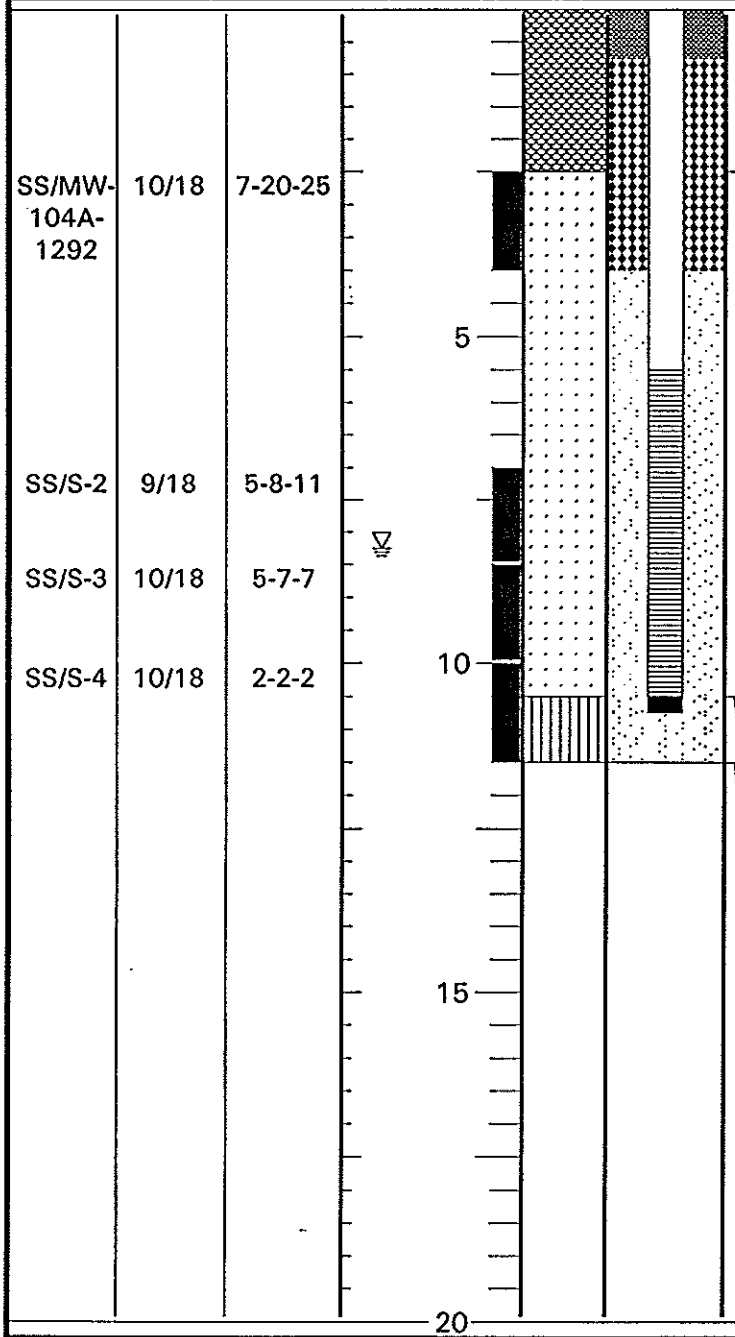
EMCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-104S
LOCATION	Weyerhaeuser Everett East Site	PAGE	1 OF 2
DRILLED BY	Geoboring	GROUND ELEV.	12.00'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	11.50'
LOGGED BY	J. Swanson	DATE COMPLETED	12/23/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	LITHOLOGIC DESCRIPTION
			0 to 2.5 feet: WOOD CHIPS
SS/MW-104A-1292	10/18	7-20-25	**2.5 to 10.5 feet: SAND (SP)**, black to olive green gray, fine to medium grained, some fines, dense, damp, abundant wood chips.
			From 2.7 to 3.2 feet: sandy gravel (GW), fine to medium, some fine to coarse sand, trace fines, damp, some wood chips.
			From 3.2 to 7.0 feet: medium grained, green-gray, trace fine gravel, trace fines, damp.
SS/S-2	9/18	5-8-11	From 7.0 to 8.4 feet: brown gray, fine to coarse sand, trace fines, moist.
SS/S-3	10/18	5-7-7	From 8.4 to 9.0 feet: green-gray, medium grained, trace fine grained, trace coarse grained, trace iron-stained grains, damp.
SS/S-4	10/18	2-2-2	From 9.0 to 10.0 feet: gray, medium to fine grained, iron-stained, trace fines (zone of continuous saturation), wet.
			From 10.0 to 10.5 feet: gray, fine to coarse, trace fine gravel, wet.
			10.5 to 11.5 feet: SILT (ML), gray-brown, plastic, abundant wood chips, trace fine sand.
			Total depth drilled = 11.5 feet.
			Total depth sampled = 11.5 feet.
			See Page 2 for Well Completion Details.



REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-104S
LOCATION	Weyerhaeuser Everett East Site	PAGE	2 OF 2
DRILLED BY	Geoboring	GROUND ELEV.	12.00'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	11.50'
LOGGED BY	J. Swanson	DATE COMPLETED	12/23/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
				25 30 35 40				**WELL COMPLETION DETAILS:** +3.0 to 5.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe. 5.5 to 10.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap. 0 to 0.7 foot: Concrete. 0.7 to 4.0 feet: Bentonite chips hydrated with potable water. 4.0 to 10.5 feet: 10 - 20 Colorado silica sand.

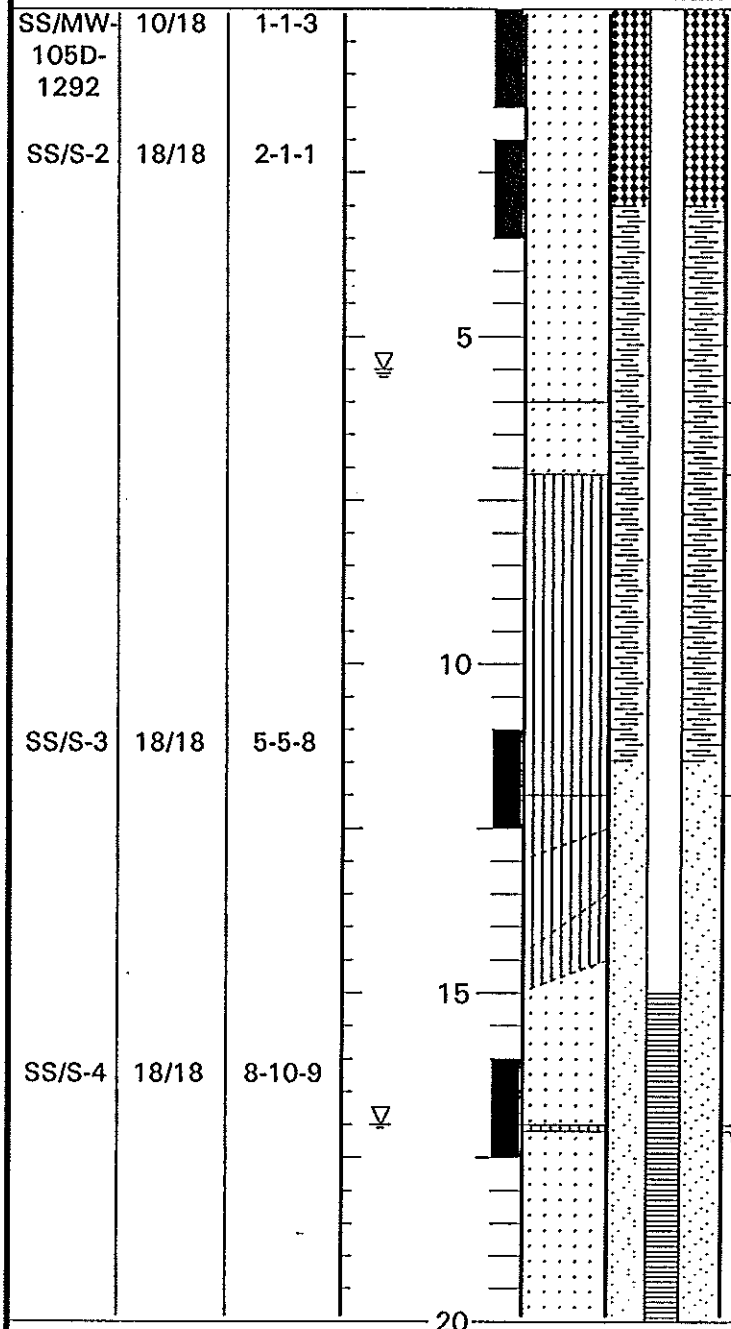
REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS =split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-105D
LOCATION	Weyerhaeuser Everett East Site	PAGE	1 OF 2
DRILLED BY	Geoboring	GROUND ELEV.	9.70'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	25.00'
LOGGED BY	J. Swanson	DATE COMPLETED	12/23/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	LITHOLOGIC DESCRIPTION
SS/MW-105D-1292	10/18	1-1-3	0 to 6.0 feet: SAND (SP), brown-gray, fine to medium grained, trace fines, abundant wood chips/roots, trace coarse sand, trace coarse gravel, moist.
SS/S-2	18/18	2-1-1	
			6.0 to 7.1 feet: SAND (SP), green-gray, fine to medium, trace fine gravel, trace fines, soft, damp, abundant wood chips.
			From 6.5 to 6.6 feet: SILT, brown-gray, high plasticity, abundant wood chips.
			7.1 to 12.0 feet: SILT (ML), brown-gray, high plasticity, stiff, damp, abundant wood chips.
SS/S-3	18/18	5-5-8	@ 11.0 feet: silt becomes gray.
			12.0 to 17.0 feet: SAND (SP), gray, medium grained to coarse sand, trace fines, medium dense, damp.
			@ 12.0 feet: wood chip with creosote-like odor (old piling?)
			From 12.0 to 12.2 feet: iron-stained.
SS/S-4	18/18	8-10-9	From 16.8 to 16.9 feet: coarse grained sand lens.
			17.0 to 17.1 feet: SILT (ML), gray, abundant wood debris, high plasticity.
			17.1 to 25.0 feet: SAND (SP), gray, fine to coarse, trace fines, dense, wet.



REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-105D
LOCATION	Weyerhaeuser Everett East Site	PAGE	2 OF 2
DRILLED BY	Geoboring	GROUND ELEV.	9.70'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	25.00'
LOGGED BY	J. Swanson	DATE COMPLETED	12/23/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
SS/S-5	12/18	7-17-25		25				**17.1 to 25.0 feet: SAND (SP), continued.** @ 21.0 feet: increasing fine, decreasing medium sand. From 22.0 to 22.1 feet: SILT, gray, abundant wood debris, high plasticity.
				30				Total depth drilled = 25.0 feet. Total depth sampled = 25.0 feet. **WELL COMPLETION DETAILS:** +3.25 to 15.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe. 15.0 to 25.0 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter threaded end cap. 0 to 1.0 foot: Cement. 1.0 to 3.0 feet: Bentonite chips hydrated with potable water. 3.0 to 11.5 feet: Bentonite cement grout. 11.5 to 25.0 feet: 10 - 20 Colorado silica sand.
				35				
				40				

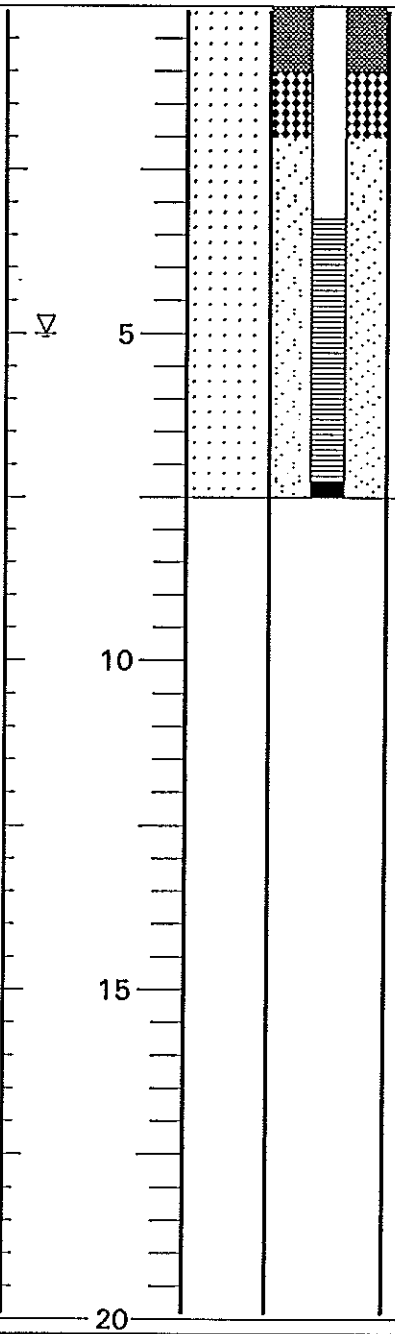
REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS = split spoon sampler.

LOG OF EXPLORATORY BORING

PROJECT NAME	East Site Assessment	BORING NO.	MW-105S
LOCATION	Weyerhaeuser Everett East Site	PAGE	1 OF 1
DRILLED BY	Geoboring	GROUND ELEV.	9.40'
DRILL METHOD	Hollow Stem Auger	TOTAL DEPTH	7.50'
LOGGED BY	J. Swanson	DATE COMPLETED	12/23/92

SAMPLING METHOD AND NUMBER	SAMPLE RECOVERY	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION



0 to 7.5 feet: SAND (SP), brown-gray, fine to medium, damp, abundant pipes, plastic, wood, and brick debris.

Total depth drilled = 7.5 feet.
Total depth sampled = 7.5 feet.

WELL COMPLETION DETAILS:

+2.4 to 3.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC blank riser pipe.

3.5 to 7.5 feet: 2-inch-diameter, flush threaded schedule 40 PVC well screen with 0.010-inch machined slots and a 2-inch-diameter slip end cap secured with stainless steel screws.

0 to 1.0 foot: Concrete.

1.0 to 2.0 feet: Bentonite chips hydrated with potable water.

2.0 to 7.5 feet: 10 - 20 Colorado silica sand.

REMARKS

Drilled with a Mobile B-61 6-inch I.D. hollow stem auger, 300-pound hammer with a 30-inch stroke; well secured with an above ground security casing. SS =split spoon sampler.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-08 TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-08 -1292				1, 2, 3, 4, 5, 10			0-0.5': SAND (SM), brown, with gravel and silt, moist. 0.5-2.75': SAND (SP), medium, moist. @ 0.5-0.75': gray-brown. @ 0.75-1.75': dark gray. @ 1.75-2.75': gray-green. Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at 2.75 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A3-09-1292TP
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4'
DATE COMPLETED 12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-09-1292				1			0-2': SILT (ML), brown, trace silty sand and gravel.
G A3-09b-1292				3			2-4': SAND (SP), gray-green, medium, wood chips.
				5			Bottom of pit at 4 feet below ground surface. Groundwater encountered at — feet below ground surface. [not encountered]
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-10d TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4.5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-10D -1292				1 2 3 4 5 10			0-1': GRAVELLY SAND (SP), gray-green, damp. (FILL) 1-4.5': SAND (SP), medium. 1-2': dark brown-black 2'-4.5': gray-green, with layer of gravelly sand. (DREDGE SAND)

Bottom of pit at 4.5 feet below ground surface.
Groundwater encountered at 4 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-11 TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-11 -1292			▽	1 2 3 4 5 10			0-0.75': SANDY GRAVEL (GP), greenish-brown, fine. Damp. (FILL) 0.75'-3.0': SAND (SP), medium. @ 0.75-1.5': black to dark gray, with few wood chips. @ 1.5-1.75': organic-rich layer with few wood chips. @ 1.75-3.0': gray-green, with few fine gravels.

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 3 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A3-12 TP
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A3-12 -1292			▽	1 2 3 4 5 10			0-0.75': SAND (SW-SM) brown, with little gravel, Abundant roots. Damp. @ 0.75': Undulatory horizon of organic-rich, brown, silty sand. 0.75-5': SAND (SP), fine to medium. @ 0.75-1.25': Black, with trace fine gravel. @ 1.25-5': gray-green, with horizons of silty sand.

Bottom of pit at 5 feet below ground surface.
Groundwater encountered at 3 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A3-13
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4.25
DATE COMPLETED 1/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.4': ASPHALT.
				1			0.4-1.25': GRAVEL with silt and clay (GM/GC). (FILL).
G A3-13-0193				2			1.25-2.75': SAND (SP), medium, with trace coarse gravel. @ 1.25-1.75': yellow-brown. @ 1.75-2.25': dark gray. @ 2.25-2.75': brown to reddish-brown.
			▽	3			2.75-4.25': SAND (SP), gray-green. (DREDGE SAND).
				4			
				5			
				10			Bottom of pit at 4.25 feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A4-01
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12-/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.4': ASPHALT
				1			0.4-1.25': GRAVEL (GM/GC) with silt + clay. (FILL).
G A4-01-0193				2			1.25-3.5': SAND (SP), medium + coarse, brown. @1.5': black horizon.
			▽	3			
				4			
				5			Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.
				10			

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A4-02
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3'
DATE COMPLETED 1-/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A4-02-0193			▽	1 2 3 4 5 10			0-0.4': ASPHALT. 0.4-1.5': GRAVEL (GM/GC) with Silt + clay. (FILL). 1.5-3.0': SAND (SP), medium. (DREDGE SAND) 1.5-1.75': black 1.75-3.0': gray-green.

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 3 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A4-03
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.75'
DATE COMPLETED 10/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A4-03-0193			▽ =	1 2 3 4 5 10			0-0.3' : ASPHALT. 0.3-1.0' : GRAVEL (GM/GC) with silt + clay. (FILL). 1.0-1.75' : SAND (SP), black. 1.75-2.75' : SAND (SP), gray. (DREDGE SAND). @ 2.75' : gray, silt (CL). Bottom of pit at 2.75 feet below ground surface. Groundwater encountered at 275 feet below ground surface.

REMARKS

EXXON Northwest, Inc.

0141-037.27 PLANK 1.22/sec1 01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Cornier / Jeffrey D. Swanson

TEST PIT NO. A4-04
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.75
DATE COMPLETED 12/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A4-04-0193			▽	1 2 3 5 10			0-0.3': ASPHALT. 0.3-1.5': GRAVEL with SAND (GP-SP). (FILL) 1.5-2.75': SAND (SP), gray-green, medium (DREDGE SAND). Bottom of pit at 2.75 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A4-05
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.75
DATE COMPLETED 11/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A4-05-0193			▽ =	1 2 3 4 5 10	X		0-0.5': ASPHALT. 0.5-1.25': GRAVEL (GM/GC) with silt + clay. (FILL) 1.25-2.5': SAND (SP), black to brown. 2.5-2.75': SAND (SP), gray-green. (DREDGE SAND)

Bottom of pit at 2.75 feet below ground surface.
Groundwater encountered at 2.75 feet below ground surface.

REMARKS

ENCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A4-06
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.4': ASPHALT.
				1			0.4-2.0': GRAVEL (GM/GC). (FILL) Moist.
G A4-06-0193		(perched)	▽	2 3 4 5 6			2.0-3.0': SAND (SP), gray. (DREDGE SAND). 3.0-6.0': SILT (OL), gray. Moist.
				10			Bottom of pit at 6 feet below ground surface. Groundwater encountered at 3 feet below ground surface. (perched?)

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A5-01
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.5'
DATE COMPLETED 12/14/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A5-01-1292			▽	0 1 2 3 4 5 10			0-0.5': ASPHALT. 0.5-1.0': SILTY GRAVEL (GM), blue-gray, overlain in places by 0.5-1" layer of wood chips. 1.0-1.75': SAND (SP), black, fine to medium, with few gravels and nodules of orange-brown clay-rich sand. 1.75-3.5': SAND (SP), gray-green, medium, with lenses of gravelly sand (DREDGE SAND). Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at 2.75 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. AS-02
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3'
DATE COMPLETED 12/14/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G AS-01-1292			▽ =	1 2 3 4 5 10			0-0.75': ASPHALT. 0.75-1.25': SAND + GRAVEL (SP/GP), (FILL) @ 0.75-0.9': gray. @ 0.9-1.25': dark brown to black. 1.25-3.0': SAND (SP), gray-green, medium (DREDGE SAND).

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 3 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	AS-03
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/16/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G AS-03-1292			▽	1 2 3 4 5 10	X		0-1.0': ASPHALT. 1.0-1.5': GRAVEL (GP-GM) with Sand. (FILL) 1.5-3.5': SAND (SP) gray-green, medium (DREDGE SAND). Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at 1.5 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A5-04
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2'
DATE COMPLETED 1/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A5-04-0193			▽	1 2 5 10			0-0.5': ORGANIC-DEBRIS; grass, roots. 0.5-2.0': SAND (SP), medium, some coarse, with trace fine. Bottom of pit at 2' feet below ground surface. Groundwater encountered at 2 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A5-05
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 5.5
DATE COMPLETED 11/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.4' : ASPHALT.
				1			0.4-1.1' : GRAVEL (GM), moist. (FILL)
G A5-05A-0193				2 3 4			1.1-4.25' : SAND (SP), gray-green, medium to coarse. Coarse sand fraction increases downward. Moist to 3.75', wet below 3.75'. (DREDGE SAND).
G A5-05B-0193			▽	5			4.25-5.5' : SANDY SILT (ML), gray, wet.
				6 10			Bottom of pit at 5.5 feet below ground surface. Groundwater encountered at 4.25 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. AS-6
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.75
DATE COMPLETED 1/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.75': CONCRETE.
				1			0.75-1.25': GRAVEL (GM). (FILL)
G, AS-06-0193			▽	2 3			1.25-3.75': SAND (SP), gray-green, medium, with some coarse. Coarse fraction increases downward. (DREDGE SAND). @ 1.25-1.5': dark gray.
				4 5 10			Bottom of pit at 3.75 feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	AS-7
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	11/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G AS-07-0193			▽	1 2 3 4 5 10			0-0.5': ASPHALT. 0.5-1.3': GRAVEL (GM). (FILL). 1.3-2.0': SAND (SP), dark gray. 2.0-4.0': SAND (SP), brown, medium, some coarse, trace fine. (DREDGE SAND) Bottom of pit at 4 feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A5-08a
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.8'
DATE COMPLETED 12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A5-08a-1292			▽	1 2 3 5 10			0-0.25': ASPHALT. 0.25-0.5': GRAVELLY SILT (GP/ML), brown-gray, with wood planks. 0.5-2.8': SAND (SP), gray-green, medium, with black horizons. (DREDGE SAND) @ 2.7': wood.

Bottom of pit at 2.8 feet below ground surface.
Groundwater encountered at 2.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A5-08b
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.2'
DATE COMPLETED 12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.7': ASPHALT.
G A5-08b-1292			▽	1 / 2	X		0.7-1.0': SAND (SP), gray-green, medium. (DREDGE SAND). @ 1.0-1.25': black.
				3 / 5 / 10			Bottom of pit at 2.2 feet below ground surface. Groundwater encountered at 1.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A5-9
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.75
DATE COMPLETED 11/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.6': ASPHALT.
							0.6-1.25': GRAVEL (GM). (FILL).
G A5-09-0193			▽				1.25-3.75': SAND(SP), medium, with lenses of coarse sand and gravel and lenses of fine sand. Course fraction increases to 70% at base.
							Bottom of pit at 3.75 feet below ground surface. Groundwater encountered at 3.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A5-10
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A5-10-1292				1 2 3 5 10			0-0.4': GRAVELLY SAND (GP/SP), medium sand. 0.4-0.5': SAND (SP), black, medium. 0.5-3.0': SAND (SP), gray-green, medium, with intermittant horizons of blue-gray, medium sand.

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 2.3 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A5-11
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.75
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/14/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A5-11-1292			▽	1 2 3 5 10			0-0.75': SAND (SP), brown to black, fine to medium with few coarse sand. @ 0.5-0.75': tan silty sand. 0.75-2.75': SAND (SP), gray-green, medium (DREDGE SAND). Bottom of pit at 2.75 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	FORMER A5-11
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
no sample taken.			▽	0 1 2 3 5 10			0-0.25': SAND (SP), medium. @ 0-0.25': organic-rich. @ 0.25-2.5': gray-green, with layers of black sand. (DREDGE SAND). Bottom of pit at 2.5 feet below ground surface. Groundwater encountered at 1.5 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. AS-12
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3'
DATE COMPLETED 12/14/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G AS-12-1292				1			0-1.1': SAND (SP), fine to medium, with coarse sand. 0-0.2': tan to brown, silty. 0.2-1.1': brown-gray.
				2			1.1-3.0': SAND (SP), medium, gray-green, with some coarse sand (DREDGE SAND).
				3			
				4			
				5			
				10			

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 2.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. FORMER AS-12
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4.5'
DATE COMPLETED 12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
No Sample taken.			▽(?)	1 2 3 4 5 10			0-0.5': SAND (SP), medium, black, with lenses of gravel. 0.5-4.5: SAND (SP), gray-green, medium (DREDGE SAND).

