February 17, 2000 G-R Job #280036

Mr. Robert A. Boust Unocal - DBG/AMG 2121 North California Boulevard, Suite 250 Walnut Creek, California 94596

RE:

First Quarter 2000 Groundwater Monitoring & Sampling Report

Former Unocal Service Station #2512

1300 Davis Street San Leandro, California

Dear Mr. Boust:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On January 18, 2000, field personnel monitored and sampled four wells (MW-3, MW-7, MW-8, and MW-9) at the above referenced site.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1, 2 and 3. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

No. 6676

Sincerely,

Deanna L. Harding

Project Coordinator

Barbara Sieminski

Project Geologist, R.G No 6676

Figure 1:

Potentiometric Map

Figure 2:

Concentration Map

Table 1

Groundwater Monitoring Data and Analytical Results

Table 2

Groundwater Analytical Results

Table 3.

Groundwater Analytical Results - Oxygenate Compounds

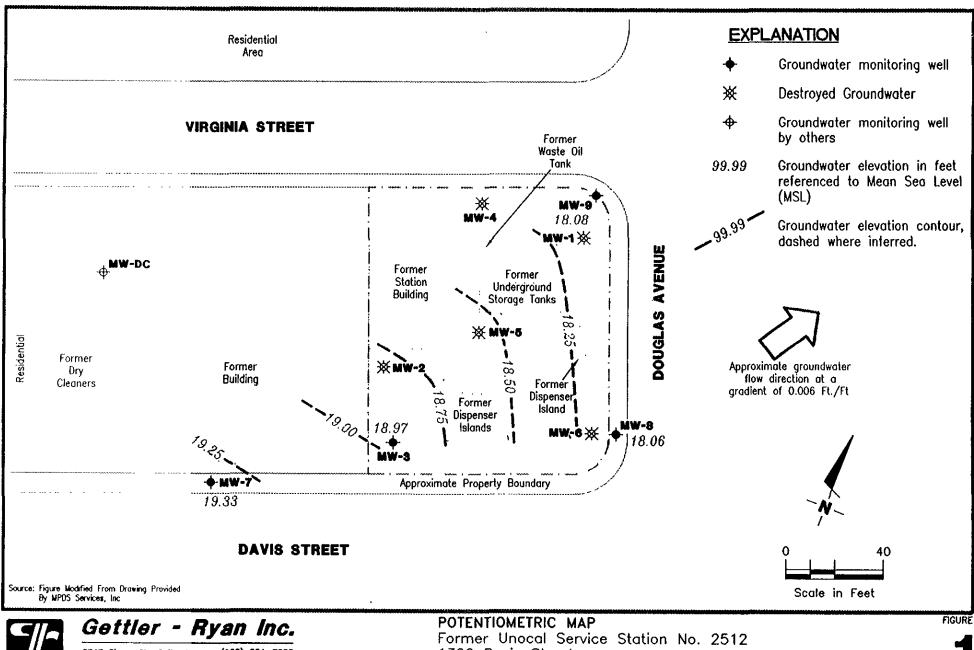
Attachments

Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

2512 gml





6747 Sierra Ct., Suite J (925) 551-7555 Dublin, CA 94568

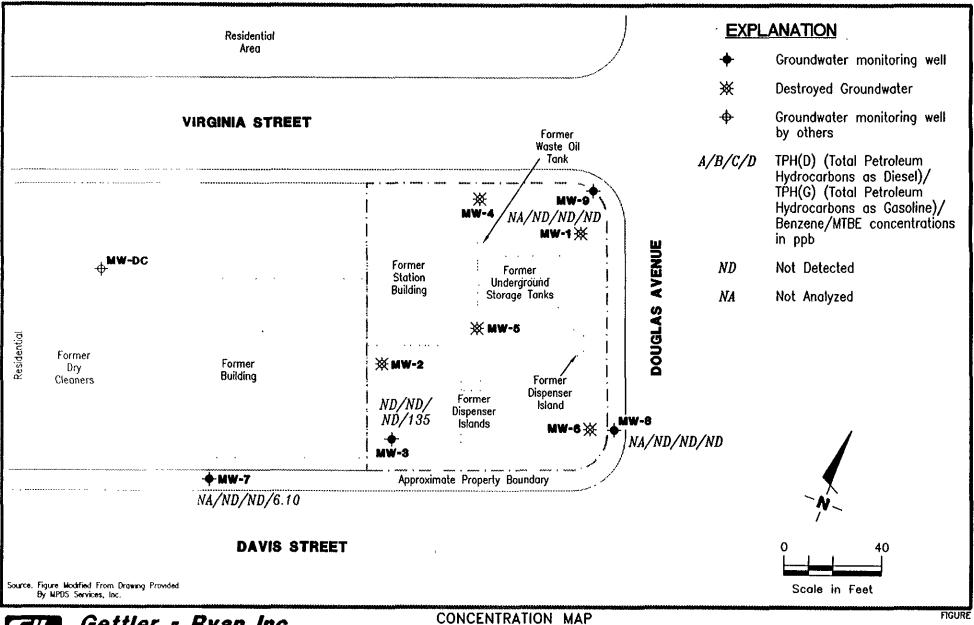
1300 Davis Street San Leandro, California

REVISED DATE

JOB NUMBER 280036

REVIEWED BY

January 18, 2000





## Gettler - Ryan Inc.

6747 Sierra Ct. Suite J **Dublin, CA 94568** 

(925) 551-7555

Former Unocal Service Station No. 2512 1300 Davis Street

San Leandro, California

REVISED DATE

JOB NUMBER 280036

REVIEWED BY

January 18, 2000

## **Table 1 Groundwater Monitoring Data and Analytical Results**

Former Unocal Service Station #2512

1300 Davis Street

				Product						. – – – – – – – – – – – – – – – – – – –		
Well ID/	Date	DTW	GWE	Thickness	TPH(D)	TPH(G)	В	T	E	X	MTBE	TOG
TOC*	······································	(ft.)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
MW-1	04/25/89				100	ND	0.31	ND ·	ND	ND	***	
	08/10/89	<b>21.0</b>			ND	ND	ND	ND	ND	ND		ND
	11/21/89				ND	ND	ND	ND	ND	ND		8.9
	02/23/90			<u></u>	ND	ND	ND	ND	ND	ND		ND
	05/10/90				ND	ND	ND	ND	ND	ND		ND
	08/09/90	77			ND	ND	ND	ND	ND	ND		ND
	11/06/90			<del></del>	ND	ND	ND	ND ND	ND	ND		ND ND
	02/04/91		 		ND	ND ND	ND	0.31	ND ND	0.62		ND
	05/24/91					ND	ND ND	ND	ND	. ND		ND
	08/15/91					ND	ND	ND 				
100-00	09/18/91	17.88	82.12	0.00								
100 00	10/15/91	18.17	81.83	0.00		70						
	11/19/91	17.48	82.52	0.00								
32 69	02/27/92	15.36	17.33	0.00								
32 07	03/27/92	15.53	17.16	0.00								
	()4/27/92	15.68	17.10	0.00								
	05/26/92	15.90	16.79	0.00								
	06/23/92	16.25	16.44	0.00								
	07/24/92	16.54	16.15	0.00								
	10/30/92	16.58	16.13	0.00								
	06/09/94	15.22		0.00		580 <sup>t</sup>	ND	 ND	 ND	ND		
	09/08/94	15.81		0.00		$160^{2}$						
	01/25/95	DI STROYED		0.00			ND 	1.6 	ND 	3.1		
MW-2	04/25/89	<b></b>		***	ND	32	0.35	ND	ND	ND		
	08/10/89				ND	ND	ND	0.39	ND	ND		ND
	11/21/89				ND	48	ND	0.51	ND	ND		1.6
	02/23/90				ND	44	ND	ND	ND	ND		ND
	05/10/90				ND	43	ND	1	ND	ND		ND
	08/09/90				ND	ND	ND	ND	ND	ND		ND
	11/06/90				ND	ND	ND	0.42	ND	1.4		ND
	02/04/91				ND	ND	ND	0.38	ND	0.87		ND
	05/24/91					ND	1.5	ND	ND	ND		ND
	08/15/91	₩=				ND	ND	ND	ND	ND		ND
100-32	09/18/91	18.48	81.84	0.00								

Table 1 **Groundwater Monitoring Data and Analytical Results**Former Unocal Service Station #2512

1300 Davis Street

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	МТВЕ <i>(ppb)</i>	TOG (ppm)
MW-2	10/15/91	18.75	81.57	0.00				<b>-</b> -	~~			
(cont)	11/19/91	18.01	82.31	0.00		220	2.5	8.4	2.4	14		
33 04	02/27/92	15.40	17.64	0.00		330	12	12	10	93		
27.01	03/27/92	15.61	17.43	0.00								
	04/27/92	15.96	17.08	0.00								
	05/26/92	16.30	16.74	0.00		2,900	8.8	9.3	54	36		
	06/23/92	16.76	16.28	0.00		<b>2</b> ,>00						
	07/24/92	16.66	12	0.00		<del></del>					••	
	10/30/92	17.38	12	0.00		$1,200^{1}$	ND	ND	ND	ND		
	06/09/94	15.48		0.00		1,900 <sup>2</sup>	6.7	ND	66	ND		
	09/08/94	16.22		0.00		$3,000^{1}$	ND	ND	ND	17		
	01/25/95	DESTROYED			~~					<del></del>		
MW-3	04/25/89			•••	5,700	56	ND	ND	0.31	0.49		
104 17 5	08/10/89	70			860	3,200	73	140	35	240		ND
	11/21/89				110	1,900	ND	ND	ND	ND		3.8
	02/23/90				350	ND	0.32	ND	ND	ND		1.3
	05/10/90				850	6,200	94	460	160	540		2.8
	08/09/90				500	1,900	56	140	140	31		ND
	11/06/90				940	16,000	820	1,500	2,200	770		ND
	02/04/91	<del></del>				LED DUE TO						
	05/24/91				2,000	23,000	940	3,400	590	2,600		ИD
	08/15/91					LED DUE TO						
100-03	09/04/91	17.97	82.08***	0.03								
	09/18/91	18.38	81.73***	0.10							~~	
	10/02/91	18.50	81.65***	0.16								
	10/15/91	18.59	81.62***	0.24	~=							
	11/05/91	17.75	82.49***	0.27								
	11/19/91	17.87	82.36***	0.26	NOT SAMP	LED DUE TO	THE PRE	SENCE OF F	REE PROD	UCT		<b></b>
32 73	02/27/92	14.98	17.82**	0.09		LED DUE TO						
	03/12/92	14.94	17.79	0.00								
	03/27/92	15.12	17.61	0.00								
	04/13/92	15.17	17.56	0.00								
	04/27/92	15.58	17.17**	0.02								
	05/11/92	15.84	16.92**	0.04								

