Everett Site



101 East Marine View Drive Everett, Washington 98201 Tel (206) 339 2800 Fax (206) 339 2786

July 14, 1997

JUL 1 5 1997

Paul Skyllingstad Industrial Section Department of Ecology PO Box 47706 Olympia, WA 98504-7706 Department of Ecology Industrial Section

Re: Weyerhaeuser Everett West Site -- 1997; Tenth Round Compliance Ground Water Monitoring Data

Dear Mr. Skyllingstad:

Enclosed are two copies of the report titled "Tenth Round Compliance Monitoring Ground Water Sampling Results - Weyerhaeuser Everett West Site," and a computer floppy disk containing sample results.

This data is being submitted according to the terms and schedule outlined in the Consent Decree between Ecology and Weyerhaeuser. Compliance ground water monitoring at the Everett West Site began in January 1995. The sampling and analytical methods, data evaluation, and report format were performed according to methods specified in the Ecology-approved Ground Water Compliance Monitoring Plan for Weyerhaeuser Everett West Site (March 2, 1995).

Should you require further information, please contact me at (206) 339-2871.

Sincerely,

Stuart Trielo

Stuart Triolo Environmental Engineer



Enclosure: Tenth Round Compliance Monitoring Ground Water Sampling Results -Weyerhaeuser Everett West Site (2 copies); and Computer Floppy Disk with laboratory data.

pc: John Gross CH 1K29 - data w/out floppy disk Glen Wyatt WTC2G2 - floppy disk w/out hard copy data Mike Elmer - NWPE - data w/out floppy disk file: CLEANW01

TENTH ROUND COMPLIANCE MONITORING GROUNDWATER SAMPLING RESULTS -WEYERHAEUSER EVERETT WEST SITE

This report summarizes the results of the tenth round sampling event for compliance monitoring groundwater sampling activities performed at the Weyerhaeuser Everett West Site (West Site) during May 1997. The West Site is located at 101 East Marine View Drive in Everett, Washington.

SAMPLING ACTIVITIES

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EMCON collected groundwater samples from seven West Site monitoring wells (MW-1201, MW-1202, MW-1203, MW-1301, MW-1302, MW-1501, and MW-1701) on May 28, 1997. One field duplicate sample was collected from monitoring well MW-1203 and designated 70528WSGMW-1800. One field blank was prepared and designated 70528WSGMW-1901. The samples were submitted to Weyerhaeuser Analytical Testing Services (WATS) for analyses. A site map including the seven groundwater monitoring well locations is shown in Figure 1.

LABORATORY ANALYSES

Seven groundwater samples, one field duplicate, and one field blank, were analyzed for total petroleum hydrocarbons as diesel and motor oil (TPH-D and TPH-O) by Washington State Department of Ecology Method WTPH-D extended, and for dissolved arsenic by U.S. Environmental Protection Agency Method 200.9. The groundwater samples that were analyzed for dissolved arsenic were filtered before laboratory submittal.

[•]Weyerhaeuser field sampling data sheets were completed at the time of sampling. Copies of the field sampling data sheets, chain-of-custody and request for analyses forms, and laboratory reports are appended to the back of this report. Also included are two diskettes with data files for submittal to Ecology.

LABORATORY RESULTS

Table 1 shows the depth to water measurements taken from each well before sampling. Table 2 summarizes the groundwater quality field parameters obtained at the time of sampling. Table 3 summarizes the laboratory results in the GIS/Key[™] format. TPH-D was detected in three samples. Concentrations ranged from 0.12 to 0.25 milligrams per liter (mg/L). TPH-O was detected in one sample at 0.18 mg/L. Dissolved arsenic was detected in two samples at 9 and 45 micrograms per liter (μ g/L).

EMCON performed data validation on the WATS laboratory data. A copy of the data validation report is attached at the back of this report.

No unusual detections or trends were noted in the laboratory results for the tenth round of compliance groundwater monitoring. In general, the concentrations of compounds detected from the May 1997 sampling event were consistent with detections from previous rounds of sampling.

This report was prepared by EMCON. For additional information, contact EMCON at (425) 485-5000.

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Steve Nelson, R.G. Project Manager

Kinda (

Linda Dawson Director of Environmental Services

Attachments:	Limitations
	Figure 1 - Site Map and Monitoring Well Locations
	Table 1 - Depth to Groundwater Measurements
	Table 2 - Summary of Groundwater Field Parameters
	Table 3 - May 1997 Sample Results
	Table 4 - May 1997 Duplicate Sample; Dissolved Arsenic Results
	Table 4a - May 1997 Duplicate Sample; TPH Results
	Table 5 - May 1997 Field Blank Sample; Dissolved Arsenic Results
	Table 5a - May 1997 Field Blank Sample; TPH Results
	Attachment A - Field Sampling Data Sheets, Chain-of-Custody and
	Request for Analyses Forms, Laboratory Reports, and Data Validation Report
	Diskettes - Data Files for Submittal to Ecology

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.



1=200 8-02-96 G:\DWG\0141\037\085\B0085R01

Well Number	Date Collected	Time	Depth to Water (feet)
MW-1201	05/28/97	1045	12.20
MW-1202	05/28/97	1130	7.50
MW-1203	05/28/97	1220	5.35
MW-1301	05/28/97	1300	5.43
MW-1302	05/28/97	1326	5.91
MW-1501	05/28/97	1402	4.45
MW-1701	05/28/97	1006	4.25

Table 1 Depth to Groundwater Measurements Weyerhaeuser Everett West Site May 1997

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Summary of Groundwater Field Parameters Weyerhaeuser Everett West Site May 1997

Monitoring Well	Sample Designation	Date Collected	Time	pH	Conductivity (µmhos)	Temp (°C)
MW-1201	70528WSGMW-1201	05/28/97	1115	6.36	600	13.0
MW-1202	70528WSGMW-1202	05/28/97	1220	6.96	680	15.0
MW-1203	70528WSGMW-1203	05/28/97	1245	6.76	750	16.0
MW-1301	70528WSGMW-1301	05/28/97	1330	6.84	240	13.0
MW-1302	70528WSGMW-1302	05/28/97	1350	6.55	940	14.0
MW-1501	70528WSGMW-1501	05/28/97	1430	6.81	320	14.0
MW-1701	70528WSGMW-1701	05/28/97	1030	6.07	170	16.0
Field Dup.	70528WSGMW-1800	05/28/97	0900	6.76	750	16.0

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May 1997 Sample Results Weyerhaeuser Everett West Site

SITE	DATE	TPH (as diesel) (mg/l)	TPH (as motor oil) (mg/l)	Dissolved Arsenic (mg/l)	
MW-1201	05/28/97	<0.079	<0.20	<0.003	
MW-1202	05/28/97	0.21	0.18	0.009	
MW-1203	05/28/97	0.12	<0.22	<0.003	
MW-1301	05/28/97	<0.077	<0.19	0.045	
MW-1302	05/28/97	0.25	<0.19	<0.003	
MW-1501	05/28/97	<0.077	<0.19	<0.003	
MW-1701	05/28/97	<0.077	<0.19	<0.003	
``					
				cated reporting limit	

May 1997 Duplicate Sample; Dissolved Arsenic

SAMPLING EVENT: 97-WE-2 (05/26/97 to 05/29/97) SAMPLE TYPE: Water TCL ID: WEST-AS

COMPOUNDS

LAB SAMPLE ID

BATCH NO

PF CODE: Dissolved WEYCO

LAB ID:

Weyerhaeuser Everett West Site

82716

(mg/l)

< 0.003

SAMPLE INFORMATION	PRIMARY SAMPLE	FIRST DUPLICATE	PRECISION SUMMARY		
SITE	MW-1203	MW-1203	RELATIVE		
DATE	05/28/97	05/28/97	PERCENT		
TIME	12:45	12:45	DIFFERENCE		
FIELD SAMPLE ID	70528WSGMW-1203	70528WSGMW-1800	(RPD)		

82721

(mg/l)

< 0.003

Arsenic

< = Not detected at indicated reporting limit

Page: 1

RPD

MEASURED

%

0

RPD

GOAL

%

0

.

Table 4a

May 1997 Duplicate Sample; TPH Results Weyerhaeuser Everett West Site

 SAMPLING EVENT: 97-WE-2 (05/26/97 to 05/29/97)

 SAMPLE TYPE:
 Water

 TCL ID:
 WEST-ALL

 PF CODE:
 Total

 LAB ID:
 WEYCO

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	SAMPLE INFORMATION	PRIMARY SAMPLE	FIRST DUPLICATE	PRECISION SUMMARY				
	SITE	MW-1203	MW-1203	RELATIVE				
	DATE	05/28/97	05/28/97	PERCENT				
	TIME	TIME 12:45 12:45						
	FIELD SAMPLE ID	70528WSGMW-1203	70528WSGMW-1800	(RPD)				
	LAB SAMPLE ID	82721	RPD RPD					
	BATCH NO			MEASURED GOAL				
СОМРО	DUNDS	(mg/l)	(mg/l)	% %				
TPH (as diesel)		0.12	0.14	15 0				
TPH (as motor oil)		<0.22	<0.20	10 0				
< = Not detected at indica	ated reporting limit							

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Page: 1A

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May 1997 Field Blank Sample; Dissolved Arsenic Weyerhaeuser Everett West Site

SAMPLING EVENT: 97-WE-2 (05/26/97 to 05/29/97) SAMPLE TYPE: Water

TCL ID: WEST-AS

PF CODE: Dissolved

LAB ID:

WEYCO SAMPLE FIELD INFORMATION BLANK 1 CASE ID 04017 BLANK ID 70528WSGMW-1901 70528WSGMW-1901 FIELD SAMPLE ID LAB SAMPLE ID 82722 COMPOUNDS (mg/l) < 0.003 Arsenic < = Not detected at indicated reporting limit

Table 5a

Page: 1A

May 1997 Field Blank Sample; TPH Results Weyerhaeuser Everett West Site

SAMPLING EVENT: 97-WE-2 (05/26/97 to 05/29/97)

.