Bottom of pit at 4.5 feet below ground surface.
Groundwater encountered at ? feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A5-13
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A5-13-1292				1 2 3 4 5 6 10			0-1.75': SAND + GRAVEL (SP/GP), brown-gray to black, coarse sand and fine gravel. (FILL). 1.75-2.0': SAND (SP), black, medium, with few gravels. 2.0-6.0': SAND (SP), gray-green, medium. (DREDGE SAND). @ 2.0': reddish brown horizon. Bottom of pit at 6 feet below ground surface. Groundwater encountered at 3 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A6-01
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/14/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A6-01-1292			▽	1			0-0.3': ASPHALT.
							0.3'-0.75': GRAVEL with Silt (GM), brown. (FILL)
							0.75-2.0': SAND (SP), brown-black, medium, with 5-10% gravel.
				2			2.0-3.0': SAND (SP), gray-green, medium. (DREDGE SAND).
				3			
				4			
				5			
				10			Bottom of pit at 3 feet below ground surface. Groundwater encountered at 1.5 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A6-02
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.25'
DATE COMPLETED 12/14/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A6-02-1292			▽	1 2 3 5 10			0-0.1': ASPHALT. 0.1'-0.5': SILTY GRAVEL (GM), green-gray (FILL) 0.5-1.25': SAND (SP), black, medium, with gravel. 1.25-2.25': SAND (SP), green-gray, medium (DREDGE SAND). Bottom of pit at 2.25 feet below ground surface. Groundwater encountered at 1.75 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A6-03
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1-/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A6-03a-0193				1			0-5.0': SAND (SP), medium, with gravel lenses & silt lenses.
				2			@ 0.5': black.
							@ 1.5-3.5': WOODEN FLUME across test pit.
G A6-03b-0193				3			
				4			
			▽ =	5			
				10			

Bottom of pit at 5 feet below ground surface.
Groundwater encountered at 5 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A6-05
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 6'
DATE COMPLETED 1/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A6-05-0193			▽	1 2 3 4 5 6 10			0-2.0': WOOD CHIPS. 2.0-3.5': SAND (SP), black, with wood debris. 3.5-6.0': SAND (SP), gray-green, medium, trace gravel. (DREDGE SAND). Bottom of pit at 6 feet below ground surface. Groundwater encountered at 5.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A6-7
PAGE 1 OF 1
REFERENCE ELEV. 1
TOTAL DEPTH 4.25'
DATE COMPLETED 12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A6-07-1292				1 2 3 4 5 10			0-2.5': WOOD CHIPS. WET. 2.5-3.0': SILTY GRAVEL (GM), green-gray (FILL). Wet. 3.0-4.25': GRAVELLY SAND (SP-SC) bluish-gray, wet. Bottom of pit at 4.25 feet below ground surface. Groundwater encountered at 4.25 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A6-08
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.3'
DATE COMPLETED 12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-2.0': WOOD CHIPS.
G A6-08-1292				2			2.0 - 2.5': SAND (SP), dark-gray
			▽	3			2.5 - 3.3': SAND (SP), gray-green. (DREDGE SAND).
				4			
				5			
				10			Bottom of pit at 3.3 feet below ground surface. Groundwater encountered at 3.3 feet below ground surface.

REMARKS

FHCON Northwest, Inc.

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A6-09
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4'
DATE COMPLETED 12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G, A6-09-1292			▽	1 2 3 4 5 10			0-1.5': WOOD CHIPS. 1.5-1.75': SILTY GRAVEL (GM), gray. 1.75-4.0': SAND (SP), gray-green, medium to coarse. (DREDGE SAND). @ 0-3.25': damp. Below 3.25', wet.

Bottom of pit at 4 feet below ground surface.
Groundwater encountered at 3.25 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A6-10
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	4/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A-6-10-0193			▽	1 2 3 4 5 6 7 10			0-2.0': WOOD CHIPS. 2.0-4.0': DEBRIS; lumber, sheet metal, pipes, ash, bricks. Tan to black soils with debris. 4.0-6.5': SAND (SP), gray-green, medium, with trace coarse sand, trace fine sand. @ 4.0': black sand lense. Bottom of pit at 6.5 feet below ground surface. Groundwater encountered at 6.25 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-01a
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A7-01a-1292				1 2 3 4 5 10			0-2.0': DEBRIS; pipes, metal, wood, timbers, woodchips, roots. 2.0-3.0': SAND (SW), with gravel and trace fines. Bottom of pit at 3 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-16
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson / Greg Mack	DATE COMPLETED	12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.3': WOOD DEBRIS; roots.
G A7-16-1292				1			0.3-2.0': SAND (SP), medium-gray, fine, with some gravel, trace fines. Metal pipes, wood, concrete blocks.
				2			
				5			
				10			

Bottom of pit at 2 feet below ground surface.
Groundwater encountered at --- feet below ground surface. (not encountered)

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson / Greg Madsen

TEST PIT NO. A7-02
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.5
DATE COMPLETED 12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A7-02-1292	1292			1 2 3 4 5 10			0-0.4': CONCRETE. 0.4-1.0': SAND (SP), fine to medium, with trace gravel, trace silt. 1.0-3.5': SILT (ML). Grades to fine sand. Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered)

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A7-4
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH = 4'
DATE COMPLETED 12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-2.8': WOOD CHIPS.
				2			
G A7-4a-1292				3	X		2.8-4.0': SAND (SP), greenish-gray, fine, with silty fine sand and sandy silt. (DREDGE SAND).
				4			
				5			
				10			Bottom of pit at 4 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered)

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-05
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/16/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				0			0-2.5': WOOD CHIPS.
				1			
				2			
G A7-05 a-1292				2.5	X		2.5-3.0': SAND (SP), black, with charred wood and metal debris.
G A7-05 b-1292				3	X		
				3.0			3.0-4.0': SAND (SP), gray-green, medium. (DREDGE SAND).
				4			
				5			
				10			Bottom of pit at 4 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered)

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A7-06
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4.25'
DATE COMPLETED 12/16/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-2.0': WOOD CHIPS.
				2			2.0 - 2.75': SILTY GRAVEL (GM), with minor sand, light brown, fine.
				3			2.75 - 3.5': DEBRIS; burnt wood, tyvek, charcoal.
G A7-06-1292				4	X		3.5 - 4.25': SAND (SP), gray-green, medium. (DREDGE SAND).
				5			
				10			Bottom of pit at 4.25 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-07
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A7-07-1292				1			0-1.5': WOOD CHIPS.
				2			1.5-3.0': SAND (SP), black, medium with abundant charred wood debris.
				3			
				4			3.0-5.0': SAND (SP), gray-green, medium (DREDGE SAND).
			▽	5			Bottom of pit at 5 feet below ground surface. Groundwater encountered at 4.8 feet below ground surface.
				10			

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson / Greg Mack

TEST PIT NO. A7-08
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2'
DATE COMPLETED 12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.5': SAND (SP), medium brown, with some gravel + root material.
G A7-08-1292				1			0.5-2.0': SANDY GRAVEL (SP-GP), yellowish-brown, fine to coarse gravel, fine to coarse sand, trace fines.
				2	☒		@ 1.8', dark brown.
				3			
				4			
				5			
				10			Bottom of pit at 2 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson / Greg Mack

TEST PIT NO. A7-09
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3'
DATE COMPLETED 12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-1.0' : SAND (SP), dark brown, fine, with roots and other organic material.
G A7-09	1292			1 2			1.0-3.0' : SAND (SP), medium gray, fine.
				3 4 5			Bottom of pit at 3 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered)
				10			

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-11
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson / Greg Mack	DATE COMPLETED	12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				0			0-3.0': WOOD CHIPS, reddish-brown.
				1			
				2			
				3			
G A7-11-1292				4			3.0-6.0': SAND (SP), gray-green, with abundant wood + metal debris.
				5			
				6			
							Bottom of pit at 6 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered).
				10			

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson / Greg Mack

TEST PIT NO. A7-12
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4'
DATE COMPLETED 12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-2.0': WOOD CHIPS.
				2			
G A7-12-1292				3			2.0-2.75': SAND (SP), gray-green, fine, with trace fines, logs, wood debris.
				4			2.75-4.0': SAND (SP), dark gray, with some charcoal + wood chips.
				5			
				10			

Bottom of pit at 4 feet below ground surface.
Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-13
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A7-13-1292				1 2 3 4 5 10			0-1.0' : WOOD CHIPS. 1.0-1.5' : SAND (SP), black, medium, with charred debris. 1.5-5.0' : SAND (SP), gray-green, medium, @ 2.0' : SILT (ML), gray, clayey.

Bottom of pit at 5 feet below ground surface.
Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-14
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	7'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson / Greg Mack	DATE COMPLETED	12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A7-14-1292				1 2 3 4 5 6 7 10			0-7.0': GRAVELLY SAND (GP-SP), yellowish-brown with roots, wood chips. @ 3.0': gray, with abundant silt, wood chips. Bottom of pit at 7 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered)

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-16
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson / Greg Mack	DATE COMPLETED	12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G A7-16 -1292				1 2 3 4 5 6 10			0-2: wood chips 2-6: SAND, (SP), grey to dark grey-brown, some wood waste, charcoal, and metal debris, damp Bottom of pit at 6 feet below ground surface. Groundwater encountered at — feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-17
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	7
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A7-17-1292				1 2 3 4 5 6 7 10			0-2.0': WOOD CHIPS. 2.0-2.5': SAND (SP), black, medium, with wood debris. 2.5-7.0': SAND (SP), gray-green, medium, with lenses of gravelly sand.

Bottom of pit at 7 feet below ground surface.
Groundwater encountered at --- feet below ground surface. (not encountered)

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A7-19
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/16/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				0			0-3.0': WOOD CHIPS.
				1			
				2			
				3			
A7-19a-1293					X		3.0 - 4.25': SAND (SP), black, medium, with some fine sand and abundant charred wood debris.
				4			
A7-19b-1293					X		4.25 - 5.0': SAND (SP), gray-green, medium, (DREDGE SAND).
				5			
							Bottom of pit at 5' feet below ground surface. Groundwater encountered at -- feet below ground surface. (not encountered)
				10			

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A7-20
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 6'
DATE COMPLETED 12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-2.75': WOOD CHIPS.
				2			
				3			2.75-5.0': SAND (SP), gray to gray-black, medium, with some fine sand.
A7-20-1292				4			
		(perched)	▽				
				5			5.0-6.0': CLAYEY SILT (ML), gray, moist to wet.
				6			
				10			Bottom of pit at 6 feet below ground surface. Groundwater encountered at 4.5 feet below ground surface. (perched)

REMARKS

ENCON Northwest, Inc.

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	AB-01
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
AB-01-1292				1 2 3 4 5 6 10			0-2.5': WOOD CHIPS. Moist. 2.5-3.25': SAND (SP), dark brown, fine to medium, with lenses of clay-rich, reddish brown sand. Moist. 3.5-6.0': SAND (SP), gray-green, medium, moist. (DREDGE SAND). Bottom of pit at 6 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

EHCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A8-02a
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6.25'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0 - 3.5' : WOOD CHIPS
				2			@1.75-3.5': interlayered wood chips and green-gray, medium to coarse sand.
				3			
A8-02a-1292				4			3.5-3.75' : CLAYEY SILT (ML), blue-gray, with laminations and few cobbles.
				5			3.75-6.25' : SAND (SP), gray-green, medium. (DREDGE SAND).
				6			
				7			
				10			Bottom of pit at 6.25 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. AB-02b
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 5'
DATE COMPLETED 12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0 - 2.25': WOOD CHIPS
AB-02b-1292				2			2.25 - 3.25': SAND (SP), black, medium, with trace coarse sand. Undulatory horizon.
				3			3.25 - 5.0': SAND (SP), gray-green, medium. (DREDGE SAND). @ 3.25 - 4.25': Lenses of black sand.
				4			
				5			Bottom of pit at 5 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered).
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	AB-03
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5.5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-1.0': WOOD CHIPS.
AB-03-0193				1 2 3 4			1.0-5.0': SAND (SP), gray-brown, medium, with few coarse lenses. @ 1.0-1.25': dark gray.
			▽ ≈	5			5.0-5.5': SAND (SP), gray-green, medium. (DREDGE SAND).
				6 10			Bottom of pit at 5.5 feet below ground surface. Groundwater encountered at 5.25 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A8-04
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				0			0-0.3': WOOD CHIPS, with gravel, black.
A8-04-0193				1–3	X (approx. 0.4–3.3')		0.3-3.5': SAND (SP), medium, with trace coarse and trace fine sand. @ 1.5-1.8': rare silt lenses. @ 1.0- 3.5': coarsens downward to 30% coarse sand.
			▽ (3.5)	4			
				5			
				10			Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A8-05
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/16/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A8-05-1292			▽	1 2 3 4 5 10			0-0.3': WOOD CHIPS 0.3-0.5': SILTY GRAVEL (GM) with sand, brown-gray. (FILL) 0.5-1.0': SAND (SP), black, medium, with 10% fine sand. 1.0-2.5': SAND (SP), gray-green, medium (DREDGE SAND).

Bottom of pit at 2.5 feet below ground surface.
Groundwater encountered at 2.25 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A8-06
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 8'
DATE COMPLETED 12/14/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.3': ASPHALT.
				1			0.3-0.75': SANDY GRAVEL (SP-GP), gray-green to tan-orange. (FILL).
A8-06	-1292			2	X		0.75-1.75': SAND (SP), brown-black, fine to medium.
				3			1.75-8.0': SAND (SP), gray-green, medium. (DREDGE SAND).
				4			
				5			
				6			
				7			
			▽	8			Bottom of pit at 8 feet below ground surface. Groundwater encountered at 7.75 feet below ground surface.
				10			

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A8-07
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 5'
DATE COMPLETED 12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.5' : ASPHALT.
				1			0.5-2.0' : SILT (ML), black, with gravel, and horizons of dark-brown staining.
A8-07-1292				2			2.0-2.5' : SAND (SP), black, with undulatory contacts.
				3			2.5-5.0' : SAND (SP), with rare gravel, gray-green, medium.
				4			
				5			
				10			

Bottom of pit at 5' feet below ground surface.
Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L77/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. AB-08
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.75
DATE COMPLETED 12/14/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
AB-08-1292			▽	1 2 3 5 10			0-0.2' : ASPHALT. 0.2-0.5' : SILTY GRAVEL (GM), gray-brown (FILL) 0.5-1.25' : GRAVELLY SAND (GP-SP), dark gray to black, fine to medium sand. 1.25-2.75' : SAND (SP), gray-green, medium, with few gravel lenses. (DREDGE SAND). Bottom of pit at 2.75 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	AB-09
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
G AB-09-0193			▽	1 2 3 4 5 10			0-0.3" ASPHALT. 0.3-1.25': GRAVEL (GP-GM). (FILL). 1.25-4.0': SAND (SP), medium to coarse, black. (DREDGE SAND). Bottom of pit at 4 feet below ground surface. Groundwater encountered at 4 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27 BLANK 1.23(rev.1 01/10/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	AB-10
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/15/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
AB-10 a-1292				1			0-0.5': ASPHALT.
							0.5-1.5': SILTY GRAVEL (GM), moist.
							@ 0.5-1.0': yellow-brown.
				2			@ 1.0-1.5': black.
AB-10 b-1292							1.5-4.0': SAND (SP), gray, medium.
				3			@ 2.5-4.0': yellow-green-gray, with 5% coarse sand.
				4			
				5			
				10			Bottom of pit at 4 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered).

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A8-12
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	?/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOLOGIC COLUMN	LITHOLOGIC DESCRIPTION
				0–2			0-2.25': ASPHALT and GRAVEL (GP), interlayered, wet.
A8-12-0193			▽ (at 5)	3–5	X (approx. 2.25–4.75)		2.25-5.0': SAND (SP), medium, moist. Course fraction increases downward. to 20%. @ 3.0': gray silt.
				5–10			Bottom of pit at 5 feet below ground surface. Groundwater encountered at 5 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	AB-13
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	4/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.5': ASPHALT.
							0.5-1.0': SILTY GRAVEL (GM), moist. (FILL)
				1			1.0-4.0': SAND (SP), medium. (DREDGE SAND)
AB-13-0193				2			@ 1.0-3.5': moist.
				3			@ 3.5': wet; perched water.
		(perched)	▽	4			
			=				4.0-5.0': SANDY SILT (ML), gray, moist.
				5			
							Bottom of pit at 5 feet below ground surface. Groundwater encountered at 4 feet below ground surface. (perched).
				10			

REMARKS

EMCON Northwest, Inc.

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-01
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5.25
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1-/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-2': WOOD CHIPS
				2			2.0 - 2.75': SAND (SP) mixed with ash and wood debris.
A9-01-0193				3			2.75 - 5.25': SAND (SP), gray-green, medium (DREDGE SAND).
			▽	4			
				5			
				6			Bottom of pit at 5.25 feet below ground surface. Groundwater encountered at 5.0 feet below ground surface.
				10			

REMARKS

EHCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A-9-02
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/21/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				5			(Trenched but could not get off concrete.)
				10			Bottom of pit at feet below ground surface. Groundwater encountered at feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A9-05
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 5'
DATE COMPLETED 10/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				0			0-4.0: WOOD CHIPS
				1			
				2			
				3			
				4			@ 4.0-5.0': DEBRIS. bricks, ash, sand, demolition debris. Underlain by concrete foundation.
A9-05-0193				5			
				10			

Bottom of pit at 5.0 feet below ground surface.
Groundwater encountered at -- feet below ground surface. [not encountered]

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-06
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-1.0': GRAVEL (GP), brown, with fines. Moist. (FILL).
A9-06- D193				2			1.0-3.0': SAND (SP), medium, moist. @ 1.0-2.0': black. @ 2.0-3.0': yellow-brown.
			▽	3			
				4			
				5			
				10			

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 3 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-07
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1-20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.75': GRAVEL (GP), brown. (FILL).
A9-07-0193			▽	1 2			0.75-2.5': SAND with SILT (SP-SM), light brown to dark gray, medium-grained sand, trace gravel. @ 1.0': 6" pipe and wood waste.
				3 4 5 10			Bottom of pit at 2.5 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-08
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5.75'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson / Greg Mack	DATE COMPLETED	12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-3.0': WOOD CHIPS, reddish to yellowish-brown.
				2			
				3			
A9-08-1292				4			3.0-5.75': bricks, wood, wire, charcoal, sand; @3.0-5.0': brown to gray @5.0-5.75': black to dark brown. Underlain by wooden deck.
				5			
				6			
				10			Bottom of pit at 5.75 feet below ground surface. Groundwater encountered at -.- feet below ground surface. -[not encountered]

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A9-09...
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3'
DATE COMPLETED 12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A9-09-	1292			1			0-0.5': DEBRIS; bricks, ash, sand, roots, wood, metal; brown gray.
				2			0.5-3.0': CONCRETE. Box filled with bricks, ash, sand and demolition debris.
				3			
				4			
				5			
				10			Bottom of pit at 3 feet below ground surface. Groundwater encountered at --- feet below ground surface. -[not encountered]

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-10
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson/Greg Madle	DATE COMPLETED	12/17/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A9-10-1292				1			0-0.25': ASPHALT 0.25-0.75': GRAVELLY SAND (GP-SP), trace fines 0.75-1.0': SAND (SP), yellow-brown, fine, with trace gravel. 1.0-3.0': SAND (SP), medium gray to greenish-gray, fine, with bricks.
				2			
				3			
				4			
				5			
				10			

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at --- feet below ground surface. (not encountered)

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A9-11
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 5.5'
DATE COMPLETED 1/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A9-11-0193			▽ =	1 2 3 4 5 6 10			0-0.5': ASPHALT 0.5-1.0': GRAVEL with sand (GP-GM), yellow-brown. 1.0-4.5': SILTY SAND (SM) with Gravel, gray to brown. Damp. 4.5-5.0': SAND (SP), dark gray. Wet. Bottom of pit at 5.5 feet below ground surface. Groundwater encountered at 5.25 feet below ground surface.

REMARKS

ENCON Northwest Inc

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-12
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	4/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A9-12-0193				1			0-1.5': GRAVEL (GP), fine. @ 0-0.5': reddish-brown, with fines. @ 0.75': tan sand. @ 1.0-1.5': yellow-brown.
				2			1.5-3.0': SILTY SAND (SM), light gray. @ 2.5-3.0': yellow-brown, with trace gravel.
				3			
				4			
				5			
				10			Bottom of pit at 3 feet below ground surface. Groundwater encountered at --- feet below ground surface. (not encountered)

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-13
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A9-13-0193			▽	1 2 3 4 5 10			0-0.5': ASPHALT. 0.5-1.0': GRAVEL (GP-GM), yellow-brown. 1.0-3.5': SAND (SP), yellow-brown, medium, with lenses 2" to 12" thick of gray silt. Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-14
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1-20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A9-14-0193			▽	1 2 3 4 5 10			0-0.3': ASPHALT 0.3-0.75': GRAVEL with Silt (GP-GM), brown. 0.75-3.5': SAND (SP), medium. @ 0.75-1.25': black, with gravel. @ 1.25-3.5': brown, medium, with trace gravel and trace fines. Bottom of pit at 3.5' feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A9-15
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.25
DATE COMPLETED 4/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-1.75': DEBRIS. sawdust, gravel, cement waste, fines. Light brown.
A9-15-0193				2			1.75-3.0': SAND (SP), medium. @ 1.75-2.0': black @ 2.0-3.0': brown, with trace gravel.
			▽	3			3.0-3.25: SAND, (SP), gray-green, medium (DEBRIS)
				4			
				5			
				10			

Bottom of pit at 3.25 feet below ground surface.
Groundwater encountered at 3.0 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A9-16
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	/9

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-1': ASPHALT
A9-16A				1			1.0-2.0': SAND (SP), @ 1.0-1.3': gray, silty @ 1.3-2.0': black.
A9-16B				2			2.0-3.0': SAND (SP), gray-green, medium. (DREDGE SAND).
			▽	3			
				4			
				5			
				10			Bottom of pit at 3' feet below ground surface. Groundwater encountered at 3' feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-01
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/28/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOLOGIC COLUMN	LITHOLOGIC DESCRIPTION
SB A10-01A 1292		8 13 18 4 13 18	▽	1 2 3 4 5 10			0 – .5 : Asphalt .5 – 1.0: SAND, (SW), black, some gravel, some coarse sand, some fine sand, damp 1.0 – 1.5 : SILT, (CL), grey and blue, (12/18) 1.5 – 3.3 : SAND, (SP), grey, some fines, trace gravel, wet, (7/18) TD = 40"

Bottom of pit at 3.3 feet below ground surface.
Groundwater encountered at 2 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A10-02.
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.6'
DATE COMPLETED 12/28/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SB; A10-02A-1292		24		1			0-0.6: asphalt
		9					0.6-2.25: gravel, silt, and SAND, GM/SM, grey, some wood debris, trace fines, damp
		9		2			
		6					2.25-2.35: wood debris
SB; A10-02B-1292		11		3			2.35-3.6: SAND, (SW), grey, medium sand, some fine sand, some gravel, some wood debris, trace fines, (13/18)
		12					TD = 43"
				4			
				5			
				10			

Bottom of pit at 3.6 feet below ground surface.
Groundwater encountered at — feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-03
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5.5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/10/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A10-03-1292	/			1 2 3 4 5 6 10			0-4"(?): Soil, GRASS 4"-5.5': SAND (SP), gray-green, medium, damp. to moist. @ 0.75-1.25': SILTY SAND (SM). Bottom of pit at 5.5' feet below ground surface. Groundwater encountered at -- feet below ground surface. [not encountered]

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A10-04
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 6'
DATE COMPLETED 12/10/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOLOGIC COLUMN	LITHOLOGIC DESCRIPTION
				1			0-3" (?) SOIL, GRASS 3" - 1.5': SAND (SP), gray-green, medium. (DREDGE SAND).
A10-04-1292				2	X		@1.5 - 4.25': SAND (SP), medium, black.
				3			
				4			
				5			4.25 - 6.0': SAND (SP), gray-green, medium (DREDGE SAND). @5': mat of organic-rich black material underlain by gray-green clay.
				6			
				10			Bottom of pit at 6.0 feet below ground surface. Groundwater encountered at — feet below ground surface. [not encountered].

