



(Formerly GROWTH/WRA)

SAN FRANCISCO DISTRICT

536 Stone Road, Suite J Benicia, CA 94510 (707) 745-0171 (707) 745-063 FAX

THIRD QUARTER MONITORING REPORT

PROJECT SITE

HILL LUMBER COMPANY 1259 BRIGHTON AVENUE ALBANY, CALIFORNIA

PREPARED FOR:

MR. RALPH HILL HILL LUMBER COMPANY 1259 BRIGHTON AVENUE ALBANY, CALIFORNIA

GROWTH Project # 94-157-1660

February 3, 1995



('Formerly CEC/WRA')
February 3, 1995

REF: 157-1660

Mr. Ralph Hill Hill Lumber Company 1259 Brighton Ave. Albany, CA 94706 (510) 525-1000

SUBJECT: THIRD QUARTER GROUNDWATER SAMPLING RESULTS FOR THREE

MONITORING WELLS LOCATED AT 1259 BRIGHTON AVENUE,

ALBANY, CALIFORNIA.

Dear Mr. Hill:

Enclosed is a copy of the third quarter groundwater monitoring results from the January 31, 1995 sampling of monitoring wells, MW-1, MW-2, and MW-3, (Formerly Piezometer 3), located at 1259 Brighton Avenue, Albany, California. Three samples were collected from the three monitor wells and analyzed for TPH-D, TPH-G, and BTEX. The laboratory results were Non-detectable for TPH-G, and BTEX for Monitor wells MW-1, MW-2, and MW-3. A trace amount of TPH-D, (52 ppb) was found in MW-1 only. The sampling results revealed non-detectable levels of TPH-D in MW-2, and MW-3 a decrease of TPH-D in MW-1 of 78 ppb, and for both wells.

The next quarterly sampling is scheduled for April 31, 1995. If you have any questions in regard to this report, please call GROWTH at (707) 745-0171.

Respectfully,

James H. Robbins

Project Manager

Enclosure:

cc: Susan Hugo, Alameda County Health Agency

Dale Hudson, Albany Unified School District Gregory Mix, Land Planning Consultants, Inc

Sang-Jin Nam, Lozano Smith Smith Woliver & Behrens

Alberta Steele

Jerome Blank Realty Richard J. Breitwieser

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WESTERN RECION 536 STONE ROAD, SUITE J BENICIA, CA 94510 (707) 745-0171

(707) 745-0163 FAX

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1.0 INTRODUCTION

1.1 Site location and description

The site is located at 1259 Brighton Avenue, Albany, California (see Figure 1). El Cerrito Creek is approximately 350 feet north of the assessment site, and San Francisco Bay is located approximately one-mile to the west. The site is situated adjacent to the BART line tracks and path way to the west. The assessment site is currently occupied by the City of Albany Corporation and contains two monitoring wells and one piezometer, (See Figure 2).

1.2 Background

The assessment site was used as a lumber yard and retail lumber store since 1922.

From the 1930's to the 1950's, the lumber yard operated a 500-gallon underground leaded gasoline tank located in the loading dock area adjacent to the east side of the building.

From the 1950's to 1991, Hill Lumber maintained a 1,000-gallon underground gasoline tank located below the sidewalk adjacent to Brighton Avenue.

On April 17, 1991, SEMCO, Inc., of Modesto, California, removed both tanks. TPH-G concentration levels below the 500-gallon tank ranged between 210 to 890 ppm. TPH-G concentration levels below the 1,000-gallon tank ranged between 2 and 3,700 ppm. The excavations were backfilled to grade with pea gravel and repaved.