# Table 1 Groundwater Monitoring Data and Analytical Results

Former Unocal Service Station #2512 1300 Davis Street

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-3	05/26/92	16.06	16.76**	0.12	2,400,000	1,300,000	5,100	66,000	20,000	160,000		880
(cont)	06/09/92	16.29	16.46**	0.03							<del></del>	
	06/23/92	16.52	16.26**	0.06								
	07/06/92	16.60	16.24**	0.14	***							
	07/24/92	INACCESSIBLE									~~	
	10/30/92	17.08	12	0.07	NOT SAMP	LED DUE TO	THE PRES	SENCE OF F	REE PROD	UCT		
	06/09/94	14.74		0.00	$17,000^3$	69,000	1,300	7,100	1,900	11,000		
	09/08/94	15.54		Sheen		LED DUE TO						
32 02	10/05/95	14.86	17.16	0.00	<b>**</b>							
	10/21/95	14.98	17.04	0.00	$5,900^3$	50,000	250	4,200	1,700	18,000	5	
	01/24/96	13.15	18.87	0.00	$5,300^3$	100,000	950	3,300	2,500	16,000	6	
	04/23/96	13.11	18.91	0.00	$4,900^3$	50,000	430	1,700	1,600	7,600	ND	
	07/25/96	14.40	17.62	0.00	2,400 <sup>4</sup>	17,000	170	ND	650	3,300	240	
	10/25/96	15.33	16.69	0.00	3,700 <sup>4</sup>	26,000	420	1,100	1,800	6,400	340	
	01/28/97	11.55	20.47	0.00	$3,900^3$	32,000	230	1,000	1,000	4,500	ND	
	04/16/97	12.05	19.97	0.00	$3,100^3$	12,000	76	ND	330	1,600	ND	
	07/21/97	15.17	16.85	0.00	$2,400^3$	10,000	82	28	430	1,400	76	
	10/20/97	15.41	16.61	Sheen	$2,900^{4}$	12,000	200	540	1,400	4,600	210	
	01/21/98 <sup>t0</sup>	11.59	20.43	0.00	$3,700^{7}$	25,000	170	640	1,200	4,800	ND <sup>8</sup>	
	04/17/9810	12.46	19.56	0.00	3,400	25,000	980	1,400	5,800	ND <sup>8</sup>	ND <sup>8</sup>	
	$07/14/98^{10}$	13.43	18.59	0.00	$1,100^{11}$	6,200	76	ND <sup>8</sup>	550	810	ND <sup>8</sup>	
	10/12/98 <sup>10</sup>	14.60	17.42	0.00	42013	1,600	28	$\mathrm{ND}^8$	28	81	$ND^8$	
	$01/19/99^{10}$	12.97	19.05	0.00	870 <sup>15</sup>	$27,000^{14}$	18	$ND^8$	48	69	ND <sup>8</sup>	
	04/07/99	12.36	19.66	0.00	ND	1,700	10	$ND^8$	28	72	8ND/4.7 <sup>16</sup>	ND
	07/12/99	14.41	17.61	0.00	160 <sup>17</sup>	78	0.68	ND	ND	2.4	ND	
	10/25/99	14.53	17.49	0.00	95 <sup>18</sup>	220	0.82	ND ·	0.77	6.8	3.9	
	01/18/00	13.05	18.97	0.00	ND	ND	ND	ND	ND	ND	135	**
MW-4	08/29/89				120	ND	ND	ND	ND	ND		ND
	11/21/89				ND	ND	ND	ND	ND	ND		ND
	02/23/90				ND	ND	ND	ND	ND	ND		ND
	05/10/90				88	54	ND	2	ND	0.37		ND
	08/09/90				ND	ND	ND	ND	ND	ND		ND
	11/06/90				ND	ND	ND	0.36	ND	0.98		ND
	02/04/91				ND	ND	ND	0.72	ND	1.1		ND

**Table 1 Groundwater Monitoring Data and Analytical Results** 

				Product								
Well ID/	Date	DTW	GWE	Thickness	TPH(D)	TPH(G)	В	T	E	X	MTBE	TOG
TOC*		(ft.)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
MW-4	05/24/91		~~		ND	ND	0.64	ND	ND	ND		ND
(cont)	08/15/91	**	~~		ND	ND	ND	ND	ND	ND	- <del>-</del> -	ND
99-66	09/18/91	17.67	81.99	0.00		ND 			ND			
, , OO	10/15/91	17.95	81.71	0.00		<u>.                                    </u>	**					
	11/19/91	17.25	82.41	0.00	ND	ND	ND	ND	ND	ND		
32 38	02/27/92	14.96	17.42	0.00	ND	43	ND	1	0.37	2.5		
J2 J0	03/27/92	15.01	17.37	0.00			ND 			2.3		
	04/27/92	15.37	17.01	0.00								
	05/26/92	15.62	16.76	0.00	ND	120	0.59	0.82	 ND	 1.9	••	
	05/20/92	16.02	16.76	0.00	ND 		0.39					
	07/24/92	16.10	12	0.00						77		
	10/30/92	INACCESSIBLE										
	06:09:94	15.08		0,00	ND	780 <sup>1</sup>	ND	ND	ND			
	09/08/94	15.72		0.00	ND ND	300 <sup>1</sup>	ND ND	ND ND		ND		
	01/25/95	DESTROYED		0.00	 ND				ND 	ND 		
MW-5	08/29/89				100	ND	ND	0.94	0.3	ND		ND
	11/21/89	w ac			70	ND	ND	ND	ND	ND		ND
	02/23/90				ND	ND	ND	ND	ND	ND		ND
	05/10/90				83	ND	ND	ND	ND	0.31		ND
	08/09/90				ND	ND	ND	ND	ND	ND		ND
	11/06/90				ND	ND	ND	ND	ND	ND		ND
	02/04/91				ND	ND	ND	0.35	ND	ND		ND
	05/24/91				ND	ND	ND	ND	ND	ND	**	ND
100-32	09/18/91	18.30	82.02	0.00								
	10/15/91	18.59	81.73	0.00								
	11/19/91	17.87	82.45	0.00								
33 ()2	02/27/92	15.50	17.52	0.00	***							
	03/27/92	15.68	17.34	0.00 ·		'						
	04/27/92	15.96	17.06	0.00								
	05/26/92	16.22	16.80	0.00								
	06/23/92	16.63	16.39	0.00								
	07/24/92	16.73	12	0.00								
	10/30/92	INACCESSIBLE		0.00								

# Table 1 Groundwater Monitoring Data and Analytical Results

Former Unocal Service Station #2512 1300 Davis Street

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-5	06/09/94	INACCESSIBLE										
(cont)	09/08/94	INACCESSIBLE					**				7-	
	01/25/95	DESTROYED										<b></b>
MW-6	08/29/89				ND	ND	ND	ND	ND	ND		ND
	11/21/89	<b>u</b> L			ND	ND	ND	ND	ND	ND		ND
	02/23/90				ND	ND	ND	ND	ND	ND		ND
	05/10/90				ND	ND	ND	1.2	ND	ИD		ND
	08/09/90				ND	ND	ND	ND	ND	ND		ND
	11/06/90				ND	ND	1.6	0.35 .	ND	ND		ND
	02/04/91	~~			ND	ND	ND	ND	ND	ND		ND
	05/24/91	PF-MI				ND	ND	ND	ND	ND		ND
	08/15/91			~=		ND	ND	ND	ND	ND		ND
100-50	()9/18/91	18.34	82.16	0.00								
	10/15/91	18.65	81.85	0.00								
	11/19/91	17.94	82.56	0.00		ND	ND	ND	ND	ND		
33-19	02/27/92	15.70	17.49	0.00		ND	3.2	ND	ND	3.8		
	03/27/92	15.56	17.63	0.00								
	()4/27/92	16.07	17.12	0.00	~=							
	05/26/92	16.34	16.85	0.00		ND	ND	ND	ND	0.65		
	06/23/92	16.70	16.49	0.00								
	07/24/92	17.00	16.19	0.00								
	10/30/92	17.07	16.12	0.00		ND	ND	ND	ND	ND		
	06/09/94	INACCESSIBLE						***				
	09/08/94	INACCESSIBLE										
	01/25/95	DESTROYED						••			•-	
MW-7												
32 09	02/27/92	15.12	16.97	0.00		38	ND	0.97	0.69	4		
	03/27/92	14.26	17.83	0.00								
	04/27/92	14.86	17.23	0.00								
	05/26/92	15.30	16.79	0.00		ND	ND	ND	ND	0.6		
	06/23/92	15.80	16.29	0.00								
	07/24/92	16.26	15.83	0.00								

Table 1
Groundwater Monitoring Data and Analytical Results

				Product								
Well ID/	Date	DTW	GWE	Thickness	TPH(D)	TPH(G)	В	$\mathbf{T}$	E	X	MTBE	TOG
TOC*		(ft.)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
MW-7	10/30/92	16.31	15.78	0.00	**	ND	ND	ND	ND	ND		
(cont)	06/09/94	14.43		0.00		610 <sup>1</sup>	ND ND	ND	ND	ND		
(COIII)	09/08/94	15.32		0.00		ND	ND ND	1.3	ND ND	1.6	<b></b>	
31-71	10/21/95	14.74	16.97	0.00		ND	ND	ND	ND			
31 71	01/24/96	12.50	19.21	0.00						ND		
	04/23/96	12.30	19.21			ND	ND	ND	ND	ND		
				0.00		220 ND	ND	0.62	0.88	5.4	ND	
	07/25/96	14.30	17.41	0.00		ND	ND	ND	ND	ND	ND	
	10/25/96	15.13	16.58	0.00		ND	ND	ND	ND	ND	ND	
	01/28/97	10.41	21.30	0.00		ND	ND	ND	ND	ND	ND	
	04/16/97	12.12	19.59	0.00		ND	ND	ND	ND	ND	ND	
	07/21/97	15.01	16.70	0.00	<b>~</b> =	ND	ND	ND	ND	ND	ND	
	10/20/97	15.18	16.53	0.00		ND	ND	ND	ND	ND	ND	
	01/21/98	10.46	21.25	0.00		ND	ND	ND	ND	ND	ND	
	04/17/98	11.57	20.14	0.00		ND	ND	ND	ND	ND	ND	
	07/14/98	13.10	18.61	0.00		ND	ND	ND	ND	ND	ND	
	10/12/98	14.22	17.49	0,00		ND	ND	ND	ND	ND	ND	
	01/19/99	12.12	19.59	0.00		ND	ND	ND	ND	ND	ND	
	04/07/99	11.47	20.24	0.00		ND	ND	ND	ND	ND	ND/ND <sup>16</sup>	
	07/12/99	14.17	17.54	0.00		ND	ND	ND	ND	ND	ND	
	10/25/99	14.22	17.49	0.00		ND	ND	ND	ND	ND	ND	
	01/18/00	12.38	19.33	0.00		ND	ND	ND	ND	ND	6.10	
MW-8												
32.73	10/05/95	15.56	17.17	0.00								
	10/21/95	15.65	17.08	0.00		ND	ND	ND	ND	ND	-	
	01/24/96	14.51	18.22	0.00		ND	ND	ND	ND	ND		
	04/23/96	15.70	17.03	0.00		ND	ND	ND	ND	ND	ND	
	07/25/96	15.10	17.63	0.00		ND	ND	ND	ND	ND	ND	
	10/25/96	15.10	16.77	0.00		ND ND	ND ND	ND ND	ND ND			
										ND	ND	
	01/28/97	13.86	18.87	0.00		ND	ND	ND	ND	ND	ND	
	04/16/97	12.74	19.99	0.00		ND	ND	ND	ND	ND	ND	
	07/21/97	15.71	17.02	0.00		ND	ND	ND	ND	ND	ND	
	10/20/97	15.98	16.75	0.00		ND	ND	ND	ND	ND	ND	
	01/21/98	14.20	18.53	0.00		ND	ND	ND	ND	ND	ND	
	04/17/98	14.40	18.33	0.00		ND	ND	ND	ND	ND	ND	