REMARKS

ENCON Northwest, Inc.

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-05
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	~3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/10/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							WOOD CHIPS. 0~1', yellow-brown.
A10-05-1292			▽	1	☒		1-3': SAND (SP), gray-green, medium, with intermittant horizons of fine-grained black sand..
				2			
				3			
				4			
				5			
				10			Bottom of pit at ~3 feet below ground surface. Groundwater encountered at 1' feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-06
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.75'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/10/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOLOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.5': WOOD CHIPS, yellow-brown.
A10-06-1292					X		0.5-1.0': SAND (SP), black, medium.
			▽	1			1.0-2.75': SAND (SP), gray-green, medium. (DREDGE SAND).
				2			
				3			
				5			
							Bottom of pit at 2.75 feet below ground surface. Groundwater encountered at 1.25 feet below ground surface.
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.27 BLANK 1??/??:1 01/10/??

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-07
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	~3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/10/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
			(perched)	1			0-1': WOOD CHIPS, yellow-brown.
A3-07-1292				2			1-3': SAND (SP), gray-green, medium; moist to 2', damp below 2'. (DREDGE SAND).
				3			
				4			
				5			
				10			Bottom of pit at ~3' feet below ground surface. Groundwater encountered at 2' feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-08
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/10/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
			▽				0-1': WOOD CHIPS, yellow brown.
A10-08-1292				1			1-2.5': SAND (SP), gray-green, medium, with few fines. (DREDGE SAND).
				2			
				3			
				5			
				10			Bottom of pit at 2.5' feet below ground surface. Groundwater encountered at 1.75' feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A10-09
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.5'
DATE COMPLETED 12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 - 0.25' : ASPHALT
							0.25 - 1.0' : GRAVEL (GP), fine, gray. (FILL).
A10-09-1292			▽	1			1.0 - 2.5' : SAND (SP) with ±10% gravel, black, medium, wet.
				2			
				3			2.5 - 3.5' : SAND (SP), gray-green, medium, wet. (DREDGE SAND).
				4			
				5			
				10			Bottom of pit at 3.5 feet below ground surface. Groundwater encountered at 1.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A10-10
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH ~3'
DATE COMPLETED 12/10/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A10-10-1292			▽	1 2 3 5 10			0-0.75': GRAVELLY SAND (GP-SP), (FILL) 0.75-1.25': WOOD CHIPS, orange-brown. 1.25-3': SANDY SILT (ML), orange-brown, with wood chips and few fines, Bottom of pit at 3 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A10-11...
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.25
DATE COMPLETED 12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A10-11-1292			▽	1 2 3 5 10			0-0.3": ASPHALT. 0.3"-0.75': GRAVEL (GP), gray, fine. (FILL). 0.75-2.25': SAND (SP), gray-green, medium, with horizons of black sand. (DREDGE SAND). Bottom of pit at 2.25 feet below ground surface. Groundwater encountered at 1.5 feet below ground surface.

REMARKS

ENCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A10-12
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.25
DATE COMPLETED 12/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A10-12-1292			▽	1 2 3 5 10			0-0.3': ASPHALT. 0.3-0.5': GRAVEL (GP), gray, fine, with few fines. (FILL). 0.5-2.25': SAND (SP), gray-green, medium, with horizons of black sand. (DREDGE SAND). Bottom of pit at 2.25 feet below ground surface. Groundwater encountered at 1.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-13.
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/9/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A10-13-1292			▽ (perched)	1 2 3 4 5 10			0-2': soil, brown, silty and sandy with minor gravel. Moist. @1.5-2.0': dark gray to black organic mat. 2.0-5.0': SAND(SP) gray-green, medium. Moist. (DREDGE SAND). @3-3.5': brown-gray clayey silt horizon. @3.5-5.5': includes coarse-grained sand lenses. Bottom of pit at 5 feet below ground surface. Groundwater encountered at 1.75 feet below ground surface. (perched).

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-14
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	~3
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/10/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-1': Wood chips. Wet.
A10-14	-1292.			1			1.0 - 3.0': SAND (SP), gray-green, medium (DREDGE SAND). Wet.
				2			@ 1.5': reddish-brown staining.
				3			
				4			
				5			
				10			Bottom of pit at 3 feet below ground surface. Groundwater encountered at 1.25 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-15
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.0'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/28/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SB A10-15A-1292		17 21 9 3 3 4	▽	1 2 3 4 5 10			0-.75: SAND, (SW), brown, some gravel, some wood debris, black staining / mottling, damp 0-1.5 = (15/18) recovery 0.75-2.0: SAND, (SW), grey, some silt, some gravel, damp 2.0-3.0 = SAND, (SW), dark grey, medium sand, some gravel, some fine sand, trace fines TD = 3' 1.5-3.0 = (14/18) recovery

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 1.9 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-16
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	12/28/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SB A10-16A -1292		10 15 15	▽	1 2 5 10			0-.5 = asphalt .5-1.3 = SAND, (SP), grey, fine sand, 15% medium sand, trace coarse sand, trace fines, damp 1.3-1.4: SAND, (SW), medium sand, 30% fine sand, some gravel, wet 1.4-2.0: SAND, (SP), fine sand, trace coarse sand, trace fines, wet 0.5-2.0 = (15/18) recovery

Bottom of pit at 2 feet below ground surface.
Groundwater encountered at 1.3 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	A10-17
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	10/20/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.5': ASPHALT
A10-17-093				1 2			0.5-2.5': SAND (SP), gray-green, medium, (DREDGE SAND). @2.0': reddish-brown staining.
			▽	3			
				5			
				10			Bottom of pit at 2.5 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. A10-18
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.25'
DATE COMPLETED 1*/20/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
A10-18-0193			▽	1 2 3 4 5 10			0-1': GRAVEL (GP). @ 0.75-1.0': black sand. 1.0-3.25': SAND (SP), gray-green, medium with lenses of gravelly sand and lenses of silty sand. Bottom of pit at 3.25 feet below ground surface. Groundwater encountered at 3.25 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-1
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-1-0193			▽	1 2 3 4 5 6 7 10			0-0.5' ASPHALT. 0.5-1.25': GRAVEL (GP). (FILL) 1.25-1.5': SAND (SP), black. 1.5-3.0': SAND (SP), gray-green, medium, (DREDGE SAND). Bottom of pit at 3 feet below ground surface. Groundwater encountered at 3 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L??/ea:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-2
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-2-0193			▽	1 2 3 4 5 6 7 10			0-0.5': ASPHALT. 0.5-1.1': GRAVEL (GP). (FILL). 1.1'-2.5': SAND (SP), medium, (DREDGE SAND) @ 1.1-1.6': yellow-brown. 1.6-2.5': grey-green. Bottom of pit at 2.5 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-3
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.5': ASPHALT.
				1			0.5-1.5': GRAVEL (GP). (FILL).
SEF-3-0193				2			1.5-3.0': SAND (SP), gray, medium, with coarse sand horizons.
			▽	3			
				4			
				5			
				6			
				7			
				10			

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 3 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-4
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3'
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.4': ASPHALT.
				1			0.4-1.5': GRAVEL (GP), gray, fine.
				2			1.5-2.0': SAND (SP), black.
SEF-4-0193							2.0-3.0': SAND (SP), gray-green, medium, with coarse lenses. Roots common. (DREDGE SAND).
			▽	3			
				4			
				5			
				6			
				7			
				10			

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 3 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-5
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-5-0193			▽	1 2 3 4 5 6 7 10			0-0.4': ASPHALT. 0.4-1.1': GRAVEL (GP), gray-brown. (FILL) 1.1-1.5': SAND (SP), black. 1.5-3.0': SAND (SP), gray-green, (DREDGE SAND). Bottom of pit at 3 feet below ground surface. Groundwater encountered at 3 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-6
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.25'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-			▽	1 2 3 4 5 6 7 10			0-1.0': ORGANIC DEBRIS, brown, roots common. 1.0-1.3': SAND (SP), black. 1.3-3.25': SAND (SP), (DREDGE SAND). @ 1.3-2.0': yellow-brown. @ 2.0-3.25': gray-green. Bottom of pit at 3.25 feet below ground surface. Groundwater encountered at 2.9 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-7
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.75'
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.3': ASPHALT.
				1			0.3-1.5': GRAVEL (GP). (FILL).
				2			1.5-2.75': SAND (SP), black.
SEF-7-0193				3			2.75-3.75': SAND (SP), gray-green. (DREDGE SAND).
			▽	4			
				5			
				6			
				7			
				10			Bottom of pit at 3.75 feet below ground surface. Groundwater encountered at 3.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-6
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.25
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-6-0193			▽	1 2 3 4 5 6 7 10			0-1.0': SOIL (PT), roots common. 1.0-1.25': SAND (SP), black. 1.25-3.25': SAND (SP). (DREDGE SAND). @ 1.25-2.0': yellow-brown. @ 2.0-3.25': grey-green. Bottom of pit at 3.25 feet below ground surface. Groundwater encountered at 2.9 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-8
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.3': ASPHALT.
							0.3-1.0': GRAVEL. (FILL).
SEF-8-0193				1 2			1.0-2.5': SAND (SP), gray, green. @ 1.0-1.5': Reddish-brown stain.
			▽	3 4 5 6 7 10			Bottom of pit at 2.5 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-9
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.75'
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOLOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-9-019B			▽	1 2 3 4 5 6 7 10			0-0.3': ASPHALT. 0.3-1.0': GRAVEL (GP). (FILL). 1.0-2.75': SAND (SP), gray. (DREDGE SAND). Bottom of pit at 2.75 feet below ground surface. Groundwater encountered at 2.75 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-10
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 2.9'
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.5': ASPHALT.
							0.5-0.9': GRAVEL (GP). (FILL).
SEF-10-0193			▽	1 2 3 4 5 6 7 10			0.9-2.9': SAND (SP), gray. (DREDGE SAND)
							Bottom of pit at 2.9 feet below ground surface. Groundwater encountered at 2.9 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-11
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-11-0193			▽	1 2 3 4 5 6 7 10			0-0.3': ASPHALT. 0.3-3.0': GRAVEL AND SAND (GP-GM/SP), @ 0.3-1.2': light gray, with debris. @ 1.2-3.0': brown, with debris.

Bottom of pit at 3 feet below ground surface.
Groundwater encountered at 3 feet below ground surface.

REMARKS

D141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-12
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.2'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.3': ASPHALT.
				1			0.3-1.2': GRAVEL (GM), brown.
				2			1.2-2.3': SAND (SP), yellow-brown.
SEF-12-0193							2.3-3.2': SAND (SP), gray. (DREDGE SAND).
			▽	3			
				4			
				5			
				6			
				7			
				10			Bottom of pit at 3.2 feet below ground surface. Groundwater encountered at 3.2 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-13
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2'
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.3': ASPHALT.
							0.3-1.1': GRAVEL (GP), brown. (FILL).
SEF-13-0193				1			1.1-2.0': SAND AND GRAVEL (SP-SM/GP-GM), black.
			▽	2			
				3			
				4			
				5			
				6			
				7			
				10			

Bottom of pit at 2 feet below ground surface.
Groundwater encountered at 2 feet below ground surface.

REMARKS

EHCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-14
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4'
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-14-0193			▽	1 2 3 4 5 6 7 10			0-0.4': WOOD DEBRIS; roots. 0.4-4.0': ORGANIC SOIL, SAND, GRAVEL (PT/SP/GP), brown to black, with wood waste, roots. Bottom of pit at 4 feet below ground surface. Groundwater encountered at 4 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Company Site Assessment	TEST PIT NO.	SEF-15
LOCATION	Everett, Washington	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.5
LOGGED BY	Holly J. Corner / Jeffrey D. Swanson	DATE COMPLETED	1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-15-0193			▽	1 2 3 4 5 6 7 10			0-0.5': ASPHALT. 0.5-1.4': GRAVEL (GP-GM), gray. (FILL). @ 1.0-1.4': Wet. 1.4-2.5': SAND (SP), gray-green. (DREDGE SAND). Bottom of pit at 2.5 feet below ground surface. Groundwater encountered at 2.5 feet below ground surface.

REMARKS

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME Weyerhaeuser Company Site Assessment
LOCATION Everett, Washington
DUG BY Sleister
METHOD Backhoe
LOGGED BY Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-16.
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 5.75
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.4': ASPHALT.
				1			0.4-2.0': GRAVEL (GP). (FILL). @ 0.4-1.0': gray. @ 1.0-2.0': brown.
SEF-16-0193				2			
							2.0-2.5': GRAVEL and SAND (GP/SP).
				3			2.5-3.5': WOOD WASTE.
				4			3.5-5.75': SILT (ML), gray.
				5			
				6			
				7			
							Bottom of pit at 5.75 feet below ground surface. Groundwater encountered at -- feet below ground surface. (not encountered)
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-17.
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 5'
DATE COMPLETED 1/23/93.

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.5': ASPHALT.
							0.5-1.1': GRAVEL (GM), brown. (FILL).
SEF-17-0193			▽	1 2			1.1-2.7': SAND (SP), gray. (DREDGE SAND).
				3 4			2.7-5.0': SILT (ML), brown.
				5 6 7 10			Bottom of pit at 5 feet below ground surface. Groundwater encountered at 2.1 feet below ground surface.

REMARKS

EHCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-18
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4'
DATE COMPLETED 1/23/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.4': ASPHALT.
				1			0.4-1.2': GRAVEL (GP), coarse, brown (FILL).
							1.2-1.5': SAND (SP), black.
SEF-18-0193				2			1.5-4.0': SAND (SP); gray (DREDGE SAND).
			▽	3			
				4			Bottom of pit at 4 feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.
				5			
				6			
				7			
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.27.BLANK.L77/ss:1.01/10/92

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF - 19.
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.25
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
SEF-19-0193			▽	1 2 3 4 5 6 7 10			0-0.3': ASPHALT. 0.3-1.0': GRAVEL (GM), brown. (FILL). 1.0-3.25': SAND (SP), fine to coarse. (DREDGE SAND). @ 1.0-1.3': brown. @ 1.3-1.7': gray. @ 1.7-2.0': black. Bottom of pit at 3.25 feet below ground surface. Groundwater encountered at 3.25 feet below ground surface.

REMARKS

EHCON Northwest, Inc.

0141-037.27.BLANK.L77/sa:1.01/19/93

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-20
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 3.5
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.2': ASPHALT.
							0.2-1.0': GRAVEL (GP), brown. (FILL).
SEF-20-0193				1			1.0-3.2': SAND (SP), medium.
				2			@ 1.0-1.3': black
			▽	3			@ 1.3-1.9': yellow-brown.
							@ 1.9-3.2': gray.
							3.2-3.5': SILT (ML), gray, plastic.
				4			
				5			
				6			
				7			
				10			

Bottom of pit at 3.5 feet below ground surface.
Groundwater encountered at 3.0 feet below ground surface.

REMARKS

EMCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-21
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 4.75'
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.4': ASPHALT.
				1			0.4-1.1': GRAVEL (GP-GM), brown.
SEF-21-0193				2			1.1-3.5': SAND (SP), gray, medium. (DREDGE SAND). @ 1.1-1.2': black.
			▽	3			
				4			3.5-4.75': SILT (ML), gray, plastic.
				5			
				6			
				7			
				10			Bottom of pit at 4.75' feet below ground surface. Groundwater encountered at 3.1' feet below ground surface.

REMARKS

EHCON Northwest, Inc.

0141-037.27

EXPLORATORY TEST PIT LOG

PROJECT NAME: Weyerhaeuser Company Site Assessment
LOCATION: Everett, Washington
DUG BY: Sleister
METHOD: Backhoe
LOGGED BY: Holly J. Corner / Jeffrey D. Swanson

TEST PIT NO. SEF-22
PAGE 1 OF 1
REFERENCE ELEV.
TOTAL DEPTH 5.5'
DATE COMPLETED 1/23/93

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0-0.3': ASPHALT.
							0.3-1.0': GRAVEL (GP). (FILL.)
				1			1.0-1.75': SOIL with GRAVEL (PT/GP).
SEF-22-0193			▽	2			1.75-3.75': SAND (SP), medium. @ 1.75-2.1': brown. @ 2.1-2.2': black, with silt. @ 2.2-3.75': green-gray, coarsens downward.
				3			
				4			3.75-5.5': SILT (ML), gray.
				5			
				6			Bottom of pit at 5.5 feet below ground surface. Groundwater encountered at 3.5 feet below ground surface.
				10			

REMARKS

EHCON Northwest, Inc.

0141-037.27.BLANK.L??/sa:1.01/19/93

Appendix B – Data Validation and Laboratory Reports - Missing

APPENDIX C

FIELD SAMPLING DATA SHEETS

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett #0141-037.27
CLIENT/CONTACT "

Well or Surface Site Number MW-100S
Sample Designation MW100S-0193
Date, Time 1-21-93 12:00
Weather

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 7.73		1-20-93 09:05	Solinst (#2) 11:44
dtb = 12.75			
Δ = 5.02			

WELL EVACUATION: 1 p.v. = .82 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3	3+	disposable bailer=d.b.	N/A	1-21-93

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~TPH~~/BTEX	1-21-93	d.b.=	2x40	Vial	N/A	N	HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
	12:00	disposable							
TPH-D	"	bailer	1l	glass	"	N	-	"	
PCP	"	"	1l	"	"	N	-	"	
PAH	"	"	1l	"	"	N	-	"	
Tot. Ar	"	"	2 pt	poly	"	Y	HNO3	"	

FIELD WATER QUALITY TESTS: Measured using CONMET 2 Conductivity Meter, ATC PICCOLO ptmeter (#4-A, 4)

Pore Vol. Number	pH	Conductivity	Temp	Elapsed time	Purged			
1	6.53	020 µS	8.0 °C	11:20	1 gallon			
2	6.54	030 "	7.5 °C	11:38	1 "			
3	6.55	032 "	8.0°C	11:44	1			

NOTES:

purge water: moderately silty, rust brown in color at pv#3, slightly to clear - silt odor?

custody seals 2206 container #1, 2205 #2, 2218 #3

Total # of Bottles: 7 Signature: T. Bath

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett # 0141-037.27
CLIENT/CONTACT

Well or Surface Site Number MW-100D
Sample Designation MW100D-0193
Date, Time 1-21-93 11:00
Weather cloudy, windy, 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 8.19		1-20-93 12:07	Solinst (#2)
dtb = 30.10'		(09:07)	
Δ = 21.91			

WELL EVACUATION: 1 pv. = 3.57 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		peristaltic pump	distilled water, methanol, distilled water	1-21-93 10:39

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
VOC	1-21-93	d.b.=	3x40	vial	N/A	N	HCl	Y	Non-Phosphatic detergent wash H2O rinse, MeOH rinse Distilled H2O rinse
	11:00	disposable bailer							
WTPH-D	"	"	1l	glass	"	N	-		
PAH	"	"	1l	"	"	N	-		
PCP	"	"	1l	"	"	N	-		
Dis. As	"	"	2-pt	poly	"	Y	HNO3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	time En				
1	6.92	327	12.5°C	10:20	4 gallons			
2	6.91	332	13.	10:26	4 "			
3	6.91	31	13	10:32	3.5 "			
4	6.92	33		10:39	4 "			

NOTES:

purge water: clear to slightly silty, musky odor (also ? cannot define)

Total # of Bottles: 8 Signature:

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett # 0141-037.27
CLIENT/CONTACT

Well or Surface Site Number MW101
Sample Designation MW101-0193
Date, Time 1-21-93 12:30
Weather clear, 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 7.71		1-20-93 09:14	Solinst (#2)
dtb = 9.16			
Δ = 1.45			

WELL EVACUATION: 1 pv, = .24 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
.75	3+	d.b.	N/A	1-21-93 1228

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
WTPH-D	1-21-93 12:30	d.b.	1l	glass	N/A	N	—	Y
PAH	"	"	1l	glass	"	N	—	"
dis Ar	"	"	2x pt	poly	"	Y	HNO_3	"

Sampler Cleaning Method: Non-Phosphatic detergent wash / H_2O rinse / MeOH rinse / Distilled H_2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh (+time)				
1	6.35	150 µS	9.0°C	12:20	.25 gallon			
2	6.34	131	8.5	12:24	.25 "			
3	6.35	137	8.5	12:28	.25 "			

NOTES:

purge water: slight to moderately silty, olive brown in color; slight odor (?)

Total # of Bottles: 4

Signature: Tom Boddie

SEA-400-01

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett # 0141-032.27
CLIENT/CONTACT

Well or Surface Site Number MW-102
Sample Designation MW102-0193 / MW102-0193
Date, Time 1-22-93 16:00, 1-25-93 "
Weather partly cloudy, 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw=7.99		1-20-93 09:18	Solinst (#2)
dtb=8.90			
Δ = .91			

WELL EVACUATION: 1 P.V. = .15 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
→ 1	→ 6+	[redacted]	distilled water →	→ see below
		peristaltic pump	(d.w), methanol, d.w.	1-25-93 13:19

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

sample id. MW102-0193

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
TPH-G/BTEX	1-22-93 16:00	d.b.	2x40	vial	N/A	N	HCl	Y
TPH-D	1-25-93 1400	peristaltic pump	1l	glass	"	N	—	"
PCP	1-25-93 "	"	1l	"	"	N	—	"
PAH	1-25-93 "	"	1l	"	"	N	—	"
Ar	1-25-93 "	"	2x pt	poly	"	Y	HNO3	"

sample id. MW102-0193B

Sampler Cleaning Method: Non-Phosphatic detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse

FIELD WATER QUALITY TESTS: see below.

Pore Vol. Number	pH	Conductivity	Temp	Time Eh				
1	6.13	555 µS	11.5°C	13:12	.5 gallon			
2	6.14	521	11.5	13:16	.25 "			
3	6.14	493	11.5	13:19	.25 "			

NOTES:

1-21-93
purge water: disposalle bailer returning < ¼ full, to use peristaltic pump?
purge water moderately to heavily silted
☆ finding abundant amounts of (apparently) Colorado Silica Sand in bailer when purgeing, clogging bailer causing quick leakage (w/ silt, sand) due to small rtn. p.w, will skip sampling unless time permits. for well development with peristaltic pump
1-22-93
tried to sample/purge again same problem but < ½ bailer rtn purge water will collect w/TPH-G, BTEX sample

Total # of Bottles: 2+5=7 purge water moderately to slightly silty Signature: Tom Bolla

1-25-93 purged using peristaltic pump: [redacted], olive brown in color; musty odor; excellent recovery.

SEA-400-01

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett # 041-037.27
CLIENT/CONTACT

Well or Surface Site Number MW-103S
Sample Designation MW103S-0193
Date, Time 1-22-93 15:00
Weather cloudy, hail, 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 11.05		1-20-93 09:23	Solinst (#2)
dtb = 11.70			
Δ = .65			

WELL EVACUATION: 1 p.v. = .10 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
.3	3	disposable bailer		1-22-93 14:30
		d.b.		

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
TPH-G/BTEX	1-22-93 15:00	d.b.	2x40	vial	N/A	N	HCl	Y
• PCP	"	"	1l	glass	"	N	—	"
• PAH	"	"	1l	"	"	N	—	"
• Dioxin	"		1l	"	"	N	—	"
PCB	"		1l	"	"	N	—	"
As Ar	"		2x pt	poly	"	Y	HNO_3	"

Sampler Cleaning Method: Non-Phosphatic detergent wash, H_2O rinse, MeOH rinse, Distilled H_2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh (time)				
1	6.53	1706 µS	10°C	14:23	.10			
2	6.58	1644	14	14:27	.10			
3	6.57	1661	14	14:30	"			

NOTES:

purge water: moderately silty black olive brown ~~oil~~ oily? (have a cold)

note dissolved As field filtered using generator, elec. per. pump as jerry rigged, observed no leaks at filter

Total # of Bottles: 8 Signature:

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett #0141-027.27
CLIENT/CONTACT

Well or Surface Site Number MW-103D
Sample Designation MW103D-0193
Date, Time 1-21-93 15:00
Weather cloudy, low 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 9.64		1-20-93 09:25	Solinst (#2)
dtb = 27.60			
Δ = 17.96			

WELL EVACUATION: 1 p.v. = 17.96 gallon = 3.0 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
16	5+	peristaltic pump	deionized water, methanol	1-21-93 14:41
			deionized water	

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
VOC	1-21-93 15:00	d.b.	3x40	vial	N/A	N	HCl	Y
TPH-D	"	"	1l	glass	"	N	-	"
PAH	"	"	1l	"	"	N	-	"
dis. Ar.	"	"	2x pt	poly	"	Y	HNO_3	"

Sampler Cleaning Method: Non-Phosphatic detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	time Eh				
1	6.40	010 µS	11°C	14:13	1 gallon			
2	6.39	30	16.	14:23	3 "			
3	6.40	57	16.	14:29	3 "			
4	6.42	111	16.5	14:35	3 "			
5	6.42	106	16.	14:41	3			

NOTES:

purge water: clear
musty (?) odor
at p.v. #4 rotten egg sulfurous (?) like odor

Total # of Bottles: 17 Signature: Tom Boddie

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett # 0141-037.27
CLIENT/CONTACT

Well or Surface Site Number MW-104
Sample Designation MW104-0193
Date, Time 1-22-93 13:00
Weather partly cloudy, 40's

HYDROLOGY MEASUREMENTS: 2" m.w.