SAMPLE TYPE: Water TCL ID: WEST-ALL PF CODE: Total

	SAMPLE INFORMATION	FIELD BLANK 1			
	CASE ID	04017			
	BLANK ID	70528WSGMW-1900			
	FIELD SAMPLE ID	70528WSGMW-1901			
	LAB SAMPLE ID	82722	 		•••••
COMPOUNDS	£	(mg/l)			
TPH (as diesel)		<0.077			
TPH (as motor oil)		< 0.19			
< = Not detected at in	dicated reporting limit			and the second secon	Travel Blank = Custody Id
	18 - 2011 - 2014 - 2014 - 2014 11 - 2014 11 - 2014 12 - 2014 12 - 2014 12 - 2014 12 - 2014 12 - 2014 12 - 2014			: Field Blank = Field Blank Id	Method Blank = Batch No

ATTACHMENT A

FIELD SAMPLING DATA SHEETS, CHAIN-OF-CUSTODY AND REQUEST FOR ANALYSES FORMS, LABORATORY REPORTS, AND DATA VALIDATION REPORT

WEYERHAEUSER GROUNDWATER SAMPLING RECORD

Company 🗆 ES&		ES&T/NB		ject No.	101)37.10 /05+	Site ID Date (m/d	Mu)- 19) 5-28	1201
Site Description		Nell 🗆 Extrac	tion W	ell 🛛 Irrigatio	on Well 🗆 S	Spring 🗆 Bor	ehole Probe	e Other:	
۵ir Temp: 505 ם °		Weathe	er: K	ain					
Well Locked? Ayes D] no	Damag	ed/Re	epairs Need	ed:				
□ TOC □ MP Descrip	tion: S	rdens					<u> </u>		
TOC/MP Stickup:	1⊈ft □ m	above/below g	ground	Well Ir	nside Diam	eter (ID): 7	12-inch 4-i	nch Other:	
Site Remarks (neaby wel	ls pumping, ti	de, stream sta	ge, etc.	.)				A	
Water Level Data	Measureme	ent Units: 🔊	t 🗆 n		the second s	Total Depth (TD) from MP or		1.8
E-Tape, #	Initial	Confirmation	(A)	Start of urging	At End of Purging			T	Remarks
Steel Tape Other	045			- 3 - 3					
Time (hh:mm)	2.2								
THE REPORT OF A DECEMPTOR OF A DECEM	4.0								
Tape Correction									
Water Level (WL)									
Product Thickness Product Recovery									
C collons C liters									No. Kasaradi an MD ar
Measure water level from fixed méass TOC, measure water level from north MP/TOC Stickup measurement is froi pumped; C - cascading. Water Leve observed. If free product removed from Field WQ Data	n side of casing. n ground surface	Measure static or to nearest 0.1 ft or o Water - Tape Co olume removed in g	0.01 m. mection fa allons or I	Depth to Water coo	des: N - not mea product presence pe in "Remarks"	sured; D - dry; O - e at time of water column.	obstructed; P - pump level measurement;	ing F - flowing (an	lesian well): R - recently
Casing Volume: [1956 Conversion Factor = 0.0408	(TD) - 12.2	-m)].	(Well ID)	2. [0.040Kic	onversion Factor	1=1.24	tx(gal □ liter	5	Goes Dry e Purging
Conversion Pactor = 0.0400	Ior reet und	-		-			(Final)	Meter Type	Remarks
Dumping Rate	1.25	> 2.5		3.75				Type	
Time Measured (hh:m		110	7	1115		_			
pH 🗆 Temp. Compensate	ed 6.4	264	1	6.36				DSPH	
Temperature 😼 🗆	°F (?)	13		13				_	
Dissolved Oxygen m	g/I		-						
ISC or □ EC µS/c	m (200	lec	$\mathcal{O}_{\mathcal{C}}$	600				OSPH	
	ru —	-		clear					
Color/Tint	-		-	none					
Odor	-	-	-	noticable			-	and a second second	
Record time purging starts and end checked in casing volume calculatik equipment calibration methods, dec 25°C): EC: Electrical Conductivity	on. Use "Final" of ontamination pro- not corrected for	column above for n cedures, equipmen temperature (μS/c	t failures, m). μS/	nume water dispos	sal method, etc. i gallon (US) = 3.1	n daily field notes. 785 L = 0.833 Impe	SC: Specific Cond	nping Rate is gpm of arage pumping rate uctance corrected f	or temperature (µS/cm at
Sample Data Field Sample ID	Sample Dep Result		Tim			ed Lab			Remarks
(unique ID on bottles)	Code	(m/d/y)	(hh:m		Contra de restate manage	um) ID	Case ID	SDG ID	
70528WSGMW-	1201 PO	5-28-97	1114	2	- A	5			
							asla: D# Durfinde C	amole: S# Calit C	mole (sent to second lab
Sample ID may be up to 15 chara BF#, Field Blank; BR#, Equipment and SDG ID (sample delivery grou Enter sample preservation and har	Rinsate; BT#, Tr	ip Blank; SF#, Flek	J Spike (#	= 1 10 9). Lau lu	the leb convice	could the sumber or	w-mm SDG may b	e lab's SDG, a coo	ler ID number, or mmddy
Sampled By (print)	tichele	lang	Ré	te Mik		· Mic	fulle	Lang	Page of

WEYERHAEUSER GROUN	NDWATER SAMPLING RECORD	

Company 🗆 ES	S&T/WTC	ES&T/NB	- COLOR DO NO.	ect No. 4	17	11.104	ite ID //	111-11. 1)5-28-	
Site Description		Vell D Extra	1		011 10		and the second se		
	J°C Ø≾°F	Weath	()						
Well Locked?				pairs Need	ed: Rep	laced	lock		
TOC DMP Desc					· ·				
TOC/MP Stickup		above/below	ground	Well In	side Diame	ter (ID): 751	2-inch 🛛 4-in	ch Other:	
Site Remarks (neaby	wells pumping, t	ide, stream sta	age, etc.))				<u> </u>	
Water Level Data	a Measureme	ent Units:	ft ⊡m	Well	or Borehole T	otal Depth (TD) from MP or To	oc:) 20	/
□ E-Tape, # □ Steel Tape □ Other	Initial	Confirmation			t End of Purging			Re	marks
Time (hh:mm)	11:30		_						
Depth to Water	7.50								
Tape Correction									
Water Level (WL)									
Product Thickness									
Product Recovery									
Measure water level from fixed m TOC, measure water level from fixed m MP/TOC Stickup measurement is pumped; C - cascading. Water	north side of casing.	measure static of	pre-purging	y water level twice,	Not material	red: D dor O ot	structed P - numpin	a. F - flowing (artes	ian well): R - recently
pumped; C - cascading. Water observed. If free product remove	d from well, record vo	blume removed in g	anons or m	era, nat product typ	c al richards es		Ver	id-16	
Field WQ Data	Purge Depth:			Grab 🗆 Bai		the second se		Drawni	ioes Dry
Casing Volume: [20 Conversion Factor = 0.04	$\frac{D}{(TD)} - \frac{7.5}{7.5}$	Q(WL)]•[gallons; 0.154	_(Well ID)] 4 for feet	2. [0.0408 (Co	nversion Factor)] 5066 for mete	$= \frac{2.07}{\text{and liters; }}$	∠gal □ liters Vell ID in inches		Purging
Cum. Vol. Purged	(FR	10 4		6				Туре	Remarks
Pumping Rate			-	1215					
Time Measured (hh				6.96				DSPH	
pH Temp. Compens	□°F / ℓ			15					
Temperature St°C Dissolved Oxygen	mg/l		_	-					
	S/cm (080) (08	0	680				D5PH	
				clear					
Color/Tint				none					
Odor	-			no notice			n i sain		
Record time purging starts and checked in casing volume calcu	ends in Water Level I ulation. Use "Final"	Data section. Cum column above for r	. Vol Purge recording s	ed: cumulative volu ample field measur	med removed bef ements, total volu	ore sampling, in ga ime purged befored	lons or liters. Pump sampling or aveara	ing Rate is gpm or lage pumping rate d	pm, depending on box uring purging. Record
checked in casing volume calco equipment calibration methods, 25°C); EC: Electrical Conduct									temperature (protein at
Sample Data	Sample Dep			Grab 194 B	ailer 🗆 Pun	np Descrip	1. 1. 1. 1.	filtered	wpung
Field Sample I	Codo		Time (hh:mi			1 10	Case ID	SDG ID	Remarks
(unique ID on bottl	===	(m/d/y)			As	5			•.•
70528WSGM4	J-1202 PO	5-25-77	120						
							+		
						PO Primary Carrol	e: D# Duplicate Sar	nole: S# Solit Sam	ple (sent to second lab):
Sample ID may be up to 15 ch BF#, Field Blank; BR#, Equipn and SDG ID (sample delivery Enter sample preservation and	nent Rinsate; BT#, Tr	np Blank; SF#, Fie	d Spike (#	- 110 5J. Lab 10	the lab service re	avect aumber or w	mm SDG may be	lab's SDG a cooler	ID number, or mmddyy.
· · · · · · · · · · · · · · · · · · ·	12 1 11	-1	12		11	11-1	(1) -	1	
Sampled By (print)	Michelk	lauge	12	TI Mika	Signature	MUCLA	BV 0	lange	Page of

WEYERHAEUSER GROUNDWATER SAMPLING RECORD

Company 🗆 ES	&T/W		ES&1	T/NB	-	ject N ility			41-0 - U	37 KS	-104	te ID ate (n	// n/d/y	1W- 15-28	1203
Site Description	Site Description Amonitoring Well Extraction Well Irrigation Well Spring Borehole Probe Other:														
	í°C I			Veather		Lair									
Well Locked? A yes		r	. (Damage	ed/Re	epairs	Neede	ed:							
TOC MP Desc	ription	: Fl	usl	<u>h</u>	ou		1								
TOC/MP Stickup:	X	ft 🗆 m a	above	/below gr	ound	V	Vell In	side	Diame	eter	(ID): 7512	-inch [4-inc	h Other:	
Site Remarks (neaby v	vells pu	mping, tic	le, str	eam stag	e, etc	.)							E		
Water Level Data	a Me	asuremer	nt Uni	ts: plft			-	-		Fotal	Depth (TD)	from Mi	P of TO		4/
□ E-Tape, # □ Steel Tape □ Other	Init	ial	Confi	rmation	20123	Start of urging		At End Purgin						ŀ	Remarks
Time (hh:mm)	12:														
Depth to Water	5.3	000000000000000000000000000000000000000													
Tape Correction															
Water Level (WL)															
Product Thickness															
Product Recovery															
□ gallons □ liters	asuring o	oint (MP) or	top of v	vell casing (TOC). F	Record wate	er depth t	o neare	st 0.01 ft c	or 0.0	02 m, with minu	is (-) sign it	f level is a	bove MP or TO	C. If no mark on MP or
Measure water level from fixed me TOC, measure water level from m MP/TOC Stickup measurement is pumped; C - cascading. Water observed. If free product removed	from grou	of casing. M ind surface t	o neare	static or pr	e-purgin).01 m. rection fa lons or l	Depth to V actor. Rec iters, list pr	vater code ord free oduct typ	es: N - product e in "Re	not measu presence marks" co	ured; (at tim plumn.	D - dry; O - obs ne of water leve	ructed; P - I measoner	numping	F - flowing (an	tesian well); R - recently
Field WQ Data		e Depth:				Grab				-	Description		$\underline{11}$	Staun	Goes Dry
Casing Volume: [9] Conversion Factor = 0.04	08 for fe	eet and g	_(WL)] ⁴ allons	0.1544	Well ID) for fee	$2^{2} \cdot [0.0]$	YDK (Co ers; 0.	nversion 5066 f	n Factor)] for mete	= _	nd liters; We	gal ⊡ ell ID in i T (Fir	nuies		e Purging
Cum. Vol. Purged		0.72	zet	o/	4	125	t						icity	Туре	Remarks
D Pumping Rate		127	2			12									
Time Measured (hh		(0.8		12=	A 1	10	10							DSPH	
pH Temp. Compens		1000		11/		<u> </u>								Perix	
Temperature D*C	mg/l	10	-	14	_										
Dissolved Oxygen □ SC or □ EC µ ⁴	S/cm	70-	$\overline{\mathcal{O}}$	20-	7)	74	70							DSPH	
	NTU	-7-7		-4-7	-	cl.	ar	-	Thre	od	like o	haant	Sms		
Color/Tint		-	_			nor			1	in	Durau	Pate	r		
Odor 😤		د	_			nor		hbl	P		1	- ',	1 - Martin		
Record time purging starts and e checked in casing volume calcu equipment calibration methods, 25*C); EC: Electrical Conducti	lation. U	se "Final" co	olumn a	bove for rec	failuras	sample ner	ar disnos:	al metho	d etc in	daily f	field notes. S	C: Specific	Pumpin ravearag Conducta	g Rate is gpm of e pumping rate	or Lpm, depending on box during purging. Record for temperature (µS/cm at
Sample Data	San	nple Dept	th:			Grab			D Pun	· ·	Descripti	on: the	2a	hitere	A W PUM
Field Sample II (unique ID on bottle		Result Code)ate n/d/y)	Tim (hh:m		Bottle:		Filtere (0.45 μr		Lab ID	Case	D	SDG ID	
705281USGM4	1-120	3 PO	5-	28-97	124	5	2		_H,	5					DAL
м -	1800)	1	<u> </u>	0,90	0	ņ		12						Lupicale
		Ч	1												
Sample ID may be up to 15 ch BF#, Field Blank; BR#, Equipm and SDG ID (sample delivery Enter sample preservation and	ent Rinsa	te: BT#, Trip	Blank;	SF#, Field	Spike (#	- 1 10 9).	Lauto	the leb	condice re	runet	number or vv-n	m SDG	may be la	b's SDG, a coo	ler ID number, or mmddyy
Sampled By (print)	Mill	ndk	ĺå	uqe./	Pe	te la	like	1150	nature	2	Mich	ull	e i	Lun	Page of

WEYERHAEUSER GROUNDWATER SAMPLING RECORD

Company	D ES&T/W		S&T/NB		ect No. 4	1-17	037. Jost	164	te ID //	14)- 115-28	1301
Site Descrip	tion MM	nitoring W	ell 🗆 Extrac	tion Well	Irrigatio	n Well	Spring	D Boreho	le 🗆 Probe	Other:	
Air Temp: 50	and the second se		Weathe	r. R	ain						
Well Locked?					airs Need	ed:					
			nch								
TOC/MP Stick	. /		bove/below g	round	Well In	side Diam	eter (I	D): 712	-inch 🛛 4-ind	ch Other:	
Site Remarks (imping, tid	e, stream stag	ge, etc.)				,			
Water Level			t Units:		Well	or Borehole	Total D	epth (TD)	from MP or TO	and the second design of the second distance	<u>Ч</u>
E-Tape, #		itial	Confirmation		10720-000 EXC	At End of Purging				F R	emarks
			Commination	1 4	99						
Time (hh:mm)											
Depth to Water											
Tape Correctio											
Water Level (V Product Thickr											
Product Thicki Product Recov											
□ gallons □ liters	5			TOOL Du		a approx 0 01 f	0.002	m with miou	is (-) sion if level is	above MP or TO	C. If no mark on MP or
TOC, measure water le MP/TOC Stickup measu pumped; C - cascading observed. If free produc	vel from north side arement is from grou Water Level (WL ct removed from we	of casing. N und surface to	nearest 0.1 ft or	0.01 m. De rection fact llons or lite	or. Record free rs, list product typ	es: N - not mea product presence in "Remarks"	sured; D - æ at time column.	- dry; O - obst of water leve	I measurement; us	g; F - flowing (art	esian well): R - recently
Field WQ D	ata Purg	e Depth:			Grab D.Bai			Description		DIALD	Goes Dry
Casing Volume Conversion Factor	e: [9.0408 for f]	- <u>543</u> feet and ga	(WL)]•[2 allons; 0.1544	for feet	• O.040K (Co and liters; O.	nversion Factor 5066 for me	J = O ters and	liters; We		While	Purging
K Cum. Vol. P	urged	. 1.	1.		2.1				(Final)	Meter Type	Remarks
D Pumping Ra		0.7									
Time Measure		1308			1318					DSPH	
pH		6.98		-1	6.84					VSIT	
Temperature	pa°C ⊡°F	<u> </u>	13	>	13		-				
Dissolved Oxy		025	1 1	$\overline{\mathbf{A}}$	200					DSPH	
SC or E	C μS/cm	230	24	$\underline{0}$	270	11	01	ha m		USR-	
Turbidity					clear	- three		rguna	anisms		
Color/Tint					non	() 	- pm	Jun		······································	
Odor					(lear						
Description ourging s	tarts and ends in W	ater Level Da	ta section. Cum.	Vol Purged	: cumulative volu	med removed b	efore sam	pling, in gallo	ns or liters. Pumpi	ng Rate is gpm o	r Lpm, depending on box during purging Record
checked in casing volu equipment calibration 25°C); EC: Electrical	ume calculation.	Jse "Final" co	lumn above for re	failures ou	ime water dispos	al method etc. i	n daily fiel	d notes. So	C: Specific Conduct	tance corrected f	during purging. Record or temperature (µS/cm at
Sample Da		mple Dept			Grab 19 B			Descriptio	1. I L	filtered	W puny
Field Sar	A REAL PROPERTY OF THE OWNER OF THE OWNER OF THE OWNER.	Result	Date	Time	Bottle	s Filter	ed	Lab ID	Case ID	SDG ID	Remarks
(unique ID o		Code	(m/d/y)	(hh:mm		ab) (0.45	μ m)	IU	Case ID	00010	
70528W	SGKW-13	01 P0	5-28-97	1330	d	H	5				
				17							
:											
BF#, Field Blank; BR	#, Equipment Rinsa	ate: BT#, Trip	Blank; SF#, Field	Spike (# -	1 10 9). Lau 10	the leb service	conjunct ou	mber or win	m SDG may be l	ab's SDG a cool	mple (sent to second lab) ase ID (up to 5 characters er ID number, or mmddyy ndling in daily field notes.
Compled Du	(ariat) Mi	1.11	1	115-	F. M.N	/signature	, t	til	.00	Lena	1
Sampled By	(pmil) / 11(Mar	Lada /	11	LILLA	10p		VUN	all of	- INAX	