## **Table 1 Groundwater Monitoring Data and Analytical Results**

Former Unocal Service Station #2512

1300 Davis Street

<u> </u>				Product	_						_ <del>_</del>	
Well ID/	Date	DTW	GWE	Thickness	TPH(D)	TPH(G)	В	T	E	X	MTBE	TOG
TOC*		(ft.)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
MW-8	07/14/98	14.85	17.88	0.00	<b>4-</b>	ND	ND	ND	ND	ND	ND	
(cont)	10/12/98	15.86	16.87	0.00		ND	ND	ND ND	ND ND	ND	ND ND	
(COIII)	01/19/99	14.69	18.04	0.00		ND	ND ND	ND	ND ND	ND ND	ND ND	
	04/07/99	13.88	18.85	0.00		ND	ND ND	ND ND	ND	ND	ND/ND <sup>16</sup>	••
	04/07/99	15.21	17.52	0.00		ND ND	ND ND	ND ND	ND ND	ND ND	ND	
	10/25/99	15.21	17.32	0.00		ND	ND ND			ND ND	ND ND	
	01/18/00	13.30 14.67	17.43 18.06	0.00 <b>0.00</b>		ND ND	ND ND	ND ND	ND			
	01/10/00	14.0/	19.00	0.00		MN	ND	ND	ND	ND	ND	••
MW-9										•		
32 33	10/05/95	15.27	17.06	0.00								
	10/21/95	15.59	16.74	0.00		ND	ND	ND	ND	ND	5	
	01/24/96	14.28	18.05	0.00		ND	ND	ND	ND	ND	6	
	04/23/96	14.60	17.73	0.00		ND	ND	ND	ND	ND	ND	
	07/25/96	15.05	17.28	0.00		ND	ND	ND	ND	ND	ND	
	10/25/96	15.66	16.67	0.00		ND	ND	ND	ND	ND	180	
	01/28/97	13.76	18.57	0.00		ND	ND	ND	ND	ND	75	
	04/16/97	12.66	19.67	0.00		ND	ND	ND	ND	ND	ND	
	07/21/97	15.44	16.89	0.00		ND	ND	ND	ND	ND	ND	
	10/20/97	15.67	16.66	0.00		ND	ND	ND	ND	ND	100	
	01/21/98	13.97	18.36	0.00		ND	ND	ND	ND	ND	140	
	04/17/98	14.38	17.95	0.00		56 <sup>9</sup>	ND	ND	ND	ND	18	
	07/14/98	14.87	17.46	0.00		ND	ND	ND	ND	ND	6.6	
	10/12/98	15.19	17.14	0.00		ND	ND	ND	ND	ND	16	
	01/19/99	14.54	17.79	0.00		ND	ND	ND	ND	ND	30	
	04/07/99	13.62	18.71	0.00		ND	ND	ND	ND	ND	6.9/6.4 <sup>16</sup>	
	07/12/99	15.03	17.30	0.00	**	ND	ND	ND	ND	ND	3.8	
	10/25/99	14.25	18.08	0.00		ND	ND	ND	ND	ND	ND	
Trip Blank												
FB-I-B	01/21/98					ND	ND	ND	ND	ND	ND	
	04/17/98					ND	ND	ND	ND	ND	ND	
	07/14/98					ND	ND	ND	ND	ND	ND	
	10/12/98					ND	ND	ND	ND	ND	ND	

# **Table 1 Groundwater Monitoring Data and Analytical Results**

Former Unocal Service Station #2512 1300 Davis Street

				Product								
Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Thickness (ft.)	TPH(D) <i>(ppb)</i>	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
TB-LB	01/19/99					ND	ND	ND	ND	ND	ND	
(cont)	04/07/99					ND	ND	ND	ND	ND	ND	
	07/12/99					ND	ND	ND	ND	ND	ND	
	10/25/99					ND	ND	ND	ND	ND	ND	
	01/18/00			==		ND	NĐ	ND	ND	ND	ND	

#### Table 1

### Groundwater Monitoring Data and Analytical Results

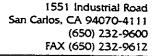
Former Unocal Service Station #2512 1300 Davis Street San Leandro, California

#### EXPLANATIONS:

Groundwater monitoring data and laboratory results prior to January 21, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing elevation	TPH(G) = Total Petroleum Hydrocarbons as Gasoline	TOG = Total Oil & Grease
DTW Depth to Water	B = Benzene	MTBE = Methyl tertiary butyl ether
(ft ) — Peet	T = Toluene	ppb = Parts per billion
GWF = Groundwater Elevation	E = Ethylbenzene	ppm = Parts per million
msi - Relative to mean sea level	X = Xylenes	ND = Not Detected
TPH(D) = Total Petroleum Hydrocarbons as Diesel		= Not Measured/Not Analyzed

- \* TOC elevations are relative to msl, per East Bay MUD Benchmark DAVIS FREE #2 San Leandro 1952 (Elevation = 32.02 feet msl). Prior to October 5, 1993, the DTW measurements were taken from top of well covers. Prior to February 27, 1992, the DTW measurements were surveyed assuming well cover MW-1 100 feet as datum.
- \*\* Groundwater elevation corrected due to presence of free product; correction factor [(TOC-DTW)+(Product Thickness x 0.75)].
- \*\*\* Groundwater elevation corrected due to presence of free product; correction factor [(TOC-DTW)+(Product Thickness x 0.77)].
- Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- Laboratory has potentially identified the presence of MTBE at reportable levels in the sample collected from this well.
- Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well. Free product was detected in well MW-3, however, a water sample was collected and analyzed to determine if the product was predominantly hydrocarbon based.
- I aboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Detection limit raised Refer to analytical reports.
- Laboratory report indicates unidentified hydrocarbons C6-C12.
- Purged additional 100 gallons from well after sampling.
- Laboratory report indicates unidentified hydrocarbons < C14.
- Christy box for this well was damaged during tank removal and soil excavation at the site; therefore, GWE could not be accurately determined.
- Laboratory report indicates a non diesel mix < C17.
- Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
- Laboratory report indicates unidentified hydrocarbons < C20.
- <sup>16</sup> MTBE by EPA Method 8260.
- Laboratory report indicates discrete peaks.
- Laboratory report indicates unidentified hydrocarbons < C16.

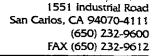




Gettler-Ryan/Geostrategies(1)	Project:	Unocal(1)	Sampled: 1/18/00
6747 Sierra Court, Suite D	Project Number:	Unocal SS# 2512	Received: 1/18/00
Dublin, CA 94568	Project Manager.	Deanna Harding	Reported: 2/1/00

### **Notes and Definitions**

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference





Gettler-Ryan/Geostrategies(1)	Project:	Unocal(1)	Sampled:	1/18/00
6747 Sierra Court, Suite D	Project Number:	Unocal SS# 2512	Received:	1/18/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported:	2/1/00

## Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control Sequois Analytical - Morgan Hill

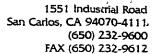
	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0A26057	Date Prepa		<u>)0</u>		Extrac	tion Method: EPA	3520B			
Blank Diesel Range Hydrocarbons	<u>0A26057-B</u> 1/29/00	<u>LK1</u>		ND	mg/l	0.0500				
Surrogate: n-Pentacosane	"	0.100		0.103	H	50-150	103			<del></del> -
LCS	0A26057-B	<u>S1</u>								
Diesel Range Hydrocarbons	1/29/00	1.00		0.907	mg/l	60-140	90.7			
Surrogate: n-Pentacosane	n	0.100	<del></del>	0.107	ff .	50-150	107			
LCS Dup	0A26057-B	SD1								
Diesel Range Hydrocarbons	1/29/00	1.00		0.905	mg/l	60-140	90.5	50	0.221	
Surrogate: n-Pentacosane	*	0.100		0.114	n	50-150	114			



Gettler-Ryan/Geostrategies(1) Project: Unocal(1) Sampled: 1/18/00
6747 Sierra Court, Suite D Project Number: Unocal SS# 2512 Received: 1/18/00
Dublin, CA 94568 Project Manager: Deanna Harding Reported: 2/1/00

## Volatile Organic Compounds by EPA Method 8010B/Quality Control Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits		RPD Limit	RPD %	Notes*
	001 <u>0103-M</u>	eni I	001088-01							
Matrix Spike Dup Chlorobenzene	1/20/00	10.0	ND	8.15	ug/l	60.0-140	81.5	25.0	7.91	
1.1-Dichloroethene	n	10.0	ND	8.62	H	60.0-140	86.2	25.0	1.99	
Trichloroethene	Ħ	10.0	ND	9.31	11	60.0-140	93.1	25.0	9.68	
Surrogate: 1-Chloro-2-fluorobenzene	n	10.0		9.65	"	70.0-130	96.5			





Project Number: Unocal(1)
Project Number: Unocal SS# 2512
Project Manager: Deanna Harding

Sampled: 1/18/00 Received: 1/18/00 Reported: 2/1/00

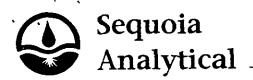
### Volatile Organic Compounds by EPA Method 8010B/Quality Control Sequoia Analytical – San Carlos

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
			<del></del>		***					
Blank (continued)	<u>0010103-BI</u>	<u>.K3</u>								
1,2-Dichloroethane	1/21/00			ND	ug/l	0.500				
1,1-Dichloroethene	Ħ			ND	**	0.500				
cis-1,2-Dichloroethene	Ħ			ND	*	0.500				
trans-1,2-Dichloroethene	**			ND	**	0.500				
1,2-Dichloropropane	#		•	ND	Ħ	0.500				
cis-1,3-Dichloropropene	Ħ			ND	**	0.500				
trans-1,3-Dichloropropene	17			ND	17	0.500				
Methylene chloride	11			ND	Ħ	5.00				
1,1,2,2-Tetrachloroethane	н			ND	Ħ	0.500				
Tetrachloroethene	π			ND	**	0.500				
1,1,1-Trichloroethane	Ħ			ND	Ħ	0.500				
1,1,2-Trichloroethane	н			ND	4	0.500				
Trichloroethene	**			ND	н	0.500				
Trichlorofluoromethane	11			ND	11	0.500				
Vinyl chloride	n			ND	H	0.500				
Surrogate: I-Chloro-2-fluorobenzene	п	10.0		11.2	н	70.0-130	112			
LCS	0010103-BS	<u>81</u>								
Chlorobenzene	1/19/00	10.0		8.04	ug/l	70.0-130	80.4			
1,1-Dichloroethene	41	10.0		9.10	Ħ	65.0-135	91.0			
Trichloroethene	IT	10.0		8.69	Ħ	70.0-130				<del></del>
Surrogate: 1-Chloro-2-fluorobenzene	n	10.0	<u> </u>	8.31	Ħ	70.0-130	<i>83.1</i>			
g ,										
<u>LCS</u>	0010103-B	<u>S2</u>								
Chlorobenzene	1/20/00	10.0		9.55	ug/I	70.0-130				
i,1-Dichloroethene	17	10.0		9.99	**	65.0-135	99.9			
Trichloroethene		10.0		10.3	11	70.0-130				
Surrogate: 1-Chloro-2-fluorobenzene	н	10.0		11.0	#	70.0-130	110			
<u>LCS</u>	0010103-B	<u>S3</u>								
Chlorobenzene	1/21/00	10.0		10.1	ug/l	70.0-130				
1,1-Dichloroethene	н	10.0		10.2	H	65.0-135	102			
Trichloroethene	**	10.0		10.6	11	70.0-130				<u> </u>
Surrogate: I-Chloro-2-fluorobenzene	n	10.0		11.2	e	70.0-130	112			-
-										
Matrix Spike	0010103-M	_	.001 <u>088-01</u>							
Chlorobenzene	1/20/00	10.0	ND	7 53	ug/l	60.0-140				
1,1-Dichloroethene	19	10.0	ND	8.45	n	60 0-140	84.5			
Trichloroethene	11	10.0	ND	8.45	н	60.0-140				<del></del>
Surrogate: 1-Chloro-2-fluorobenzene	n	10.0		9.79	n	70.0-130	97.9			
, , , , , , , , , , , , , , , , , , , ,										