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 11.37		1-20-93 09:29	Solinst (#2)
dtb = 15.00			
Δ = 1.63			

WELL EVACUATION: 1 pv = .26 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1.80	3†	d.b.	N/A	1-22-93 12:25

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
WTPH-D	1/22/93	d.b	1l	glass	N/A	N	–	Y
PAH	13:00	"	1l	"	"	N	–	Y
PCB		"	1l	"	"	N	–	Y
Dioxin		"	1l	"	"	N	–	Y
ds As		"	2xpt	poly	"	Y	HNO_3	Y

Sampler Cleaning Method: Non-Phosphatic detergent wash, H_2O rinse, MeOH rinse, Distilled H_2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	time Elf				
1	6.58	1692 µS	15.5°c	12:15	.30 gallon			
2	6.56	1716		12:19	.25 "			
3	6.58	1706		12:25	.25 "			

NOTES:

purge water: slight to moderately silty (heavy silty sand at bottom) brown in color
charcoal like odor
field-filtered for ds. As using generator and peristaltic pump as car battery unit out, jerry rigged tube

Total # of Bottles: 6 Signature: Tony Eddleman

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Everett Weyerhaeuser # 0141 03727
CLIENT/CONTACT

Well or Surface Site Number MW-105S
Sample Designation MW105S-01[illegible]93
Date, Time 1-22-93 12:00
Weather partly cloudy, 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 8.08		1-20-93 0943	Solinst (#2)
dtb = 10.00			
Δ = 1.92			

WELL EVACUATION: 1 pv = .31 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1	3+	d.b.	N/A	1-22-93 11:32

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
~~with GBTEX~~	1-22-93 12:00	d.b	2×40	Vial	N/A	N	HCl	Y
~~TPH-D~~	"	"	1l	glass	"	N	"	"
PAH	"	"	1l	"	"	N	—	"
PCB	"	"	1l	"	"	N	—	"
diosin	"	"	1l	"	"	N	—	"
diss. As	"	"	2×pt.	poly	"	Y	HNO3	"

Sampler Cleaning Method: Non-Phosphatic detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Time / Eh				
1	6.96	1413 uS	14.°C	11:21	.33 gallon			
2	6.89	1163	13.5	11:27	.34			
3	6.83	1072		11:32	.33			

NOTES:

purge water: moderately to strongly silty, black olive brown in color... rusty odor, hydro carbon like?

Total # of Bottles: 8 Signature: Tom Goddard

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett # 0141-037.27
CLIENT/CONTACT

Well or Surface Site Number MW-105D
Sample Designation MW105D-0193
Date, Time 1-22-93 10:30
Weather cloudy, 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.) Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 8.44 (no surveymark)	1-20-93 09:41	Solinst (#2)
dtb = 28.00, from north t.o.c.		
A = 19.56		

WELL EVACUATION: 1 p.v = 3.12 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
10.5	3t	peristaltic pump		1-22-92 09:59

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
VOC	1-22-93 10:30	d.b.	3x40	vial	N/A	N	HCl	Y	Non-Phosphatic detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse
TPH-D	"	"	1l	glass	"	N	—	"	
PAH	"	"	1l	"	"	N	—	"	
Phenh	"	"	1l	"	"	N	—	"	
Tot. Arc	"	"	2x pt	poly	"	Y	HNO3	"	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh time				
1	6.72	1280 µS	14.5°C	09:46	3.5 gallon			
2	6.73	1268	14.5°C	09:53	"			
3	6.76	1280	14.5°C	09:59	"			

NOTES:

purge water clear (trace silt)
musty odor
good recovery

Total # of Bottles: 8 Signature: Tony Bodle

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyer, Everett # 0411-037.27
CLIENT/CONTACT

Well or Surface Site Number MW-106
Sample Designation MW106-012193
Date, Time 1-21-93 16:15
Weather cloudy, 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 3.25		1-20-93 08:55	Solinst (#2)
dtb = 5.90			
Δ = 2.65			

WELL EVACUATION: 1 p.v. = .43 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1.5	3+	d.b.	N/A	1-21-93 16:00

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~TPH-G/BTEX~~	1-21-93 16:15	d.b.	2x40	vial	N/A	N	HCl	Y	Non-Phosphatic detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse
TPH-D	"	"	1l	glass	"	N	-	Y	
TAH	"	"	1l	"	"	N	-	Y	
Dis. Ar	"	"	2x pt.	poly	"	Y	HNO_3	Y	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Time Eh				
1	6.73	573 µS	8.5°C	15:41	.50 gallon			
2	6.77	559	7.0	15:50	.50 "			
3	6.73	533	6.5	16:00	.50 "			

NOTES:

purge water: moderately silty, dark olive brown in color (toward black shade)
odor ??
grnd recharge

Total # of Bottles: 6 Signature: Tom Foster

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyerhaeuser Everett # 0141.087-27
CLIENT/CONTACT

Well or Surface Site Number MW-107
Sample Designation MW07-d:93
Date, Time 1-20-93 13:30
Weather rainy, windy, 40's

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw. 3.82		1-20-93 08:50	Solinst #2
dtb. 8.80			
Δ. 4.98			

WELL EVACUATION: 1 pv = .81 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3	3+	d.b.	N/A	1-20-93 13:18

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~TPH-G/BTEX~~	1-20-93 13:30	d.b.	2x40ml	vial	N/A	N	HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
TPH-D	"	"	1 L.	glass	"	N	-		
dis Pb	"	"	2x500ml ↖pt	poly	"	Y	HNO3	Y	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh (time)				
1	6.96	238 µS	5.0°C	13:05	1 gallon			
2	6.84	50	5.0°C	13:11	"			
3	6.86	52	5.0°	13:18	"			

NOTES:

purge water: moderately silty, dark olive brown in color
hydrocarbon like odor observed
* copious sheen

Total # of Bottles: 5 Signature: Tom Bolke

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyer. Everett #0141-037.27
CLIENT/CONTACT

Well or Surface Site Number MW-108 S
Sample Designation MW108S-0193
Date, Time 1-20-93 16:30
Weather rain, wind, 40's

HYDROLOGY MEASUREMENTS: 2" m.w.

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 4.63		1-20-93 8:41	Solinst #2
dtb = 9.40			
Δ = 4.77			

WELL EVACUATION: 1 p.v. = .78 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
4	5+	d.b.-disposable bailer	N/A	1-30-93 16:21

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-G, BTEX	1-20-93	d.b.	2x40	vial	N/A	N	HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
	1630								
WTPH-D	"	"	1l	glass	"	N		Y	
cls. As.	"	"	2 pt 2 1l	poly	"	Y	HNO3	Y	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Time / EH				
1	6.76	095 µS	5.0°C	15:50	1 gallon			
2	6.76	90 "	5.0°C	15:57	.75 "			
3	6.74	20 "	5.0°C	16:11	.75 "			
4	6.70	53	4.0	16:16	.75			
5	6.76	77	4.5	16:21	.75			

NOTES:

purge water: moderately to strongly silty, dark olive brown in color
hydro carbon like odor
sheen (moderate) observed atop p. water

Total # of Bottles: 5 Signature: Tony Bodle

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyer. Everett #.0141-087.27
CLIENT/CONTACT

Well or Surface Site Number MW-108D
Sample Designation MW108D-0193
Date, Time 1-20-93 15:15
Weather rainy, 40's, windy

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 6.35		1-20-93 08:39	Solinst #2
dtb = 30.50			
Δ = 24.15			

WELL EVACUATION: 1 p.v. = 3.94 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
20	5+	peristaltic pump	d.i. water, methanol, d.i. water	1-20-93 14:54

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
VOC	1-20-93 15:15	disposable bailer	3x40	vial	N/A	N	HCl	Y
WTPH-D	"	d.B.	1l	glass	"	N	-	"
PAH	"	d.B.	1l	glass	"	N	-	"
ds As	"	d.B.	250ml	1pt. poly	"	Y	HNO_3	"

Sampler Cleaning Method: Non-Phosphatic detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Time (Hr)	Ev			
1	6.88	163 µS	11.5°C	14:21	4 gallon			
2	6.89	96 "	12.0	14:30	"			
3	6.90	60 "	11.5	14:40	"			
4	6.89	70 "	11.5	14:48	"			
5	6.92	43 "	11.5	14:54	"			

NOTES:

surge water: clear to slightly silty, hydro carbon (c.d) like odor
excellent recharge

Total # of Bottles: 7 Signature: Tony Bell

emcon
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Weyer. Everett # 0141-037.27
CLIENT/CONTACT

Well or Surface Site Number MW-109
Sample Designation MW109-0193
Date, Time 1-20-93 11:30
Weather rainy, windy, 40s

HYDROLOGY MEASUREMENTS: 2"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 4.97		1-20-93 08:25	Solinst (#2)
dtb = 10.70			
Δ = 5.73			

WELL EVACUATION: 1 p.v. = .93 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
4	4+	d.b.	N/A	1-20-93 11:14

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
TPH-G/BTEX	1-20-93 11:30	d.b	2x40	vial	N/A	N	HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
TPH-D	"	"	1l	glass	"	N	—	"	
PAH	"	"	1l	"	"	N	—	"	
PCP	"	"	1l	"	"	N	—	"	
5 As	"	"	2x500ml ↘ ~pt	poly	"	Y	HNO_3	"	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	time En				
1	6.78	125 µS	8.5°C	10:56				
2	6.77	35	8.5	11:02				
3	6.70	48	8.0	11:08				
4	6.72	47	8.0	11:14				

NOTES:

purge water: moderately silty, olive brown in color
musty odor
small amount of sheen observed atop p. water

Total # of Bottles: 7 Signature: Tom Bolle

SEA-400-01

EMCON Northwest, Inc.

Chain of Custody / Laboratory Analysis Request

DATE 1-22-93 PAGE 1 OF 2

PROJECT Weyerhaeuser Everett # 0141 037.27
CLIENT INFO.
CONTACT
ADDRESS
TELEPHONE #
SAMPLERS NAME Tom Bodle PHONE # 485-5000
SAMPLERS SIGNATURE Tom Bodle

SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE	BASE/NEU/ACID ORGAN. GC/MS/625/8270	VOC VOLATILE ORGANICS GC/MS/624(8240)	HALOGENATED VOLATILE ORGANICS 601/8010	PHENOLICS 604/8040	POLYNUCLEAR AROMATIC 610/8310	TOTAL ORGANIC CARBON (TOC) 415/9060	TOTAL ORGANIC HALIDE (TOX) 9020	EP TOX/TCLP METALS (Circle One)	METALS (TOTAL) (See Special Inst.)	TCLP ORGANICS	pH, COND ALK	NO_3/NO_2, Cl SO_4	Ca, Mg, Na, K	WTPH-Gas, BTEX	WTPH-D	PCB EPA-608	PCP EPA-604	PAH EPA-610	dissolved metal = Arsenic EPA-200.2	NUMBER OF CONTAINERS
1. MW100S-0193	1-21-93	12:00		water														✓	✓		✓	✓	✓	7
2. MW100D-0193	1-21-93	11:00				✓													✓		✓	✓	✓	8
3. MW101-0193	1-21-93	12:30																	✓			✓	✓	4
4. MW103D-0193	1-21-93	15:00				✓													✓			✓	✓	7
5. MW106-0193	1-21-93	16:15																✓	✓			✓	✓	6
6. MW107-0193	1-20-93	13:30																✓	✓				✓	5
7. MW108S-0193	1-20-93	16:30																Hold ✓	✓				✓	5
8. MW108D-0193	1-20-93	15:15		↓		✓													✓			✓	✓	7

ANALYSIS REQUESTED — GENERAL CHEMISTRY (Specify) — OTHER (Specify)

Relinquished By EMCON Northwest, Inc.	Relinquished By	Relinquished By	PROJECT INFORMATION	SAMPLE RECEIPT
Signature: Tom Bodle	Signature:	Signature:	Shipping I.D. No.:	Total No. of Containers:
Printed Name: Tom Bodle	Printed Name:	Printed Name:	VIA:	Chain of Custody Seals:
Firm: EMCON	Firm:	Firm:	Project:	Received in good condition:
Date/Time: 1-22-93 11:00	Date/Time:	Date/Time:		LAB NO.
Received By	**Received By**	**Received By**	**SPECIAL INSTRUCTIONS/COMMENTS**	
Signature: Bonnie Chappel	Signature:	Signature:	Hold id MW108S-0193 for analysis WTPH-G, BTEX	
Printed Name: BONNIE CHAPPEL	Printed Name:	Printed Name:	dissolved metals = Arsenic only (Note Field Filtered)	
Firm: Weyco	Firm:	Firm:		
Date/Time: 1/22/93 1600	Date/Time:	Date/Time:		

DISTRIBUTION: WHITE - return to originator; YELLOW: - lab; PINK - retained by originator.

Chain of Custody / Laboratory Analysis Request

EMCON Northwest, Inc.

DATE 1-22-93 PAGE 2 OF 2

PROJECT Weyerhaeuser Everett # 0141-037.27
CLIENT INFO.
CONTACT
ADDRESS
TELEPHONE #
SAMPLERS NAME Tom Bodle PHONE # 485-5000
SAMPLERS SIGNATURE Tom Bodle

ANALYSIS REQUESTED — GENERAL CHEMISTRY (Specify) — OTHER (Specify)

SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE	BASE/NEU/ACID ORGAN. GC/MS/625/8270	VOLATILE ORGANICS GC/MS/624/8240 (VOC)	HALOGENATED VOLATILE ORGANICS 601/8010	PHENOLICS 604/8040	POLYNUCLEAR AROMATIC 610/8310	TOTAL ORGANIC CARBON (TOC) 415/9060	TOTAL ORGANIC HALIDE (TOX) 9020	EP TOX/TCLP METALS (Circle One)	METALS (TOTAL) (See Special Inst.)	TCLP ORGANICS	pH, COND ALK	NO_3/NO_2, Cl SO_4	dioxin Ca, Mg, Na, K	WTPH-Gas, BTEX	WTPH-D	RCB EPA-608	PCP EPA-604	PAH EPA-610	dissolved metals → Arsenic EPA-206.2	NUMBER OF CONTAINERS
1. MW109-0193	1-20-93	11:30		water														✓	✓		✓	✓	✓	7
2. MW105D-0193	1-22-93	10:30		water		✓											✓		✓	hdd		✓	✓	
3.																								
4.																								
5.																								
6.																								
7.																								
8.																								

Relinquished By EMCON Northwest, Inc.
Signature: Tom Bodle
Printed Name: Tom Bodle
Firm: EMCON
Date/Time: 1-22-93 11:00

Relinquished By
Signature
Printed Name
Firm
Date/Time

Relinquished By
Signature
Printed Name
Firm
Date/Time

PROJECT INFORMATION
Shipping I.D. No.
VIA
Project

SAMPLE RECEIPT
Total No. of Containers
Chain of Custody Seals
Received in good condition
LAB NO.

Received By
Signature: Bonnie Chappel
Printed Name: BONNIE CHAPPEL
Firm: Weyco
Date/Time: 1/22/93 1600

Received By
Signature
Printed Name
Firm
Date/Time

Received By
Signature
Printed Name
Firm
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS
dissolved metals = Arsenic only (Note Field Filtered)

DISTRIBUTION: WHITE - return to originator; YELLOW: - lab; PINK - retained by originator.

37.27

EMCON Northwest, Inc.

Chain of Custody / Laboratory Analysis Request

RECEIVED JAN 27 1993

DATE 1-22-93 PAGE 1 OF 1

PROJECT Weyerhaeuser Everett # 0141-037.27

CLIENT INFO.
CONTACT
ADDRESS
TELEPHONE #
SAMPLERS NAME Tom Bodle PHONE # 485-5000
SAMPLERS SIGNATURE Tom Bodle

ANALYSIS REQUESTED — GENERAL CHEMISTRY (Specify) — OTHER (Specify)

SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE	BASE/NEU/ACID ORGAN. GC/MS/625/8270	VOLATILE ORGANICS GC/MS/624/8240 (VOC)	HALOGENATED VOLATILE ORGANICS 601/8010	PHENOLICS 604/8040	POLYNUCLEAR AROMATIC 610/8310	TOTAL ORGANIC CARBON (TOC) 415/9060	TOTAL ORGANIC HALIDE (TOX) 9020	EP TOX/TCLP METALS (Circle One)	METALS (TOTAL) (See Special Inst.)	TCLP ORGANICS	pH, COND ALK	NO_3/NO_2, Cl SO_4	~~6 Hg, Ni, K~~ Dioxin	WTPH-Gas, BTEX	TJTPH-D	PCB EPA 608	PAH EPA 610	PEP EPA 604	dissolved metal as Arsenic EPA 206.2	NUMBER OF CONTAINERS
1. MW102-0193	1-22-93	16:00		water														✓						2
2. MW103S-0193	1-22-93	15:00		water													✓	✓		✓	✓	✓	✓	8
3. MW104-0193	1-22-93	13:00		water													✓		✓	✓	✓		✓	6
4. MW105S-0193	1-22-93	12:00		water													✓	✓	✓	✓	✓		✓	8
5. MW102-0193B	1-25-93	14:00		water															✓		✓	✓	✓	5
6.																								
7.																								
8.																								

Relinquished By EMCON Northwest, Inc.
Signature: Tom Bodle
Printed Name: Tom Bodle
Firm: EMCON
Date/Time: 1-25-93 14:45

Relinquished By
Signature
Printed Name
Firm
Date/Time

Relinquished By
Signature
Printed Name
Firm
Date/Time

PROJECT INFORMATION
Shipping I.D. No.
VIA
Project

SAMPLE RECEIPT
Total No. of Containers
Chain of Custody Seals
Received in good condition
LAB NO.

Received By
Signature
Printed Name
Firm
Date/Time

Received By
Signature
Printed Name
Firm
Date/Time

Received By
Signature: Bobbie Evangelista
Printed Name: Bobbie Evangelista
Firm: Weyco
Date/Time: 1/25/93 16:45

SPECIAL INSTRUCTIONS/COMMENTS
dissolved metal = Arsenic → all samples for this analysis were field filtered

DISTRIBUTION: WHITE - return to originator; YELLOW: - lab; PINK - retained by originator.

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-100S
Sample Designation MW-100S-0593
Date, Time 5/10/93 9.35
Weather Sunny, WARM

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
7.64		5/10/93 0835	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
5X	3X	Peristaltic Pump	N/A	5/10/93 935

Surface Water Flow Speed: N/A Measurement Method: N/A Date, Time: N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-G/BTEX		Disp Bailer	2x40	Glass vial		N	1:1 HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D			1-L	Glass					
PCP	5/10/93		1 L						
BNA			1 L						
As	935	P. Pump	1 L	Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS: Measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Gal Removed (Est)		Comments
1	6.63	0.576	15.6	1.0		Water is colorless to sl tan, clear, no odor
2	6.64	0.625	14.8	2.0		" " "
3	6.63	0.653	13.5	3.0		clear, colorless, no odor

NOTES:

Depth of Well: 12.75 − 7.64 = 5.11 ÷ 6 = 0.85 gal p.v.

Water is clear, colorless, No odor

Total # of Bottles: 6 Signature: J. Matthew Munn

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-100D
Sample Designation MW-100D-0593
Date, Time 5/10/93 0915
Weather Sunny, warm

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
8.28		5/10/93 0830	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
12+	3+	Peristaltic Pump	N/A	5/10/93 0915

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
VOC		Disp. Bailer	2x40	GLASS VIAL		N	unpres	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D		P. Pump	1L	GLASS					
BNA	5/10/93								
PCP									
As	0915	P. Pump		Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS: measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Eff	Y/N		Comments		
1	6.91	0.920	15.3	4.00			Water is clear, colorless, no odor		
2	6.99	0.920	14.7	8.0			"		"
3	7.10	0.935	14.3	12.0			"		"

NOTES:

Depth of Well: 30.10 − 8.28 = 21.82 ÷ 6 = 3.63 gal p.v.

Water is clear, colorless to slightly tan, no odor

Total # of Bottles: 6 Signature: J. Nicholas Manson

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Gneiting

Well or Surface Site Number MW-101S
Sample Designation MW-101S-0593
Date, Time 5/10/93 1020
Weather SUNNY, WARM

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
7.54		5/10/93	Solinst
		1006	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.75+	3+	Peristaltic Pump	N/A	5/10/93 1020

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-D		Dis. Bailer	~~2x40~~ 1L	GLASS+TEFLON		N	UNPRES	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
BNA		↓	1L	GLASS		↓	↓	↓	
As	5/10/93	E. Pump	↓	POLY		Y	HNO_3	↓	
	1020								

FIELD WATER QUALITY TESTS: measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Elr		Comments		
1	6.54	0.313	18.2	0.25		Clear, colorless, no odor		
2	6.50	0.349	14.8	0.50		"	"	
3	6.42	0.357	14.1	0.75		"	"	

NOTES:

Depth of Well: 9.16 − 7.54 = 1.62 ÷ 6 = 0.27gal p.v.

Water is clear, colorless, no odor

Total # of Bottles: 3

Signature: J. Nicholas Graves

SEA-400-01

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-102S'
Sample Designation MW-102S-0593
Date, Time 5/10/93 1055
Weather Sunny, WARM

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
7.61		5/10/93 1037	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.75+	3+	Peristaltic Pump	N/A	5/10/93 1055

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
TPH-G/BTEX		Disp. Bailer	2x40	GLASS VIAL		N	HNO3	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D			1L	GLASS					
PCP	5/10/93								
BNA									
AS	1055	P. Pump		Poly		Y	HNO3		

FIELD WATER QUALITY TESTS: Measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed	Eh		Comments
1	6.33	0.429	16.2	0.25			CLEAR, SL. TAN, NO ODOR, Red Susp Particles
2	6.44	0.431	13.5	0.50			CLEAR, COLORLESS, NO ODOR
3	6.48	0.445	13.4	0.75			"

NOTES:

Depth of Well: 8.90 − 7.61 = 1.29 ÷ 6 = 0.22gal p.v.

Water is clear, colorless, no odor

* Disposable Bailer clogged with Colorado Silica Sand? → Resulting in quick leakage. Tried several bailers → could not fill

Used peristaltic pump to collect all samples

Total # of Bottles: 6 Signature: J. Nicholas Pearson

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-103S'
Sample Designation MW-103S-0593
Date, Time 5/10/93 1250
Weather SUNNY, WARM

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
10.92		5/10/93 1208	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.75+	3+	Peristaltic Pump	N/A	5/10/93 1250

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-G/BTEX		Disp Bailer	2x40	GLASS VIAL		N	HCl pres	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
PCP			1L	GLASS					
BNA	5/10/93								
PCB									
AS	1250	P. Pump		Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS: Measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Elr		Comments		
1	6.57	.317	15.3	0.25		clear, colorless, no odor		
2	6.60	.376	14.4	0.50		"		"
3	6.69	.369	14.2	0.75		"		"

NOTES:

Depth of Well: 11.70 − 10.92 = 0.78 ÷ 6 = 0.13 gal p.v.

Water is CLEAR, colorless, no odor

* Was not able to fill disposable bailer above 1/8 capacity, WTPH-G/BTEX sampled w/ Disp. bailer → rest of samples collected w/ peristaltic pump

Total # of Bottles: 6 Signature: J. Nicholas Jones

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-103D
Sample Designation MW-103D-0593
Date, Time 5/10/93 1230
Weather SUNNY, WARM

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
13.27		5/10/93	Solinst
		1210	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
7.5+	3+	Peristaltic Pump	N/A	5/10/93
				1230

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
VOC		Disp. Bailer	2x40	GLASS VIAL		N	HNO3 spaces	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WELL-0		↓	1L	GLASS		↓	↓	↓	
BNA	5/10/93	↓	↓	↓		↓	↓	↓	
As		P. Pump	↓	poly		Y	HNO3	↓	
	1230								

FIELD WATER QUALITY TESTS: Measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL removed Eh		Comments		
1	6.48	1.158	19.0	2.5		clear, colorless, no odor		
2	6.45	1.210	16.3	5.0		clear, colorless, no odor		
3	6.52	1.217	16.0	7.5		"	"	"

NOTES:

Depth of Well: 27.60 − 13.27 = 14.33 ÷ 6 = 2.39 gal p.v.