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	WEYER	RHAEUSER	GROUND	WATER S	AMPLING	RECORD	
Company 🗆 🗄	S&T/WTC	-	Project N Facility ∠	0. 40/41- Werett- U	-11-164	Site ID Date (m/d/y) ·	11-1302
Site Description		Well D Extract	ion Well 🛛 Irri	gation Well	Spring 🛛 Bore	hole Probe O	ther:
Air Temp: 50's	Ó°C ØX°F	Weather	: Lain	-			
Well Locked?	es □ no	Damage	ed/Repairs N	eeded:			
TOC MP Des	-	tush					
TOC/MP Stickup:	1x ft □ m	above/below gr	ound We	ell Inside Dian	neter (ID): 7	2-inch 4-inch	Other:
Site Remarks (neaby	wells pumping,	tide, stream stag	e, etc.)		3		
Water Level Da		1		Well or Borehole	Total Depth (TI	D) from MP or TOC:	9.41
□ E-Tape, # □ Steel Tape □ Other		Confirmation	At Start of Purging	At End of Purging			Remarks
Time (hh:mm)	1320						
Depth to Water	5.91						
Tape Correction							
Water Level (WL)							
Product Thickness							

C

Product Recovery

□ gallons □ liters Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Pur	ge Depth:	L.	🗆 Grab 🛛 🛛 Ba	iler 🏟-Pump	Description	PERI	Stall	
Casing Volume: [9,4_(TTC Conversion Factor = 0.0408 for)- <u>\$.91 (WL)</u> feet and gallor]•[<u>Z</u> (Well ID is; 0.1544 for fe	et and liters; 0.	onversion Factor)] 5066 for meter	= 0.57 to compare and liters; Well	al 🗆 liters		Goes Dry e Purging □
Cum. Vol. Purged	0.6	1.2	1.8			(Final)	Meter Type	Remarks
Time Measured (hh:mm)	13 35	1340	1345					
pH	6.59	4.57	6.55				DSPH	
Temperature to C □°F	14	14	14					
Dissolved Oxygen mg/l		-	-					
DASC or □ EC µS/cm	920	940	940				175PH	
Turbidity DNTU		-	clear					
Color/Tint			none					
Odor	-		no noti	cable		-	the second second	

Record time purging starts and ends in Water Level Data section. Cum. Vol Purged: cumulative volumed removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged befored sampling or avearage pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data	Sample De	epth:	□G	rab 19 Bailer	Pump	Descript	ion: tick	filterec	WPUMP
Field Sample ID (unique ID on bottles)	Resu Çode	Duit	Time (hh:mm)	(Bottles (total to lab)	Filtered (0.45 µm)	Lab 1D	Case ID	SDG ID	Remarks 1
70528WSGMW-		5-28-97 n	1350	2	AS				Field Blan
Sample ID may be up to 15 chara BF#, Field Blank; BR#, Equipmen and SDG ID (sample delivery gro	t Rinsate; BT#,	rip Blank; SF#, Fie	Id Spike (# = 1 1	to 9). Lab ID (up to	b service request	t number or vv-	mm SDG may be	lab's SDG, a coole	r ID number, or mmddyy.
and SDG ID (sample delivery gro Enter sample preservation and ha	ndling data on c	nain-of-custody form	 Also record of 	detailed information	about duplicate, s	plit, rinsate, spi	ke, and/or blank sa	imple collection/har	idling in daily field notes.

Sampled By (print)	Michelk	and I	Vetr Mr.K/Signature	Mirtullo	Lang
		1.1.1.1.1	Data Entered into Database	By	2 Page of

WEYERHAEUSER	GROUNDWATER	SAMPLING	RECORD
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Site Description Monitoring Weil Estraction Weil In grants Borehole IP robe Other: Air Temp: CS CS CS Weather: Later Later Weil Locked? By ges		S&T/WTC		Faci	ect No. 4 lity Evic	reH-U	lost c	Site ID / Date (m/d/		501
Air Temp: GB G*C G*F Weather: Luit Well Locked? Øxyse Damaged/Repairs Needed: Damaged/Repairs Needed: TOC/MP Stickup: Int m aboveblow ground Well Inside Diameter (ID): D2-inch 4-inch Other: Site Remarks (neaby wells pumping, tide, stream stage, etc.) Well or Borehole Total Daph (TD) from MP FTOC 9.5 Beel Tape Onfirmation At Stard of Remarks Inne (nh:mm) 1/4/02 At Stard of Remarks Product TheKness Front of the down of t	Site Description		Well 🗆 Extra	ction Wel	I Irrigation	Well 🗆 S	pring D Boret	nole	Other:	
Minimized on the product of the provide set of the set of	Air Temp: 505	⊐́°С р́Х°F	Weath	er: L	uin					
Well Inside Diameter (ID): 42-incl. 14-incl. Other: Site Remarks (neaby wells pumping, tide, steam stage, etc.) Water Level Data Measurement Units: 14.1 m Well or Borehole Total Depth (TD) from MP (TOC) 9.5 Temper: 1 Item initial Confirmation A Stat of A End of Remarks Teme (httmm) If I and Measurement Units: 14.1 m Well or Borehole Total Depth (TD) from MP (TOC) 9.5 Teme (httmm) If I and Measurement Inter (Measurement Inter) Remarks Total Confermation A Stat of A End of Purging Remarks Total Confermation Interest On the other Interest On the										
100/min Outcome Site Remarks (neaby wells pumping, tide, stream stage, etc.) Water Level Data Measurement Units: PL: □ n Well or Borehole Total Depth (TD) from MP or TOC) 9.5 Extend Tage III Other Initial Confirmation Purping		1		ground	Well Ins	side Diame	eter (ID): 📈	2-inch 🛛 4-ir	nch Other:	
Water Level Data Measurement Units: £t. □ m Well or Borehole Total Depth (TD) from MP (*TOC) 9.5 □ E-Tape, # Initial Confirmation Purging NEmarks □ E-Tape, # Initial Confirmation Purging Nemarks □ Steel Tape Initial Confirmation Purging Nemarks □ peth to Water 1/4/0.2 Initial Confirmation Purging □ apple One 1/4/0.2 Initial Confirmation □ peth to Water 1/4/0.2 Initial Confirmation Initial Confirmation □ product Thickness Initial Confirmation Purging Initial Confirmation Initial □ galons Illersi Initial Confirmation Purging Initial Confirmation Purging □ Gradue Initial Confirmation Initial Confirmation One Initial Confirmation Initial In	and a second					4				
IDE Tape. Initial Confirmation Purging Purging Remarks Depth to Water //U/S Purging Purging Purging Purging Purging Product Recovery Product Thickness Product Recovery Purging Purg	and the second		-		Well	or Borehole	Total Depth (TD)) from MP or T	oc:) 9.	5
Time (himm) (H 0 2 - 1) Depth to Water (H 4 5 - 1) Tape Correction (H - 1) Water Level (WL) (WL) Product Thickness (H - 1) Product Recovery (H - 1) galance likes (H - 1) mask-and wells within the dimension point (W - 1) (D - 1) Mask-and wells within the dimension point (W - 1) (D - 1) Mask-and wells within the dimension point (W - 1) (D - 1) Mask-and wells within the dimension point (W - 1) (D - 1) Mask-and wells within the dimension the dimension of a data. (M - 2) Mask-and wells within the dimension of a data. (M - 2) Mask-and wells within the dimension of a data. (M - 2) Mask-and wells within the dimension of a data. (M - 2) Cassing Volume: [] (M - 2) Cassing Volume: [] (M - 2) Q Cum. Vol. Purged (M - 2) (M - 2) Q Cum. Vol. Purged (M - 2) (M - 2) Q Cum. Vol. Purged (M - 2) (M - 2) Q Cum. Vol. Purged (M - 2) (M - 2) Disolveed Oxygen (M - 2)	E-Tape, #			At S	tart of A	t End of			the same state of the same sta	marks
Depth to Water 1/4/5 Tape Correction		1402								
Tape Correction		1.10-								
Water Level (WL) Product Thickness Product Recovery		1.1.2								
Product Thickness Product Recovery gallons litters Measure water level from form measuring point (MP) or top divide logistic or pre-purping water level logic accommutation measurements and measurement and										
□ galons Liters Modulations Liters Modulations Measure static work from norm date of earling. Measure static or pre-purging where level hids, nearest 0.01 for 0.002 m, with minus (1) sign if level is above MP or TOC. If no mark on MP PriOC Status of the mosurement is and measurement is and the measure	Product Thickness									
The server water level from fixed measuring point (MP) or top of well casing (TOC). Recard water depth to nearest UOI 16 of UOX 1, with interact by an an assurement times (in 24 hour dock from MP/TOC). Recard water level from interact by an an assurement times (in 24 hour dock from MP/TOC). Recard water level from interact by an an assurement times (in 24 hour dock from MP/TOC). Recard water level from interact by an an assurement times (in 24 hour dock from MP/TOC). Recard water level from times (in 24 hour dock from MP/TOC). Recard water level from times (in 24 hour dock from MP/TOC). Recard water level interaction (in 16 hour dock from MP/T		lan -						4/1		
Casing Volume: [1/2] multiple [1/2] Williple [1/2	TOC, measure water level from MP/TOC Stickup measurement i pumped; C - cascading. Water observed. If free product remov Field WQ Data	north side of casing. s from ground surfac: Level (WL) = Depth ed from well, record v Purge Depth	Measure static of e to nearest 0.1 ft o to Water - Tape C olume removed in s	or 0.01 m. De orrection fac gallons or lite	epth to Water code tor. Record free p ers, list product type Grab	es: N - not meas product presence in "Remarks" c	sured; D - dry; O - ot a at time of water le olumn. p Descripti	on: C	ng: F - flowing (artes ise "S" for free prod	sian well); R - recently uct thickness if sheen
R Cum. Vol. Purged 0.8 1.0 2.4 Type Type Type Time Measured (thimm) 1/410 1/418 1/425 0.8 0.8 0.8 0.90 0.8.7 0.8.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.90 0.9.7 0.9.8 0.9.7 0.9.8 0.9.7 0.9.8 0.9.7 <td< td=""><td>Casing Volume: [2 Conversion Factor = 0.0</td><td>5 (TD) - 4.4 408 for feet and</td><td>(ML)]•[2 gallons; 0.154</td><td>_(Well ID)]² 4 for feet</td><td>and liters; 0.</td><td>nversion Factor) 5066 for met</td><td>= 0.875 ers and liters; V</td><td>Vell ID in inche</td><td>s While</td><td>Purging D</td></td<>	Casing Volume: [2 Conversion Factor = 0.0	5 (TD) - 4.4 408 for feet and	(ML)]•[2 gallons; 0.154	_(Well ID)] ² 4 for feet	and liters; 0.	nversion Factor) 5066 for met	= 0.875 ers and liters; V	Vell ID in inche	s While	Purging D
□ Putripling Rate 0:0 1418 1425 Time Measured (hh:mm) 1410 1418 1425 pH □ Temp. Compensated 6.90 (0.87+0.87) 0.81 Temperature M°C □* 15 14 14 Dissolved Oxygen mg1	K Cum. Vol. Purge	d l c			24			(T what)	inclui	Remarks
pH □ Temp. Compensated 6,90 (0.87) (0.87) (0.87) Temperature S*C □*F 15 14 14 14 Dissolved Oxygen mg/l					1170					
Initial Temperature Original Construction Original Construction Original Construction Temperature Original Construction Original Construction Original Construction Original Construction Dissolved Oxygen mg/l		10		0	1725				DSPH	
Dissolved Oxygen mg/l			11	27+	14					
St. SC or E EC µS/cm 3 [D 320 320 DSPH Turbidity INTU Clear					-					
Turbidity INTU			0 32	D	320				175PH	
Color/Tint				_	clear		8			
Odor Image: Non-Ample Data Monoral Monor	(di Diait)		- ~		none					
Record time purging starts and ends in Water Level Data section. Cum. Vol Purged: cumulative volumed removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged befored sampling or average pumping rate during purging. Recurding the calculation methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon; Sc: Specific Conductance corrected for temperature (µS/cm 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon; Sc: Specific Conductance corrected for temperature (µS/cm 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon; Sc: Specific Conductance corrected for temperature (µS/cm) = 0.785 L = 0.833 Imperial gallon; Sample Data Sample Depth: □ Grab \$R Bailer Pump Description: Hereeffffffffffffffffffffffffffffffffff	Contraction of the Contraction o		- `	- 1	no noti	cable		- #6	te ser la se	
checked in casing volume calculation. Use + inal cooling any equipment caliboration procedures, equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm). Sample Data Sample Depth: □ Grab Grab Bailer □ Pump Description: Hered Hered </td <td></td>										
Sample Data Sample Deptility Field Sample ID (unique ID on bottles) Result Code Date (m/d/y) Time (hh:mm) Bottles (total to lab) Filtered (0.45 μm) Lab ID Case ID SDG ID 705 28 (L)S(-7KW-150) P0 5-28-97 1430 2 AS	checked in casing volume cale equipment calibration methods 25*C); EC: Electrical Conduc	decontamination pro- tivity not corrected fo	column above for ocedures, equipme r temperature (µS/	nt failures, p cm). µS/cr	urge water dispose $m = \mu mho/cm.$ 1	al method, etc. in gallon (US) = 3.7	daily field notes. 85 L = 0.833 Imperia	SC: Specific Condu	ictance corrected for	uring purging. Record temperature (µS/cm at
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							ed Lab	T		Remarks
	(unique ID on both	les) Code	e (m/d/y)	(hh:mn			im) ID	Case ID	SDG ID	
Prince Sample: D# Duplicate Sample: S# Solit Sample (sent to second	705281USGN	W-50 PO	5-28-97	4143(12	A	5	2		
Prince Sample: D# Duplicate Sample: S# Solit Sample (sent to second										
A second Design of Time must be entered Design Codes: P0 Primary Sample: D# Duplicate Sample: S#, Split Sample (sent to second									molo: S# Selit S	inter (sent to second lab)
Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes. PC, Printary Sample, DR, Deplate Bounds, GR, Case ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mm and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mm enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample contection/handling in daily field not former to the sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, splite, and/or blank sample contection/handling in daily field not former to the sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, splite, and/or blank sample contection/handling in daily field not former to the sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, splite, rinsate, splite, and/or blank sample contection/handling in daily field not former to the sample of the	BF# Field Blank; BR#, Equip	ment Rinsate; B1#, I	np Blank, SF#, Fle	au opike (# -		the let engine r	aquest pumber or u	mm SDG may be	lab's SDG a cooler	r ID number, or mmddyy
Sampled By (print) Michael (aug / Peter Michael Michael Michael Page of	Sampled By (print)	Michelk	laux	112	te Mika	HUP	- rada	ulle 6	Lange	

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WEYERHAEUSER	GROUNDWATER SAMPLING RECORD

Company 🗆 ES&T/W	TC 🗆 ES&		oject No Icility /	. 40/41. Verett-1	-11.14	Site ID // Date (m/d/	115-28	701
Site Description	nitoring Well	Extraction	Well 🛛 Irrig	ation Well	Spring D Bore	hole	Other:	
Air Temp: 50'3 □°C			Rain					
Well Locked? A yes I no		Damaged/	Repairs Ne	eded:				
TOC MP Description		^						
TOC/MP Stickup:	ft 🗆 m abov	e/below groun	d We	I Inside Dia	meter (ID): 7	2-inch 4-in	ch Other:	
Site Remarks (neaby wells pu	mping, tide, st	ream stage, e	tc.)				<u> </u>	
Water Level Data Me	asurement Un	its: ¢S_ft □	lm V	Vell or Borehol	e Total Depth (TI	D) from MP or T	oc:) 7	.70
□ E-Tape, #	tial Con	firmation	At Start of Purging	At End of Purging			F R	lemarks
Time (hh:mm) /DX	56							
Depth to Water 4.:	25							
Tape Correction								
Water Level (WL)								
Product Thickness								
Product Recovery gallons liters Measure water level from fixed measuring p								
Desing Valuma: 127	e Depth:			Bailer 4-P	$\frac{1}{1} = 0.5(0)$	ion: <u> C</u> [≰gal □ liters	istalli Well	C∠ Goes Dry e Purging □
Conversion Factor = 0.0408 for f	eet and gallon	s; 0.1544 for f	eet and liters	0.5066 for m	eters and liters;	Vell ID in inches (Final)	Meter	Remarks
E Cum. Vol. Purged	0.5	1.0	15				Туре	Remarks
Pumping Rate	1020	1025	1030					
Time Measured (hh:mm)	10.01	6.05	()				DSPH	
pH □ Temp. Compensated Temperature \$56°C □°F	16	16	16					
Dissolved Oxygen mg/l				•				
SC or C EC µS/cm	180	180	170				DSPH	
			clea	x				
Color/Tint			non	e .				
Odor			non	sticabl	L	*		
			1					
Record time purging starts and ends in W checked in casing volume calculation. U equipment calibration methods, decontain 25°C); EC: Electrical Conductivity not co	Jse "Final" column nination procedure: prrected for temper	above for recording	ig sample ned in es, purge water d 1S/cm = μmho/cm	isposal method, etc n. 1 gallon (US) =	2. in daily field notes. 3.785 L = 0.833 Imperi	SC: Specific Conduction	age pumping rate tance corrected f	or temperature (µS/cm at
	mple Depth:	Data T	and the second se	L Bailer □ I ttles Filt	ered Lab	THOR	maa	Remarks
Field Sample ID (unique ID on bottles)		m/d/y) (hh	:mm) (tota		5 μm) ID	Case ID	SDG ID	
70528WSGKW-12	PO 5-	28-97 10	30	2 /	45			
	. -							
Sample ID may be up to 15 characters. BF#, Field Blank; BR#, Equipment Rins: and SDG ID (sample delivery group, up Enter sample preservation and handling	ate; BT#, Trip Blan	K; SF#, Fleid Spike	s (# - 1 10 5). L	to to the leb service	a request number or y	y-mm SDG may be	lab's SDG a coo	ler ID number, or mmddyy
Sampled By (print)	1 11 1	1	2+11	K//signatu		$\left(- A \right) - \left(- A \right)$	\mathcal{I}	and the second

A Weyerhaeuser Sample An	Analytical & Testing Services alysis Request/Chain of (ustody Form	Date Page of
Facility Everett-Ubst Sitz		Analyses Requested (circle	
Sampler's Project No. 1202975-670	Project Manager (print)		
Weyerhaeuser Account No.	Steve Nelson	Tannins SO4 SO4 CBs	
Sampled by: Consultant ETU(ON Facility Address 18912 N. Crack Prwy	Sampler Name (print)	iners Color Tannins TEX S S F NO ₃ SO ₄ F NO ₃ SO ₄ F NO ₃ SO ₄	
$\Box = E&AS/NB \qquad (706) -185 - 5700 - 486 - 97600 - FAX FAX - $	Recorded By (signed) Michelle Lange	S / BTE S / BTE S / BTE S / BTE G / A H-G / A F e Mn F e Mn A SVOA	TOC COD
Sample Description (ID, Date, Time are Required)	Matrix Preservative		
Field Sample ID Date Time Depth (15 characters max.) (m/d/y) (hh:mm) (ft / m)	Water Soil/Sed Oil H-Dr- <i>Het</i> H-SO4 HNO3 A Na2S2O3	Number of pH Cond TD Volatile Orgar Semi-volatile TPH: 418.1 1 TPH: 418.1 1 TPH: 418.1 1 Ca Mg Na H Ca Mg Na H Metals (list belo	CN BOD P-ortho TKN P-total
705284XGM41-1201 5/28/97 1115			X
10-1202 1200	Y Y X	X	X
-1203 1245	XXXX	×	X
1 -1301 1330	XXXX	4	
11 1501 1430	X K K Y	X	× ×
1 -1701 1030	XXXX	X	X
11 -1800 0900	XXXX	×	
11 -1901 1000	X X X	4	大学家
1302 V 1350	XXX	X	X
a the second sec			
iourou, el Bracher, en bracher, el contra en bracher, el contra el contra en bracher, el	uired for soil or sediment samples.	Remarks/Detection L	
	QA/QC Requirements	+ Diss. As was field	hitcred
Samples on Ice or Blue Ice	I NPDES Permit	Q 11 willing	Went recutes
Lab Turn-Around Time Steve Nekun \Box^{24} Hr \Box^{48} Hr \Box^{7} Day		Keport Mernoo	plank issuit
2-3 wk Date Due: Standard	Electronic Report	Report method for diss. As	analysis
Laboratory		and Shipping Method Record	. <u>()</u>
WATS/WTC WATS/NB Relinquished By Sampler (signaturé):	Date Time	Received By (signature):	Shipping Method
	5-28-97 144		
Refinquished By (signature):	Date Time	Received By (signature):	Airbill No.
Lab SR#:	<i>.</i> *		
Case ID: Relinquished By (signature):	Date Time	Received For Laboratory By (signature):	1 - See
SDG ID:	14 A	Samples Received Intact:	Cooler Temp: °C

WATS/WTC: 32901 Weyerhaeuser Way South, Federal Way, WA 98003 (206-924-6293)

WATS/NB: New Bern R&D Field Station, Highway 43 North, New Bern, NC 28563 (919-633-7238)

Form 16307 (2/96) Printing Services TP-1 Tacoma

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June 12, 1997



32901 Weyerhaeuser Way South Federal Way, Washington 98003 Analytical Chemistry Laboratories Tacoma, Washington 98477 Tel (206) 924 6872 Fax (206) 924 6654



Emcon Attn: Mr. Steve Nelson 18912 N. Creek Parkway Bothell, WA 98011

Subject: Service Request 04017 - Everett West Site Water Samples - 1202975670

Dear Steve:

Attached is a copy of our final report for the samples you requested we analyze for you. These are from our service request number 04017. Invoicing for this work will be directly to Weyerhaeuser. If you have any questions concerning this report, please feel free to contact me at (253) 924-6521.

Thank you for the opportunity to be of service. I look forward to working with you on future projects.

Sincerely, Ruch Bogar Hmp

Richard Bogar, Chromatography Team Leader Weyerhaeuser Analytical and Testing Services



32901 Weyerhaeuser Way South Federal Way, Washington 98003 Analytical Chemistry Laboratories Tacoma, Washington 98477 Tel (206) 924 6872 Fax (206) 924 6654

SDG NARRATIVE

WEYERHAEUSER (WEYER)

ANALYTICAL AND TESTING SERVICES

Case Number 4017

SDG Number 82714

PROJECT: EVERETT WEST SITE WATER SAMPLES 1202975670 OOE #7043971

The samples from this SDG were received on 5/29/97. The SDG was composed of water samples for analysis of Petroleum Hydrocarbons by WTPH-D and Arsenic by AM1-3020/200.9. The following analyses were performed:

SAMPLE ID	LAB ID	MATRIX	ANALYSIS
70528WSGMW-1201	82714	WATER	WTPH-D;As
70528WSGMW-1201DUP	82714D	WATER	As
70528WSGMW-1202	82715	WATER	WTPH-D;As
70528WSGMW-1203	82716	WATER	WTPH-D;As
70528WSGMW-1301	82717	WATER	WTPH-D;As
70528WSGMW-1302	82718	WATER	WTPH-D;As
70528WSGMW-1501	82719	WATER	WTPH-D;As
70528WSGMW-1701	82720	WATER	WTPH-D;As
70528WSGMW-1800	82721	WATER	WTPH-D;As
70528WSGMW-1901	82722	WATER	WTPH-D;As
LCS 6/3/97	LCS 6/3/97	Fortified Blank	WTPH-D;As

Laboratory comments for this sample delivery group are listed below. The comments are broken up into categories for ease of explanation.

1. WTPH-D

;

- a) No comments.
- 2. Arsenic
 - a) No comments.

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

Reih Cog

Richard Bogar Chromatography Team Leader

<u>6/12/97</u> Date

Please feel free to contact me with any questions concerning this data report. I can be reached at (253) 924-6521

Sincerely,

Richard Bog

Richard Bogar Weyerhaeuser Analytical & Testing Services

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Services hain of Custody Form Date_____ Page _____

K Weyerhaeu	iser Samr	ble Analysis Reques	hain of Cu	ustody Form	Page	<u>+</u>
Facility Prince Hall New				Analyses Reques	sted (circle or write in parameters)	Notes
Weyerhaeuser Account No. Sampled by: Consultant MU Address [89] E&AS/WTC (2012) 485- E&AS/NB Phone No. Sample Description (ID Field Sample ID (15 characters max.) 70528WSGMW-1201 52 4 -1202	$\begin{array}{c} 29.75 (0.7) \\ \hline \\ CON \\ 2 N. Creck H4u \\ \hline \\ \\ 57X \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	Sampler Name (print	Jelson auge le Zange Preservative	ss color Tannins BTEX nics Mn Mn CI F NO ₃ SO ₄	AOX TCLP: Metals VOA SVOA Pest Herb PCBs Dioxin: Total / 2,3,7,8,TCDF CN ROD P-ortho TrXN P-total TOC COD	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1245 1330 1430 1030 0900 1000 1000	××××× ××××× ×××××× ××××××	× + + + + + + + + + + + + + + + +	X X X X X X X X X X X X X X X X X X X	Deteotion Limit Requirements	5
Samples on Ice of Blue Ice Lab Turn-Around Fifthe 24 Hr	Reporti RESULTS TO: Start Nets	Signature): Dat	nents le mit eport nain of Custody a e -28-97-1445 e Time	+ Diss. As we	ecord Airbill No.	
SDG ID:	· .			Samples Received Intact:	ion, Highway 43 North, New Bern, NC 2856	THE OWNER AND ADDRESS OF TAXABLE PARTY.



Weyerhaeuser Company Analytical Laboratories Tacoma, Washington

Report

Everett West Site Water Samples

Dissolved Analytical Sample Designation Lab Code As (µg/L) < 3 70528WSGMW-1201 82714 05/28/97 1115 Duplicate 82714D < 3 9 82715 70528WSGMW-1202 05/28/97 1220 70528WSGMW-1203 82716 < 3 05/28/97 1245 45 82717 70528WSGMW-1301 05/28/97 1330 < 3 70528WSGMW-1302 82718 05/28/97 1350 < 3 82719 70528WSGMW-1501 05/28/97 1430 < 3 70528WSGMW-1701 82720 05/28/97 1030 82721 < 3 70528WSGMW-1800 05/28/97 0900 < 3 82722 70528WSGMW-1901 05/28/97 1000 < 3 Method Blank 3 Quantitation Limit:

Method Number:

Approved Julie Reimer

000004

Report Date 06/11/97

AM1-3020/200.9



WTPH-D Extended

Service Request:	04017
Analyst:	C. Thomson

Sample ID	Blank	LCS	82714	82715	82716	82717
Client ID	6/3/97	6/3/97	70528WSG	70528WSG	70528WSG	70528WSG
			MW-1201	MW-1202	MW-1203	MW-1301
<u>Analytes</u>	<u>mg/L</u>	<u>% Rec.</u>	mg/L	mg/L	mg/L	<u>mg/L</u>
Diesel Fuel Range	U	116%	U	0.21	0.12	U
Motor Oil Range	U		U	0.18	U	U
Surrogate Recovery	108%	112%	105%	101%	114%	111%
Date Sampled			5/28/97	5/28/97	5/28/97	5/28/97
Date Extracted	6/3/97	6/3/97	6/3/97	6/3/97	6/3/97	6/3/97
Date Analyzed	6/12/97	6/12/97	6/12/97	6/12/97	6/12/97	6/12/97
Holding Time Days			6	6	6	6
Reporting Limit						
Diesel Range	0.082		0.079	0.077	0.087	0.077
Motor Oil Range	0.20		0.20	0.19	0.22	0.19