Seguoia Analytical - San Carlos



<sup>\*</sup>Refer to end of report for text of notes and definitions.



or recommendation

Project: Unocal(1)

Project Number: Unocal SS# 2512 Project Manager: Deanna Harding

Sampled: 1/18/00 Received: 1/18/00

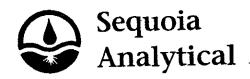
Reported: 2/1/00

### Volatile Organic Compounds by EPA Method 8010B/Quality Control Sequoia Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%_	Limit	%	Notes*
Blank (continued)	0010103-BI	LK2								
2-Chloroethylvinyl ether	1/20/00			ND	ug/l	1.00				
Chloroform	11			ND	н	0.500				
Chloromethane	n			ND	**	1.00				
Dibromochloromethane	*1			ND	11	0.500				
1,3-Dichlorobenzene	n			ND	n	0.500				
I,4-Dichlorobenzene	n			ND	n	0.500				
1,2-Dichlorobenzene	n			ND	tf	0.500				
1,1-Dichloroethane	19			ND	Ħ	0.500				
1,2-Dichloroethane	TP			ND	Ħ	0.500				
1,1-Dichloroethene	H			ND	*1	0.500				
cis-1,2-Dichloroethene	n			ND	17	0.500				
trans-1,2-Dichloroethene	10			ND	19	0.500				
1,2-Dichloropropane	11			ND	**	0.500				
cis-1,3-Dichloropropene	Ħ			ND	н	0.500			•	
trans-1,3-Dichloropropene	**			ND	Ħ	0.500				
Methylene chloride	**			ND		5.00				
1,1,2,2-Tetrachloroethane	Ħ			ND	11	0.500				
Tetrachloroethene	Ħ			ND	11	0.500				
1,1,1-Trichloroethane	17			ND	Ħ	0.500				
1,1,2-Trichloroethane	17			ND	19	0.500				
Trichloroethene	H			ND	17	0.500				
Trichlorofluoromethane	Ħ			ND	n	0.500				
Vinyl chloride	11			ND	4	0.500				
Surrogate: 1-Chloro-2-fluorobenzene	H	10.0		11.0	n	70.0-130	110			•
Blank	0010103-BI	L <b>K3</b>								
Freon 113	1/21/00			ND	ug/l	1.00				
Bromodichloromethane	n			ND	ที	0.500				
Bromoform	*			ND	я	0.500				

<u> </u>	OUTOTOS-DEJEC				
Freon 113	1/21/00	ND	ug/l	1.00	
Bromodichloromethane	n	ND	Ħ	0.500	
Bromoform	Ħ	ND	я	0.500	
Bromomethane	Ħ	· ND	77	1.00	
Carbon tetrachloride	Ħ	ND	**	0.500	
Chlorobenzene	п	ND	ft	0.500	
Chloroethane	п	ND	tı	1.00	
Chloroethylvinyl ether	n	ND	п	1.00	
Chloroform	11	ND	14	0.500	
Chloromethane	н	ND	и	1.00	
Dibromochloromethane	n	ND	н	0.500	
1,3-Dichlorobenzene	п	ND	"	0.500	
1,4-Dichlorobenzene	н	ND	Ħ	0.500	
1,2-Dichlorobenzene	н	ND	It	0.500	
1,1-Dichloroethane	Ħ	ND	H	0.500	

Sequoia Analytical - San Carlos



Project: Unocal(1)
Project Number: Unocal SS# 2512

Project Manager:

Sampled: 1/18/00 Received: 1/18/00

Reported: 2/1/00

## Volatile Organic Compounds by EPA Method 8010B/Quality Control Sequoia Analytical - San Carlos

Deanna Harding

	Date	Spike	Sample	QC		Reporting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
	- <del></del>		· · ·							
Batch: 0010103	Date Prepa		<u>)0</u>		Extrac	tion Method: EP	A 5030B	[P/T]		
Blank	0010103-Bl	<u>LK1</u>						-		
Freon 113	1/19/00			ND	ug/l	1.00				
Bromodichloromethane	n			ND	11	0.500				
Bromoform	n			ND	n	0.500				
Bromomethane	n			ND	n	1.00				
Carbon tetrachloride	n			ND	Ħ	0.500				
Chlorobenzene	n			ND	н	0.500				
Chloroethane	n			ND	Ħ	1.00				
2-Chloroethylvinyl ether	ħ			ND	97	1.00				
Chloroform	Ħ			ND	n	0.500				
Chloromethane	Ty .			ND	Ħ	1.00				
Dibromochloromethane	n `			NĐ	Ħ	0.500		•		
1,3-Dichlorobenzene	17			ND	17	0.500				
1,4-Dichlorobenzene	11			ND	77	0.500				
1,2-Dichlorobenzene	let .			ND	**	0.500				
1,1-Dichloroethane	Ħ			ND	ut .	0.500				
1,2-Dichloroethane	**			ND	n	0.500				
1,1-Dichloroethene	17			ND	Ħ	0.500				
cis-1,2-Dichloroethene	er			ND	n	0.500				
trans-1,2-Dichloroethene	Ħ			ND	**	0.500				
1,2-Dichloropropane	r			ND	11	0.500				
cis-1,3-Dichloropropene	17			ND	**	0.500				
trans-1,3-Dichloropropene	t7			ND	11	0.500				
Methylene chloride	#			ND	11	5.00				
1,1,2,2-Tetrachloroethane	H			ND	n	0.500				
Tetrachloroethene	#			ND	M	0.500				
1,1,1-Trichloroethane	ч			ND	17	0.500				
1,1,2-Trichloroethane	н			ND	н	0.500				
Trichloroethene	n			ND	Ħ	0.500				
Trichlorofluoromethane	m			ND	17	0.500				
Vinyl chloride	n			ND	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.500				
Surrogate: 1-Chloro-2-fluorobenzene	"	10.0	<del>-</del>	8.85	er	70.0-130	88.5			
Blank	<u>0010103-B</u>	LK2			_					
Freon 113	1/20/00			ND	ugA	1.00				
Bromodichloromethane	77			ND	11	0.500				
Bromoform	er er			ND	н	0.500				
Bromomethane	н			ND	<b>r</b>	1.00				
Carbon tetrachloride	п			ND	н	0.500				
Chlorobenzene	r			ND	н	0.500				
Chloroethane	н			ND	11	1.00				

Sequoia Analytical - San Carlos



Project: Unocal(1)

Project Manager: Deanna Harding

Project Number: Unocal SS# 2512

Sampled: 1/18/00

Received: 1/18/00 Reported: 2/1/00

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control Sequoia Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	<u>%</u>	Notes*
LCS (continued)	0010126-BS	<u> 1</u>								
Ethylbenzene	1/25/00	10.0		10.4	ug/l	70.0-130				
Xylenes (total)		30.0		31.2	н	70.0-130	104			
Surrogate: a,a,a-Trifluorotoluene	n	10.0		9.86	Ħ	70.0-130	98.6			
LCS	0010126-BS	<u>52</u>								
Purgeable Hydrocarbons as Gasoline	1/25/00	250		238_	ug/l	70.0-130				
Surrogate: a,a,a-Trifluorotoluene	n	10.0		10.6	17	70.0-130	106			
<b>X</b>	0010126 34	C1 I	001101 11							
Matrix Spike	0010126-M	_	001181-11	30.4	n	60.0-140	104			
Benzene	1/25/00	10.0	ND	10.4	ug/l					
Toluene	#	10.0	ND	9.99		60.0-140	99.9			
Ethylbenzene	"	10.0	ND	9.99	17	60.0-140				
Xylenes (total)	#	30.0	ND	29.6		60.0-140				
Surrogate: a,a,a-Trifluorotoluene	#	10.0		8.84	"	70.0-130	88.4			
Matrix Spike <u>Dup</u>	0010126-M	SD1 L	0011 <u>81-11</u>							
Benzene	1/25/00	10.0	ND	9.77	ug/l	60.0-140	97.7	25.0	6.25	
Toluene	11	10.0	ND	9.51	*	60.0-140	95.1	25.0	4.92	
Ethylbenzene	11	10.0	ND	9.35	17	60,0-140		25.0	6.62	
Xylenes (total)	†F	30.0	ND	28.1	17	60.0-140	93.7	25.0	5.20	
Surrogate: a,a,a-Trifluorotoluene	и	10.0		9.01	n	70.0-130	90.1			



Gettler-Ryan/Geostrategies(1)