Water is clear, colorless, no odor

Total # of Bottles: 5 Signature: J. Nicholas Ermon

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-104S'
Sample Designation MW-104S-0593
Date, Time 5/11/93 0900
Weather Cloudy, Cool

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
11.3		5/11/93	Solinst
		0837	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1.5 x	3 x	Peristaltic Pump	N/A	5/11/93
				0900

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-D		Disp. Bailer	~~2x40~~ 1L	GLASS ~~VIAL~~		N	HCl pres	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
BNA		↓	1L	GLASS		↓	↓		
PCB	5/11/93	↓	↓	↓		↓	↓		
AS		P. Pump	↓	Poly		Y	HNO_3		
	0900								

FIELD WATER QUALITY TESTS: Measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Etr		Comments		
1	6.50	1.255	14.9	0.50		Clear, colorless, No odor		
2	6.54	1.279	15.0	1.0		"	"	
3	6.54	1.282	15.0	1.5		"	"	

NOTES:

Depth of Well: 13.0' — 11.3 = 1.7 ÷ 6 = 0.28 gal p.v.

Water is clear, colorless, no odor

Total # of Bottles: 4 Signature: J. Nicholas Ergen

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-105,S'
Sample Designation MW-105,S-0593
Date, Time 5/10/93 1430
Weather Sunny, WARM

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
8.0		5/10/93	Solinst
		1332	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1.5+	3+	Peristaltic Pump	N/A	5/10/93
				1430

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
VTPH-G/BTEX		Disp. Bailer	2x40	GLASS VIAL		N	HCl pres	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D		↓	1L	GLASS		↓	↓	↓	
BNA	5/10/93		↓	↓					
PCB									
AS	1430	P. Pump	↓	Poly		Y	1x NO3		

FIELD WATER QUALITY TESTS: measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Elf		Comments
1	6.99	0.919	17.1	0.5		clear, colorless to sl. tan w/ susp particles
2	6.90	0.872	15.8	1.0		clear, colorless, no odor
3	6.89	0.823	15.8	1.5		" " "

NOTES:

Depth of Well: 10.0' — 8.0 = 2.0 ÷ 6 = 0.33gal p.v.

Water is clear, colorless, no odor

* Very difficult to bail → water was agitated because bailer had to be lowered to well bottom. Sample water was silty, dark brown

Total # of Bottles: 6 Signature: J. McGregor Grayson

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

*Duplicate - VOC - MW-110-0593 @1500

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-105D
Sample Designation MW-105D-0593
Date, Time 5/10/93 1400
Weather Sunny, warm

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
13.93		5/10/93	Solinst
		1329	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
7.5+	3+	Peristaltic Pump	N/A	5/10/93 1400

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
VOC		Disp. Bailer	2×40	GLASS VIAL		N	UNPRES	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WSPH-D		↓	1L	GLASS		↓	↓	↓	
BNA			↓	↓					
AS	5/10/93	P. Pump	↓	Poly		Y	HNO_3		
	1400								

FIELD WATER QUALITY TESTS: measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Eh		Comments		
1	6.80	0.916	17.0	2.5		Clear, colorless, no odor		
2	6.84	0.956	16.7	5.0		"		"
3	6.85	0.938	17.5	7.5		"		"

NOTES:

Depth of Well: 28.0' − 13.93 = 14.07 ÷ 6 = 2.3 gal p.v.

Water is clear, colorless, no odor (→ to slight tan)

Total # of Bottles: 5

Signature: J. Mulvenon

SEA-400-01

EMCON Northwest, Inc.

18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-106S'
Sample Designation MW-106S-0593
Date, Time 5/11/93 0930
Weather Cloudy, Cool

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
3.05		5/11/93 0920	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1.5±	3±	Peristaltic Pump	N/A	5/11/93 0930

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
TPH-G/BTEX		Disp Bailer	2×40	GLASS VIAL		N	UNPRES	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
MeOH-D		↓	1L	GLASS		↓	↓		
DNA	5/11/93		↓	↓		↓			
AS		P. Pump	↓	Poly		Y	HNO_3		
	0930								

FIELD WATER QUALITY TESTS: Measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Gal Removed Est		Comments		
1	6.84	0.437	12.1	0.50		Clear, colorless, no odor		
2	6.88	0.466	11.4	1.0		"		"
3	6.85	0.474	11.4	1.5		"		"

NOTES:

Depth of Well: 5.90' − 3.05 = 2.85 ÷ 6 = 0.48gal p.v.

* Monument filled w/water to ≈ 2" below top of slip cap

Water is clear, colorless, no odor

Total # of Bottles: 5 Signature: J. Matthew Garner

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-107S
Sample Designation MW-107S-0593
Date, Time 5/11/93 1015
Weather Cloudy, Cool

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
3.81		5/11/93	Solinst
		0953	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3.0 x ~~D.S~~ Y/N	3 x	Peristaltic Pump	N/A	5/11/93 1015

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-G/BTEX		Disp. Bailer	2x40	GLASS VIAL		N	HCl pres.	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D		↓	1L	GLASS		↓	↓		
AS	5/11/93	P. Pump	↓	Poly		Y	HNO_3		
	1015								

FIELD WATER QUALITY TESTS: measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Est.		Comments		
1	6.72	0.300	12.4	1.0		Clear, colorless to lt. tan, HC-like odor?		
2	6.87	0.296	11.8	2.0		"		"
3	6.86	0.309	11.5	3.0		"		"

NOTES:

Depth of Well: 8.80' − 3.81 = 4.99 ÷ 6 = 0.83gal p.v.

Water is clear, colorless to light olive brown, HC-like odor? Possible sheen detected?

Total # of Bottles: 4 Signature: J. Madeline Gregoire

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037-27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-108S
Sample Designation MW-108S-0593
Date, Time 5/11/93 1115
Weather cloudy, cool

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
4.67		5/11/93 1028	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3+	3+	Peristaltic Pump	N/A	5/11/93 1115

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
MW-108S	5/11/93 1115	Disp. Bailer	1L	GLASS		N	HNO3	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
"	"	"	"	Poly		Y	"	"	"

FIELD WATER QUALITY TESTS: Measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL removed Eh		Comments		
1	6.96	0.332	13.2	1.0		Olive br, clear, no odor		
2	6.90	0.333	12.4	2.0		light tan, clear, no odor		
3	6.85	0.361	12.1	3.0		"		"

NOTES:

Depth of Well: 9.40' — 4.67 = 4.73 ÷ 6 = 0.78 gal p.v.

Water is light tan, clear, no odor

Total # of Bottles: 2 Signature: J. Nicholas Bacon

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-108D
Sample Designation MW-108D-0593
Date, Time 5/11/93 1045
Weather Cloudy, Cool

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
7.58		5/11/93	Solinst
		1026	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
12 +	3 +	Peristaltic Pump	N/A	5/11/93
				1045

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
VOC		Disp. Bailer	2x40	GLASS VIAL		N	HCl	Y	Non-Phosphatic detergent wash
TPH-D		↓	1L	GLASS		↓	↓	↓	H2O rinse
BNA	5/11/93		↓	↓		↓			MeOH rinse
AS		P. Pump	↓	Poly		Y	HNO_3		Distilled H2O rinse
)	1045								

FIELD WATER QUALITY TESTS: measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Eh		Comments		
1	7.05	0.411	13.3	4.0		Clear, colorless, no odor		
2	7.25	0.393	11.7	8.0		"		"
3	7.38	0.438	11.8	12.0		"		"

NOTES:

Depth of Well: 30.50 − 7.58 = 22.92 ÷ 6 = 3.82 gal P.V.

Water is clear, colorless, no odor.

Total # of Bottles: 5

Signature: J. Matthew Hansen

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037.27
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-109S
Sample Designation MW-109S-0593
Date, Time 5/11/93 1145
Weather Cloudy, Cool

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
5.11		5/11/93	Solinst
		1128	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3+	3+	Peristaltic Pump	N/A	5/11/93 1145

Surface Water Flow Speed N/A, Measurement Method N/A, Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WDPH-6/OSEX		Disp. Bailer	2x40	GLASS VIAL		N	Lab pres.	Y	Non-Phosphatic detergent wash
WDPH-D			1L	GLASS					H2O rinse
BNA	5/11/93								MeOH rinse
PCP									Distilled H2O rinse
As	1145	B.Pump		Poly		Y	HNO3		

FIELD WATER QUALITY TESTS: Measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL Removed Elf		Comments		
1	7.26	0.129	10.4	1.0		CLEAR, Yellow-brown		NO ODOR
2	7.14	0.116	10.1	2.0		"		"
3	7.07	0.113	9.6	3.0		CLEAR, faintly yellow		no odor

NOTES:

Depth of Well: 10.70' − 5.11 = 5.59 ÷ 6 = 0.93 gal p.v.

Water is clear, faintly yellow, no odor

Total # of Bottles: 6 Signature: J. Nicholas Frame

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

* Field BLANK

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco Mill B #0141-037-27
CLIENT/CONTACT John Guenther

Well or Surface Site Number Field BLANK
Sample Designation FB-1-0593
Date, Time 5/11/93 1200
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
			Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		Peristaltic Pump	N/A	

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
									Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse

FIELD WATER QUALITY TESTS: measured using HACH pH and Conductivity meters

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	GAL removed Eff				
1								
2								
3								

NOTES:

Depth of Well: — = ÷ 6 = gal p.v.

Field BLANK: 2 VOC VIALS: Sampled through clean disposable bailer filled w/ D.I. water

Total # of Bottles: 2 Signature: J. Matthew Peters

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Neyco - EAST #0141-037-46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-100S
Sample Designation MW-100S-1093
Date, Time 10/27/93 2200
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 9.20		10/27/93 0840	SOLINST

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
2.0+	4+	Peristaltic Pump	N/A	10/27/93

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
8240		Disp Bailer	40×2	GLASS		N	HCL	Y	Non-Phosphatic detergent wash, H2O rinse MeOH rinse Distilled H2O rinse
~~VOC~~	10/27/93	Disp Bailer	~~40×2~~				~~HCL~~		
TPH-D		Peristpump	1 L				NONE		
BNA	0900								
~~METALS~~				Poly			HNO_3		
METALS (AS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Gal Removed Eh				
2+	6.40	1.531	14.9	1.0				
3+	6.41	1.593	15.4	1.5				
4+	6.47	1.528	14.7	2.0				

NOTES:

PV = 12.75' − 9.20 = 3.55 ÷ 6 = 0.60 PV.

Water is clear, light brown observed, no odor

Went back day after 2nd sample collected. Allowed time for recharge but water had to be pumped off well bottom and was brown and silty

Total # of Bottles: 6 Signature: J. Matthew Thorn

SEA-400-01

EMCON Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco - East #0141-037.46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-100D
Sample Designation MW-100D-1093
Date, Time 10/27/93 0915
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 11.68		10/27/93 0845	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
9 x	3 x	Peristaltic Pump	N/A	10/27/93

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~8240~~		~~Disp Bailer~~	~~40x2~~	~~Glass~~		N	HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
VOC	10/27/93	Disp Bailer	40x2				HCl		
WTPH-D		Peristpump	1 L				None		
BNA	0915								
CP									
~~Pesticides~~				Poly			HNO_3	Y	
Metals (AS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Gal Removed Eh				
1	6.96	1.067	13.3	3.0				
2	6.93	1.041	14.3	6.6				
3	6.89	1.096	14.0	9.0				

NOTES:

PV = 30.10 − 11.68 = 18.42 ÷ 6 = 3.07 pV.

Note: Concrete Base is broken + well monument has shifted ~ 10-15° to the EAST.

Water is clear colorless, no odor observed

Total # of Bottles: 6 Signature: J. Matthew Farmer

SEA-400-01

EMCON
Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco - East # 0141-037.46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-101S
Sample Designation MW-101S-1093
Date, Time 10/27/93 1330
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 8.50		1326	Solinst
		10/27/93	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.25+	2+	Peristaltic Pump	N/A	10/27/93 1336

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~8240~~		~~Disp Bailer~~	~~40 x 2~~	Glass		~~N~~	~~HCl~~	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~VOC~~	10/27/93	Disp Bailer	40 x 2				~~HCl~~		
TPH-D		Peist Pump	1 L				None		
BNA									
P-A	1335								
~~Metals~~				Poly			HNO_3		
Metals (AS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Gal Removed Eh				
2 ~~1~~	6.45	0.631	15.6	0.25				
~~2~~								
~~3~~								

NOTES:

PV = 9.16 − 8.50 = 0.66 ÷ 6 = 0.11 PV.

PV so low - decided to just do Field H_2O Quality Tests on 1st P.V.

Total # of Bottles: 3 Signature: J. Buchanan

SEA-400-01

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Neyco - East #0141-037.46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-102S
Sample Designation MW-102S-1093
Date, Time 10/27/93
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. N/A			Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		Peristaltic Pump	N/A	

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
8240		Disp Bailer	40 x 2	Glass		N	HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~VOC~~		Disp Bailer	40 x 2				HCl		
TPH-D		Peist Pump	1 L				None		
BNA									
PCB									
~~METALS~~				Poly			HNO_3		
METALS (AS)		↓	↓	Poly		Y	HNO_3	↓	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Eh
1				
2				
3				

NOTES:

PV = 8.90 — = ÷ 6 = pV.

DRY - NO SAMPLE

Total # of Bottles: ____ Signature: ____

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Neyco - East # 0441-037.4/6
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-103S
Sample Designation MW-103S-1093
Date, Time 10/27/93
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. DRY		0955	SOLinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		Peristaltic Pump	N/A	10/27/93

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
8240	10/27/93	Disp Bailer	40 x 2	GLASS		N	HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~TOC~~		Disp Bailer	40 x 2				HCL		
~~TPH-D~~		Peristaltic Pump	1 L				NONE		
BNA									
~~Metals~~				Poly			HNO_3		
Metals (As)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	~~Eh~~
1				
2				
3				

NOTES:

PV = 11.70 — = ÷ 6 = PV.

well is DRY - NO Sample

Total # of Bottles: ____ Signature: ____

EMCON Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

@ 1030
Duplicate MW-110

LOCATION/ADDRESS Everett, WA
PROJECT NAME Neyco - EAST # 0141-037.46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-103D
Sample Designation MW-103D-1093
Date, Time 10/27/93 1015
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 14.12		1000	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
7.5+	3+	Peristaltic Pump	N/A	10/27/93 1015

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~8240~~		~~Disp Bailer~~	~~40x2~~	~~GLASS~~		~~N~~	~~HCL~~	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
VOC		Disp Bailer	40x2				HCL		
TPH-D	10/27/93	Peist Pump	1 L				NONE		
BNA									
PCB	1015								
~~Metals~~				Poly			HNO_3		
Metals (AS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity ms/cm	Temp °C	Eh CAL. Removed				
1	6.44	1.098	13.1	2.5				
2	6.46	1.160	14.2	5.0				
3	6.48	1.126	14.6	7.5				

NOTES:

PV = 27.60 − 14.12 = 13.48 ÷ 6 = 2.25 PV.

Water is clear, colorless, No odor observed

Total # of Bottles: 5(5) = 10 Signature: [signature]

EMCON
Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Neyco - East. # 0141-037.46
CLIENT/CONTACT John Buenther

Well or Surface Site Number MW-104S
Sample Designation MW-104S-1093
Date, Time 10/27/93
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 12.43		1355	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		Peristaltic Pump	N/A	10/27/93

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
8240		Disp Bailer	40 x 2	Glass		N	HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
VOC	10/27/93	Disp Bailer	40 x 2				HCL		
TPH-D		Peristaltic Pump	1 L				None		
BNA									
[illegible]									
[illegible]				Poly			HNO_3		
5 Metals (ATS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity (ms/cm)	Temp (°C)	Eh				
1	6.38	1.372	16.8					
2								
3								

NOTES:

PV = 13.0' − 12.43 = 0.57 ÷ 6 = 0.10 PV.

Decided to measure Field Quality Data only on 1st P.V. because of such low pore volume well won't DRY before 1st P.V. - was able to obtain enough H_2O for pH, cond + temp

NO SAMPLE

Total # of Bottles: ____ Signature: ____

SEA-400-01

EMCON Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Neyco - East # 0141.037.46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-105S
Sample Designation MW-105S-1093
Date, Time 10/27/93 1115
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 9.25		10/27/93 1050	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.25	2+	Peristaltic Pump	N/A	10/27/93 1115

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
8240		Disp Bailer	40 x 2	GLASS		N	HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~VOC~~		~~Disp Bailer~~	~~40 x 2~~				~~HCL~~		
TPH-D	10/27/93	Peristaltic Pump	1 L				None		
BNA									
PCB	1115								
~~PCBAS~~				Poly			HNO_3		
1 Metals (ABS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Gal Removed Eh				
2+	6.63	1.348	16.6	0.25				
~~4+~~				~~0.50~~				
~~6+~~				~~0.75~~				

NOTES:

PV = 10.0' − 9.25 = 0.75 ÷ 6 = 0.13 PV.

* Very little H_2O in well - Decided to sample after 1 P.V.

Observed

Water is Dark brown to black, Silty, no odor

Total # of Bottles: 6 Signature: J. Nicholas Jones

SEA-400-01

EMCON Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Neyco - EAST # 0141.037.46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-105D
Sample Designation MW-105D-1093
Date, Time 10/27/93 1130
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 12.96		10/27/93	SOL inst
		1055	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
7.5+	3X	Peristaltic	N/A	10/27/93
		Pump		1130

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~8240~~		~~Disp Bailer~~	~~40 x 2~~	GLASS		N	~~HCL~~	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
VOC	10/27/93	Disp Bailer	40 x 2				HCL		
TPH-D		Peris Pump	1 L				NONE		
BNA	1130								
~~PCP~~									
~~Phenols~~				Poly			HNO_3		
METALS (DISS AS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Eh (Gas removed)				
1	6.93	0.947	15.1	2.50				
2	6.92	1.000	15.4	5.0				
3	6.91	1.103	15.1	7.5				

NOTES:

PV = 28' − 12.96 = 15.04 ÷ 6 = 2.50 PV.

→ Slip CAP was not on casing - well was open

observed

Clear, colorless, no odor in H_2O

Total # of Bottles: 5 Signature: J. Nielsen Brown

SEA-400-01

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS: Everett, WA
PROJECT NAME: Neyco - East # 0141-037-46
CLIENT/CONTACT: John Guenther

Well or Surface Site Number: MW-106S
Sample Designation: MW-106S-1093
Date, Time: 10/28/93 1030
Weather:

HYDROLOGY MEASUREMENTS:

(Nearest 0.01 ft)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 3.75		10/28/93 1015	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1.5+	6+	Peristaltic Pump	N/A	10/28/93 1030

Surface Water Flow Speed: Measurement Method: N/A Date, Time:

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
8240		Disp Bailer	40 x 2	GLASS		N	HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~VOC~~		~~Disp Bailer~~	~~40 x 2~~				~~HCL~~		
TPH-D	10/28/93	Peist Pump	1 L				NONE		
BNA									
~~Pest~~	1030								
~~METALS~~				Poly			HNO_3		
1. METALS (AS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Eh (Gas Removed)				
2 +	6.58	0.577	14.5	0.50				
4 +	6.59	0.586	14.9	1.0				
6 +	6.56	0.593	14.1	1.5				

NOTES:

PV = 5.40' − 3.75 = 1.65 ÷ 6 = 0.28 pV.

~~&~~ H_2O in Monument

Water is clear, colorless, no odor observed

Total # of Bottles: 5 Signature:

SEA-400-01

EMCON Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Neyco - East # 0141-037.46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-107S
Sample Designation MW-107S-1093
Date, Time 10/28/93 1000
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 4.57		10/28/93 0940	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3+	3+	Peristaltic Pump	N/A	10/28/93 1000

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
8240		Disp Bailer	40 x 2	GLASS		N	HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~VOC~~		~~Disp Bailer~~	~~40 x 2~~				~~HCL~~		
TPH-D	10/28/93	Peristpump	1 L				none		
~~BNA~~									
~~PCP~~	1000								
Metals				Poly			HNO_3		
Metals (As)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity (mS/cm)	Temp (°C)	Eh	Gal Removed			
1	6.58	0.424	13.5	1.0				
2	6.69	0.475	13.6	2.0				
3	6.73	0.492	13.7	3.0				

NOTES:

PV = 8.80' − 4.57 = 4.23 ÷ 6 = 0.71 PV.

Water is clear, colorless, no observed odor

Total # of Bottles: 4 Signature: J. Michael Guenther

SEA-400-01

EMCON
Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco - East # 0141-037.46
CLIENT/CONTACT John Buenther

Well or Surface Site Number MW-108S
Sample Designation MW-108S-1093
Date, Time 10/27/93 1430
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 5.14		10/27/93 1420	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3	3	Peristaltic Pump	N/A	10/27/93 1430

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~8240~~	10/27/93 1430	~~Disp Bailer~~	~~40+2~~	Glass		N	HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~VOC~~		Disp Bailer	~~40+2~~				HCL		
TPH-D		Peristaltic Pump	1 L				None		
BNA									
PCB									
~~Metals~~				Poly			HNO_3		
Metals (CAS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity ms/cm	Temp °C	Eh 6a1 removed				
1	6.79	0.400	13.8	1.0				
2	6.86	0.392	13.6	2.0				
3	6.83	0.412	13.7	3.0				

NOTES:

PV = 9.40' − 5.14 = 4.26 ÷ 6 = 0.71 pV.

Water is clear, colorless, no odor observed

Total # of Bottles: 2 Signature: J. Nicholas Hanson

SEA-400-01

EMCON Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyco - East # 0141-037.46
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-108D
Sample Designation MW-108D-1093
Date, Time 10/27/93 1445
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 9.16		10/27/93 1425	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
10.5+	3+	Peristaltic Pump	N/A	10/27/93 1445

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~8240~~		~~Disp Bailer~~	~~40×2~~	~~Glass~~		~~N~~	~~HCl~~	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
VOC	10/27/93	Disp Bailer	40×2				HCl		
TPH-D		Peist Pump	1 L				None		
BNA									
PCP	1445								
~~Metals~~				Poly			HNO_3		
Metals (AS)				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Eh (Ga/Removal)				
1	7.03	0.550	11.8	3.5				
2	7.02	0.552	11.3	7.0				
3	7.02	0.560	11.4	+0.5				

NOTES:

PV = 30.50 − 9.16 = 21.34 ÷ 6 = 3.56 PV.

observed

Water is clear, colorless, no odor

Total # of Bottles: 5 Signature: J. Nicholas Evans

SEA-400-01

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Nevco - West #.0141-037.46
CLIENT/CONTACT John Guenthner

Well or Surface Site Number MW-109S
Sample Designation MW-109S-1093
Date, Time 10/28/93 0915
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
D.T.W. 5.44		0900 10/28/93	Solinst

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3	3X	Peristaltic Pump	N/A	10/28/93 0915

Surface Water Flow Speed ____ Measurement Method N/A Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
8240	10/28/93	Disp Bailer	40 x 2	GLASS		N	HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~VOC~~		~~Disp Bailer~~	~~40 x 2~~				~~HCl~~		
TPH-D		Peristaltic Pump	1 L				NONE		
BNA	0915								
~~PCB~~									
~~METALS~~							HNO_3		
METALS (7+5)				Poly		Y	HNO_3		
				Poly					

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	ms/cm Conductivity	°C Temp	Gal Removed Eh				
1	6.54	0.122	14.5	1.0				
2	6.48	0.111	14.9	2.0				
3	6.66	0.109	15.1	3.0				

NOTES:

PV = 10.70' − 5.44 = 5.26 ÷ 6 = 0.88 PV.

observed

Water is clear, slightly yellow, no odor

Total # of Bottles: 6

Signature: [signature]

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-100S
Sample Designation MW-100S-0294
Date, Time 2-15-94 1025
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 (ft.))	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 7.89		2-15-94	Slope Indicator
7.90		2-14-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
18	X3	Peristaltic		2-15-94
		Pump		

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
	2-15-94								Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
	1025								

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	6.85	852	9.7	
2	6.80	1,108	10.2	
3	6.76	1,135	10.1	
4				
5				

NOTES:

Depth = 12.75
PV = .8
Reddish - w/ some flocking
Unchracteristic odor

Total # of Bottles: 2

Signature:

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-100D
Sample Designation MW-100D-0294
Date, Time 2-15-94
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 8.84		2-14-94	Slope Indicator
7.62		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3.175	X3	Peristaltic Pump		2-15-94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~B240~~	2-15-94		2x40	Glass			HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D			1000						
~~BTX~~									
~~PCP~~									
TSS MS				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	6.94	1.29	12.9	
2	6.95	1.31	13.2	
3	6.97	1.31	13.2	
4				
5				

NOTES:

Depth = 30.10
PV = 3.175
Clear - yellow tint
uncharacteristic odor

Total # of Bottles: 2

Signature: _____

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-101S
Sample Designation MW-101S
Date, Time 2-15-94 1115
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 7.27		2-14-94	Slope Indicator
7.27			

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		Peristaltic		2-15-94
		Pump		

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-D	2-15-94		1000	Glass				Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~BTEX~~	"		"	"				"	
Diss As	1115		"	Poly		Y	HNO3	"	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	6.50	.617	10.0	
2	6.47	.575	9.7	
3	6.51	.532	9.8	
4				
5				

NOTES:

Depth = 9.16
PV = .3 total 1gal
Clear - Yellow tint
Characteristic odor

Total # of Bottles: 2 Signature:

SEA-400-01

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-102S
Sample Designation MW-102S
Date, Time 2-15-94
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 8.07		2-14-94	Slope Indicator
8.05		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		Peristaltic Pump		2-15-94

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~Isotopes~~	2-15-94		2x40	Glass			HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~PCP~~			1000						
WTPH-D									
~~BNA~~									
Diss As				Poly		Y	HNO3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh				
1								
2								
3								
4								
5								

NOTES:

Depth = 8.90
PV =
not enough water in well.

Total # of Bottles: 6 Signature:

SEA-400-01

EMCON
Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-103S
Sample Designation MW-103S
Date, Time 2-15-94
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 11.33		2-14-94	Slope Indicator
~~11.02~~		~~2-15-94~~	
11.76		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		Peristaltic Pump		2-15-94

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~Isolator~~	2-15-94		2x40	glass			HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~PCP~~			1000						
~~BNA~~									
~~PCBs~~									
~~TSS As~~				Poly		Y	HNO_3		
~~TPH-D~~									

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1				
2				
3				
4				
5				

NOTES:

Depth = ~~11.02~~ 11.53

PV =

Water to low to collect a sample

Total # of Bottles: 9

Signature:

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-103D
Sample Designation MW-103D
Date, Time 2-15-94 1200
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 10.47		2-14-94	Slope Indicator
11.02		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
2.75	x3	Peristaltic Pump		2-15-94

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~BTEX~~	2-15-94		2x40	glass			HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D			1000						
~~BNA~~	1200								
Diss. As				Poly		Y	HNO3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp.	Eh
1	6.54	1.07	13.9	
2	6.55	1.11	14.0	
3	6.53	1.12	14.0	
4				
5				

NOTES:

Depth = 27.60
PV = 2.75
Clear - Yellow tint
uncharacteristic odor.

Total # of Bottles: 2

Signature: [signature]

SEA-400-01

EMCON
Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS: Everett
PROJECT NAME: Weyco East #0141-037.46
CLIENT/CONTACT: John Gunther

Well or Surface Site Number: MW-104S
Sample Designation: MW-104S-
Date, Time: 2-15-94
Weather:

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 11.53		2-14-94	Slope Indicator
11.47		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
.25	X3	Peristaltic Pump		2-15-94

Surface Water Flow Speed: _____ Measurement Method: _____ Date, Time: _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-D	2-15-94		1000	Glass			HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
~~BTEX~~									
~~PCB~~									
Diss As				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh				
1	6.59	1.20	14.1					
2	6.66	1.29	14.6					
3	6.70	1.32	15.1					
4								
5								

NOTES:

Depth = 13.0
PV = .25
Clear - yellow tint
Uncharacteristic odor

Total # of Bottles: 2

Signature: _____

SEA-400-01

EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-105S
Sample Designation MW-105S
Date, Time 2-15-94 1310
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 8.25		2-14-94	Slope Indicator
8.22		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
.3	x3	Peristaltic Pump		2-15-94

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
~~8015/8020~~	2-15-94		2x40	glass			HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D			1000						
~~BTEX~~	1310								
~~PCB~~									
Diss As				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	6.91	.938	12.6	
2	6.92	.842	12.4	
3	6.92	.790	12.5	
4				
5				

NOTES:

Depth = 10.0
PV = .3
Blackish Brown,
Uncharacteristic odor

Total # of Bottles: 2

Signature: [signature]

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-105D *
Sample Designation MW-105D
Date, Time 2-15-94 13:45
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 9.39		2-14-94	Slope Indicator
11.83		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
2.75	X3	Peristaltic Pump		2-15-94

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~8240~~	2-15-94		2x40	Glass			HCL	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D			1000						
~~BNA~~									
Diss As.				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	7.00	1883	14.12	
2	7.00	.908	14.6	
3	7.03	.901	14.5	
4				
5				

NOTES:

Depth = 28
PV = 2.75
Duplicate: MW-115-021594
Time 1355
Anthropogenic odor

Total # of Bottles: 2 + 2 w/dupe Signature:

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-106S
Sample Designation MW-106S-0294
Date; Time 2-15-94 1440
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 3.73		2-14-94	Slope Indicator
3.20		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
		Peristaltic Pump		2-15-94

Surface Water Flow Speed: Measurement Method Date, Time

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~GRO/BTEX~~	2-15-94		2x40	glass			HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D	1440		1000						
~~Bact~~									
Diss As				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	7.00	0.225	9.4	
2	7.25	0.222	8.2	
3	7.11	0.219	8.1	
4				
5				

NOTES:

Depth = 5.4 − 3.20 = 2.2 ÷ 6 = 0.36

PV =

~~Water~~ no noticable odor

Total # of Bottles: 2 Signature:

Emcon Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-107S
Sample Designation MW-107S
Date, Time 2-15-94 1420
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 4.00		2-14-94	Slope Indicator
3.99		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
.8	x3	Peristaltic		2-15-94
		Pump		

Surface Water Flow Speed: _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
~~GASOL~~	2-15-94 1420		2x40	glass			HCL	Y	Non-Phosphate detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D			1000						
Diss As			1	Poly		Y	HNO3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	7.10	439	7.1	
2	6.97	442	7.0	
3	7.11	433	6.9	
4				
5				

NOTES:

Depth = 8.80
PV = .8
Hydrocarbon-like odor sheen
Grey.

Total # of Bottles: 2

Signature:

SEA-100-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-032.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-108S
Sample Designation MW-108S
Date, Time 2-15-94
Weather 1520

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 4.79		2-14-94	Slope Indicator
4.89		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1.75	x3	Peristaltic Pump		2-15-94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTPH-D	2-15-94		1000	glass				Y	Non-Phosphate detergent wash H2O rinse MeOH rinse Distilled H2O rinse
Diss As			1	Poly		Y	HNO3	Y	
	1520								

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	7.13	1440	7.2	
2	7.04	1462	7.4	
3	7.14	~~1464~~ 1468	7.2	
4				
5				

NOTES:

Depth = 9.40
PV = .75
Clear Silty greyish color
no noticable odor

Total # of Bottles: 2

Signature: _____

SEA-400-01

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-108D
Sample Designation MW-108D
Date, Time 2-15-94
Weather 1525

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 7.10		2-15-94	Slope Indicator
8.93		2-14-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3.5	X3	Peristaltic Pump		2- -94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~BTEX~~	2- -94		2x40	glass			HCl	X	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
TPH-D			1000						
~~BHA~~	1525								
Diss As				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	7.21	576	11.1	
2	7.26	604	10.6	
3	7.03	600	11.1	
4				
5				

NOTES:

Depth = 30.50
PV = 3.5
clear - tan tint
no noticeable odor

Total # of Bottles: 7

Signature: _____

SEA-400-01

EMCON Northwest, Inc.

18912 North Creek Parkway, Suite 100 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett
PROJECT NAME Weyco East #0141-037.46
CLIENT/CONTACT John Gunther

Well or Surface Site Number MW-109S
Sample Designation MW-109S-
Date, Time 2-15-94 1550
Weather

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
Dtw = 5.61		2-14-94	Slope Indicator
5.65		2-15-94	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
.9	3	Peristaltic Pump		2-15-94

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
~~Chloro~~	2-15-94		2x40	glass			HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-D			1000						
~~BNA~~									
Diss As	1552								
TCP				Poly		Y	HNO_3		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh
1	6.83	.416	8.8	
2	6.80	.389	8.9	
3	6.68	.397	9.0	
4				
5				

NOTES:

Depth = 10.70
PV = .9
Brown Black
No noticable color

Total # of Bottles: 2

Signature:

SEA-400-01

EMCON Northwest, Inc.

Project Name	Weyerhaeuser East
Project Number	0141-037.55
Date	2-14-94
Field Person	Russell Thompson

WATER ELEVATION DATA
(in feet)

Well ID	Depth to Water	Depth to Product	Apparent Product Thickness	Measureing Point	Groundwater Elevation	Comments
MW-100S	7.90			Top of casing		
MW-100D	8.84					
MW-101S	7.77					
MW-102S	8.07					
MW-103S	10.33					
MW-103D	10.47					
MW-104S	11.53					
MW-105S	8.25					
MW-105D	9.39					
MW-106S	3.23					
MW-107S	4.00					
MW-108S	4.79					
MW-108D	7.10					
MW-109S	5.61			↓		

Sweet-Edwards/EMCON, Inc.
10912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-1005
Sample Designation MW-1005-0944
Date, Time 9/20/94 1030
Weather foggy 60°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
9.12		9/20/94	
		1010	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.25	X 3+	peri Pump		9/20/94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphate detergent was: H2O rinse MeOH rinse Distilled H2O rinse
Diss As	9/20/94	Peri Pump	1000	Poly		yes	HNO3		
Total As	1030	Bailer	1000	↓		No	↓		
TSS		↓	500			↓	None		
PCP			1000	glass Amber			↓		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons				
1	5.71	1220	20	0.25				
2	5.24	1,170	19	0.50				
3	5.35	1,120	20	0.75				

NOTES:

well Depth: 10 - 9.12 = 0.88 ÷ 6 = 0.15 gallons/Pore Volume
clear & reddish liquid some silt

5

Signature

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-100D
Sample Designation MW-100D-0944
Date, Time 9/20/94 1045
Weather Foggy 60°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
11.69		9/20/94	
		1044	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
2.5	X 3+	peri Pump		9/20/94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphate detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse
Diss. As	9/20/94	Peri Pump	1000	Poly		yes	HNO3		
Total As	1045	Bailer	1000	↓		No	↓		
TSS		↓	500			↓	None		
PCP			1000	glass Amber			↓		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons			
1	5.69	950	16	2.5			
2	5.74	880	16	5.0			
3	5.85	870	16	7.5			

NOTES:

well Depth: 25 - 11.69 = 13.31 ÷ 6 = 2.22 gallons/Pore Volume

Clear slightly yellowish liquid

4

( ) Amount

Sweet-Edwards/EMCON, Inc.

18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-101s
Sample Designation MW-101s-0994
Date, Time 9/20/94 1125
Weather Sunny 70°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
8.65		9/20/94 1105	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.05 x	3+	peri Pump		9/20/94

Surface Water Flow Speed ______ Measurement Method ______ Date, Time ______

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
WTPH-D		Bailer	1000	glass		No	none	yes
Diss As	9/20/94	Peri Pump	1000	Poly		yes	HNO3	↓
Total As	1125	Bailer	1000	↓		No	↓	
TSS		↓	500			↓	None	
PCP			1000	glass Amber			↓	↓

Sampler Cleaning Method: Non-Phosphatic detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity (µS/cm)	Temp (°C)	Eh (gallons)
1	5.95	540	22	0.05
2	5.77	420	22	0.10
3	5.85	420	22	0.15

NOTES:

well Depth: ~~7.5~~ 8.9 - 8.65 = 0.35 ÷ 6 = 0.042 gallons/Pore Volume

~~[illegible]~~

Clear yellowish liquid

5

[signature]

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-102S
Sample Designation MW-102S-0944
Date, Time 9/20/94
Weather Sunny 70°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
		9/20/94 1145	
		Dry	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
	x 3+	Peri Pump		9/ /94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphate detergent wash H2O rinse MeOH rinse Distilled H2O rinse
Diss As	9/ /94	Peri Pump	1000	Poly		yes	HNO3		
Total As		Bailer	1000	↓		No	↓		
TSS		↓	500			↓	None		
PCP			1000	glass/Amber			↓	↓	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons				
1								
2								
3								

NOTES:

well Depth: 7.5 - = ÷6= gallons/Pore Volume

Dry well

5

DR Slater

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-103s
Sample Designation MW-103s-0994
Date, Time 9/20/94
Weather Sunny 70°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
		9/20/94 1000	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
X	3+	Peri Pump		9/ /94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTPH-D	9/ /94	Bailer	1000	glass		No	None	yes	Non-Phosphate detergent was H2O rinse MeOH rinse Distilled H2O rinse
Diss As		Peri Pump	1000	Poly		yes	HNO3		
Total As		Bailer	1000	↓		No	↓		
TSS		↓	500			↓	None	↓	
PCP			1000	glass Amber			↓		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons				
1								
2								
3								

NOTES:

well Depth: 9.5 - = ÷ 6 = gallons/Pore Volume

Dry Well

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-103D
Sample Designation MW-103D-0994
Date, Time 9/20/94 1230
Weather Sunny 70°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
15.48		9/20/94	
		1201	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
1.50	X 3+	peri Pump		9/20/94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTPH-D		Bailer	1000	glass		no	None	yes	Non-Phosphati detergent wash
Diss. As	9/20/94	Peri Pump	500	poly		yes	HNO3		H2O rinse
Total As	1230	Bailer	1000			No	↓		MeOH rinse
TSS		↓	500			↓	None	↓	Distilled H2O rinse
TOC			100	glass/amber					

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons
1	6.18	970	17	1:50
2	6.11	930	17	3:00
3	6.16	980	17	4:50

NOTES:

well Depth: 25 - 15.48 = 9.2 ÷ 6 = 1.53 gallons/Pore Volume
clear slightly yellowish liquid
No silty appearance

4

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

Well or Surface Site Number: MW-104S.
Sample Designation: MW-104S-0994
Date, Time: 9/20/94
Weather: Sunny 70°

LOCATION/ADDRESS: Everett, WA
PROJECT NAME: Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT: John Guenther

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
12.51		9/20/94	
		1300	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.05 x	3+	peri pump		9/20/94

Surface Water Flow Speed ______ Measurement Method ______ Date, Time ______

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPH-D		Bailer	1000	glass		No	None	yes	Non-Phosphate detergent wash
Diss As	9/20/94	Peri Pump	1000	Poly		yes	HNO3		H2O rinse
Total As		Bailer	1000			No			MeOH rinse
TSS			500				None		Distilled H2O rinse
PCP			1000	glass Amber					

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity (µS/cm)	Temp (°C)	Eh (gallons)
1				0.05
2				0.10
3				0.15

NOTES:

well Depth: ~~1.5~~ 12.72 − 12.51 = 0.21 ÷ 6 = 0.04 gallons/Pore Volume

– Pulled ~100ml water from well no recharge

dry well

5

J R [signature]

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-105S
Sample Designation MW-105S-0944
Date, Time 9/2/94 1045
Weather Sunny 70

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
9.37		9/2/94 0951	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.06	x 3+	Peri Pump		9/2/94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled rinse
Diss As	9/2/94	Peri Pump	1000	Poly		yes	HNO3		
Total As	1045	Bailer	1000			No			
TSS			500				None		
PCP			1000	glass Amber					

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons			
1	~~6.09~~ 6.18	~~820~~ 1870	20	0.06			
2	6.19	1260	20	0.12			
3	6.15	1210	20	0.18			

NOTES:

Well Depth: ~~75~~ 9.37 - 9.37 = 0.36 ÷ 6 = 0.06 gallons/Pore Volume
Clear yellowish liquid w/ some sediment in Bottom of Sample cup.
Had to pump from bottom of well.
Slow recharge

9/2/94

Sweet-Edwards/EMCON, Inc.
10912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

Duplicate

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-105D
Sample Designation MW-105D-0944
Date, Time 9/21/94 0915
Weather Sunny 70°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
13.47		9/21/94	
		0950	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
2.5 X	3+	peri Pump		9/21/94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphatic detergent wash
Diss As	9/21/94	Peri Pump	1000	Poly		yes	HNO3	↓	H2O rinse
Total As	1005	Bailer	1000	↓		No	↓		MeOH rinse
TSS		↓	500			↓	None		Distilled H2O rinse
PCP			1000	glass Amber			↓	↓	Insc.

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons				
1	6.40	510	19	2.5				
2	6.35	~~700~~ 700	~~18~~ 18	5.0				
3	6.12	360	18	7.5				

NOTES:

well Depth: 25 - 10.47 = 14.53 ÷ 6 = 2.42 gallons/PoreVolume

clear yellowish liquid

Duplicate: MW-110-0944 low turbidity

false time: 1000

ok 4+4=8 ok sh

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East #0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-106S
Sample Designation MW-106S-0944
Date, Time 9/21/94 1130
Weather Sunny 72°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
3.89		9/21/94	
		1110	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.5	X 3+	peri. Pump		9/21/94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphate detergent wash, H2O rinse, MeOH rinse, Distilled rinse
Diss As	9/21/94	Peri Pump	1000	Poly		yes	HNO3		
Total As	1130	Bailer	1000			No			
TSS			500				None		
TOC			1000	glass-Amber					

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity (µS/cm)	Temp (°C)	Eh (gallons)
1	6.20	7000	21	0.5
2	6.29	5700	21	1.0
3	6.30	6100	21	1.5

NOTES:

Well Depth: ~~5~~ 5.90 - 3.89 = 2.01 ÷ 6 = 0.34 gallons/Pore Volume

clear colorless liquid

#4

QA Sample

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-107S
Sample Designation MW-107S 0994
Date, Time 9/21/94 1200
Weather Sunny 75°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
5.88		9/21/94 11:45	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.5	3+	Peri Pump		9/21/94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled rinse
Diss As	9/21/94	Peri Pump	1000	Poly		yes	HNO3		
Total As	1200	Bailer	1000			No			
TSS			500				None		
TOC			1000	glass Amber					

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons				
1	6.24	470	19	0.05				
2	6.37	640	19	0.10				
3	6.42	590	19	0.15				

NOTES:

well Depth: 6 - 5.88 = 0.12 ÷ 6 = 0.02 gallons/Pore Volume
oil-like sheen on surface of sample
Brownish turbid liquid

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-108S
Sample Designation MW-108S-0944
Date, Time 9/21/94 1245
Weather Sunny 75

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
6.69		9/21/94	
		1216	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
0.5	3+	peri Pump		9/21/94

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
VTH-D		Bailer	1000	glass		NO	None	yes	Non-Phosphatic detergent wash, H2O rinse, MeOH rinse, Distilled H2O rinse
Diss As	9/21/94	Peri Pump	1000	Poly		yes	HNO3		
Total As	1245	Bailer	1000	↓		No	↓		
TSS		↓	500			↓	None		
PCP			1000	glass Amber			↓	↓	

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity (µS/cm)	Temp (°C)	Eh (gallons)
1	6.26	530	20	0.5
2	6.27	550	20	1.0
3	6.28	530	20	1.5

NOTES:

well Depth: 9 - 6.69 = 2.31 ÷ 6 = 0.36 gallons/Pore Volume

clear colorless liquid

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.18
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-108D
Sample Designation MW-108D-092494
Date, Time 9/24/94 1305
Weather Sunny 75°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
9.13		9/24/94 1217	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
3	3+	Peri Pump		9/24/94

Surface Water Flow Speed ____ Measurement Method ____ Date, Time ____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphatic detergent wash H2O rinse MeOH rins. Distilled H2O rinse
Diss As	9/24/94 1305	Peri Pump	1000	Poly		yes	HNO3		
Total As		Bailer	1000	↓		No	↓		
TSS		↓	500			↓	None		
TCP			1000	glass Amber			↓		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity µS/cm	Temp °C	Eh gallons
1	6.47	470	15	3
2	6.47	530	15	6
3	6.67	560	15	9

NOTES:

Well Depth: 28 - 9.13 = 18.87 ÷ 6 = 3.16 gallons/Pore Volume
clear colorless liquid

X. U

Sweet-Edwards/EMCON, Inc.
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011
Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS Everett, WA
PROJECT NAME Weyerhaeuser - East # 0141-037.68
CLIENT/CONTACT John Guenther

Well or Surface Site Number MW-109S
Sample Designation MW-109S-0994
Date, Time 9/21/94 1355
Weather Sunny 75°

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
		9/21/94	
		1331	

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
7.21	3+	Peri Pump		9/21/94

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTH-D		Bailer	1000	glass		No	None	yes	Non-Phosphatic detergent wash
Diss As	9/21/94	Peri Pump	1000	Poly		yes	HNO3		H2O rinse
Total As		Bailer	1000	↓		No	↓		MeOH rinse
TSS		↓	500			↓	None		Distilled H2O rinse
Pb			1000	glass Amber			↓		

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity (µS/cm)	Temp (°C)	Eh (gallons)			
1	6.32	340	17	0.5			
2	6.25	390	17	1.0			
3	6.26	410	17	1.5			

NOTES:

well Depth: 10.5 - 7.21 = 3.29 ÷ 6 = 0.55 gallons/Pore Volume

clear colorless liquid

V-1

ATTACHMENT B

WEYERHAEUSER EVERETT EAST SITE SOUTH END FOLLOWUP SUMMARY REPORT

SOUTH END FOLLOW UP

SUMMARY REPORT

WEYERHAEUSER EVERETT EAST SITE

Prepared for

Weyerhaeuser Company
101 East Main Marine View Drive
Everett, Washington

March 17, 1995

Prepared by

EMCON
18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016

Project 0141-037.64

CONTENTS

TABLES AND ILLUSTRATIONS

Tables

1 INTRODUCTION

EMCON has prepared this report summarizing findings pertaining to excavation oversight, soil sampling, and laboratory analyses associated with the Weyerhaeuser Everett East Site South End. Field activities pertaining to this scope of work were performed during June and July 1993.

Tasks completed as part of this scope of work consisted of the following:

- Overseeing soil removal from two locations, designated EX-1 and EX-2, field screening for the presence of total petroleum hydrocarbons (TPH), and collect soil samples from the limits of excavations EX-1 and EX-2 for laboratory analyses.
- Collecting six soil samples from approximately 460 cubic yards of stockpiled soil for laboratory analyses.
- Collecting groundwater samples from excavation EX-1 for laboratory analyses.
- Pumping, treating, and discharging approximately 7,000 gallons of groundwater from excavation EX-1.

1.1 Background

The South End is located in the southern portion of Area 3 on the Weyerhaeuser Everett East Site. Soil TPH concentrations exceeding 200 mg/kg were identified at two locations during prior assessment activities EMCON performed at the East Site. These two locations were designated EX-1 and EX-2 and are shown on Drawing 1 attached to the *Phase I Assessment for Areas 3 through 10, Weyerhaeuser Everett East Site* (EMCON, 1994).

The purpose of this scope of work was to identify, delineate, and excavate TPH impacted soil from locations EX-1 and EX-2. EMCON's approach was developed based on state of Washington Department of Ecology (Ecology) Model Toxics Control Act (MTCA) regulations and guidance pertaining to TPH contaminated soil. Stockpiled soil sample laboratory parameters were selected for the purpose of soil disposal.

2 SOIL SAMPLING AND ANALYSIS

2.1 Excavation EX-1

Excavation EX-1 was located approximately 50 feet west of the Weyerhaeuser railroad spur immediately north of the former above ground diesel fuel storage tank foundation (Figure 1). The excavation dimensions were approximately 75 feet long, 40 feet wide, and 4 feet deep. Groundwater was encountered within the excavation at approximately 4 feet below the ground surface.

One vertical composite soil sample from each of the four excavation sidewalls was collected from approximately 12 inches below the ground surface to immediately above where groundwater was encountered.

Soil samples were submitted to Columbia Analytical Services, Inc. (CAS), located in Bothell, Washington. Samples were screened for TPH by Ecology Method WTPH-HCID. WTPH-HCID results exceeding the parameter specific detection limits were rerun by using the appropriate WTPH analyses (i.e., gasoline by WTPH-G, diesel by WTPH-D, or oil by WTPH-O). Summaries of laboratory soil data for soil samples collected from excavation EX-1 are presented on Table 1. Laboratory reports are included in Appendix B of the *Phase I Assessment for Areas 3 through 10, Weyerhaeuser Everett East Site*.

2.2 Excavation EX-2

Excavation EX-2 was located approximately 25 feet east of the Weyerhaeuser spur, directly east of excavation EX-1. The excavation dimensions were approximately 15 feet long, 10 feet wide, and 4 feet deep. No groundwater was encountered within excavation EX-2 at 4 feet below the ground surface, the maximum depth explored.

One vertical composite soil sample from each of the four excavation sidewalls was collected from approximately 12 inches below the ground surface to the bottom of the excavation. In addition, one soil sample was collected from the bottom of the excavation.

Soil samples were submitted to CAS and screened for TPH by Ecology Method WTPH-HCID. WTPH-HCID results exceeding the parameter specific detection limits were rerun

by using the appropriate WTPH analyses (i.e., gasoline by WTPH-G, diesel and oil by WTPH-D extended). Summaries of laboratory soil data for soil samples collected from excavation EX-2 are presented on Table 2. Laboratory reports are included in Appendix B of the *Phase I Assessment for Areas 3 through 10, Weyerhaeuser Everett East Site*.

2.3 Stockpiled Soil

Approximately 460 cubic yards of soil removed from excavations EX-1 and EX-2 were stockpiled beneath the nearby utility shed. Six composite soil samples, designated SS-1 through SS-6, were collected from the stockpiled soil.

Stockpile soil samples were submitted to CAS and analyzed for TPH-D, extended. Summaries of laboratory soil data for the stockpiled soil samples are presented on Table 3. Laboratory reports are attached in Appendix B of the *Phase I Assessment for Areas 3 through 10, Weyerhaeuser Everett East Site*.

Based on the TPH-D analyses, Weyerhaeuser evaluated alternatives and decided to postpone disposal of the stockpile until other remediation events were complete.

To evaluate soil disposal options, Weyerhaeuser staff collected a composite sample (SDS-RL-1) on August 31, 1994. The sample was analyzed for polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and total RCRA metals (i.e., arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). Weyerhaeuser compared the laboratory results to WAC 173-303-100, Dangerous Waste Criteria, and designated the soil stockpile as solid waste.

A waste acceptance application was prepared, and Weyerhaeuser Regional Landfill accepted the stockpiled soils for disposal. On November 16 and 17, 1994, during remediation of the Everett West site, the contractor loaded the 598 tons of stockpiled soil into trucks owned by City Transfer, Inc. (CTI). CTI transported these soils to Weyerhaeuser's Materials Recovery Facility, which in turn transported the soils to the landfill by rail.

The laboratory reports for the purpose of waste designation analysis, including the waste acceptance application, landfill acceptance memo, and Cowlitz County Health District notification letter, are included in Appendix A.

3 GROUNDWATER SAMPLING AND ANALYSES

3.1 Groundwater in Excavation EX-1

Groundwater within excavation EX-1 was encountered at approximately 4 feet below the ground surface. On July 1, 1993, one groundwater sample, designated EX-1, was collected from excavation EX-1. Groundwater sample EX-1 was submitted to CAS and analyzed for TPH-D, extended. TPH-D was detected at 26.3 mg/L. Based on groundwater sample EX-1 laboratory results, EMCON proposed groundwater treatment at this location.

On July 23, 1993, approximately 7,000 gallons of groundwater were removed from excavation EX-1. The groundwater was treated and discharged to Weyerhaeuser's Smith Island treatment facility. Subsequent to the groundwater treatment, another groundwater sample, designated EX-1(2), was collected from excavation EX-1. Groundwater sample EX-1(2) was submitted to CAS and analyzed for TPH-D, extended. TPH-D was not detected in sample EX-1(2). A summary of excavation EX-1 groundwater data is presented on Table 4. Laboratory reports are included in Appendix B of Attachment A.

4 SUMMARY

Based on field observations and a review of soil and groundwater sample laboratory results, the following conclusions were reached:

- No TPH compounds were detected above the laboratory reporting limits in soil samples EX-1S and EX-1W, collected from the south and west sidewalls of excavation EX-1, respectively. TPH-D was detected at 115 mg/kg in sample EX-1N and at 53 mg/kg in sample EX-1E2, collected from the north and east sidewalls of excavation EX-1, respectively. TPH-O was detected at 220 mg/kg in sample EX-1E2, collected from the east sidewall of excavation EX-1. Soil removal from the east sidewall of excavation EX-1 was discontinued due to the proximity of the railroad spur.

- No TPH compounds were detected above the laboratory reporting limits in soil samples EX-2S, EX-2E, and EX-2W, collected from the south, east, and west sidewalls of excavation EX-2, respectively. TPH-D was detected at 43 mg/kg in sample EX-2N and at 198 mg/kg in sample EX-2B, collected from the north sidewall and bottom of excavation EX-2, respectively. TPH-O was detected at 180 mg/kg in sample EX-2N and at 360 mg/kg in sample EX-2B, collected from the north sidewall and bottom of excavation EX-2, respectively.

- Six composite soil samples were collected from the approximately 460 cubic yards of stockpiled soil removed from excavations EX-1 and EX-2. TPH-D results ranged from 143 to 5,020 mg/kg, and TPH-O results ranged from 160 to 2,660 mg/kg.

- On July 1, 1993, one groundwater sample, designated EX-1, was collected from excavation EX-1. TPH-D was detected at 26.3 mg/L and TPH-O was detected at 5.7 mg/L in groundwater sample EX-1. On July 23, 1993, approximately 7,000 gallons of groundwater were removed from excavation EX-1, treated, and discharged on site. Subsequent to treatment, another groundwater sample, designated EX-1(2), was collected from the excavation. TPH-D and TPH-O were not detected in groundwater sample EX-1(2).

TABLES

Table 1

Summary of Soil Data for Excavation EX-1

Sample Identification	Date Collected	TPH-HCID (gas range) (mg/kg)	TPH-HCID (diesel range) (mg/kg)	TPH-HCID (oil range) (mg/kg)
EX-1N	06/29/93	20U	>50	100U
EX-1S	06/29/93	20U	50U	100U
EX-1E	06/29/93	20U	>50	>100
EX-1W	06/29/93	20U	50U	100U
Sample Identification	**Date Collected**	**WTPH-G (mg/kg)**	**WTPH-D (mg/kg)**	**WTPH-O (mg/kg)**
EX-1N	06/29/93	NA	115	100U
EX-1E	06/29/93	NA	603	400
EX-1E2	07/06/93	NA	53	220

NOTES:
TPH-G = total petroleum hydrocarbons as gasoline.
TPH-D = total petroleum hydrocarbons as diesel.
TPH-O = total petroleum hydrocarbons as oil.
U = not detected at method reporting limit shown.
> = greater than method reporting limit shown.

Table 2

Summary of Soil Data for Excavation EX-2

Sample Identification	Date Collected	TPH-HCID (gas range) (mg/kg)	TPH-HCID (diesel range) (mg/kg)	TPH-HCID (oil range) (mg/kg)
EX-2N	06/29/93	20U	50U	>100
EX-2S	06/29/93	20U	50U	100U
EX-2E	06/29/93	20U	50U	100U
EX-2W	06/29/93	20U	50U	100U
EX-2B	06/29/93	20U	>50	>100
Sample Identification	**Date Collected**	**WTPH-G (mg/kg)**	**WTPH-D (mg/kg)**	**WTPH-O (mg/kg)**
EX-2N	06/29/93	NA	43	180
EX-2B	06/29/93	NA	198	360

NOTES: TPH-G = total petroleum hydrocarbons as gasoline.
TPH-D = total petroleum hydrocarbons as diesel.
TPH-O = total petroleum hydrocarbons as oil.
U = not detected at method reporting limit shown.
> = greater than method reporting limit shown.

Table 3

Summary of Stockpile Soil Data for Excavation EX-1 and EX-2

Sample Identification	Date Collected	WTPH-D (mg/kg)	WTPH-O (mg/kg)
SS-1	07/23/93	5,020	1,310
SS-2	07/23/93	1,290	580
SS-3	07/23/93	730	2,660
SS-4	07/23/93	143	670
SS-5	07/23/93	176	160
SS-6	07/23/93	1,910	230

NOTES: TPH-G = total petroleum hydrocarbons as gasoline.
TPH-D = total petroleum hydrocarbons as diesel.
TPH-O = total petroleum hydrocarbons as oil.
U = not detected at method reporting limit shown.

Table 4

Summary of Groundwater Data for Excavation EX-1

Sample Identification	Date Collected	WTPH-D (mg/l)	WTPH-O (mg/l)
EX-1	07/01/93	26.3	5.7
EX-1(2)	07/23/93	0.25U	0.75U

NOTES: TPH-G = total petroleum hydrocarbons as gasoline.
TPH-D = total petroleum hydrocarbons as diesel.
TPH-O = total petroleum hydrocarbons as oil.
U = not detected at method reporting limit shown..

APPENDIX A

LABORATORY DATA AND SOIL STOCKPILE DISPOSAL INFORMATION

See cover letter and back page. Ky Fall 9-8-94

WEYERHAEUSER REGIONAL LANDFILL

PETROLEUM CONTAMINATED SOILS WASTE ACCEPTANCE APPLICATION

(Complete an application for each waste)

Weyerhaeuser Landfill
3434 South Silverlake Road
Castle Rock, Washington 98611

Agreement # 9407

Acceptance # 9407-5

General information for waste disposal

1. Customer name and address: Weyerhaeuser Company
101 East Marine View Dr
Everett WA 98201
Contact: Stuart Triola
Phone: 206-339-2871 Fax #: 206-339-2786

2. Nominal quantity (ton or cubic yards/day): 300 cy

3. Activity which generated waste: Excavation of diesel contaminated soils

4. Wastes current location: Under South end Mill E shed

5. Wastes original location: Near South entrance to Mill E, in ground

6. Please give a detail description of activities which occurred on or near soils original location which may have impacted the soils. Lumber storage sheds with a diesel storage location station adjacent to the excavation. Excavation uncovered areas of historical fill material. The fill material appeared to be boiler ash and potentially creosote.

7. Customer shall indicate completion of the following by initial (if Weyerhaeuser has marked an "X" in a blank, that item is not required):

SPT a. Waste samples were collected in accordance with WAC 173-303-110(2).
SPT b. Lab analytical procedures complied with WAC 173-303-110(3).
X c. Waste has been analyzed and is non-corrosive per WAC 173-303-090(6)(a)(iii)[pH].
SPT d. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [~~TCLP~~ Total analysis for metals]. See back page
X e. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [TCLP analysis for F-list organics].
X f. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [TCLP analysis for acids/base neutrals].
X g. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [TCLP analysis for pesticides and herbicides].
X h. Waste has been analyzed and is non-toxic per WAC 173-303-101(5) [Fish bioassay only].
SPT i. Waste has been analyzed and is non-persistent per WAC 173-303-102 [PAH only].

WEYERHAEUSER REGIONAL LANDFILL

SPT j. Waste has been analyzed and contains less than 2 ppm PCB's per EPA Method 8080.
X k. Waste has been analyzed for WTPH-HCID.
FJSP l. Waste has been analyzed for heavy fuel per WTPH-418.1 modified.
FJSP m. Waste has been analyzed for diesel per WTPH-D.
X n. Waste has been analyzed for gasoline per WTPH-G.
X o. Waste has been analyzed for BTEX per EPA Methods 8020 or 8240.
FJSP p. Chain of custody and lab analytical data for required waste analyses is attached.
X l. Other _____

8. Customer certified that:

a. The waste sampled and intended for disposal under this certification is neither dangerous nor extremely hazardous waste as determined by Ch. 173-303-WAC.

b. The waste has no free liquids per WAC 173-303-110(3)(c)(i).

c. Customer further certifies that to the best of its knowledge, there have been no alterations to the waste that would affect the accuracy of the analyses performed above; that there have been no material changes in the character of the waste after the analyses were performed which would render those analyses inaccurate; and that the samples analyzed as representative of the waste to be tendered to Weyerhaeuser Regional Landfill.

Stuart Triola — 9/20/94

Signature of Authorized Agent — Date

STUART Triola Enviro Eng.

Printed Name and Title of Authorized Agent

Weyerhaeuser Everett

Customer

- Collect a representative composite from the pile(s). Submit the composite(s) for PAH (EPA methods 3540/8310), PCB (EPA Method 8080) and total metals analysis for the 8 D.W. Characteristic metals.

9/20/94

Larry Fulcher

Attached is the last of the sample data requested for soil sample SDS-RL-1 collected in Reabanco lease area at the Everett Mill. (East End Soils)

1.- Data shows low level PAH's but none that would designate under state waste rules.

2. Data show No PCB's.

I gave you the total RCRA metal data last week.

Please evaluate new data, and indicate your acceptance of this soil in writing.
Thanks - Stuart Thiele

WAC 173-303-100 Dangerous Waste Criteria Analysis
for Sample SDS-RL-1

		Concentations		
PAH Compounds	Carcinogens	PPB	PPM	%
Phenanthrene	NA	2,600	2.60	0.0003
Flouranthene	NA	3,600	3.60	0.0004
Pyrene	NA	2,100	2.10	0.0002
Benzo (a) Anthracene	C	1,100	1.10	0.0001
Chrysene	C	1,300	1.30	0.0001
Benzo (b) Flouranthene	C	1,700	1.70	0.0002
Benzo (k) Flouranthrene	C	900	0.90	0.0001
Benzo (a) Pyrene	C	950	0.95	0.0001
Total PAH Concentration		14,250	14.25	0.0014
Total Carcinogen PAH's		5,950	5.95	0.0006
Test Example			10,000	1.0000

1. Toxicity = WT01 or WT02
a. No biological testing performed;
b. Not sufficient knowledge of how (PAH-type) waste was generated, therefore can't designate using criteria.

2. Persistence = WP01, WP02, WP03
a. Persistence state dangerous wastes have sum of PAH compounds greater than 1.0%
b. Based on the sum of Total PAH compounds, the SDS-RL-1 soils are not state dangerous wastes by this criteria method.

3. Carcinogenic = WC01 or WC02
a. Concentration of any one carcinogenic substance exceeds 0.01% (which is 100PPM) of the waste quantity
b. The total concentration summed for all carcinogenic substances exceeds 1.0%(which is 10,000PPM) of all waste quantity.
c. Based on the concentration of invidivual and sum of carcinogen PAH's, no PAH's exceed either rule a. or b. for Sample SDS-RL-1.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDS-RL-1

b Name: WEYERHAEUSER Contract: 8270

Lab Code: WEYER Case No.: 15832 SAS No.: SDG No.: SDS11

Matrix: (soil/water) SOIL Lab Sample ID: 34159

Sample wt/vol: 41.4 (g/mL) G Lab File ID: 2SV40915C

Level: (low/med) LOW Date Received: 09/01/94

% Moisture: 2 decanted: (Y/N) N Date Extracted: 09/10/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/15/94

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	730	U
91-57-6	2-Methylnaphthalene	84	J
91-58-7	2-Chloronaphthalene	730	U
208-96-8	Acenaphthylene	170	J
83-32-9	Acenaphthene	730	U
132-64-9	Dibenzofuran	110	J
86-73-7	Fluorene	180	J
85-01-8	Phenanthrene	2600	
120-12-7	Anthracene	240	J
206-44-0	Fluoranthene	3600	
129-00-0	Pyrene	2100	
56-55-3	Benzo(a)Anthracene	1100	
218-01-9	Chrysene	1300	
205-99-2	Benzo(b)Fluoranthene	1700	
207-08-9	Benzo(k)Fluoranthene	900	
50-32-8	Benzo(a)Pyrene	950	
193-39-5	Indeno(1,2,3-cd)Pyrene	560	J
53-70-3	Dibenz(a,h)Anthracene	730	U
191-24-2	Benzo(g,h,i)Perylene	480	J

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SDS-RL-1

Lab Name: WEYERHAEUSER Contract: 8270

Lab Code: WEYER Case No.: 15832 SAS No.: SDG No.: SDS11

Matrix: (soil/water) SOIL Lab Sample ID: 34159

Sample wt/vol: 41.4 (g/mL) G Lab File ID: 2SV40915C

Level: (low/med) LOW Date Received: 09/01/94

% Moisture: 2 decanted: (Y/N) N Date Extracted: 09/10/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/15/94

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH:

Number TICs found: 21 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.47	3200	BJNA
2.		UNKNOWN	14.47	1700	J
3.	74645-98-0	DODECANE, 2,7,10-TRIMETHYL-	17.32	3400	JN
4.	54105-67-8	HEPTADECANE, 2,6-DIMETHYL-	18.14	7200	JN
5.		UNKNOWN	18.75	590	J
6.		UNKNOWN	19.45	2500	J
7.		UNKNOWN	19.54	4900	J
8.	30995-64-3	METHYLDIBENZOTHIOPHENE	19.95	810	JN
9.	610-48-0	ANTHRACENE, 1-METHYL-	20.52	1600	JN
10.	7151-64-6	9H-FLUORENE, 9-ETHYLIDENE-	20.59	2400	JN
11.		UNKNOWN	20.75	1000	J
12.	832-64-4	PHENANTHRENE, 4-METHYL-	20.82	880	JN
13.	613-12-7	ANTHRACENE, 2-METHYL-	20.87	680	JN
14.	84-65-1	9,10-ANTHRACENEDIONE	21.49	1800	JN
15.	1576-67-6	PHENANTHRENE, 3,6-DIMETHYL-	22.00	860	JN
16.		UNKNOWN	22.99	790	J
17.	243-42-5	BENZO[B]NAPHTHO[2,3-D]FURAN	23.24	270	JN
18.	7343-06-8	PHENANTHRENE, 3,4,5,6-TETRAM	24.29	1300	JN
19.		UNKNOWN	26.16	680	J
20.	886-38-4	2-CYCLOPROPEN-1-ONE, 2,3-DIP	30.46	1000	JN
21.	205-82-3	BENZO[J]FLUORANTHENE	30.59	720	JN

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKT1

Name: WEYERHAEUSER Contract: 8270

Lab Code: WEYER Case No.: 15832 SAS No.: SDG No.: SDS11

Matrix: (soil/water) SOIL Lab Sample ID: SBLKT1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2SV40915D

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 09/10/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/15/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-58-7	2-Chloronaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLKT1

Lab Name: WEYERHAEUSER Contract: 8270

Lab Code: WEYER Case No.: 15832 SAS No.: - SDG No.: SDS11

Matrix: (soil/water) SOIL Lab Sample ID: SBLKT1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2SV40915D

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 09/10/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/15/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.60	7700	JNA
2.	UNKNOWN	35.14	210	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCST1

Lab Name: WEYERHAEUSER Contract: 8270

Lab Code: WEYER Case No.: 15832 SAS No.: - SDG No.: SDS11

Matrix: (soil/water) SOIL Lab Sample ID: SLCST1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2SV40915B

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 09/10/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/15/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-58-7	2-Chloronaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: WEYERHAEUSER Contract: 8270

Lab Code: WEYER Case No.: 15832 SAS No.: SDG No.: SDS11

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (TBP) #	TOT OUT
01	SDS-RL-1	69	70	57	80	0
02	SLCST1	63	63	63	62	0
03	SBLKT1	66	63	59	59	0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDS-RL-1

b Name: WEYERHAEUSER Contract:

Lab Code: WEYER Case No.: 15832 SAS No.: SDG No.: SDS-11

Matrix: (soil/water) SOIL Lab Sample ID: 34159

Sample wt/vol: 42.6 (g/mL) G Lab File ID:

% Moisture: 2 decanted: (Y/N) Date Received: 09/01/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/09/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/13/94

Injection Volume: 1.00 (uL) Dilution FACTOR: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	4.6	U
11104-28-2	Aroclor-1221	45.5	U
11141-16-5	Aroclor-1232	22.8	U
53469-21-9	Aroclor-1242	22.8	U
12672-29-6	Aroclor-1248	22.8	U
11097-69-1	Aroclor-1254	22.8	U
11096-82-5	Aroclor-1260	4.6	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1

Name: WEYERHAEUSER Contract:

Lab Code: WEYER Case No.: 15832 SAS No.: SDG No.: SDS-11

Matrix: (soil/water) SOIL Lab Sample ID: PBLK1_S0909

Sample wt/vol: 30 (g/mL) G Lab File ID:

% Moisture: 0 decanted: (Y/N) Date Received: NA

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/09/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/13/94

Injection Volume: 1.00 (uL) Dilution FACTOR: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	6.6	U
11104-28-2	Aroclor-1221	66.6	U
11141-16-5	Aroclor-1232	33.3	U
53469-21-9	Aroclor-1242	33.3	U
12672-29-6	Aroclor-1248	33.3	U
11097-69-1	Aroclor-1254	33.3	U
11096-82-5	Aroclor-1260	6.6	U

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: WEYERHAEUSER Contract:

Lab Code: WEYER Case No.: 15832 SAS No.: SDG No.: SDS-11

GC Column(1): DB1701 ID: 0.53(mm) GC Column(2): DB608 ID: 0.53(mm)

EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
PBLK1	*51	*50	65	66	143	142	0
LCS1	*50	*49	*57	*58	132	133	0
SDS-RL-1	*48	*47	*54	*55	131	130	0
ADVISORY QC LIMITS			(60-160)	(60-160)			

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl
INJ = Isodrin

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II PCB-2 3/90

3LC

SOIL AROCLOR LAB CONTROL SAMPLE RECOVERY

Lab Name: WEYERHAEUSER Contract:

Lab Code: WEYER Case No.: 15832 SAS No.: SDG No.: SDS-11

Lab Sample ID: LCS1_S0909

LCS Aliguot: 1000 (ul) Date Extracted: 09/09/94

Concentrated Extract Volume: 10000 (ul) Date Analyzed: 09/13/94

Injection Volume: 1.00 (ul) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N

Instrument ID (1): HARPO GC Column(1): DB1701 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	33.3	20.8	62.5	60-120
Aroclor-1260	100.0	65.8	65.8	60-120

Instrument ID (2): HARPO- GC Column(2): DB608 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	33.3	19.9	*59.8	60-120
Aroclor-1260	100.0	57.2	*57.2	60-120

Column to be used to flag recovery values with an asterisk.
* Values outside of QC limits.
LCS Recovery: 0 outside limits out of 2 total.

COMMENTS: May have been double spiked

Weyerhaeuser

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 12
To Stuart Triolo	From Rick Bogar
Co. Weyerhaeuser	Co.
Dept.	Phone # 924-6521
Fax # 339-2786	Fax #

Date 9/20/94

From Rick Bogar

Location WTC-2F25

Subject SR15832 Everett Soil Disposal (Organic Analysis Notes)

To Stuart Triolo Everett 34

The results for the PAH analysis and an updated PCB report for sample SDS-RL-1 are attached. The PCB report originally contained an incorrect %Moisture value. The effect of the change in %Moisture is a slightly lower reporting limit for PCBs.