Approved by Clay The Date 6/12/97

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WTPH-D Extended

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Service Request:	04017
Analyst:	C. Thomson

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Sample ID	82718	82719	82720	82721	82722
Client ID	70528WSG	70528WSG	70528WSG	70528WSG	70528WSG
	MW-1302	MW-1501	MW-1701	MW-1800	MW-1901
Analytes	mg/L	mg/L	mg/L	mg/L	mg/L
Diesel Fuel Range	0.25	U	U	0.14	U
Motor Oil Range	U	U	U	U	U
Surrogate Recovery	108%	108%	108%	115%	103%
Date Sampled	5/28/97	5/28/97	5/28/97	5/28/97	5/28/97
Date Extracted	6/3/97	6/3/97	6/3/97	6/3/97	6/3/97
Date Analyzed	6/12/97	6/12/97	6/12/97	6/12/97	6/12/97
Holding Time Days	6	6	6	6	6
Reporting Limit					
Diesel Range	0.077	0.077	0.077	0.082	0.077
Motor Oil Range	0.19	0.19	0.19	0.20	0.19

DATA VALIDATION REPORT TENTH ROUND GROUNDWATER COMPLIANCE MONITORING MAY 1997 WEYERHAEUSER EVERETT WEST SITE

DATA QUALIFICATIONS

The following report presents a summary of the Weyerhaeuser Everett West Site data validation review for seven groundwater samples, one field duplicate, and one field blank, collected on May 28, 1997. Samples were analyzed by Weyerhaeuser Analytical and Testing Services in Tacoma, Washington and reported under service request number 04017. All of the groundwater samples were analyzed for dissolved arsenic and total petroleum hydrocarbons as diesel (TPH-D) and motor oil (TPH-O). Data validation was conducted following procedures specified in the Compliance Monitoring Plan. Samples were labeled as directed by Weyerhaeuser (e.g., the sample from monitoring well MW-1201 was labeled "70528WSGMW-1201"). The field duplicate sample, collected from well MW-1203, was labeled 70528WSGMW-1800. The field blank sample was labeled 70528WSGMW-1901.

HOLDING TIMES

All arsenic and TPH analyses were conducted within holding time limits.

METHOD BLANKS AND FIELD BLANKS

The TPH and dissolved arsenic method blank results were non-detect. Analytes were not detected in the field blank. Data qualifiers were not assigned to sample results based on blank contamination.

SURROGATE RECOVERY

All of the surrogate recoveries reported for the TPH analyses were within QC criteria.

DUPLICATE RESULTS

Samples 70528WSGMW-1203 and 70528WSGMW-1800 were field duplicates. Dissolved arsenic results were not detected in either the sample or the field duplicate. Diesel fuel-range petroleum hydrocarbons were detected at concentrations of 0.12 mg/L

and 0.14 mg/L. Motor oil-range petroleum hydrocarbons were not detected in either the sample or the field duplicate.

OVERALL ASSESSMENT OF DATA

All requested analyses were conducted and the data are 100 percent complete. Data qualifiers were not assigned to sample results based on the data validation review, and the data are judged to be acceptable for their intended use.

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REP_DATE	REP NAME	PRJ_NAME	STA_TYPE	STA_USE	WTR_USE	DATA_REL	
7/10/97		Groundwater Compliance Monitoring, West Site	Ground water	0	W	1.1762	MW-1201
7/10/97	Weverhaeuser Company	Groundwater Compliance Monitoring, West Site	Ground water	0	W		MW-1202
	Weyerhaeuser Company		Ground water	0	W		MW-1203
			Ground water	0	W	10755	MW-1301
					W		MW-1302
					W		MW-1501
					W	C	MW-1701

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PRI	STA	SEC	STA1	SEC	STA2	SEC_STA3	STATE_F	FIPS C	COUNTYFIPS	STATE_	CHAR	COUNTYCHAR	OWN_NAME	OWN_DT
			-		-		53		061	WA		Snohomish	Weyerhaeuser Company	
							53	C	061	WA		Snohomish	Weyerhaeuser Company	
							53	C	061	WA		Snohomish	Weyerhaeuser Company	
		-					53	C	061	WA		Snohomish	Weyerhaeuser Company	
							53	C	061	WA		Snohomish	Weyerhaeuser Company	
							53	C	061	WA		Snohomish	Weyerhaeuser Company	
							53	C	061	WA		Snohomish	Weyerhaeuser Company	

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OWN ADD	DRILLER	STA DESC	LOC_METHD	LATL	ONG	STPCO_NOR
101 E Marine View Drive Everett Washington 98201			Clark M. Leeman Land Surveying, Various			373554
101 E Marine View Drive Everett Washington 98201			Clark M. Leeman Land Surveying, Various			373747
101 E Marine View Drive Everett Washington 98201			Clark M. Leeman Land Surveying, Various			373901
101 E Marine View Drive Everett Washington 98201			Clark M. Leeman Land Surveying, Various			373987
101 E Marine View Drive Everett Washington 98201			Clark M. Leeman Land Surveying, Various			374038
101 E Marine View Drive Everett Washington 98201			Clark M. Leeman Land Surveying, Various			373939
101 E Marine View Drive Everett Washington 98201			Clark M. Leeman Land Surveying, Various			372854

STP	CO EAST	STPCO	ZONE LAND_NET	UTM NORT	UTM_EAST	UTM_ZON	MAP_NAME	BORE_DEP	WELL_DEP	WTR_ELEV1
	1308299	and the second se	SW1/4NW1/4T29NR5E				Marysville	15.00		3.93
	1308193		SW1/4NW1/4T29NR5E				Marysville	15.00	15.00	6.26
	1307959		SW1/4NW1/4T29NR5E				Marysville	10.00	10.00	5.25
	1307726		SW1/4NW1/4T29NR5E				Marysville	10.00	10.00	6.55
	1307514	1.5	SW1/4NW1/4T29NR5E				Marysville	10.00	10.00	7.29
	1306923		SW1/4NW1/4T29NR5E				Marysville	11.50	10.00	6.19
	1308027		SW1/4NW1/4T29NR5E				Marysville	9.00	8.00	8.21

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WLEV DAT1	ELEV UNITS	MEAS_ELEV			LEV_COMM	ALTITUDE
6/14/93		15.43	TOP OF WELL CASING	USC&G.S. BENCH MARK M-296, NGVD-1929		12.43
6/10/93	FEET	13.26	TOP OF WELL CASING	USC&G.S. BENCH MARK M-296, NGVD-1929		10.26
6/9/93	FEET			USC&G.S. BENCH MARK M-296, NGVD-1929		10.75
6/9/93	FEET	11.55	TOP OF WELL CASING	USC&G.S. BENCH MARK M-296, NGVD-1929		11.55
6/9/93	FEET	12.29	TOP OF WELL CASING	USC&G.S. BENCH MARK M-296, NGVD-1929		12.29
6/10/93	FEET			USC&G.S. BENCH MARK M-296, NGVD-1929		10.19
6/9/93	FEET	11.71	TOP OF WELL CASING	USC&G.S. BENCH MARK M-296, NGVD-1929		12.00

SITEDESC.XLS (print only) Diskette files in .dbf and .wk format

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DEPTOWTR1	CONST_DT	MOREINT	UP_DEPTH	LOW_DEPTH	DEPT_UNITS	CONST_COMM	MTD_CON	FILT_LEN	FILT_MAT
8.50		N	8	18			В	11.00	10-20 Colorado Silica Sand
4.00		N	6	18			В	13.00	10-20 Colorado Silica Sand
5.50		N	3	10			В		10-20 Colorado Silica Sand
5.00		N	3	10			В	8.00	10-20 Colorado Silica Sand
5.00		N	3	10			В	8.00	10-20 Colorado Silica Sand
4.00		N	3	10		÷ •	В		10-20 Colorado Silica Sand
3.50		N	2	8			В	7.50	10-20 Colorado Silica Sand

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DIA_BOR	DIA_CAS	CAS_MAT	DIA_OPN	LEN_OPN	TYP_OPN	TYP_OMT	INT_COMM	LOG_AVAIL	TYP_LOG
8	2	P	2	10.00	P	P			
8	2	P	2	12.00	Р	Р		_	
8	2	P	2	7.00	P	Р			
8	2	P	2	7.00	P	P			
8	2	P	2	7.00	Ρ	Ρ			
8	2	P	2.	7.00	P	Р			
8	2	P	2	6.00	Ρ	Р			

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LOG_DOC	OTHER_DOC
Compilation of Assessment Documents for Weyerhaeuser Everett West Site. Prepared for Weyerhaeuser Company by EMCON	
Compilation of Assessment Documents for Weyerhaeuser Everett West Site. Prepared for Weyerhaeuser Company by EMCON	
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LOG_LOC	AQUI_TEST	PUMP_	DATA	ANDAT_AVAL	PROGRAM	GEN_COMM	HUCODE	AGN_USE
Ecology Northwest Regional Office				Y				
Ecology Northwest Regional Office				Y				
Ecology Northwest Regional Office				Y				
Ecology Northwest Regional Office				Y				
Ecology Northwest Regional Office				Y				
Ecology Northwest Regional Office				Y				
Ecology Northwest Regional Office				Y				

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PRI_STA	STA ID	SAMPLE_DAT	ANALYZ DAT	SAMPLE_ID	LAB_NAME	LABSAMP_ID	CONSTITUEN	CAS_ID
-	MW-1201	5/28/97		70528WSGMW-1201	WEYERHAEUSER	82714	TPH AS DIESEL	68334-30-5
	MW-1201	5/28/97	6/12/97	70528WSGMW-1201	WEYERHAEUSER	82714	TPH AS MOTOR OIL	GIS-130-114
	MW-1201	5/28/97	6/11/97	70528WSGMW-1201	WEYERHAEUSER	82714	ARSENIC	7440-38-2
	MW-1202	5/28/97	6/12/97	70528WSGMW-1202	WEYERHAEUSER	82715	TPH AS DIESEL	68334-30-5
	MW-1202	5/28/97	6/12/97	70528WSGMW-1202	WEYERHAEUSER	82715	TPH AS MOTOR OIL	GIS-130-114
	MW-1202	5/28/97	6/11/97	70528WSGMW-1202	WEYERHAEUSER	82715	ARSENIC	7440-38-2
	MW-1203	5/28/97	6/12/97	70528WSGMW-1203	WEYERHAEUSER	82716	TPH AS DIESEL	68334-30-5
	MW-1203	5/28/97	6/12/97	70528WSGMW-1203	WEYERHAEUSER	82716	TPH AS MOTOR OIL	GIS-130-114
	MW-1203	5/28/97	6/11/97	70528WSGMW-1203	WEYERHAEUSER	82716	ARSENIC	7440-38-2
	MW-1301	5/28/97	6/12/97	70528WSGMW-1301	WEYERHAEUSER	82717	TPH AS DIESEL	68334-30-5
	MW-1301	5/28/97	6/12/97	70528WSGMW-1301	WEYERHAEUSER	82717	TPH AS MOTOR OIL	GIS-130-114
	MW-1301	5/28/97	6/11/97	70528WSGMW-1301	WEYERHAEUSER	82717	ARSENIC	7440-38-2
	MW-1302	5/28/97	6/12/97	70528WSWMW-1302	WEYERHAEUSER		TPH AS DIESEL	68334-30-5
	MW-1302	5/28/97	6/12/97	70528WSWMW-1302	WEYERHAEUSER	516.00 081 01.00 000 000 000 000 000 000 000 000	TPH AS MOTOR OIL	GIS-130-114
	MW-1302	5/28/97	6/11/97	70528WSWMW-1302	WEYERHAEUSER	82718	ARSENIC	7440-38-2
	MW-1501	5/28/97	6/12/97	70528WSGMW-1501	WEYERHAEUSER	82719	TPH AS DIESEL	68334-30-5
	MW-1501	5/28/97	6/12/97	70528WSGMW-1501	WEYERHAEUSER	(1997) - Contraction (1997)	TPH AS MOTOR OIL	GIS-130-114
	MW-1501	5/28/97	6/11/97	70528WSGMW-1501	WEYERHAEUSER		ARSENIC	7440-38-2
	MW-1701	5/28/97	6/12/97	70528WSGMW-1701	WEYERHAEUSER		TPH AS DIESEL	68334-30-5
	MW-1701	5/28/97	6/12/97	70528WSGMW-1701	WEYERHAEUSER		TPH AS MOTOR OIL	GIS-130-114
1	MW-1701	5/28/97	6/11/97	70528WSGMW-1701	WEYERHAEUSER	82720	ARSENIC	7440-38-2

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RESULT	UNITS	QUAL	QA_QUAL	LIMIT	DILUTION	FILTERED	ANAL_MTHOD	MATRIX	PRJ_NAME
0.000000		U		0.079		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.20		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.003		FALSE	EPA 200.9	11	Groundwater Compliance Monitoring, West Site
0.210000	MG/L			0.077		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.180000	MG/L			0.19		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.009000	MG/L	-		0.003		FALSE	EPA 200.9	11	Groundwater Compliance Monitoring, West Site
0.120000	MG/L			0.087		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.22		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.003		FALSE	EPA 200.9	11	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.077		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.19		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.045000	MG/L			0.003		FALSE	EPA 200.9	11	Groundwater Compliance Monitoring, West Site
0.250000	MG/L			0.077		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.19		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.003		FALSE	EPA 200.9	11	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.077		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.19		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.003		FALSE	EPA 200.9	11	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.077		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.19		FALSE	WTPH-D	10	Groundwater Compliance Monitoring, West Site
0.000000	MG/L	U		0.003		FALSE	EPA 200.9	11	Groundwater Compliance Monitoring, West Site

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PRI STA	STA ID	X LOCATION	Y_LOCATION	STPLNZONE	LO_DAT_U	LOC_DATUM	DEPT_WATER
	MW-1201	373554	1308299	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1201	373554	1308299	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1202	373747	1308193	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1202	373747	1308193	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1203	373901	1307959	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	and the second sec
	MW-1203	373901	1307959	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1301	373987	1307726	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	5.43
	MW-1301	373987	1307726	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1302	374038	1307514	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	and the second
	MW-1302	374038	1307514	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1501	373939	1306923	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1501	373939	1306923	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1701	372854	1308027	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	
	MW-1701	372854	1308027	N	1929	USC&G.S. BENCH MARK M-296, NGVD-1929	4.25

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UP_DEPTH	DEPT_UNITS	LOW_DEPTH	WTR_ELEV	AGENCY	SAMPLE_DAT	SAMP_TIME	SAMPLE_ID	FILTERED	ANAL_MTHOD
	FEET	18.00		ECOLOGY	5/28/97	1115			WTPH-D
8.00	FEET	18.00	3.23	ECOLOGY	5/28/97	1115		TRUE	EPA 200.9
6.00	FEET	18.00	5.76	ECOLOGY	5/28/97	1220		FALSE	WTPH-D
6.00	FEET	18.00	5.76	ECOLOGY	5/28/97	1220		TRUE	EPA 200.9
3.00	FEET	10.00	5.40	ECOLOGY	5/28/97	1245		FALSE	WTPH-D
3.00	FEET	10.00	5.40	ECOLOGY	5/28/97	1245		TRUE	EPA 200.9
3.00	FEET	10.00	6.12	ECOLOGY	5/28/97	1330			WTPH-D
3.00	FEET	10.00	6.12	ECOLOGY	5/28/97	1330			EPA 200.9
3.00	FEET	10.00	6.38	ECOLOGY	5/28/97	1350			WTPH-D
3.00	FEET	10.00	6.38	ECOLOGY	5/28/97	1350		TRUE	EPA 200.9
3.00	FEET	10.00	5.74	ECOLOGY	5/28/97	1430		FALSE	WTPH-D
3.00	FEET	10.00	5.74	ECOLOGY	5/28/97	1430			EPA 200.9
2.00	FEET	8.00	7.46	ECOLOGY	5/28/97			FALSE	WTPH-D
2.00	FEET	8.00	7.46	ECOLOGY	5/28/97	1030		TRUE	EPA 200.9

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MEAS ELEV	ELEV UNITS	MEAS_DESC	DATUM	MATRIX	SOURCE_COD	COLLECTMET	FIELD_PH	FIELD_COND	FIELD_TEMP
	FEET	TOP OF WELL CASING	NGVD-1929	10	23	29	6.36	and the second se	
15.43	FEET	TOP OF WELL CASING	NGVD-1929	11	23	29	6.36		
13.26	FEET	TOP OF WELL CASING	NGVD-1929	10	23	29	6.96		
13.26	FEET	TOP OF WELL CASING	NGVD-1929	11	23	29	6.96		
10.75	FEET	TOP OF WELL CASING	NGVD-1929	10	23	29	6.76		
10.75	FEET	TOP OF WELL CASING	NGVD-1929	11	23	29	6.76		
11.55	FEET	TOP OF WELL CASING	NGVD-1929	10	23	29	6.84	the second se	
11.55	FEET	TOP OF WELL CASING	NGVD-1929	11	23	29	6.84		
12.29	FEET	TOP OF WELL CASING	NGVD-1929	10	23	29	6.55		
12.29	FEET	TOP OF WELL CASING	NGVD-1929	11	23	29	6.55		
10.19	FEET	TOP OF WELL CASING	NGVD-1929	10	23	29	6.81	320	and the second se
10.19	FEET	TOP OF WELL CASING	NGVD-1929	11	23	29	6.81		
11.71	FEET	TOP OF WELL CASING			23	29	6.07	170	and the second se
11.71	FEET	TOP OF WELL CASING	NGVD-1929	11	23	29	6.07	170	16

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PURGE_METH	PURGE_VOL		COMMENTS
Р	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	
P	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	
P	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	
Р	3	Groundwater Compliance Monitoring, West Site	Sample_id = 70528WSGMW-1501
P	3	Groundwater Compliance Monitoring, West Site	
Ρ	3	Groundwater Compliance Monitoring, West Site	Sample_id = 70528WSGMW-1701