6747 Sierra Court, Suite D

Project Number: Unocal SS# 2512

Dublin, CA 94568

Project Manager: Deanna Harding

Sampled: 1/18/00

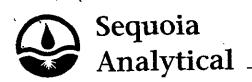
Received: 1/18/00

Reported: 2/1/00

# Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control Sequoia Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit	RECOV.	RPD	RPD
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% Notes
							. =0.00	City press	
Batch: 0010116	Date Prepar		<u>)0</u>		Extra	tion Method: EP	4 5030B	P/11	
<u>Blank</u>	<u>0010116-BI</u>	<u>.K1</u>			_	<b>50.0</b>			
Purgeable Hydrocarbons as Gasoline	1/24/00			ND	ug/l	50.0			
Benzene	п			ND		0.500			
Toluene	11			ND	H	0.500			
Ethylbenzene	n			ND	#	0.500			
Xylenes (total)	n			ND	11	0.500			
Methyl tert-butyl ether	"			ND		5.00		<u></u> -	
Surrogate: a,a,a-Trifluorotoluene	п	10.0		8.09	н	70.0-130	80.9		
LCS	0010116-BS	<u>51</u>							
Benzene	1/24/00	10.0		8.68	ug/l	70.0-130	86.8		
Toluene	Ħ	10.0		8.15	n	70.0-130	81.5		
Ethylbenzene	n	10.0		8.27	**	70.0-130	82.7		
Xylenes (total)	n	30.0		25.1		70.0-130	83.7		
Surrogate: a,a,a-Trifluorotoluene	п	10.0		8.33	Ħ	70.0-130	<i>83.3</i>		
LCS	0010116-B	<u>52</u>							
Purgeable Hydrocarbons as Gasoline	1/24/00	250		207	ug/l	70.0-130	82.8		<u></u>
Surrogate: a,a,a-Trifluorotoluene	п	10.0		8.03	Ħ	70.0-130	80.3		
Matrix Spike	0010116-M	<u>S1 L</u>	001122-03						
Purgeable Hydrocarbons as Gasoline	1/24/00	250	ND	222	ug/l	60,0-140	88.8		
Surrogate: a,a,a-Trifluorotoluene	н	10.0		9.70	rt -	70.0-130	97.0		
Matrix Spike Dup	0010116-M		001122-03						
Purgeable Hydrocarbons as Gasoline	1/24/00	250	ND	190	ug/l	60.0-140	76.0	25.0	15.5
Surrogate: a,a,a-Trifluorotoluene	n -	10.0		9.62	п	70.0-130	96.2		
Batch: 0010126	Date Prepa		00		Extra	ction Method: EP	<u>A 5030B</u>	[P/T]	
Blank	<u>0010126-B</u>	<u>LK1</u>							
Purgeable Hydrocarbons as Gasoline	1/25/00			ND	ug/l	50.0			
Benzene	Ħ			ND	H	0.500			
Toluene	Ħ			ND	17	0.500			
Ethylbenzene	*			ND	H	0.500			
Xylenes (total)				ND	л	0.500			
Methyl tert-butyl ether	*			ND	11	5.00			
Surrogate. a,a,a-Trifluorotoluene	п	10.0		9 42	"	70 0-130	94 2		
LCS	0010126-B	<u>\$1</u>							
<del></del>	1/25/00	100		10.9	ug/l	70 0-130	109		
Benzene	1/25/00								

Sequoia Analytical - San Carlos



Project: Unocal(1) Project Number:

Unocal SS# 2512

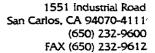
Sampled: 1/18/00 Received: 1/18/00

Project Manager: Deanna Harding Reported: \_2/1/00

Sample Description: Laboratory Sample Number: MW-9 L001145-05

	Batch	Date	Date	Specific Method/	Reporting		_	
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
				<u> </u>				
		Seque	ia Analytica	<u>l - San Carlos</u>				
Total Purgeable Hydrocarbons (C6-C	12), BTEX ar	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	0010116	1/24/00	1/25/00		50.0	ND	ug/l	
Benzene	#	19	н		0.500	ND	н	
Toluene	n	Ħ	**		0.500	ND	11	
Ethylbenzene	*1	#	n		0.500	ND	H	
Xylenes (total)	n	#	n		0.500	ND	н	
Methyl tert-butyl ether	Ħ	Ħ	11		5.00	ND		···
Surrogate: a,a,a-Trifluorotoluene	#	н	"	70.0-130		98.4	%	
Volatile Organic Compounds by EPA	Method 8010	<u>B</u>						
Freon 113	0010103	1/21/00	1/21/00		2.00	ND	ug/l	
Bromodichloromethane	Ħ	11	**		1.00	ND	It	
Bromoform	#	10	**		1.00	ND	н	
Bromomethane	Ħ	17			2.00	ND	н	
Carbon tetrachloride	Ħ	#	17		1.00	ND	n	
Chlorobenzene	17	n	Ħ		1.00	ND	11	
Chloroethane	**	**	11		2.00	ND	11	
2-Chloroethylvinyl ether	11	Ħ			2.00	ND	n	
Chloroform	ti	n	11		1.00	51.9	11	
Chloromethane	**	n	n		2.00	ND	n	
Dibromochloromethane	"	11	*		1.00	ND	17	
1,3-Dichlorobenzene	Ħ	n .	n		1.00	ND	**	
1,4-Dichlorobenzene	#	п	n		1.00	ND	n	
1,2-Dichlorobenzene	**	**	н		1.00	ND	11	
1,1-Dichloroethane	Ħ	**	**		1.00	ND	Ħ	
1,2-Dichloroethane	ır	11			1.00	ND	**	
1,1-Dichloroethene	п	н	•		1.00	ND	Ħ	
cis-1,2-Dichloroethene	Ħ	.,	*1		1.00	ND	10	
trans-1,2-Dichloroethene	iT .	Ħ	n		1.00	ND	H	
1,2-Dichloropropane	n	17	71		1.00	ND	14	
cis-1,3-Dichloropropene	Ħ	m	**		1.00	ND	11	
	Ħ	n	H		1.00	ND	п	
trans-1,3-Dichloropropene	#	**	*		10.0	ND	Ħ	
Methylene chloride	н	n	Ħ		1 00	ND	n	
1,1,2,2-Tetrachloroethane					1 00	ND	п	
Tetrachloroethene	"				1 00	ND ND	n	
1,1,1-Trichloroethane	"	,,	.,		1 00	ND ND	н	
1,1,2-Trichloroethane	" "	"	ri			ND ND	**	
Trichloroethene		n	n n		1 00		н	
Trichlorofluoromethane	н	"	н		1.00	ND	n	
Vinyl chloride					1.00	ND 100		
Surrogate: 1-Chloro-2-fluorobenzene	<i>"</i>	"	n	70.0-130		109	%	

Sequoia Analytical - San Carlos





Project: Unocal(1)
Project Number: Unocal SS# 2512
Project Manager: Deanna Harding

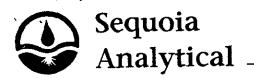
Sampled: 1/18/00 Received: 1/18/00 Reported: 2/1/00

Sample Description: Laboratory Sample Number: MW-8 L001145-04

	Batch	Date	Date	Specific Method/		<b>.</b>	¥ T_ ==-	<b>%</b> T
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
many to				-				
		Seque	oia Analytica	- San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX an	d MTBE by	DHS LUFT			NT.	ug/l	
Purgeable Hydrocarbons as Gasoline	0010116	1/24/00	1/23/00		50.0	ND ND	# n8\1	
Benzene	Ħ	Ħ	п		0.500	ND ND	**	
Toluene	Ħ	17	rt		0.500		11	
Ethylbenzene	Ħ	н	17		0.500	ND	ır.	
Xylenes (total)	,17	n	H		0.500	ND	#	
Methyl tert-butyl ether	Ħ	#	n		5.00	ND_		- <del></del>
Surrogate: a,a,a-Trifluorotoluene	"	n	н	70.0-130		98.9	%	
Dairoguic. u,u,= 1. y.me. e.=								
Volatile Organic Compounds by EPA	Method 8010	<u>B</u>					. – 0	
Freon 113	0010103	1/21/00	1/21/00		2.50	ND	ug/l	
Bromodichloromethane	H	11	m		1.25	ND	 11	
Bromoform	**	**	#		1.25	ND	π	
Bromomethane	TT	77	**		2.50	ND	"	
Carbon tetrachloride		tī	n		1.25	ND	n	
Chlorobenzene	n	IF	er		1.25	ND	π n	
Chloroethane	11	n	H		2.50	ND		
2-Chloroethylvinyl ether	rt	17	**		2.50	ND	n 	
Chloroform	p	H*	17		1.25	52.9	#	
Chloromethane	π	Ħ	II		2.50	ND	11	
Dibromochloromethane	27	t†	n		1.25	ND	Ħ	
1,3-Dichlorobenzene	71	п	17		1.25	ND	n	
<del>-</del>	n	71	II .		1.25	ND	H	
1,4-Dichlorobenzene		n	**		1.25	ND	17	
1,2-Dichlorobenzene	n	H*			1.25	ND	н	
1,1-Dichloroethane	17	Ħ	11		1.25	ND	70	
1,2-Dichloroethane	P	н	•		1.25	ND	**	
1,I-Dichloroethene	Ħ	4	n		1.25	ND	19	
cis-1,2-Dichloroethene	n	H	11		1.25	ND	n	
trans-1,2-Dichloroethene	17	10			1.25	ND	17	
1,2-Dichloropropane	77	**	n		1.25	ND	*	
cis-1,3-Dichloropropene		н	Ħ		1.25	ND	**	
trans-1,3-Dichloropropene	₩	#	w		12.5	ND	Ħ	
Methylene chloride		n	•		1.25	ND	Ħ	
1,1,2,2-Tetrachloroethane	n n	н	"		1.25	ND	М	
Tetrachloroethene		17	11		1 25	ND	19	
1,1,1-Trichloroethane	,,	н	н		1 25	ND	14	
1,1,2-Trichloroethane	*	**	,,		1.25	ND	н	
Trichloroethene	м	··	H		1,25	ND	**	
Trichlorofluoromethane	н	n	н		1.25	ND	м	
Vinyl chloride Surrogate: 1-Chloro-2-fluorobenzen				70.0-130	1,43	119	%	

Sequoia Analytical - San Carlos





Project: Unocal(1) Project Number: Unocal SS# 2512 Project Manager: Deanna Harding

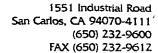
Sampled: 1/18/00

Received: 1/18/00 Reported: 2/1/00

Sample Description: Laboratory Sample Number: MW-7 L001145-03

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		F		-				
				l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX at	ad MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	0010126	1/25/00	1/25/00		50.0	ND	ug/i	
Benzene	Ħ	n	н		0.500	ND	н	
Toluene	H	11	Ħ		0.500	ND	17	
Ethylbenzene	H	n	н		0.500	ND	н	
Xylenes (total)	Ħ	Ħ	**		0.500	ND	н	
Methyl tert-butyl ether		#	**		5.00	6.10		
Surrogate: a,a,a-Trifluorotoluene	n	m .	n	70.0-130		79.9	%	
Volatile Organic Compounds by EPA					* **	) IP		
Freon 113	0010103	1/20/00	1/21/00		2.50	ND	ug/l "	
Bromodichloromethane	**	Ħ	If		1.25	4.78	11	
Bromoform	79	n	и		1.25	ИD	"	
Bromomethane	76	**	**		2.50	ND		
Carbon tetrachloride	п	11	**		1.25	ND	"	
Chlorobenzene	11	11	n		1.25	ND		
Chloroethane	11	#			2.50	ND	11	
2-Chloroethylvinyl ether	н	11	17		2.50	ND	<b>†</b> 9	
Chloroform	n	11	n		1.25	52.8	11	
Chloromethane	11	Ħ	Ħ		2.50	ND	11	
Dibromochloromethane	17	**	"		1.25	ND	11	
1,3-Dichlorobenzene	11	#	61		1.25	ND	71	
1,4-Dichlorobenzene	H .	#	n		1.25	ND	11	
1,2-Dichlorobenzene	H	n	н		1.25	ND	11	
1,1-Dichloroethane	#	n	77		1.25	ND	Ħ	
1,2-Dichloroethane	H	11	**		1.25	ND	11	
1,1-Dichloroethene	N	н	Ħ		1.25	ND	н	
cis-1,2-Dichloroethene	н	n	Ħ		1.25	ND	If	
trans-1,2-Dichloroethene	Ħ	*	**		1.25	ND	11	
1,2-Dichloropropane	Ħ	Ħ	11		1.25	ND	11	
cis-1,3-Dichloropropene	tı	Ħ	11		1.25	ND	71	
trans-1,3-Dichloropropene	71	Ħ	77		1.25	ND	Ħ	
Methylene chloride	**	11	n		12.5	ND	#	•
I,I,2,2-Tetrachloroethane	n	n	n		1.25	ND	Ħ	
Tetrachloroethene	ff	n	17		1 25	ND	н	
1,1,1-Tnchloroethane	n	н	**		1.25	ND	H	
1,1,2-Trichloroethane	**	п	**		1 25	ND	и	
Trichloroethene	**	ц	**		1.25	ND	14	
Trichlorofluoromethane	77	н	Ħ		1.25	ND	H	
	π	н	Ħ		1.25	ND	н	
Vinyl chloride	<i>"</i>	"	п	70 0-130		104	%	
Surrogate: I-Chloro-2-fluorobenzene				70 U=130		107	, 0	