Thank you for the opportunity to be of service. If you have questions about the data or require additional information please call me at 924-6521.

date 9/1/94 RUSH

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development – Analysis and Testing

Request Number: 15832

Title: EVERETT SOIL DISPOSAL #120-2975670		
Number of Samples: 3	Project Number: 046-5632	Groups: 1,3
Date Received: 09/01/94	Date Desired: 09/14/94	Sample Disposition:
Submitted By: TRIOLO, STUART	Location: EVERETT 34	Ph: 8-339-2871
Reviewed By: LANZA Mary Beth	Location: WTC 2F25	Ph: 924-6013/6188
Project Title: WPC-EVERETT PULP	Project Leader: MIHOK	
Copy To:		

Sample Description and History:

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

1 C BNA-8270 * for PAH * DUE 09/14/94 *

1 C PCB's on soil or solid * DUE 09/14/94 *

3 A TCLP Metals (100% solids) * DUE 09/09/94 *

3 B Total RCRA Metals - As, Ag, Ba, Cd, Cr, Pb, Se, Hg * DUE 09/09/94 *

RUSH

Sample Number	Series to Be Evaluated	Submitters Designation		Date Recd
34157	A	SDS-11	08/30/94	09/01/94
34158	A	SDS-1411-2	08/31/94	09/01/94
34159	BC	SDS-RL-1	08/31/94	09/01/94

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 4

To Stuart Triolo	From MaryBeth Lanza
Co. Weyco	Co. Weyco
Dept. Everett	Phone 924-6013
Fax # 8-339-2786	Fax # 9246654

Reference:			Record Book:
Results Approved: Mary Beth Lanza	Date: 09-09-94	Signature Applies To Attached Pages:	Page Numbers: To:

Printed on: 09/08/94 at 16:28:04

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development – Analysis and Testing

Request Number: 15832

Title: EVERETT SOIL DISPOSAL #120-2975670

Number of Samples: 3	Project Number: 046-5632	Groups: 1,3
Date Received: 09/01/94	Date Desired: 09/14/94	Sample Disposition:
Submitted By: TRIOLO, STUART	Location: EVERETT 34	Ph: 8-339-2871
Reviewed By: LANZA Mary Beth	Location: WTC 2F25	Ph: 924-6013/6188
Project Title: WPC-EVERETT PULP	Project Leader: MIHOK	
Copy To:		

Sample Description and History:

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

1 C BNA-8270 * for PAH * DUE 09/14/94 *

1 C PCB's on soil or solid * DUE 09/14/94 *

3 A TCLP Metals (100% solids) * DUE 09/09/94 *

3 B Total RCRA Metals - As, Ag, Ba, Cd, Cr, Pb, Se, Hg * DUE 09/09/94 *

RUSH

Sample Number	Series to Be Evaluated	Submitters Designation		Date Recd
34157	A	SDS-11	08/30/94	09/01/94
34158	A	SDS-1411-2	08/31/94	09/01/94
34159	BC	SDS-RL-1	08/31/94	09/01/94

Reference:			Record Book:
Results Approved:	Date:	Signature Applies To Attached Pages:	Page Numbers: To:

Printed on: 09/08/94 at 16:28:04

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development – Analysis and Testing

Request Number: 15832

Title: EVERETT SOIL DISPOSAL #120-2975670		
Number of Samples: 3	Project Number: 046-5632	Groups: 3
Date Received: 09/01/94	Date Desired: 09/09/94	Sample Disposition:
Submitted By: TRIOLO, STUART	Location: SORT 34	Ph: EVERETT 34
Reviewed By: LANZA Mary Beth	Location: WTC 2F25	Ph: 924-6013/6188
Project Title: WPC-EVERETT PULP	Project Leader: MIHOK	
Copy To:		

Sample Description and History:

Group	Series	Test Description			
		Report Range	Report Basis	Lower Limit of Sensitivity	
3	A	TCLP Metals (100% solids)			
3	B	Total RCRA Metals - As, Ag, Ba, Cd, Cr, Pb, Se, Hg			

Sample Number	Series to Be Evaluated	Submitters Designation		Date Recd
34157	A	SDS-11	08/30/94	09/01/94
34158	A	SDS-1411-2	08/31/94	09/01/94
34159	B	SDS-RL-1	08/31/94	09/01/94

Reference:			Record Book:
Results Approved:	Date:	Signature Applies To Attached Pages:	Page Numbers: To:

Printed on: 09/01/94 at 9:52:21

Weyerhaeuser Analytical and Testing Services Report

SR# 15832

Submitted By: Stuart Triolo Everett

Service Request Title: Everett Soil Disposal

Total RCRA Metals

EPA #	Constituent Metals	34159 SDS-RL-1	Quantitation Limit	Calculated TCLP Maximum in the Solid	SW846 Method Number
		(mg/kg, As-Received Basis)			
D004	Arsenic	10	10	100	1311/3010/6010
D005	Barium	90	10	2000	1311/3010/6010
D006	Cadmium	ND	1	20	1311/3010/6010
D007	Chromium (total)	31	1	100	1311/3010/6010
D008	Lead	22	5	100	1311/3010/6010
D009	Mercury	ND	0.1	4	1311/7471M
D010	Selenium	ND	0.5	20	1311/3020/200.9
D011	Silver	ND	1	100	1311/3010/6010

ND= Not Detected above the Quantitation Limit Listed

Notes: (1) Spike recoveries for all elements were 75-125% except Se was 64%, Ba was 215%, and Pb was 164%.

Approved Mary Beth Lamar

Report Date 9/9/94

Flag Qualifiers For Organic Analysis Reports

U Indicates that the compound was analyzed for but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds or when the data indicates the presence of a compound but the result is less than the sample quantitation limit but greater than zero.

N Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.

P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C This flag is used for pesticide results that have been confirmed by GC/MS

B This flag is used when the analyte is detected in the associated blank as well as the sample.

E This flag is used for compounds whose concentrations exceed the calibration range of the instrument.

D This flag identifies all compounds identified in an analysis at a secondary dilution. This flag alerts the data user that any discrepancies between the concentrations reported in the two runs may be due to dilution errors.

A This flag is used for tentatively identified compounds that suspected to be aldol-condensation products.

X This flag is assigned by the computer when the program has been manually adjusted by the operator. It has no significance to the number itself.

lytical and Testing Services
Tacu
Tel (206) ..
Tel (206) 924 6
Fax (206) 924 6654

Chain of Custody/Laboratory Analysis Request

Weyerhaeuser

Date 8/30/94 Page 1 of 1

oject Everett Soil Disposal # 120-2975670
nd Report To STUART TRIOLO
ddress Sort 34, Everett, WA
lephone # 339-2871
mplers Name same Phone # same
mplers Signature Stuart Triolo

Sample I.D.	Date/Time	Matrix*	Comp	Grab	Number of Containers	Organic Analysis: Base/Neu/Acid/Organics GC/MS 625/8270	Volatile Organics GC/MS 624/8240	BTEX	Herbicide 8150	Fuel Finger Printing MOD 8015/8020	Pesticides/PCBs 608/8080	Dioxin - Total, OR 2,3,7,8, TCDD, TCDF	Total Petroleum Hydrocarbons - 418.1	Total Organic Halides (TOX) 415/9060	Total Organic Carbon (TOC) 415/9060	Metals (total or dissolved) List Below	Cyanide	Inorganic Analysis: Ph, Cond, Cl, So', P-ortho, F, Br, NO', NO', (circle)	NH4-N, COD, Total-P, TKN (circle)	Other: TCLP - Metals As, Ba, Cd, Cr, Pb, Hg, Se, Ag	TCLP - VOA, BNA (CIRCLE)	TCLP - PCB, PEST, HERB (circle)	Drinking Water	
SDS-11	8/30/94				1															1				
SDS-1411-2	8/31/94				1						1					1								
SDS-RL-1	8/31/94				1																			

Sample Transfer Record

RELINQUISHED BY (PRINT) STUART TRIOLO	RECEIVED BY (PRINT)	
SIGNATURE Stuart Triolo	SIGNATURE	
FIRM Weyerhaeuser, Sort 34	FIRM	
DATE/TIME 8/31/94	DATE/TIME	
RELINQUISHED BY (PRINT)	RECEIVED BY (PRINT)	
SIGNATURE	SIGNATURE	
FIRM	FIRM	

Invoice Information

PO NUMBER 120-2975670
RESULTS TO STUART TRIOLO

Project Information

MILL/SITE CONTRACT STUART TRIOLO
PHONE 339-2871

Sample Receipt

SHIPPED VIA weyco courier
SEALS INTACT TEMP
CONDITION
SR Number

Special Instruction/Comments
~~ASAP~~ 1 week Turnaround - per Dennis Catalano
Target metals = As, Ba, Cd, Cr, Pb, Hg, Se, Ag

*Matrix W - Water (S - Soil) SL - Sludge O - Oil X - Other. Specify Type
Other None

ATTACHMENT C

TRESTLE ALIGNMENT PRELOAD AREA SUMMARY REPORT

October 20, 1992
Project 0141-037.25

Mr. Harold Ruppert
Weyerhaeuser Paper Company
101 East Marine View Drive
Everett, Washington 98201

Re: Trestle Alignment Pre-Load Area, Test Pit and Soil Sampling

Dear Mr. Ruppert:

EMCON is pleased to present this letter summarizing field activities and laboratory data associated with soil sampling activities at the proposed trestle alignment area at the Weyerhaeuser Everett East Site.

Between August 11 and August 13, 1992, EMCON personnel directed excavation of 18 exploratory test pits in the proposed trestle alignment area. Excavation was performed by A.L. Sleister and Sons Construction, Inc. of Mukilteo, Washington.

EMCON personnel collected soil samples from each test pit and submitted them to Weyerhaeuser's Federal Way, Washington laboratory for quantitative chemical analysis.

Test pits TP-1 through TP-10 were advanced adjacent to the former dry kilns in the proposed pre-load area. Test pits TP-91 through TP-99 were advanced adjacent to the former hog fuel vault and beneath the former machine shop. Soil samples collected from the test pits were submitted for analysis of semivolatile fuel hydrocarbons by Washington State Department of Ecology (Ecology) Method WTPH-D, pentachlorophenol by USEPA Method 8270, and PCBs by USEPA Method 8080.

Laboratory results for soil samples collected from these test pits are summarized in Table 1. Test pit locations are shown on Figure 1. Copies of exploratory test pit logs are also attached.

In summary, all reported concentrations of PCBs and pentachlorophenol did not exceed 1 part per million (ppm) for any of the analyzed samples. Based on these results, no further action appears warranted. Petroleum hydrocarbon concentrations, reported as Heavy Oil when present at detectable levels, did not exceed Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels for soil in the proposed pre-load area. However,

the proposed pre-load area, did exceed Ecology MTCA Method A Industrial Cleanup Levels for soil.

If you have any questions regarding the data presented in this letter please contact me.

Sincerely,

EMCON

John North
Project Manager

Attachments: Table 1
Figure 1
Test Pit Logs

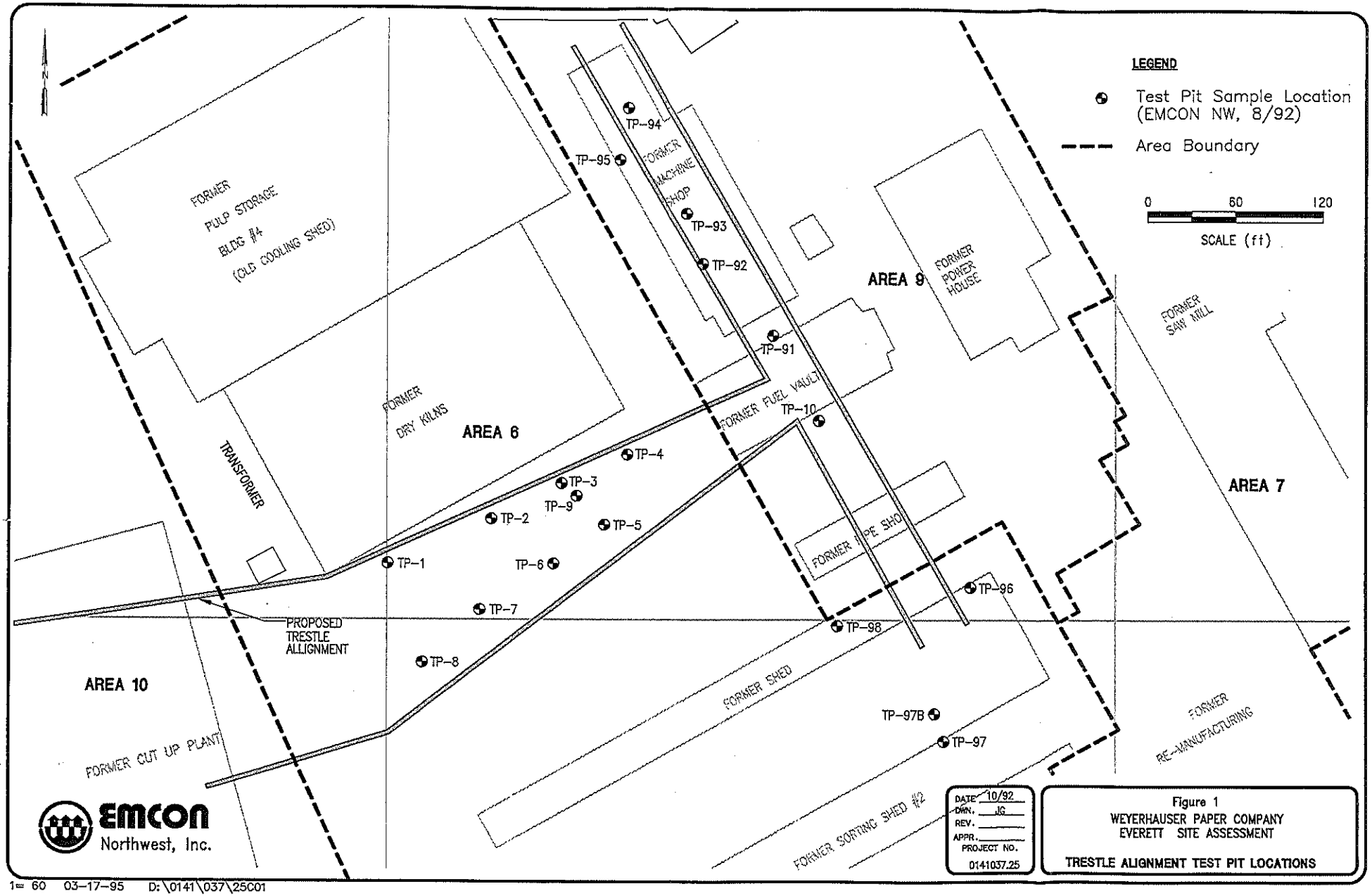
cc: Larry Fulcher, Weyerhaeuser
Linda Dawson, EMCON
John Guenther, EMCON

Table 1

Summary of Soil Sample Laboratory Data
Trestle Alignment Area
Weyerhaeuser Everett East Site

Sample Name	Collection Date	WTPH-D (mg/kg)	PCBs (µg/kg)	Pentachlorophenol (µg/kg)
TP-1, S-1	08/11/92	24 O	6	21.0
TP-2, S-1	08/11/92	140 O	ND	28.3
TP-3, S-01	08/11/92	3 O	ND	ND
TP-4, S-1	08/11/92	ND	ND	2.6
TP-5, S-1	08/11/92	<3 O	ND	ND
TP-6, S-1	08/11/92	<3 O	ND	ND
TP-7, S-1	08/11/92	110 O	ND	206
TP-8, S-1	08/11/92	52 O	ND	1.1
TP-9, S-1	08/11/92	3 O	ND	4.3
TP-10, S-1	08/11/92	4 O	26	22.9
TP-91, S-1	08/12/92	ND	ND	ND
TP-91, S-2*	08/12/92	53 O	NA	NA
TP-91,. S-3*	08/12/92	6 O	NA	NA
TP-92, S-1	08/12/92	320 O	9	ND
TP-93, S-1	08/12/92	5,400 O	203	10.6
TP-93, S-2*	08/12/92	38 O	ND	NA
TP-94, S-1	08/12/92	89 O	ND	ND
TP-95, S-1	08/12/92	ND	ND	ND
TP-96, S-1	08/12/92	120 O	6	0.8
TP-96, S-2*	08/12/92	78 O	NA	NA
TP-97, S-1	08/14/92	140 O	570	3.1
TP-97B, S-1	08/17/92	230 O	380	ND
TP-97B, S-2*	08/17/92	9 O	NA	NA
TP-98, S-1	08/17/92	48 O	ND	ND
TP-98, S-2*	08/17/92	94 O	NA	NA
TP-99, S-1	08/18/92	110 O	37	ND
TP-99, S-2*	08/18/92	47 O	ND	NA

NOTE: O = Indicates analyte reported as heavy oil by Weyerhaeuser Lab.
* = Indicates extraction procedure performed on this sample for PCB and pentachlorophenol analyses but extract not analyzed pending receipt of analytical data for sample S-1 from same test pit.
NA = Not analyzed.
ND = Not detected above method reporting limit.
< = Less than method reporting limit shown.



1= 60 03-17-95 D:\0141\037\25C01

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 1
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5.00'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 4-inches: **SAND AND GRAVEL (GP)**, dark brown organic-rich. (FILL)
S-1							4-inches to 19-inches: **SILTY SAND WITH GRAVEL (SP)**, some root fragments.
							19-inches to 5.0 feet: **SAND (SM)**, fine to medium, moist. (DREDGE SAND)
S-2							@ 4.0 feet: concrete slab.
			▽	5			@ 5.0 feet: sand wet.
							Bottom of pit at 5.0 feet.
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.25.14111.L44/cr:2.10/15/92

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 2
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5.50'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
S-1							**0 to 1-inch: SAND (SM)**, brown fine sand with abundant root fragments. (FILL)
							1-inch to 20-inches: SAND WITH GRAVEL (SP), fine to medium, small lenses of fine gray sand.
							20-inches to 5.5 feet: SAND (SM), brown, medium, moist; contains wood debris, bricks, broken pipes.
S-2			▽	5			@ 4.0 feet: sand, dark gray to black. @ 4.5 feet: sand, wet. @ 5.5 feet: **SILT (ML)**, black with fine sand.
				10			Bottom of pit at 5.5 feet.

REMARKS

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 3
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4.50'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 6-inches: WOOD CHIPS (WOOD).
							6-inches to 12-inches: SAND WITH GRAVEL (SP), medium, brown. (FILL)
S-1							12-inches to 4.5 feet: SAND (SM), light brown, medium. (DREDGE SAND)
S-2			▽				@ 3.5 feet: color changes to light gray, brick debris. Hydrocarbon-like odor. @ 4.0 feet: sand, wet.
				5			Bottom of pit at 4.5 feet.
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.25.14111.L44/cr:2.10/15/92

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 4
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4.00'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 3-inches: WOOD CHIPS (WOOD).
							3-inches to 18-inches: SAND WITH GRAVEL (SP), brown, root fragments. (FILL)
S-1							18-inches to 4.0 feet: SAND (SM), medium to fine, well graded. (DREDGE SAND)
S-2			▽				@ 3.0 feet: sand, dark gray. @ 3.5 feet: sand, wet.
				5			Bottom of pit at 4.0 feet.
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.25.14111.L44/cr:2.10/15/92

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 5
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5.00'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 1-inch: **WOOD CHIPS** (WOOD).
							1-inch to 12-inches: **SAND WITH GRAVEL AND COBBLES (SP)**, brown. (GRADE FILL)
S-1							12-inches to 2.5 feet: **SAND WITH TRACE GRAVEL (SP)**, fine medium. (FILL)
							2.5 to 4.5 feet: **SAND (SM)**, medium to coarse, gray. (DREDGE SAND)
S-2			▽				@ 4.0 feet: slight sheen on water in pit.
							4.5 to 5.0 feet: **SANDY SILT (ML)**, brown to black with abundant wood debris.
				5			Bottom of pit at 5.0 feet.
				10			

REMARKS

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 6
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4.50'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 6-inches: WOOD CHIPS (WOOD).
							6-inches to 12-inches: SAND (SM), fine, brown with abundant organic material and root fragments. (SOIL)
S-1							12-inches to 4.5 feet: SAND (SM), medium to fine, gray. (DREDGE SAND)
			▽				@ 3.0 feet: sand, dark gray to black.
							@ 3.5 feet: sand, wet.
S-2							@ 4.0 feet: 6-inch diameter pipe encountered.
				5			Bottom of pit at 4.5 feet.
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.25.141II.L44/cr:2.10/15/92

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 7
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4.80'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 2-inches: WOOD CHIPS (WOOD).
							2-inches to 18-inches: SAND WITH GRAVEL (SP), brown sand with gravel, moist. (GRADE FILL)
S-1					■		
							18-inches to 4.5 feet: SAND (SM), fine to medium, gray to black. (DREDGE SAND)
S-2			▽		■		@ 4.0 feet: wet sand.
							4.5 to 4.8 feet: SILTY SAND WITH GRAVEL (SP), gray to black, moist, very poorly sorted.
				5			Bottom of pit at 4.8 feet.
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.25.141II.L44/cr:2.10/15/92

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 8
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	5.50'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 1-inch: **WOOD CHIPS** (WOOD).
							@ 16-inches to 2.0 feet: color change to light brown sand with gravel. (FILL)
S-1							**1-inch to 2.0 feet: SAND WITH GRAVEL (SP)**, gray, moist. (FILL)
							2.0 to 2.5 feet: SAND (SM), gray, medium to fine, moist. (DREDGE SAND)
							2.5 to 5.5 feet: SAND WITH GRAVEL (SP), dense, fine, dark gray, similar to hardpan. (COMPACTED FILL?)
S-2							
			▽	5			@ 5.0 feet: sand, wet, slight sheen on water surface.
							Bottom of pit at 5.5 feet.
				10			

REMARKS

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP- 9
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	4.50'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 4-inches: **WOOD CHIPS** (WOOD).
							4-inches to 10-inches: **SAND WITH GRAVEL (SP)**, gray. (FILL)
							10-inches to 20-inches: **SAND WITH GRAVEL (SP)**, brown.
S-1							20-inches to 4.5 feet: **SAND (SM)**, medium to fine, light gray. (DREDGE SAND)
							@ 3.0 feet: color changes to dark gray to black.
S-1			▽				@ 4.2 feet: sand, wet.
				5			Bottom of pit at 4.5 feet.
				10			

REMARKS

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP-10
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6.00'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/11/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
S-1							**0 to 4.5 feet: SAND WITH GRAVEL (SP),** concrete debris, brick chips. (DEMOLITION DEBRIS AND FILL)
							@ 1.5 feet: gray to black color.
							@ 2.0 feet: light gray with streaks of red, brown. @ 2.0 to 6.0 feet: concrete footing on south side of test pit.
S-2							@ 3.5 to 4.0 feet: 6-inch water line on north side of pit.
				5			**4.5 to 6.0 feet: SANDY SILT (ML),** dark gray to black, fine, moist.
			▽				Bottom of pit at 6.0 feet. Due to confined space, backhoe could not dig deeper.
				10			

REMARKS

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP-91
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	6.00'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/12/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 2-inches: ASPHALT.
S-1							2-inches to 18-inches: SAND WITH GRAVEL (SP), medium, tan, loose with some root fragments. (FILL)
S-2							18-inches to 4.0 feet: SAND WITH GRAVEL (SP), dark brown, moist. (FILL?)
S-3			▽	5			4.0 to 6.0 feet: SILT (ML), dark gray, plastic. @ 4.5 feet: silt, wet.
				10			Bottom of pit at 6.0 feet.

REMARKS

EMCON Northwest, Inc.

0141-037.25.14111.L44/cr:2.10/15/92

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP-92
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.50'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/12/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
S-1			▽	5			0 to 3.5 feet: SAND (SM), medium, gray, well sorted. (DREDGE SAND) @ 2.5 feet: sand, wet. Bottom of pit at 3.5 feet.
				10			

REMARKS
(1) Pit dug at South end within former foundation. (2) 12-inch pipe on north side of test pit. (3) Elevation noticeably lower than previous test pit (#91) to the South.

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP-93
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.00'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/12/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
S-1							0 to 8-inches: SILT (ML), brown/mottled black, abundant wood debris, pieces of scrap metal, mudcracks on surface, moist.
S-2			▽				8-inches to 2.0 feet: SAND (SM), light brown, medium. @ 16-inches: sand, gray, wet.
							Bottom of boring at 2.0 feet.
				5			
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.25.141II.L44/cr:2.10/15/92

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP-94
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	3.00'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/12/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
S-1			▽	5			**0 to 1-inch: SILTY ORGANIC DEBRIS (ML),** mud cracks. **1-inch to 2.5 feet: SAND (SM),** medium, brown, moist. (DREDGE SAND) @ 8-inches to 2.5 feet: sand, gray. @ 12-inches: sand, wet. @ 1.5 feet: several large blocks of wood. @ 2.0 feet: organic debris.
							2.5 to 3.0 feet: SILT (ML), abundant wood debris.
				10			Bottom of pit at 3.0 feet.

REMARKS

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP-95
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	2.50'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/12/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
S-1			▽	5			**0 to 1-inch: SILT AND SAND (ML)**, dry, mixed with organic debris, grass, mudcracks on surface. @ 1.0 feet: sand, gray. @ 1.2 feet: sand, wet. **1-inch to 1.8 feet: SAND (SM)**, brown, medium. (DREDGE SAND) **1.8 to 2.5 feet: SILT (ML)**, gray with wood debris, plastic debris. Bottom of pit at 2.5 feet.

10

REMARKS

EXPLORATORY TEST PIT LOG

PROJECT NAME	Weyerhaeuser Phase II	TEST PIT NO.	TP-96
LOCATION	Trestle Alignment	PAGE	1 OF 1
DUG BY	Sleister	REFERENCE ELEV.	
METHOD	Backhoe	TOTAL DEPTH	7.50'
LOGGED BY	Brian S. Carl	DATE COMPLETED	08/12/92

SAMPLING METHOD AND NUMBER	PID (in ppm)	BLOWS PER 6-INCHES	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	LITHOLOGIC DESCRIPTION
							0 to 6-inches: NEW CHIPS (WOOD)
							6-inches to 18-inches: WOOD CHIPS (WOOD), blackened, wood debris, "burned" smell, ash mixed with sand. (BURNED DEBRIS)
S-1							18-inches to 7.5 feet: SAND (SM), gray with black streaks near top, some wood debris, sand moist. (DREDGE SAND)
							@ 2.8 feet: 3-inch diameter block of concrete encountered.
S-2							
				5			@ 5.5 feet: sand wet.
			▽				@ 6.0 feet: water in open test pit.
							Bottom of pit at 7.5 feet.
				10			

REMARKS

EMCON Northwest, Inc.

0141-037.25.14111.L44/cr:2.10/15/92