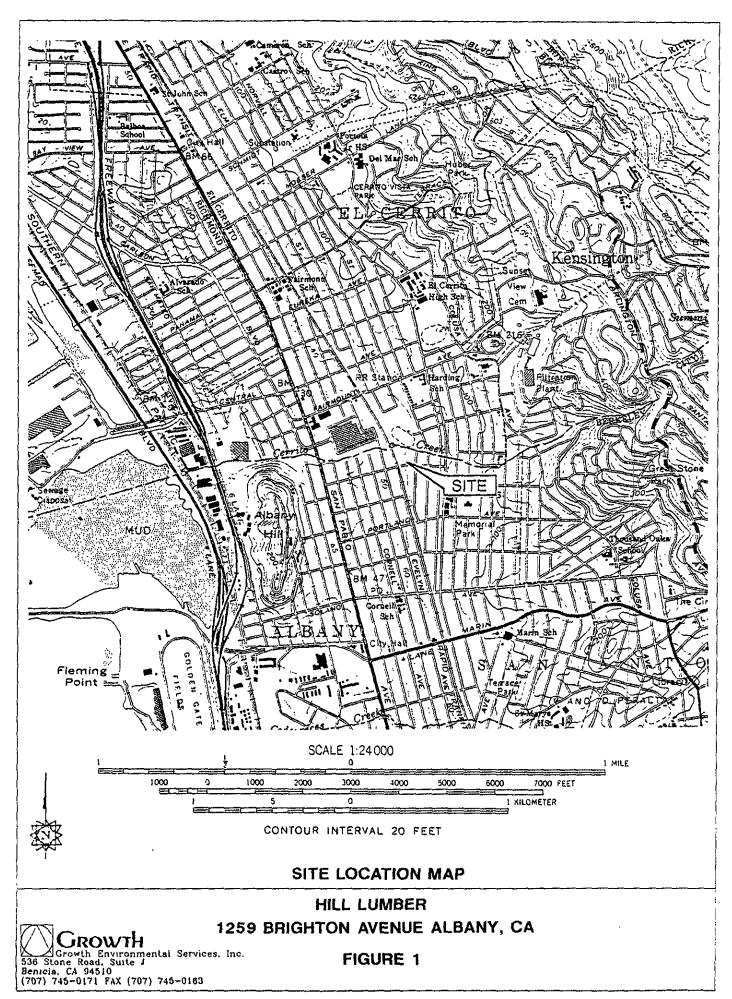
On July 11, 1991, Certified Environmental Consulting, Inc. (GROWTH), drilled 4 borings within approximately 10 feet of the tank excavations. GROWTH concluded that the soil contamination was limited to 2 small areas extending approximately 2 to 4 feet around each tank. GROWTH collected an uncased water sample from the area of the former 1,000-gallon tank. The water sample revealed the presence of TPH-G (2,925 ppb) and Benzene (59 ppb).

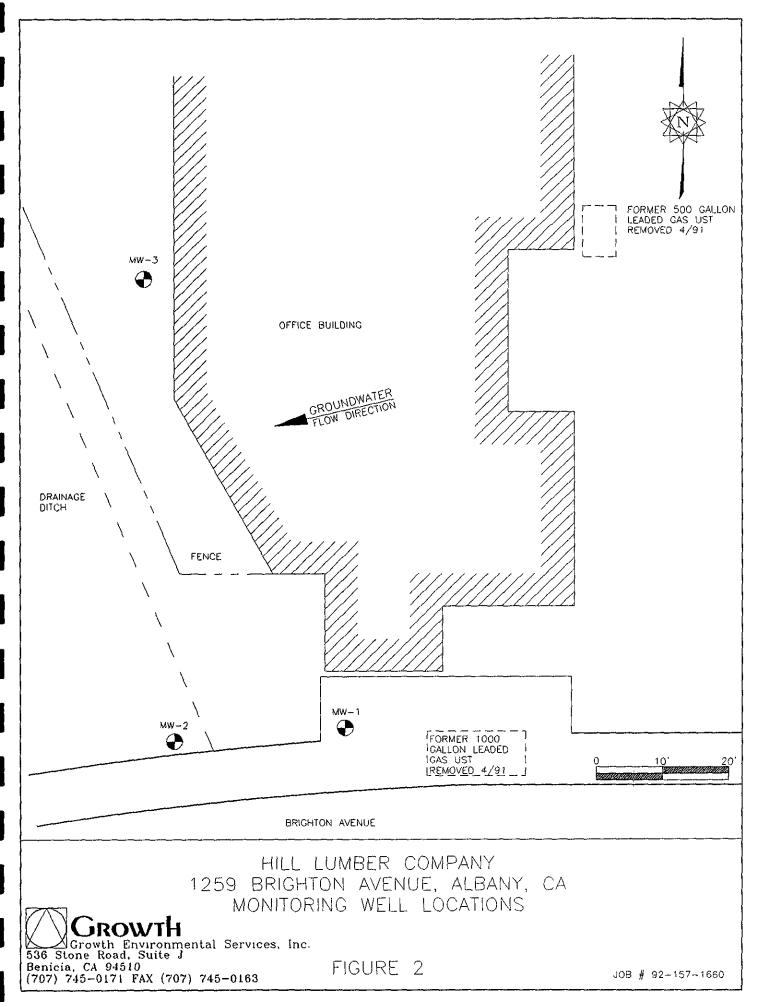
On June 17, 1992, GROWTH submitted a work plan for monitoring well installation and remediation at the assessment site.