Sequoia Analytical - San Carlos





Project: Unocal(1) Project Number: Unocal SS# 2512

Sampled: 1/18/00 Received: 1/18/00

Project Manager: Deanna Harding

Reported: 2/1/00

Sample Description:

Laboratory Sample Number:

MW-3 L001145-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Diesel Hydrocarbons (C9-C24) by DHS Diesel Range Hydrocarbons	LUFT 0A26057	1/26/00	1/29/00	DHS LUFT	50.0	ND	ug/l_	
Surrogate: n-Pentacosane	n	n	<i>n</i>	50-150		108	%	



Gettler-Ryan/Geostrategies(1)

Project: Unocal(1)

Sampled: 1/18/00

6747 Sierra Court, Suite D Dublin, CA 94568

Project Number: Unocal SS# 2512 Project Manager: Deanna Harding

Received: 1/18/00 Reported: 2/1/00

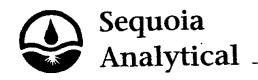
Sample Description:

Laboratory Sample Number:

MW-3 L001145-02

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
Total Purgeable Hydrocarbons (C6-C1	) RTFV			l - San Carlos				
Purgeable Hydrocarbons as Gasoline	0010126	1/25/00	1/25/00		50.0	ND	ug/l	
Benzene	1010120	1/23/00 n	1/25/00		0.500	ND		
Toluene	n	**	п		0.500	ND	#	
Ethylbenzene	11	11	n		0.500	ND	n	
· · · · ·	**	n	#		0.500	ND	**	
Xylenes (total)  Mathyl text-butyl other	11	n	n		5.00	135	**	
Methyl tert-butyl ether Surrogate: a,a,a-Trifluorotoluene			<i>n</i>	70.0-130	3.00	78.9	%	
surrogaie: a,a,a-1 rijiuoroioiuene				/ V.U-1 JU		10.7	70	
Volatile Organic Compounds by EPA	Method 8010	<u>)B</u>						
Freon 113	0010103	1/20/00	1/21/00		2.00	ND	ug/l	
Bromodichloromethane	n	Ħ	н		1.00	3.79	н	
Bromoform		17	н		1.00	ND	n	
Bromomethane	n	H	**		2.00	ND		
Carbon tetrachloride	11	11	17		1.00	ND	**	
Chlorobenzene	н	71	11		1.00	ND	**	
Chloroethane	n	11	n		2.00	ND	n	
2-Chloroethylvinyl ether	H	11	ir .		2.00	ND	#	
Chloroform	11	n	H		1.00	40.3	17	
Chloromethane	#	17	11		2.00	ND	H	
Dibromochloromethane	n	19	11		1.00	ND	11	
1,3-Dichlorobenzene	H	Ħ	IT .		1.00	ND	п	
1,4-Dichlorobenzene	Pt .	Ħ	11		1.00	ND	**	
1,2-Dichlorobenzene	tr .	**	n		1.00	ND	n	
1,1-Dichloroethane	"	н	If		1.00	ND	11	
1,2-Dichloroethane	11	71	n		1.00	ND	n	
1,1-Dichloroethene	11	**	11		1.00	ND	11	
cis-1,2-Dichloroethene	11	Ħ	**		1.00	ND	11	
trans-1,2-Dichloroethene	11	я	н		1.00	ND	n	
1,2-Dichloropropane	n	Ħ	н	-	1.00	ND	m	
cis-1,3-Dichloropropene	n	11	Ħ		1.00	ND	11	
trans-1,3-Dichloropropene	n	11	n		1.00	ND	n	
Methylene chloride	Ħ	n	Ħ		10.0	ND	IF	
1,1.2,2-Tetrachloroethane	19	**	**		1 00	ND	ır	
Tetrachloroethene	**	,	и		1.00	ND	"	
1,1,1-Trichloroethane	11	,,	и		1.00	ND	n	
1,1,2-Trichloroethane	11	rt .	11		1.00	ND	tt .	
Trichloroethene	н	67	u		1.00	ND	и	
Trichlorofluoromethane	н	**	11		1.00	ND	н	
Vinyl chloride	11	м	и		1.00	ND	**	
Surrogate: I-Chloro-2-fluorobenzene	<i>"</i>			70.0-130	1.00	114	%	
surrogate. 1-Cntoro-2-Jtuorobenzene	•			/0.0-130		114	70	

Sequoia Analytical - San Carlos



Project: Unocal(1)

Project Number: Unocal SS# 2512 Project Manager: Deanna Harding

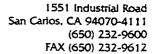
1/18/00 Sampled: Received: 1/18/00 2/1/00 Reported:

Sample Description:

**Laboratory Sample Number:** 

TB-LB L001145-01

	Batch	Date	Date	Specific Method/	Reporting	<del></del>		
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		Segue	oia Analytica	ıl - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX ar							
Purgeable Hydrocarbons as Gasoline	0010116	1/24/00	1/25/00		50.0	ND	ug/l	
Benzene	ज	Ħ	н		0.500	ND	10	
Toluene	H	**	n		0.500	ND	n	
Ethylbenzene	n	#	n		0.500	ND	Ħ	
•	It .	**	Ħ		0.500	ND	P	
Xylenes (total) Methyl tert-butyl ether	n	n	17		5.00	ND	17	
Surrogate: a,a,a-Trifluorotoluene	<i>n</i>	н	н	70.0-130		102	%	





Project: Unocal(1)
Project Number: Unocal SS# 2512
Project Manager: Deanna Harding

Sampled: 1/18/00 Received: 1/18/00 Reported: 2/1/00

### **ANALYTICAL REPORT FOR L001145**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	L001145-01	Water	1/18/00
MW-3	L001145-02	Water	1/18/00
MW-7	L001145-03	Water	1/18/00
MW-8	L001145-04	Water	1/18/00
MW-9	L001145-05	Water	1/18/00

1551 Industrial Road San Carlos, CA 94070-4111

(650) 232-9600 FAX (650) 232-9612

FEB 0 2 2000

February 1, 2000

GETTLER-RYAN INC. GENERAL CONTRACTORS

Deanna Harding Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568

Sequoia

RE: Unocal(1)/L001145

Dear Deanna Harding:

Enclosed are the results of analyses for sample(s) received by the laboratory on January 18, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson **Project Manager** 

CA ELAP Certificate Number I-2360

# UNOCAL 76

- (1 680 Chesc) ruke Drive Redwood City, CA 94063 (415) 364-9600
- ☐ 819 Striker Ave., Suite 8 Sacramento, CA 95834 (916) 921-9600
- ☐ 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600
- O 18939 120th Ave., N.E., Suite 101 Bothell, WA 98011 (206) 481-9200
- ☐ East 11115 Montgomery, Suite B Spokane, WA 99208 (509) 924-9200-
- O 15055 S.W. Sequola Pkwy, Suite 110 Portland, OR 97222 (503) 624-9800

Consultant Company: (	reller-Ry	on In	c	_001	145	Project	Name	: Fo.	mer	· U	احءهد	22	# 2517		7
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City: Dublin		CA		Zip Code	:94568	AFE #:									1
Telephone: (925) 5	51-7555	<u> </u>	FAX #:	125) 55	51-7899	Site #,	City, S	tate:	13	00	Day	's c	1 €04	Leandro	Client
Report To: Deanne	Harding	Sample	r: 3	e Ai	emian/	QÇ Dal									7 .
rumaroung 🔼 10 Wo	rk Days 🔲 5 N	Nork Day	s 🔾 3 V	Vork Davs		rinking \		L.CVC1	D (Start	uaro)			Level	B C Level A	֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞
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Relinquished By:		<del>-</del>	Date:		Time:	Recei						- 1	ate:	Time:	White -
Relinquished By:  Tre Samples Received in	Good Canditi	on2 (2) V-	Date:		Time:	Recei					·	D	ate:	Time:	5
mpleted upon rec	ent of report				mples on Ice?									Page of	
he analyses report issu	reque <b>sted on</b> t ued wit <b>hin the r</b>				-	, ,,,,,	~, ,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	maiv		needed ne?	?			
~~~~	~		Sig	nature: _				Comp	any: _					Date:	

### WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility <u>#25</u>	12	·	Job	#: _2	80036		···
	00 Davis S	<b>L</b>	Dat	e: <i></i> /	-18-00	9	
	Leandro			npler <u>:</u>	Joe		
Well ID	Mw-9	Wel	l Condition:	o.k			
Well Diameter	2 in.	Hyd	rocarbon	^	Amount B	ailed	(Gallons)
Total Depth	30.00 tt.	Vo	lune 2° =	0.17	3" = 0.38	4	
Depth to Water	14.25 tt.	Fa	ctor (VF)	6 = 1.	50 	12" = 5.80	
	x	VF <u>0-17</u>	= 2.6 x 3 (cas	se volume) =	Estimated Pu	rge Volume: _	gai.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Sampling Equipme	nt: Dis Bai Pre Gra	posable Baller ler essure Balle ab Sample ner:	- er	
Purging Flow Ra	8:3 8:3 8:5 te:1	SAM gpm.	Weather Condi Water Color: _ Sediment Desc If yes; Time:	ription:	Nou.	Odor: <u>v</u> a	12
Time V	Volume pH (gal.) 7.27	Con.	ductivity D Ten	nper≥ture	D.O. (mg/L)		Alkalinity (ppm)
		1 4806	RATORY INFORM	WATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	/ LABO	RATORY	ANAL	
Mw.9	3 vot 2 vot	<b>Υ</b>	HC(	· SEQUON		SOID	ntbe
COMMENTS:							

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility #25	12		Jo	b#:	280036		<del></del>
Address: _13e	o Davis S	<u> </u>	Da	ite: _	1-18-00	J	
City: <u>Saa</u>	leandro		Sa	impler: _	Joe		
Well ID	Mw-8	Wei	Condition:	_0.	<u></u>		
Well Diameter	u in.		rocarbon	Q "	Amount B		4 <b>€</b> =#===1
Total Depth	29.90 t.		kness:1	= 0.17	$\frac{1}{3^n} = 0.38$		(Gallons) = 0.66
Depth to Water	14.67 tt.	F-2/	tor (VF)		1.50	12" = 5.80	
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		= <u>2.59</u> x 3 (c Samplin Equipm	ng ent: E F	= Estimated Publisposable Bailer Pressure Baile Grab Sample Other:	ailer er	(Japl.)
_	8:2e 	<u>റ</u> ഈന്ന.	Weather Cond Water Color: Sediment Des If yes; Time:	cription: _	rone	Odor: No	ne
	Solume pH (gal.) 3 7.69 5 7.46 8 7-47		0.25	70. 2 69. 8 70. 2 69. 6	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
SAMPLE ID	(#) - CONTAINER	LABOR REFRIG.	ATORY INFOF	E / LAE	BORATORY	ANAL	
mw-8	310A	Y	Hel	· SEQUO	OTA	TPH(G)/btex/n	ntbe
	240A		1/			8015	
COMMENTS: _							

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility <u># 25</u>	12		Job#	<u> </u>	180036		
•	Davis et.		Date	: _1	-18-00	)	
	eaudro			Amount Bailed  Ifeet) (product/water):  = 0.17			
Well ID	MW-7	Wel	Condition:	0.10			
Well Diameter	2 in.	Hyd	rocarbon				(Gallons)
Total Depth	29.70 tt	Vo	lume 2* = 0	.17	3* = 0.38	3 4*	1
Depth to Water	12.38 tt.	Fac	ctor (VF)	6° = 1.		12" = 3.80	
	17.32 x	VF # 17	= <u>2.94</u> x 3 (case	volume) =	Estimated Pu	rge Volume:	9 (qal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Sampling Equipment	Bai Pre Gra	iler essure Baile ab Sample	er	-
Sampling Time: Purging Flow Rat	7: 7:4 te: 1	46 A.m.	Water Color: Sediment Descri	Cle	NON R	Odor: <u>и</u>	cne
7:33	7.60 (gal.) 7.60 7.67 9 7.52	- {	ductivity 100 Temp hos/cm 4 6.85 69 8.78 69	7.5			Alkalinity (ppm)
		LABOF	RATORY INFORM	ATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE				
MW-7	3 v o A	Y	HCL€.		<del></del>	<del></del>	ntbe
	ZYOA	11	//			8010	
COMMENTS: _							<del></del>
							9/97-Anisac.

## WELL INDIVITIONING/SAIVIPLING FIELD DATA SHEET

Client/ Facility <u>#25</u> 1	2		Job#	Job#: 280036					
	o Davis st.		Date	: [	- 18-0	0			
		<del></del>			Joe				
City:Sau	Leandro		Sam	pier:	300	<u></u>	<del></del>		
Well ID	mw-3	Wei	l Condition:		, k .				
Well Diameter			rocarbon ckness:		Amount B		(Gallons)		
Total Depth	32.20 ft.			0.17			= 0.66		
Depth to Water	13.05 ft.	Fac	ctor (VF)	6 = 1.	50 ————	12" = 5.80			
	19.15 x	vf <u>0.17</u>	= 3.26 x 3 (case	volume) = 1	Estimated Pu	ırge Volume:	10 loal.)		
Purge	Disposable Bailer		Sampling	as Diag	oosable Ba	ilbe-	-		
Equipment:	Bailer		Equipmen	E DIS		1015			
	Stack				ssure Baile	<b>≘</b> r			
	Grundfos				b Sample				
	Other:			Oth	er:				
	9! 9!: te:	37A. M	Weather Condition Water Color: Sediment Describing If yes; Time:	cleac iption:	none	Odor: C.			
	Volume pH (gal.) 7.5	Cone	ductivity   O Temphos/cm f	perature F 9.6_	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)		
9:27_	7 7.33		55 69	_					
9:28 -	10 7.38		7.45 6	7.3		<del></del>			
			· · · · · · · · · · · · · · · · · · ·						
		LABOR	RATORY INFORM	ATION					
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	•	TATORY	ANAL	YSES		
mw-3	340A	Y	H cC ·	SEQUOIA		TPH(G)/btex/n	ntbe		
1/	2 VOA	11	11	11		8019			
11	1 Amb	71		//		TPHD			
	<u> </u>	<u> </u>	<u> </u>			<u> </u>			
COMMENTS:			·						
						<del></del>			

### STANDARD OPERATING PROCEDURE -GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Unocal Corporation, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

# Table 2 Groundwater Analytical Results

Former Unocal Service Station #2512 1300 Davis Street

					Chloro-			
Well ID	Date	PCE	1,1-DCA	1,1,1-TCA	methane	1,1-DCE	1,2-DCB	TCE
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ррв)	(ppb)
	0.1/0.5/00	2.2	NO.	NID	ND	MD	ND	0.55
MW-I	04/25/ <b>89</b>	3.3	ND	ND	ND ND	ND	ND ND	ND
	11/06/ <b>90</b>	4.8	ND	ND	ND	ND		
	05/24/91	4.6	ND	ND	ND	ND	ND	ND
	06/09/ <b>94</b>	1.0	ND	ND	ND	ND	ND	ND
	09/08/ <b>94</b>	1.2	ND	ND	ND	ND	ND	ND
	01/25/9 <b>5</b>	DESTROYED						***
MW-2	04/25/8 <b>9</b>	0.68	ND	ND	ND	ND	ND	ND
	11/06/9 <b>0</b>	ND	ND	ND	ND	ND	ND	ND
	05/24/91	ND	ND	ND	ND	ND	ND	ND
	08/15/91	ND	ND	ND	ND	ND	ND	ND
	11/19/91	ND	ND	ND	ND	ND	ND	ND
	02/27/9 <b>2</b>	ND	ND	ND	ND	ND	ND	ND
	05/26/9 <b>2</b>	ND	ND	ND	ND	ND	ND	ND
	10/30/9 <b>2</b>	ND	ND	ND	ND	ND	ND	ND
	06/09/94	ND	ND	ND	ND	ND	ND	ND
	09/08/94	ND	ND	ND	ND	ND	ND	ND
	01/25/95	DESTROYED					<b></b>	
MW-3	04/25/89	1.0	ND	ND	ND	ND	ND	ND
	11/06/90	ND	ND	ND	ND	ND	ND	ND
	05/24/91	ND	ND	ND	ND	ND	ND	ND
	08/15/91	NOT SAMPLED I						
	11/19/91	NOT SAMPLED I				=-	~ <del>-</del>	
	02/27/92			ESENCE OF FREI				
	05/26/92	ND	ND	ND	ND	ND	ND	ND
	10/30/92			ESENCE OF FREE			<u></u>	
	06/09/94	ND	ND	ND	ND	ND	ND	ND
	09/08/94			ESENCE OF FREI			~~	
	10/21/95	ND ND	ND	ND	ND	ND	ND ·	ND
	01/24/96	ND	ND	ND	ND	ND	ND	ND
	04/23/96	ND	ND	ND	ND	ND	ND	ND
	07/25/96	ND	ND	ND	ND	ND	ND	ND

Table 2
Groundwater Analytical Results

					Chloro-			
Well ID	Date	PCE	1,1-DCA	1,1,1-TCA	methane	1,1-DCE	1,2-DCB	TCE
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
					a Tra	ND	ND	NID
MW-3	10/25/96	ND	ND	ND	ND	ND	ND	ND
(cont)	01/28/9 <b>7</b>	ND	ND	ND	ND	ND	ND	ND
	04/16/9 <b>7</b>	ND	ND	ND	ND	ND	ND	ND
	07/21/9 <b>7</b>	ND	ИD	ND	ND	ND	ND	ND
	10/20/9 <b>7</b>	ND	ND	ND	ND	ND	ND	ND
	01/21/9 <b>8</b>	ND	ND	ND	ND	ND	ND	ND
	04/17/9 <b>8</b>	ND	ND	ND	ND	ND	ND	ND
	07/14/9 <b>8</b>	0.55	ND	ND	ND	ND	√ND	ND
	10/12/9 <b>8</b>	0.51	ND	ND	ND	ND	ND	ND
	01/19/9 <b>9</b>	ND	ND	ND	ND	ND	ND	ND
	04/07/9 <b>9</b>	0.54	ND	ND	ND	ИD	ND	ND
	07/12/9 <b>9</b>	ND	ND	ND	ND	ND	ND	ND
	10/25/99 <sup>5</sup>	ND	ND	ND	ND	ND	ND	ND
	01/18/00 <sup>10</sup>	$ND^{14}$	$ND^{14}$	$ND^{14}$	$ND^{14}$	ND <sup>14</sup>	ND <sup>14</sup>	ND <sup>14</sup>
MW-4	11/06/90	2.9	ND	ND	ND	ND	NĐ	ND
	05/24/91	4.1	2,5	3.9	ND	ND	ND	ND
	08/15/91	3.6	ND	ND	ND	ND	ND	ND
	11/19/91	3.4	ND	ND	ND	ND	ND	ND
	02/27/92	3.5	6	ND	ND	ND	ND	ND
	05/26/92	2.4	13	3.5	ND	0.83	ND	ND
	10/30/92	INACCESSIBLE						
	06/09/94	2.8	8.8	0.83	ND	0.51	ND	0.70
	09/08/941	1.8	ND	ND	ND	ND	ND	0.60
	01/25/95	DESTROYED		~~	<b>~</b> -			
MW-5	11.06/90	0.7	ND	ND	ND	ND	ND	ND
	05/24/91	0.89	ND	ND	ND	ND	ND	ND
	06/09/94	INACCESSIBLE			~~			
	09/08/94	INACCESSIBLE				**		
	01/25/95	DESTROYED						

**Table 2**Groundwater Analytical Results

	.,,			Chloro-	- :		
Date	PCE	1,1-DCA	1,1,1-TCA	methane	1,1-DCE	1,2-DCB	TCE
- <u> </u>	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
11/02/00	1.2	A.T.F···	) In	MD	). Tra	MIN	NIIN
							ND
							ND
							ND
							ND
02/27/ <b>92</b>							ND
05/26/9 <b>2</b>							ND
10/30/9 <b>2</b>	1.2	ND	ND	ND	ND	ND	ND
()6/()9/9 <b>4</b>	INACCESSIBLE					<b>10</b> 10	