On September 17, 1992, GROWTH submitted a soil remediation report. The report indicated that the contaminated soil was successfully removed, with the exception of small amounts of inaccessible contaminated soil below the warehouse and office building foundations, a gas line on Hill Lumber property, and below a buried water conduit on BART property. Monitoring wells were not installed at the assessment site.

On November 17, 1992, GROWTH submitted a letter to Ms. Susan Hugo, of the Alameda County Health Agency, indicating the results of the stockpile sampling at the site.

On March 3, 1993, GROWTH submitted a letter to Mr. Ralph Hill indicating that the stockpiled soil was no longer considered hazardous.





On July 14, 1994, GROWTH (formerly GROWTH/WRA) submitted a report on the installation of two monitoring wells, and one piezometer at the assessment site. The laboratory analysis indicated non-detectable results for TPH-G, and BTEX; however, trace levels (110 ppb) of TPH-D were registered in MW-1.

On October 20, 1994, GROWTH submitted a Second Quarter Monitoring report. In that report GROWTH noted a slight increase of TPH-D in MW-1, (130 ppb), and a minor amount in MW-2, (93 ppb). GROWTH recommended that Piezometer MW-3 be included in the next round of sampling, due to detection of TPH-D in monitoring well MW-2.

1.3 GEOLOGY AND HYDROGEOLOGY

Geology

The site rests on Quaternary Holocene younger alluvium deposits (Qa), consisting of unconsolidated, moderately sorted, sand and silt, with sandy silty clays down to approximately 18.0 feet. Underlying the younger alluvium at a depth of approximately 18 to 25 feet are undivided bedrock units (TKJu) of Tertiary, Cretaceous, and Jurassic age. These units consist of highly weathered, highly fractured, and friable sandstone and shale.

Hydrogeology

The site is located within the East Bay Plain. The East Bay Plain covers an area of approximately 114 square miles. Two types of geologic units are found in the East Bay Plain: Consolidated rocks ranging in age from Jurassic to Tertiary; and unconsolidated deposits of Pleistocene and Holocene age. The consolidated rocks are more than 10,000 feet thick. The unconsolidated deposits are a maximum thickness of approximately 1,100 feet.

The groundwater basin of the East Bay Plain consists of a random sequence of sand and gravel aquifers interspaced with clay and silt aquicludes. The inferred Groundwater direction is to the west-northwest, towards the direction of the San Francisco Bay. Groundwater was encountered below the assessment site at a depth of approximately 10.5 feet below grade surface (bgs).

Source:

Preliminary Geologic Map of the Richmond Quadrangle, Alameda, and Contra Costa Counties, California. Dibble, Jr., 1980.

1.3 GEOLOGY AND HYDROGEOLOGY

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2.0 GROUNDWATER SAMPLING

2.1 GROUNDWATER ELEVATION MEASUREMENTS

Groundwater elevations were measured for wells MW-1, MW-2 and MW-3 on January 31, 1995. The static groundwater elevation was recorded on Sample Event Data Sheets for the January quarterly sampling and are presented in Appendix A.

The sampling and the calculation of the groundwater flow direction were derived from the January 31, 1995 readings. Groundwater elevation data is shown on Figure 2. The groundwater flow direction remains towards the southwest. The hydraulic gradient was calculated at 0.020 feet per foot. The water level rose an average of 1.29 feet since the second quarter measurements taken in October of 1994.

Water level measurements will be collected during the next sampling event to monitor any fluctuations in groundwater flow direction and gradient. Table 1 contains the monitor well elevations, static water levels and groundwater surface elevations.

2.2 MONITORING WELL SAMPLING

Monitoring Wells MW-1, MW-2, and MW-3, were sampled on January 31, 1995. The wells were sampled after purging at least three well casing volumes from the well and allowing the water level to recover to at least 80% of the original static level. Temperature, electrical conductivity, and pH were monitored during purging to verify that water had been removed from well casing storage and that well water was representative of the aquifer. The sampling event data sheets are presented in Appendix A.

Samples were collected using disposable teflon bailers at each well location. Each of the water samples were contained in three 40-milliliter VOA vials for TPH(G) & BTEX analysis, and one 1-liter amber bottle, for TPH(D) analysis. The samples were labeled and stored on ice until delivered, under chain-of-custody procedures, to McCampbell Analytical, Inc. of Pacheco, California, a State-certified analytical laboratory. Sample MW-1, MW-2, and MW-3 were analyzed for total petroleum hydrocarbons in the gasoline range (TPH-G) and for benzene, toluene, ethylbenzene, and xylenes, (BTEX) using GCFID 5030/EPA Method 8015/8020 and total petroleum hydrocarbons in the diesel range (TPH-D) using GCFID 3550/EPA Method 8015.

TABLE 1

Groundwater Elevation Data January 31, 1995 1259 Brighton Avenue, Albany, California

WELL	WELL DIAMETER (Inches)	TOP OF CASING (Feet)	DEPTH TO WATER (Feet)	STATIC WATER LEVEL (Feet)
MW-1	2	61.77	8.03	53.74
MW-2	2	61.37	8.15	53.22
MW-3	2	60.47	6.91	53.56

3.0 ANALYTICAL RESULTS

3.1 MONITORING WELL SAMPLING ANALYTICAL RESULTS

Historical and current analytical results of the January 1995 sampling are included in Table 2. The laboratory analytical data sheets and chain-of-custody records for the January sampling are included as Appendix A. The detection limits for TPH-G and TPH-D analyses are 50 ug/L (ppb) and for the BTEX analysis 0.5 ug/L.

The analytical results for MW-1, MW-2, and MW-3 revealed minor levels of TPH-D, (52 ppb) in MW-1. All three wells revealed no detectable concentrations of TPH- G and Benzene. The analytical results indicated a 78 ppb decrease in TPH-D for MW-1, and a 93 ppb decrease for MW-2.

TABLE 2

Historical and Current sampling results for Hill Lumber Company

WELL	SAMPLE	TPH-Diesel	TPH-Gas	Benzene	Toluene	Ethyl Benzene	Xylene
NUMBER	DATE	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1	7/13/94	110	ND	ND	ND	ND	ND
	10/10/94	130	ND	ND	ND	ND	ND
	1/31/95	52	ND	ND	ND	ND	ND
MW-2	7/13/94	ND	ND	ND	ND	ND	1.0
	10/10/94	93	ND	ND	ND	ND	ND
	1/31/95	ND	ND	ND	ND	ND	ND
MW-3	7/13/94	ND	ND	ND	ND	ND	ND
	10/10/94	NT	NT	NT	NT	NT	NT
	1/31/95	ND	ND	ND	ND	ND	ND
*California Department of Health Services primary maximum contamination level for drinking water.		None Listed	None Listed	1.0	1000	680	1750

^{*} Marshall, J.B., 1989, A Compilation of Water Quality Goals, Staff Report of the California Regional Water Quality Control Board, Central Valley Region, 15 p.

ND = Non-detectable levels

NT = Not Tested

4.0 RECOMMENDATIONS

Continued quarterly monitoring of wells MW-1, MW-2, and MW-3 is recommended. Analytical results for monitoring well MW-1 continue to show a decrease of TPH-D. MW-2 TPH-D levels show non-detectable readings. All three wells continue to display non-detectable readings for TPH-G, and BTEX. The TPH-D readings are considered trace detection levels. GROWTH recommends that sampling of all three wells continue into the fourth quarter.

5.0 SCHEDULE OF ACTIVITIES FOR NEXT QUARTER

5.1 GROUNDWATER ELEVATION MEASUREMENT

The on-site wells will be sounded and the groundwater levels will be used to calculate the groundwater gradient and flow direction for each quarter. Water samples will again be taken along with water level measurements. The hydraulic gradient will also be calculated for the month of April 1995, and will be presented in the next quarterly report.

5.2 QUARTERLY SAMPLING

The next quarterly sampling event will occur the fourth week in April, 1995. The quarterly report will present the results of the April sampling and the groundwater gradient calculations.

6.0 LIMITATIONS

This report has been prepared in accordance with generally accepted environmental, geological and engineering practices. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analysis, conclusions and recommendations contained in this report are based upon site conditions as they existed at the time of the investigation and they are subject to change.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this report. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users and any use or reuse of this document or its findings, conclusions or recommendations presented herein is at the sole risk of said user.



Rafael L. Gallardo
Project Geologist

Stanley 1. Klemetson, Ph.D., P.E.

Director of Engineering

P.E. No. 40087

APPENDIX A

ANALYTICAL DATA SHEETS
AND
CHAIN-OF-CUSTODY RECORDS
FOR MONITORING WELL SAMPLING
JANUARY 31, 1995

SAMPLING EVENT DATA SHEET

(fill out completely)

	WELL OR LOCATIONMW-1									
PROJECT_Hill Lun	nber EV	ENT 3rd Quar	terSAMF	LER <u>Gall</u> a	ırdo	DATE	+31-95			
Weil / Hy	drologic statisti	CS	Actio	20	Time	Pump rate	[WL (low yield)			
		w, etc.)	Start pump) / Begin 1	1:03	84 HZ				
SWL — SWL — (if above screen) packer intake (circle and)	- d - { diamete	Stop Sampled (Final IWL)								
bailer depth (circle one) — SWL— (if in screen) measured 27.30 T.D.	1 28	BOP	S p	. * 19 3 ft. • WL to 30P or acker to 80P	3 15 one volum e calcu	purine lation (Airliff gals.	3 casings			
Equipment Used / San - SWL Taken at ! - GrunDFes BMI/! - Generator (ref - Hydac - 1 Disposable ! - 30' Tubing	9:20 am MPI 2" submented)			Actual gallo Actual volui Well yield (see below) COC # Sample I.	mes pur	ged	.0 Hy Lab			
Additional comments: - Nothing unusus - Good producer										
Gailons purged *	TEMP 3C /3F (circle ane)	EC (us/cm)	PH	TURBIDIT (UTU)	Y HE	AD (FT)	TIME			
1. 3	62.5	430	4.97	N/A		8.05	@ 11:10			
2. 6	62.7	460	4.86	N/A	{	3.425	0 11:20			
3. 10	64.3	480	5.10	N/A	8	3.10	@ 11:30			
4.						3.025	@ 11:36			
 Take measurement at approximately each casing volume purged. 	⊕ <u>HY-</u> Minimal W,L. drop		ing one sitting pumo rate or	LY - Abie to p volumes later or n	by return	ning ur	nimal recharge - nable to purge volumes.			

SAMPLING EVENT DATA SHEET (fill out completely)

	WELL OR LOCATION											
PROJECT Hill L	PROJECT Hill Lumber EVENT 3rd Quarter SAMPLER Gallardo DATE 1-81-95											
Well / Hy	drologic statistic	CS.	Actio	or III	ne Pumb rat	e <u>LWL</u> (low yield)						
	Well typ (MW, E		Start pump)/Begin 9:	48							
	(14144, C	**, 9(0.)										
1 1												
L	d - { diamete	211										
8.15	diamete); 										
- SWL	equals	gal/ft. casing										
(if acove screen)			Stop			<u></u>						
packer)			Sampled		y - ^ : .							
ligtake (ft.)	<u> </u>		(Final IWL)									
bailer depth (circle one)		гор	(1) (1)									
			Purge calculation 163 gal/ft. 191 ft. = 3.1 gals x 3 = 9.3 gals.									
			-163 gavit	· <u>191</u> ft. = -	3.1 gals x 3 = 3	gais.						
(if in screen)	0.000.00	<u></u>		WL to BOP of		irge volume-						
(II III 2019aii)	i i		ρ	acker to BOP	valume	3 casings						
	7////	BOP	a di bana . Ti		alculation (Airli	tonly)						
measured 27.15	//// 28		gal/	gal/ft: ft. = gals								
T.D. 27.13	/////	T.D. (as built)		packer to SWL								
				1								
Equipment Used / San	ubling wethod i ne	escaption of Even	:	Actual gallons	purged	0.3						
arry to to be a fine	17			Actual volume	e nurged	; }						
SWL takèn @ 9:	1/ am			Actual volume	s parged	-MY						
- GrundFos BMI/	MPT 2" subme	rsible set @	89 Hz (rent	eWell yield	⊕ —	· · · · · · · · · · · · · · · · · · ·						
- MQ Multi Quip				(see below)	_	;						
- Hydac	•	·										
- 2 Tyvac Glove	S			COC #	Andreia	Lab						
- 28' Tubing				Sample I.D.								
- 1 Disposable	Bailer and Ti	p	<u> </u>	MW-2	TPH-D	McCampbell						
Additional comments:					TPH-G							
Well head was un	- =	ell case was	bailed		BTEX	. <u></u>						
brior co barging	, •			<u> </u>								
- overcast (fogg	y) 62 F											
- The ground sur	face was very											
- Water running	TEMP C/3F	1	=	<u>. </u>	I							
Gallons purged *	(circle one)	EC (us / cm)	PH	TURBIDITY (NTU)	ł	HEAD (Ft)						
+ 20	64.5	730	4.02	N/A	9:53	12,30'						
1. 3.0						12.45'						
2. 6.0	64.6	700	4.03	N/A	10:04							
3. 9.3	69	880	4.06		10:14	12,39'						
4.				!	@10:15	10.40'						
5.	1	<u> </u>			@10:30	8.31						
						أ محمدهما أ						
Take measurement at	⊕ HY- Minimal	MY - WL drop - ap		LY - Abie ta pur		inimal recharge -						
Take measurement at approximately each	⊕ HY- Minimal W.L. drop		ng ane sitting	LY - Able to pur volumes by later or nex	returning	nacie to purge volumes.						

SAMPLING EVENT DATA SHEET (fill out campletely)

WELL OR LOCATION MULS										
PROJECT_Hill Lur	mber EVE	NT <u>3rd Quarte</u>	SAMP	LER <u>Ga</u> l	lardo	DATE <u>l-</u>	31-95			
Well / Hy	drologic statistic	:S	Actio	o.	IIme	Pump rate	[WL (low yield)			
	Well typ (MW, E	e <u>Piezomete</u> r W, etc.)	Start pump	/ Begin	12:55	77Hz				
swl	- d - { diamete	rgal/ft. casing								
(if above screen)	(equals_	gaut. Casing	Stop Sampled (Final IWL)							
bailer depth (circle one) SWL (if in screen)		FOP	S' p:	• 20.646 WL to 80P acker to 80	ar ane P valu	calculation 4 gals x 3 = 10.1 gals. blume 3 casings				
measured 27.55 T.D.		F.D. (as built)	Head purge calculation (Airlift only) gal/ft: ft. = gals. packer to SWL							
Equipment Used / San - SWL Taken @ 9 - 2" GrundFos s - Hydac - Generator - 2 Gloves - 35' Tubing	:15 am		οx	Actual ga Actual vo Well yield (see belo COC Samole	lumes pu t ⊕ w)	rged3				
Additional comments: - Sun Partiall - Frequency of order to dra - Sample taken	pump was cha in water out	of well.	imes in							
Gallons purged *	TEMP °C /°F (circle one)	EC (µs / cm)	PH	מופאטד נטדא)		AD (Ft)	TIME			
1. 3.3	67.7	890	4.3	N/A		12.4	1:03			
2. 3.3	67.9	850	4.4	N/A_		14.6	_1:16			
3. 3.4	68.4	890	4.7	N/A		16.35	1:25			
4.						14.20	1:45			
5.						13.05	1:55			
* Take measurement at approximately each casing volume purged.	⊕ <u>HY-</u> Minimal W.L. drop	MY - WL drop - able volumes during by reducing pure cycling gume.	one sitting		o purge 3 es by retu r next day	rning ur	nimal recnarge - labie to purge volumes.			



CHAIN OF CUSTODY RECORD
Laboratory Analysis P.O. No. 1342
Laboratory: Please Call Accounts Payable for P.O. No.

536 Stone Rund, Ste. J., Benlela, CA 9451B-1016

Ofc. (707) 745-0171 (80X) 228-0171	Fax. (707) 7	45-0163											<u> </u>	ulc_	Sheet of
					mele	ıs								_	1 ab Name
Project Number: Hill LumBER Project Name:				\$015/802d				-	- }					- {	Address
Address: 1257 BS/6570N AV	<u> </u>			50	•		<u></u>	- 1	<u></u>	anic)	ļ				Phone Number
Sampler's Name		Gasoline 3015	2			5520	(8010)		Pr. Pollutanı Metais (13)	Base/New/Acids (Organic)	8141			ફ	Turnaround Time
Sampler's Signature	KDU_	ii	as Diesel 8015	TPH-G and B.T.E.X.	22		Volitile Organics	CAM Metals (17)	X.	S	8140/8141			(Soul/Water)	
Sampler's Signature		Seg	Sics) pa	ni) 왕	ireas	5	(c:s)	Ë	Z Z	- 1			S	Rush 24 Hoor 48 Hoor 5-Day
		R	1 25	3-5 2-5	B.TX.& E 8020	Oil and Grease	Ę	<u>ک</u>		Š	Pesacides			Maurix	Report to:
Sample Location Date	Time	H. H.	HEL	Ŕ	щ Ц	Ö	Vol	ঠ	£	Bas	P.S.		4	Σ	Comments
' MW-/ /-3/-3	5-		X	X									, ——, , —— , —— , · · · · · · ·	<u>w</u>	43971
MW-2 1-3/42			\times	\times				}						씯	43972
Mw.3 1-31-2	<u>s - </u>		X	25					 					W	
]	-}					}]				<u> </u>		43973
			-									 			
			-					-	}				\		
		VOAS	lo z c	LIVER IN	ielm	100		<u> </u>		<u> </u>		-			<u></u>
ICE/T'	HESERVATI	VE Z		110,510			-								
GOOD CONDITION	A PPRUPALA														
HEAD SPACE ABSENT	CONTAINER	S_ X _	.]	.]	ļ		.]	.]	.]		.]			
				<u></u>	<u> </u>	L	.	1		}		<u></u>	Ilital Number of		<u> </u>
Rehispitated Hy Date	Time		sceive	11 13 y	—		.).itc 			Time		Containers This St	heet	!
That Hallade 1-31-9	3:25 0	1. Hou	di.	P	rici	۷.	1-3	3/-9	75	3	:25	- Dh	Method of Shipn	není	
Tryling 11		2	1.4, -4	-									Special Shipment		
							1						or Storage Requir		
Disperienced By Date		Receiv				<u></u>):rte		-	Tine				
Date	Tine		ra in i	2111 853				7.TIC		-	1100				
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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Growth Envir	onmental Services		Client Projec	t ID: # 15	7-1660; H:	III Date San	blcq. 01/31	/95	
536 Stone Ro	ad, Ste. J		umber		Date Rec	Date Received: 01/31/95			
Benicia, CA	94510-1016	C	Client Contact	: Rafael Ga	Date Ext	Date Extracted: 01/31/95			
		C	Client P.O: 134	12	Date Ana	ılyzed: 01/3	1/95		
EPA methods 50	Gasoline Rang 30, moduled 8015, and	ge (C6-C 8020 or 60	12) Volatile H 12; California RW	(ydrocarbon 'QCB (SF Bay	is as Gasoli Region) meth	ne*, with B od GCFID(50	TEX*		
Lab ID	Client ID	Matrix		Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate	
43971	MW-I	w	ND	ИD	ND	ND	ND	101	
43972	MW-2	w	ND	ND	ND	ND	ND	96	
43973	43973 MW-3		ND	ND	ND	ND	ND	94	
								,	
									
	imit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5		
wise stated: ND means Not Detected		S	1.0 mg/kg	0.005	0.005	0.005	0,005		

Edward Hamilton, Lab Director

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immissible phase is present.

OTESTERADA COMPANIO EL COLO MARANDO

McCAMPBELL ANALYTICAL INC. 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Growth Environmental Services				ent Project ID: #157-1660; Hill	Date Sampled: 01/31/95			
536 Stone Ro	ad, Ste. J	 	Lur	mber	Date Received: 01/31/95			
Benicia, CA	94510-1016	Ì	Clic	ent Contact: Rafael Gallardo	Date Extracte	d: 01/31/95		
		Ì	Clie	ent P.O: 1342	Date Anafyzeo	i: 01/31/95		
EPA methods m	Diesel Foodified 8015, and 3550	Cange (or 3510;	C10	-C23) Extractable Hydrocarbons as forms RWQCB (SF Buy Region) method GC	Diesel * FID(3550) or GCE	FID(3510)		
Lab ID	Client ID	Matri]	TPH(d) ⁺		% Recovery Surrogate		
43971	MW-1	w		52,6		105		
43972	MW-2	W		ND		103		
43973	MW-3	W		ND		104		
1					_			

		}						
	imit unless other-	w		50 ug/L				
wise stated: ND means Not Detected		S		10 mg/kg				

DHS Certification No. 1644

Edward Hamilton, Lab Director

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on clevated baseline

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern, c) modified diesel?; light(c_L) or heavy(c_H) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant, h) lighter than water immiscible phase is present.