09/08/94	INACCESSIBLE		***	<b>.</b> -	*-		
01/25/9 <b>5</b>	DESTROYED				~=	<b>~</b> -	
	,						
02/27/9 <b>2</b>	· 2.4	ND	ND	ND	ND	ND	ND
05/26/9 <b>2</b>	2.2	ND	ND	ND	ND	ND	ND
10/30/9 <b>2</b>	2.2	ND	ND	ND	ND	ND	ND
()6/()9/94	0.67	ND	ND	ND	ND	ND	ND
09/08/94	0.76	ND	ND	ND	ND	ND	ND
10/21/95	ND	ND	ND	ND	ND	ND	ND
01/24/96	1.2	ND	ND	ND	ND	ND	ND
04/23/96	0.84	ND	ND	ND	ND	ND	ND
07/25/96	1.7	ND	ND	ND	ND	ND	ND
10/25/961	1.2	ND	ND	ND	ND	ND	ND
01/28/97	1.4	ND	NĐ	ND	ND	ND	ND
()4/19/97	0.75	ND	ND	ND	ND	ND	ND
07/21/97		ND	ND	ND	ND	ND	ND
						ND	ND
							ND
							ND
							ND
							ND
							ND
							ND
	11/06/90 05/24/91 08/15/91 11/19/91 02/27/92 05/26/92 10/30/92 06/09/94 09/08/94 01/25/95 02/27/92 05/26/92 10/30/92 06/09/94 09/08/94 10/21/95 01/24/96 04/23/96 07/25/96 <sup>2</sup> 01/28/97 04/19/97	(ppb)  11/06/90 1.2 05/24/91 0.88 08/15/91 1.2 11/19/91 1.3 02/27/92 1.5 05/26/92 1.1 10/30/92 1.2 06/09/94 INACCESSIBLE 09/08/94 INACCESSIBLE 01/25/95 DESTROYED   02/27/92 2.4 05/26/92 2.2 10/30/92 2.2 10/30/92 2.2 10/30/92 1.2 06/09/94 0.67 09/08/94 0.76 10/21/95 ND 01/24/96 1.2 04/23/96 0.84 07/25/96 1.7 10/25/96 1.7 10/25/96 1.7 10/25/96 1.7 10/25/96 1.5 01/21/97 1.5 10/20/97 1.5 01/21/98 1.2 04/17/98 0.76 07/14/98 1.4 10/12/98 1.4 10/12/98 1.4	(ppb)   (ppb)   (ppb)   (1/106/90   1.2   ND   (05/24/91   0.88   ND   (08/15/91   1.2   ND   (11/19/91   1.3   ND   (02/27/92   1.5   ND   (05/26/92   1.1   ND   (05/26/92   1.2   ND   (06/09/94   INACCESSIBLE   (01/25/95   DESTROYED   (01/25/95   DESTROYED   (01/25/95   DESTROYED   (01/25/95   ND   ND   (05/26/92   2.2   ND   (05/26/92   2.2   ND   (06/09/94   0.67   ND   (09/08/94   0.67   ND   (09/08/94   0.76   ND   (09/08/94   0.76   ND   (01/24/95   ND   ND   (01/24/96   1.2   ND   (01/24/96   1.2   ND   (01/25/96   1.7   ND   (01/25/96   1.7   ND   (01/25/96   1.7   ND   (01/25/96   1.7   ND   (01/25/96   1.5   ND   (01/28/97   1.4   ND   (01/28/97   1.5   ND   (01/21/98   1.2   ND   (01/21/98   1.2   ND   (01/21/98   1.4   ND   (01/19/99   1.3   ND   (01/19/19/10   1.3   ND   (01/19/19/10   1.3   ND   (01/19/19/10   1.3   ND   (01/19/10   1.3   ND   (01/19/10	(ppb)   (ppb	Date   PCE   1,1-DCA   1,1,1-TCA   methane   (ppb)   (ppb)	Date   PCE   1,1-DCA   1,1,1-TCA   methane   (ppb)   (ppb)	Date   PCE   1,1-DCA   1,1,1-TCA   methane   1,1-DCE   1,2-DCB   (ppb)   (pp

Table 2
Groundwater Analytical Results

					Chloro-			
Well ID	Date	PCE	1,1-DCA	1,1,1-TCA	methane	1,1-DCE	1,2-DCB	TCE
		(ppb)						
MW 7	()7/12/ <b>99</b>	1.1	ND	ND	ND	ND	ND	ND
cont)	10/25/ <b>99</b>	3.16	ND	ND	ND	ND	ND	ND
(с(ли)	01/ <b>18</b> /0 <b>0</b> <sup>11</sup>	ND <sup>14</sup>						
VIW-8	10/21/95	ND						
	01/24/ <b>96</b>	0.74	ND	ND	ND	ND	ND	ND
	04/23/96	1.1	ND	ND	ND	ND	ND	ND
	07/25/96	1.1	ND	ND	ND	ND	ND	ND
	10/25/9 <b>6</b>	0.90	ND	ND	ND	ND	ND	ND
	01/28/9 <b>7</b>	0.96	ND	ND	ND	ND	ND	ND
	04/16/9 <b>7</b>	0.51	ND	ND	ND	ND	ND	ND
	07/21/9 <b>7</b>	ND						
	10/20/97	1.1	ND	ND	ND	ND	ND	ND
	01/21/98	0.77	ND	ND	ND	ND	ND	ND
	04/17/98	ND						
	07/14/98	1.3	ND	ND	ND	ND	ND	ND
	10/12/98	1.5	ND	ND	ND	ND	ND	ND
	01/19/9 <b>9</b>	0.71	ND	ND	ND	ND	ND	ND
	()4,()7/99 <sup>4</sup>	1.0	ND	ND	ND	ND	ND	ND
	07/12/99	0.66	ND	ND	ND	ND	ND	ND
	10/25/99 <sup>7</sup>	$1.5^{6}$	ND	ND	ND	ND	ND	ND
	01/18/00 <sup>12</sup>	ND <sup>14</sup>						
\1\V'-9	10/21/95	17	1.0	ND	ND	ND	ND	ND
,,,,,	01/24/96	17	2.2	ND	ND	ND	ND	0.64
	04/23/96	71	ND	ND	ND	ND ND	ND	ND
	07/25/96	1.0	ND.	ND	ND	ND ND	ND	ND
	10/25/96	80	ND ND	ND	ND	ND	ND ND	ND
	01/28/97	39	ND ND	ND ND	ND ND	ND	ND	ND
	04/16/97	0.51	ND ND	ND ND	ND ND	ND	ND	ND
	07/21/97	7.5	ND ND	ND ND	ND	ND	. ND	ND
								ND
	10/20/97	47	ND	ND	ND	ND	ND	

Table 2
Groundwater Analytical Results

San	Leandro,	California
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Well ID	Date	PCE (ppb)	1,1-DCA (ppb)	1,1,1-TCA (ppb)	Chloro- methane <i>(ppb)</i>	1,1-DCE (ppb)	1,2-DCB (ppb)	TCE (ppb)
MW-9	01/21/ <b>98</b>	22	0.73	ND	ND	ND	ND .	0.50
(cont)	04/17/ <b>98</b>	120	ND	ND	ND	ND	ND	ND
	07/14/ <b>98</b>	110	ND	ND	ND	ND	ND	0.72
	10/12/ <b>98</b>	46	ND	ND	ND	ИN	ND	ND
	01/19/ <b>99</b>	38	0.72	ND	ND	ND	ND	0.54
	04/07/ <b>99</b>	41	ND	ND	ND	ND	ND	0.64
	07/12/ <b>99</b>	26	ND	ND	ND	ND	ND	ND
	10/25/9 <b>9<sup>8</sup></b>	23 <sup>6</sup>	ND	ND	ND	ND	ND	ND
	01/18/0 <b>0<sup>13</sup></b>	$ND^{14}$	ND <sup>14</sup>	ND <sup>14</sup>	$ND^{14}$	$ND^{14}$	ND <sup>14</sup>	ND <sup>14</sup>

#### Table 2

#### **Groundwater Analytical Results**

Former Unocal Service Station #2512 1300 Davis Street San Leandro, California

#### EXPLANATIONS;

Groundwater analytical results prior to January 21, 1998, were compiled from reports prepared by MPDS Services, Inc.

PCE = Fetrachloroethene

1.1-DCA = 1.1-Dichloroethane

1.1.1-TCA = 1.1.1-Trichlorethane

1.1.1-DCE = 1.1-Dichloroethene

1.2-DCB = 1.2-Dichlorobenzene

TCE = Trichloroethene

ppb = Parts per billion

-- = Not Analyzed

ND = Not Detected

- 1 2-Dichlorothane (1,2-DCA) was detected at a concentration of 4.8 ppb.
- <sup>2</sup> Chlorotorm was detected at a concentration of 1.7 ppb.
- Chloroform was detected at a concentration of 0.68 ppb.
- <sup>4</sup> Chloroform was detected at a concentration of 0.53 ppb.
- Laboratory report indicates Methylene chloride, which is a suspected laboratory contaminant, was detected at a concentration of 9.6 ppb.
- 6 Laboratory report indicates reanalysis by an alternate column or method has confirmed the identification and/or concentration of this result.
- Laboratory report indicates Methylene chloride, which is a suspected laboratory contaminant, was detected at a concentration of 8.2 ppb.
- 8 Laboratory report indicates Methylene chloride, which is a suspected laboratory contaminant, was detected at a concentration of 7.8 ppb.
- Bromodichloromethane was detected at a concentration of 3.79 ppb and Chloroform at 40.3 ppb.
- Bromodichloromethane was detected at a concentration of 4.78 ppb and Chloroform at 52.8 ppb.
- Chloroform was detected at a concentration of 52.9 ppb.
- 13 Chloroform was detected at a concentration of 51.9 ppb.
- Detection limit raised | Refer to analytical reports.

All EPA Method 8010 constituents were ND, except as indicated.

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Table 3
Groundwater Analytical Results - Oxygenate Compounds

San Leandro, California

Date	Ethanol (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)	
04/07/99	ND	ND	4.7	ND	ND	ND	ND	ND	
04/07/99	ND	ND	ND	ND	ND	ND	ND	ND	
04/07/99	ND	ND	ND	ND	ND	ND	ND	ND	
04/07/99	ND	ND	6.4	ND	ND	ND	ND	ND	
	04/07/99 04/07/99 04/07/99	(ppb) .  04/07/99 ND  04/07/99 ND  04/07/99 ND	(ppb)         (ppb)           04/07/99         ND         ND           04/07/99         ND         ND           04/07/99         ND         ND	Date         Ethanol (ppb)         TBA (ppb)         MTBE (ppb)           04/07/99         ND         ND         4.7           04/07/99         ND         ND         ND           04/07/99         ND         ND         ND	Date         Ethanol (ppb)         TBA (ppb)         MTBE (ppb)         DIPE (ppb)           04/07/99         ND         ND         ND         4.7         ND           04/07/99         ND         ND         ND         ND         ND           04/07/99         ND         ND         ND         ND         ND	Date         Ethanol (ppb)         TBA (ppb)         MTBE (ppb)         DIPE (ppb)         ETBE (ppb)           04/07/99         ND         ND         ND         4.7         ND         ND           04/07/99         ND         ND         ND         ND         ND           04/07/99         ND         ND         ND         ND         ND	Date         Ethanol (ppb)         TBA (ppb)         MTBE (ppb)         DIPE (ppb)         ETBE (ppb)         TAME (ppb)           04/07/99         ND         ND         4.7         ND         ND         ND           04/07/99         ND         ND         ND         ND         ND         ND           04/07/99         ND         ND         ND         ND         ND         ND	Date         Ethanol (ppb)         TBA (ppb)         MTBE (ppb)         DIPE (ppb)         ETBE (ppb)         TAME (ppb)         EDB (ppb)           04/07/99         ND         ND         ND         4.7         ND         ND         ND         ND           04/07/99         ND         ND         ND         ND         ND         ND         ND           04/07/99         ND         ND         ND         ND         ND         ND         ND	

### **EXPLANATIONS:**

TBA = Tertiary Butyl Alcohol

MTBF - Methyl Tertiary Butyl Ether

DIPE = Di isopropyl Ether

ETBE = Ethyl Tertiary Butyl Ether

TAME = Tertiary Amyl Methyl Ether

EDB = 1,2-Dibiomoethane

1,2-DCA = 1/2-Dichloroethane

ppb = Parts per billion ND = Not Detected

### ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds