



GETTLER-RYAN INC.

March 20, 2001
G-R Job #180021

RECEIVED
9:32 am, Mar 23, 2009
Alameda County
Environmental Health

Mr. David B. De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: **First Semi-Annual Event of February 2, 2001**
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #6419
6401 Dublin Boulevard
Dublin, California

Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

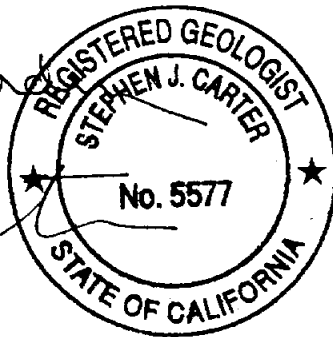
Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 3. 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 4. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

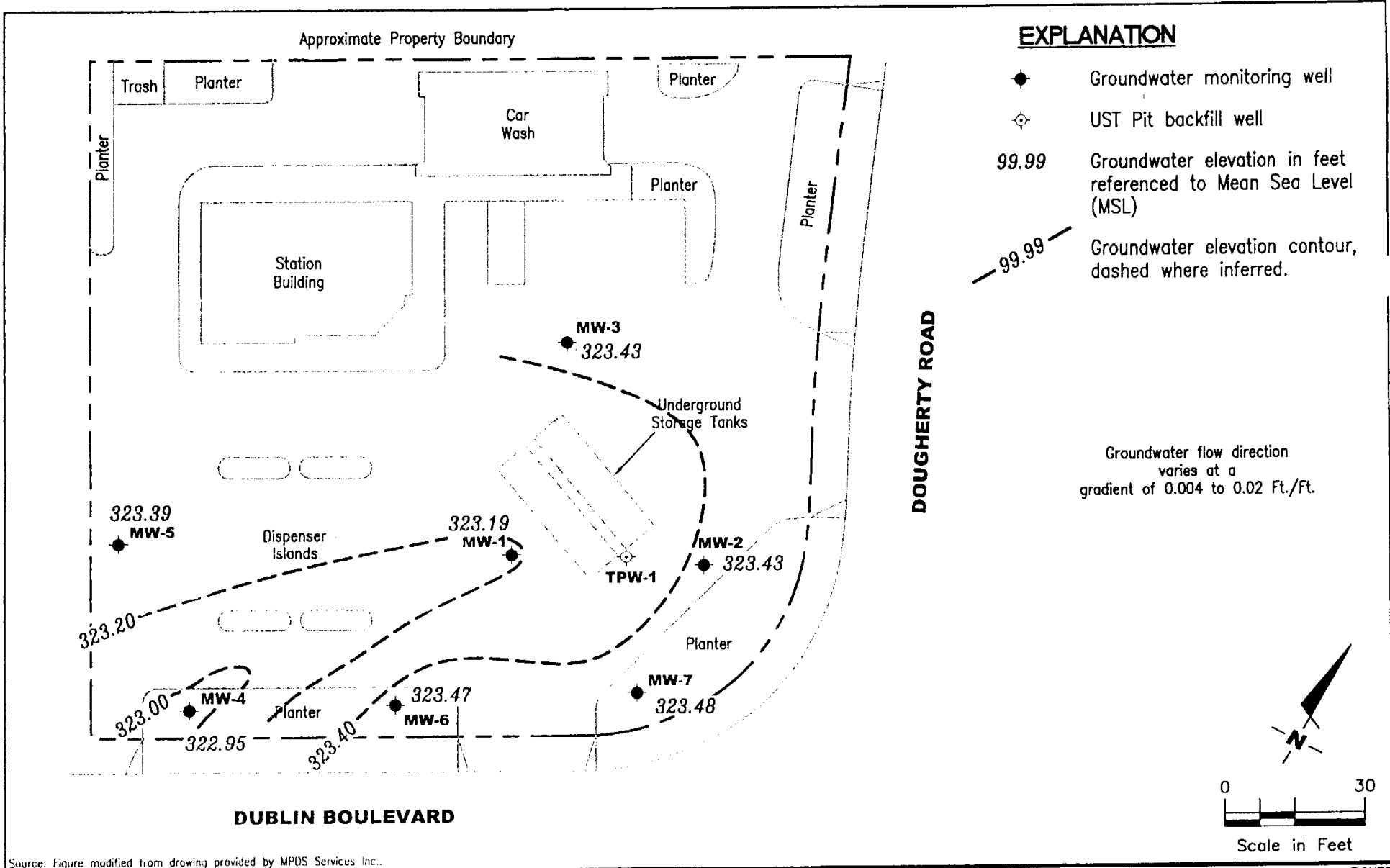
Deanna L. Harding
Deanna L. Harding
Project Coordinator

Stephen J. Carter
Stephen J. Carter
Senior Geologist, R.G. No. 5577



- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Metals
- Table 3: Dissolved Oxygen Concentrations
- Table 4: Groundwater Analytical Results - Oxygenate Compounds
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

256419	SS	X	BP
QM	X	TRANSMITTAL	
3	4	5	6



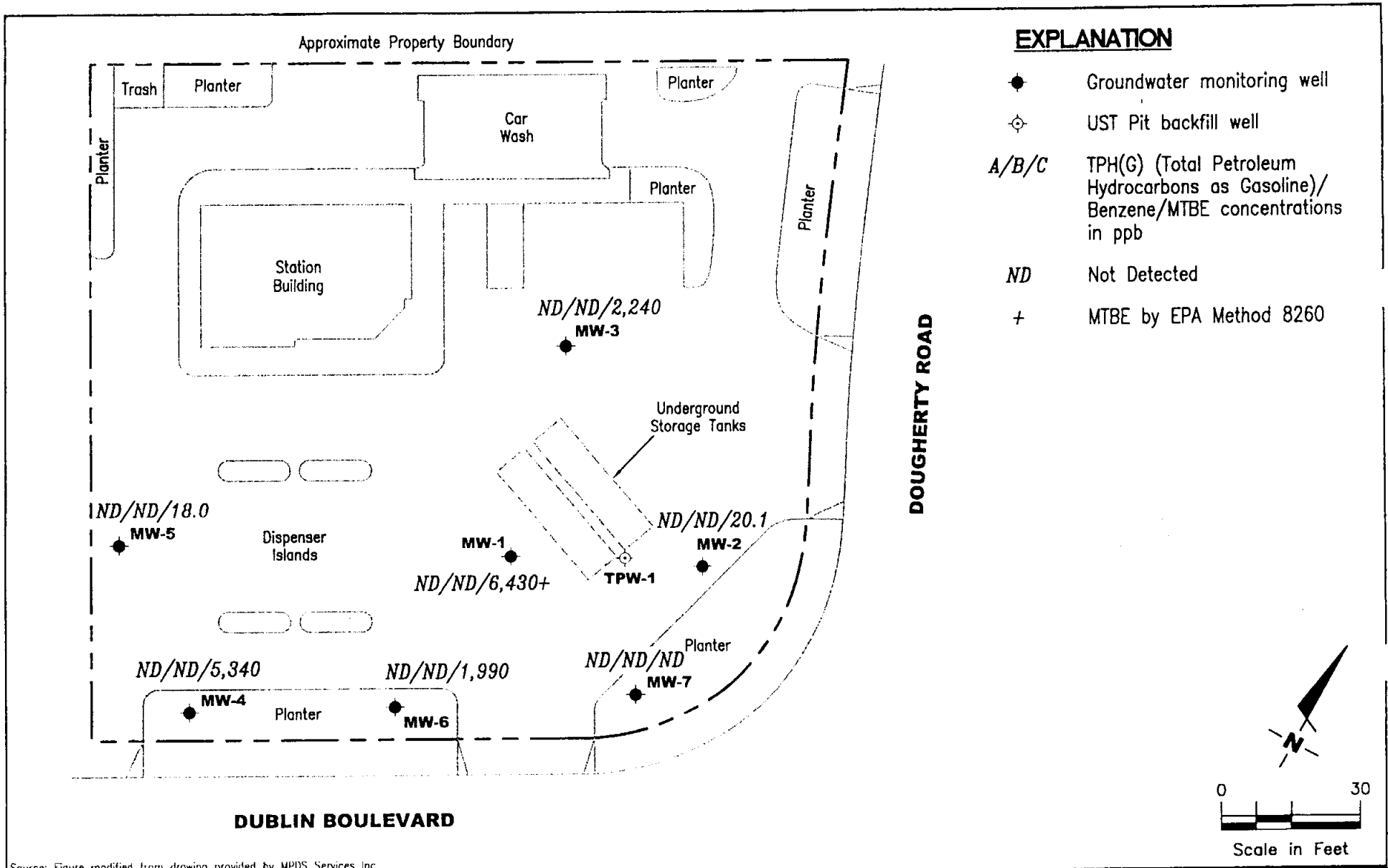
Source: Figure modified from drawing provided by MPOS Services Inc..

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

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

FIGURE
1

PROJECT NUMBER 180021	REVIEWED BY	DATE February 2, 2001	REVISED DATE
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GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

CONCENTRATION MAP
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

FIGURE
2

PROJECT NUMBER
 180021

REVIEWED BY

DATE
 February 2, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1										
330.45	03/14/94	7.27	323.18	810 ¹	1,800 ²	17	ND	ND	ND	--
	08/25/94	8.57	321.88	910 ³	9,200 ²	48	ND	540	ND	--
	09/30/94	8.78	321.67	--	--	--	--	--	--	--
	10/20/94	8.98	321.47	--	--	--	--	--	--	--
	11/18/94	7.69	322.76	910 ³	5,100	33	ND	560	38	--
	12/20/94	7.58	322.87	--	--	--	--	--	--	--
	01/17/95	6.03	324.42	--	--	--	--	--	--	--
	02/15/95	6.29	324.16	660 ¹	3,300	13	ND	180	5.2	--
	03/13/95	5.64	324.81	--	--	--	--	--	--	--
	04/06/95	5.62	324.83	--	--	--	--	--	--	--
	05/17/95	6.26	324.19	200 ³	130	0.75	ND	1.5	ND	--
	06/15/95	6.75	323.70	--	--	--	--	--	--	--
	08/25/95	7.91	322.54	--	490	9.1	ND	21	2.0	-- ⁵
	11/28/95	9.03	321.42	--	1,400	18	3.0	98	3.6	-- ⁵
	02/26/96	5.77	324.68	--	560	9.3	ND	22	ND	1,300
	08/23/96	7.78	322.67	--	ND	ND	ND	ND	ND	640
330.23	02/17/97	5.73	324.50	--	120 ⁴	1.0	0.95	ND	ND	280
	08/18/97	7.38	322.85	--	ND	ND	ND	ND	ND	100
	02/02/98 ⁶	5.10	325.13	--	ND ⁷	130	ND ⁷	ND ⁷	ND ⁷	32,000
	08/24/98	6.73	323.50	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	26,000/24,000 ⁸
	02/10/99	5.46	324.77	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	84,000/100,000 ⁸
	04/12/99	6.38	323.85	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	140,000/120,000 ⁸
330.21	05/21/99	5.95	324.26	--	--	--	--	--	--	--
	08/02/99	6.75	323.46	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	91,000/140,000 ¹⁰
	02/11/00	6.44	323.77	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	38,000/39,000 ⁸
330.18**	07/26/00 ¹¹	7.08	323.10	--	146 ¹²	ND	ND	ND	ND	30,900/42,800 ¹⁰
	02/02/01	6.99	323.19	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	5,380/6,430 ⁸

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2										
330.40	03/14/94	7.23	323.17	--	ND	ND	2.8	1.1	8.0	--
	08/25/94	8.41	321.99	--	ND	ND	ND	ND	ND	--
	09/30/94	8.73	321.67	--	--	--	--	--	--	--
	10/20/94	8.92	321.48	--	--	--	--	--	--	--
	11/18/94	7.67	322.73	--	ND	ND	ND	ND	ND	--
	12/20/94	7.48	322.92	--	--	--	--	--	--	--
	01/17/95	6.00	324.40	--	--	--	--	--	--	--
	02/15/95	6.16	324.24	--	ND	ND	ND	ND	ND	--
	03/13/95	5.59	324.81	--	--	--	--	--	--	--
	04/06/95	5.51	324.89	--	--	--	--	--	--	--
	05/17/95	6.15	324.25	--	ND	ND	ND	ND	ND	--
	06/15/95	6.61	323.79	--	--	--	--	--	--	--
	08/25/95	7.45	322.95	--	ND	ND	ND	ND	ND	--
	11/28/95	8.85	321.55	--	ND	ND	ND	ND	ND	--
	02/26/96	5.49	324.91	--	ND	ND	ND	ND	ND	--
	08/23/96	7.44	322.96	SAMPLED ANNUALLY		--	--	--	--	--
330.27	02/17/97	5.64	324.63	--	ND	ND	ND	ND	ND	ND
	08/18/97	7.40	322.87	--	--	--	--	--	--	--
	02/02/98	5.09	325.18	--	ND	ND	ND	ND	ND	62
	08/24/98	6.70	323.57	--	--	--	--	--	--	--
	02/10/99	5.56	324.71	--	ND	ND	ND	ND	ND	130
330.30	05/21/99	5.98	324.32	--	--	--	--	--	--	--
	08/02/99	6.72	323.58	--	ND	ND	ND	ND	ND	120
	02/11/00	6.43	323.87	--	ND	ND	ND	ND	ND	39
330.24**	07/26/00 ¹¹	7.03	323.21	--	ND	ND	ND	ND	ND	89.9
	02/02/01	6.81	323.43	--	ND	ND	ND	ND	ND	20.1

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3										
331.11	03/14/94	7.93	323.18	--	150 ⁴	ND	ND	ND	ND	--
	08/25/94	9.20	321.91	--	130 ⁴	ND	ND	ND	ND	--
	09/30/94	9.43	321.68	--	--	--	--	--	--	--
	10/20/94	9.64	321.47	--	--	--	--	--	--	--
	11/18/94	8.39	322.72	--	130 ⁴	ND	ND	ND	ND	--
	12/20/94	8.20	322.91	--	--	--	--	--	--	--
	01/17/95	6.72	324.39	--	--	--	--	--	--	--
	02/15/95	6.93	324.18	--	130 ⁴	ND	ND	ND	ND	--
	03/13/95	6.30	324.81	--	--	--	--	--	--	--
	04/06/95	8.20	322.91	--	--	--	--	--	--	--
	05/17/95	6.88	324.23	--	99 ⁴	ND	ND	ND	ND	--
	06/15/95	7.35	323.76	--	--	--	--	--	--	--
	08/25/95	8.20	322.91	--	ND	ND	ND	ND	ND	-- ⁵
	11/28/95	9.52	321.59	--	ND	ND	ND	ND	ND	--
	02/26/96	6.25	324.86	--	ND	ND	ND	ND	ND	-- ⁵
	08/23/96	7.98	323.13	SAMPLED ANNUALLY		--	--	--	--	--
330.68	02/17/97	6.07	324.61	--	ND	ND	ND	ND	ND	68
	08/18/97	7.82	322.86	--	--	--	--	--	--	--
	02/02/98	5.50	325.18	--	ND	ND	ND	ND	ND	100
	08/24/98	7.12	323.56	--	--	--	--	--	--	--
	02/10/99	5.80	324.88	--	ND	ND	ND	ND	ND	92
330.49	05/21/99	6.16	324.33	--	--	--	--	--	--	--
	08/02/99	6.95	323.54	--	ND	ND	ND	ND	ND	140
	02/11/00	6.71	-- ¹¹	--	ND	ND	ND	ND	ND	46
330.60**	07/26/00 ¹³	7.35	323.25	--	ND	ND	ND	ND	ND	927
	02/02/01	7.17	323.43	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	2,240

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WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4										
330.36	05/21/99 ⁹	6.43	323.93	--	ND	ND	ND	ND	ND	960/910 ⁸
	08/02/99	7.34	323.02	--	ND	10	ND	13	11	ND
	02/11/00	6.92	323.44	--	ND	ND	ND	ND	ND	2,700
330.35**	07/26/00 ¹³	7.68	322.67	--	ND	ND	ND	ND	ND	3,710
	02/02/01	7.40	322.95	--	ND⁷	ND⁷	ND⁷	ND⁷	ND⁷	5,340
MW-5										
330.20	05/21/99 ⁹	5.99	324.21	--	ND	ND	ND	ND	ND	32/33 ⁸
	08/02/99	6.83	323.37	--	ND	ND	ND	ND	ND	230
	02/11/00	6.34	323.86	--	ND	ND	ND	ND	ND	98
	07/26/00 ¹³	7.06	323.14	--	ND	ND	ND	ND	ND	25.9
	02/02/01	6.81	323.39	--	ND	ND	ND	ND	ND	18.0
MW-6										
330.49	05/21/99 ⁹	6.24	324.25	--	ND	ND	ND	ND	ND	2,200/2,300 ⁸
	08/02/99	7.10	323.39	--	ND	ND	ND	ND	ND	ND
	02/11/00	6.60	323.89	--	ND	ND	ND	ND	ND	2,500
	07/26/00 ¹³	7.31	323.18	--	ND	ND	ND	ND	ND	4,280
	02/02/01	7.02	323.47	--	ND⁷	ND⁷	ND⁷	ND⁷	ND⁷	1,990
MW-7										
330.43	05/21/99 ⁹	6.13	324.30	--	ND	ND	ND	ND	ND	22/22 ⁸
	08/02/99	6.92	323.51	--	ND	ND	ND	ND	ND	31
	02/11/00	6.50	323.93	--	ND	ND	ND	ND	ND	20
	07/26/00 ¹³	7.18	323.25	--	ND	ND	ND	ND	ND	17.9
	02/02/01	6.95	323.48	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
Toseco (Unocal) Service Station #6419
6401 Dublin Boulevard
Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
Trip Blank										
TB-LB	02/02/98	--	--	--	ND	ND	ND	ND	ND	ND
	08/24/98	--	--	--	ND	ND	ND	ND	ND	ND
	02/10/99	--	--	--	ND	ND	ND	ND	ND	ND
	04/12/99	--	--	--	ND	ND	ND	ND	ND	ND
	05/21/99	--	--	--	ND	ND	ND	ND	ND	ND
	08/02/99	--	--	--	ND	ND	ND	ND	ND	ND
	02/11/00	--	--	--	ND	ND	ND	ND	ND	ND
	07/26/00 ¹	--	--	--	ND	ND	ND	ND	ND	ND
	02/02/01	--	--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

EXPLANATIONS:

Groundwater monitoring data and laboratory results prior to February 2, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	B = Benzene	(ppb) = Parts per billion
DTW = Depth to Water	T = Toluene	ND = Not Detected
(ft.) = Feet	E = Ethylbenzene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation	X = Xylenes	
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	
TPH-D = Total Petroleum Hydrocarbons as Diesel		
TPH-G = Total Petroleum Hydrocarbons as Gasoline		

- * TOC elevations have been surveyed relative to msl, per the benchmark on the northwest corner of Dougherty Road and Sierra Way (Elevation = 331.728 feet msl). These TOC elevations have been used prior to the February 17, 1997 monitoring event. TOC elevations have been resurveyed (after station rebuilding) relative to Mean Sea Level (msl), per the Benchmark on the northwest corner of Dougherty Road and Sierra Way (Elevation = 331.728 feet msl).
- ** TOC elevations were surveyed on August 18, 2000. The benchmark for the survey was a chiseled square on top center of the concrete curb at the north curb return at the northwest corner of the intersection of Dougherty Road and Dublin Boulevard. (Benchmark Elevation = 330.60 ft., NGVD 1929)

- ¹ Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- ² Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- ³ Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- ⁴ Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- ⁵ 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.
- ⁶ Well appears to be obstructed at approximately 9 feet.
- ⁷ Detection limit raised. Refer to analytical reports.
- ⁸ MTBE by EPA Method 8260.
- ⁹ Ethanol, t-butanol, di-isopropyl ether (DIPE), ethyl t-butyl ether (ETBE), and t-amyl methyl ether (TAME) by EPA Method 8260 were all ND.
- ¹⁰ MTBE by EPA Method 8260, was analyzed past EPA recommended hold time.
- ¹¹ TOC has been damaged. Cannot accurately calculate GWE.
- ¹² Laboratory report indicates unidentified hydrocarbons C6-C12.
- ¹³ Laboratory report indicates insufficient preservative to reduce ample pH to less than 2. Sample was analyzed within 14 days, but beyond the seventh day recommended for Benzene, Toluene, Xylene and Ethylbenzene.

Table 2
Groundwater Analytical Data - Metals
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID	DATE	Cadmium (ppm)	Chromium (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
MW-1	03/14/94	ND	0.012	ND	0.030	0.039
	08/25/94	ND	ND	0.024	ND	ND
	11/18/94	ND	0.076	ND	0.067	ND
	02/15/95	ND	ND	ND	ND	ND
	05/17/95	ND	ND	ND	0.021	ND

EXPLANATIONS:

Groundwater laboratory analytical results were compiled from reports prepared by MPDS Services, Inc.

(ppm) = Parts per million

ND = Not Detected

Table 3
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-1	02/15/95	--	4.30
	05/17/95	--	1.20
	08/25/95	--	2.71
	11/28/95	--	3.25
	02/26/96	5.23	1.41
	08/23/96	3.83	N/A
	02/17/97	0.82	0.78
	08/18/97	1.28	2.35
MW-2	02/15/95	--	1.90
	02/26/96	0.62	0.43
	08/23/96	2.04	N/A
	02/17/97	0.90	0.82
	08/18/97	1.16	--
MW-3	02/15/95	--	2.60
	05/17/95	--	1.13
	08/25/95	--	1.86
	11/28/95	--	6.81
	02/26/96	16.83	1.11
	08/23/96	3.29	N/A
	02/17/97	0.80	0.80
	08/18/97	1.43	--

EXPLANATIONS:

Dissolved oxygen concentrations were compiled from reports prepared by MPDS Services, Inc.

mg/L = milligrams per liter

-- = Not Measured

N/A = Not Applicable

Table 4
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	07/26/00	--	ND ¹	42,800	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	02/02/01	--	--	6,430	--	--	--	--	--

EXPLANATIONS:

TBA = Tertiary butyl alcohol
 MTBE = Methyl tertiary butyl ether
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary butyl ether
 TAME = Tertiary amyl methyl ether
 1,2-DCA = 1,2-Dichloroethane
 EDB = 1,2-Dibromoethane
 (ppb) = Parts per billion
 -- = Not Analyzed
 ND = Not Detected

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

¹ Detection limit raised. Refer to analytical reports.

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 an 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, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. The measurements are taken 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 Tosco Marketing Company, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility TOSCO # 6419 Job#: 180021
 Address: 6401 Dublin Blvd. Date: 2/2/01
 City: Dublin, Ca. Sampler: Nattkes

Well ID MW-1 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth 9.23 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 6.99 ft. Factor (VF) 6" = 1.50 12" = 5.80
2.24 x VF 0.17 = 0.38 x 3 (case volume) = Estimated Purge Volume: 1.5 (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 12:30 Weather Conditions: overcast
 Sampling Time: 12:40 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:32	0.5	7.53	1297	60.7			
12:34	1	7.43	1311	61.3			
12:36	1.5	7.41	1320	61.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	5 YVOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe + MTBE (8260)

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility TOSCO # 6419 Job#: 180021
 Address: 6401 Dublin Blvd. Date: 2/2/01
 City: Dublin, Ca. Sampler: Vartkes

Well ID MW-2 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 17.60 ft.
 Depth to Water 6.81 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

10.79 X VF 0.17 = 1.83 X 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

Purge Equipment: Disposable Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 10:35 Weather Conditions: overcast
 Sampling Time: 10:52 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:37</u>	<u>2</u>	<u>7.73</u>	<u>2090</u>	<u>65.4</u>			
<u>10:39</u>	<u>4</u>	<u>7.58</u>	<u>2110</u>	<u>66.2</u>			
<u>10:41</u>	<u>5.5</u>	<u>7.54</u>	<u>2120</u>	<u>66.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 YVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility TOSCO # 6419 Job#: 180021
 Address: 6401 Dublin Blvd. Date: 2/2/01
 City: Dublin, Ca. Sampler: Vartkes

Well ID MW-3 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth 18.50 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 7.17 ft. Factor (VF) 6" = 1.50 12" = 5.80
11.33 X VF 0.17 = 1.92 X 3 (case volume) = Estimated Purge Volume: 6.0 (gal.)

Purge Equipment: Disposable Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 11:10 Weather Conditions: overcast
 Sampling Time: 11:25 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:12</u>	<u>2</u>	<u>7.68</u>	<u>1874</u>	<u>69.3</u>			
<u>11:14</u>	<u>4</u>	<u>7.52</u>	<u>1858</u>	<u>68.8</u>			
<u>11:16</u>	<u>6</u>	<u>7.48</u>	<u>1851</u>	<u>68.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 YVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/bTEX/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility: TOSCO # 6419 Job#: 180021
 Address: 6401 Dublin Blvd. Date: 2/2/01
 City: Dublin, Ca. Sampler: Vartkes

Well ID: MW-4 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth: 19.15 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 7.40 ft. 6" = 1.50 12" = 5.80

11.75 X VF 0.17 = 1.99 X 3 (case volume) = Estimated Purge Volume: 6.0 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 11:40 Weather Conditions: overcast
 Sampling Time: 11:55 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ hos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:42</u>	<u>2</u>	<u>7.68</u>	<u>1762</u>	<u>67.3</u>			
<u>11:44</u>	<u>4</u>	<u>7.50</u>	<u>1750</u>	<u>67.1</u>			
<u>11:46</u>	<u>6</u>	<u>7.44</u>	<u>1743</u>	<u>66.9</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3YVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility Tosco # 6419 Job#: 180021
 Address: 6401 Dublin Blvd. Date: 2/2/01
 City: Dublin, Ca. Sampler: Vartke

Well ID MW-5 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 19.40 ft.
 Depth to Water 6.81 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

12.59 X VF 0.17 = 2.14 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 10:05 Weather Conditions: overcast
 Sampling Time: 10:20 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:07</u>	<u>2</u>	<u>7.72</u>	<u>1820</u>	<u>67.6</u>			
<u>10:09</u>	<u>4</u>	<u>7.54</u>	<u>1827</u>	<u>67.9</u>			
<u>10:11</u>	<u>6.5</u>	<u>7.57</u>	<u>1834</u>	<u>68.3</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3xVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

**LL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility: TOSCO # 6419 Job#: 180021
 Address: 6401 Dublin Blvd. Date: 2/2/01
 City: Dublin, Ca. Sampler: Vartke

Well ID: MW-6 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 (feet) Amount Bailed: 0 (Gallons)
 Total Depth: 19.35 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 7.02 ft. Factor (VF) 6" = 1.50 12" = 5.80

12.33 x VF 0.17 = 2.09 x 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 12:05 Weather Conditions: overcast
 Sampling Time: 12:20 Water Color: clear Odor: yes
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:07</u>	<u>2</u>	<u>7.60</u>	<u>2090</u>	<u>68.3</u>			
<u>12:09</u>	<u>4</u>	<u>7.45</u>	<u>2100</u>	<u>67.0</u>			
<u>12:11</u>	<u>6.5</u>	<u>7.39</u>	<u>2100</u>	<u>67.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3YV0A</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/ttx/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility TOSCO # 6419 Job#: 180021
 Address: 6401 Dublin Blvd. Date: 2/2/01
 City: Dublin, Ca. Sampler: Vortek

Well ID MW-7 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth 19.35 ft.
 Depth to Water 6.95 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

12.40 X VF 0.17 = 2.10 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 9:30 Weather Conditions: overcast
 Sampling Time: 9:47 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:32</u>	<u>2</u>	<u>7.63</u>	<u>1764</u>	<u>64.9</u>			
<u>9:34</u>	<u>4</u>	<u>7.49</u>	<u>1782</u>	<u>65.2</u>			
<u>9:36</u>	<u>6.5</u>	<u>7.47</u>	<u>1790</u>	<u>66.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3xVOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
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20 February, 2001

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Unocal
Sequoia Report W102072

Enclosed are the results of analyses for samples received by the laboratory on 02-Feb-01 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 6419
Project Manager: Deanna L. Harding

Reported:
20-Feb-01 07:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W102072-01	Water	02-Feb-01 00:00	02-Feb-01 16:10
MW-1	W102072-02	Water	02-Feb-01 12:40	02-Feb-01 16:10
MW-2	W102072-03	Water	02-Feb-01 10:52	02-Feb-01 16:10
MW-3	W102072-04	Water	02-Feb-01 11:25	02-Feb-01 16:10
MW-4	W102072-05	Water	02-Feb-01 11:55	02-Feb-01 16:10
MW-5	W102072-06	Water	02-Feb-01 10:20	02-Feb-01 16:10
MW-6	W102072-07	Water	02-Feb-01 12:20	02-Feb-01 16:10
MW-7	W102072-08	Water	02-Feb-01 09:47	02-Feb-01 16:10

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Charlie Westwater, Project Manager





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 6419
Project Manager: Deanna L. Harding

Reported:
20-Feb-01 07:52

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W102072-01) Water Sampled: 02-Feb-01 00:00 Received: 02-Feb-01 16:10									
Gasoline	ND	50.0	ug/l	1	1020385	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		100 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		65-135	"	"	"	"	
MW-1 (W102072-02) Water Sampled: 02-Feb-01 12:40 Received: 02-Feb-01 16:10									
Gasoline	ND	1000	ug/l	20	1020385	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	10.0	"	"	"	"	"	"	
Toluene	ND	10.0	"	"	"	"	"	"	
Ethylbenzene	ND	10.0	"	"	"	"	"	"	
Xylenes (total)	ND	10.0	"	"	"	"	"	"	
Methyl tert-butyl ether	5380	50.0	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		98.7 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		65-135	"	"	"	"	
MW-2 (W102072-03) Water Sampled: 02-Feb-01 10:52 Received: 02-Feb-01 16:10									
Gasoline	ND	50.0	ug/l	1	1020385	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	20.1	2.50	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		97.7 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		65-135	"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 6419
Project Manager: Deanna L. Harding

Reported:
20-Feb-01 07:52

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W102072-04) Water Sampled: 02-Feb-01 11:25 Received: 02-Feb-01 16:10									
Gasoline	ND	500	ug/l	10	1020385	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	2240	25.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		65-135	"	"	"	"	
MW-4 (W102072-05) Water Sampled: 02-Feb-01 11:55 Received: 02-Feb-01 16:10									
Gasoline	ND	1000	ug/l	20	1020385	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	10.0	"	"	"	"	"	"	
Toluene	ND	10.0	"	"	"	"	"	"	
Ethylbenzene	ND	10.0	"	"	"	"	"	"	
Xylenes (total)	ND	10.0	"	"	"	"	"	"	
Methyl tert-butyl ether	5340	50.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.3 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %		65-135	"	"	"	"	
MW-5 (W102072-06) Water Sampled: 02-Feb-01 10:20 Received: 02-Feb-01 16:10									
Gasoline	ND	50.0	ug/l	1	1020385	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	18.0	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.0 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		65-135	"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 6419
Project Manager: Deanna L. Harding

Reported:
20-Feb-01 07:52

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W102072-07) Water Sampled: 02-Feb-01 12:20 Received: 02-Feb-01 16:10									
Gasoline	ND	500	ug/l	10	1020385	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	1990	25.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.0 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		65-135	"	"	"	"	
MW-7 (W102072-08) Water Sampled: 02-Feb-01 09:47 Received: 02-Feb-01 16:10									
Gasoline	ND	50.0	ug/l	1	1020385	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.0 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		65-135	"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 6419
Project Manager: Deanna L. Harding

Reported:
20-Feb-01 07:52

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W102072-02) Water Sampled: 02-Feb-01 12:40 Received: 02-Feb-01 16:10									
Methyl tert-butyl ether	6430	200	ug/l	400	1020397	16-Feb-01	16-Feb-01	EPA 8260B	
Surrogate: Dibromofluoromethane		107 %	88-118		"	"	"	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 6419
Project Manager: Deanna L. Harding

Reported:
20-Feb-01 07:52

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1020385 - EPA 5030, waters

Blank (1020385-BLK1)

Prepared & Analyzed: 15-Feb-01

Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a, a, a-Trifluorotoluene</i>	280		"	300		93.3	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	292		"	300		97.3	65-135			

Blank (1020385-BLK2)

Prepared & Analyzed: 16-Feb-01

Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a, a, a-Trifluorotoluene</i>	295		"	300		98.3	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	302		"	300		101	65-135			

LCS (1020385-BS1)

Prepared & Analyzed: 15-Feb-01

Gasoline	2470	50.0	ug/l	2750		89.8	65-135			
Benzene	39.0	0.500	"	32.0		122	65-135			
Toluene	188	0.500	"	193		97.4	65-135			
Ethylbenzene	42.3	0.500	"	46.0		92.0	65-135			
Xylenes (total)	231	0.500	"	231		100	65-135			
Methyl tert-butyl ether	66.1	2.50	"	52.0		127	65-135			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	288		"	300		96.0	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	303		"	300		101	65-135			





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 6419
Project Manager: Deanna L. Harding

Reported:
20-Feb-01 07:52

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1020385 - EPA 5030, waters

LCS (1020385-BS2)

Prepared & Analyzed: 16-Feb-01

Gasoline	2400	50.0	ug/l	2750		87.3	65-135			
Benzene	38.8	0.500	"	32.0		121	65-135			
Toluene	186	0.500	"	193		96.4	65-135			
Ethylbenzene	42.4	0.500	"	46.0		92.2	65-135			
Xylenes (total)	231	0.500	"	231		100	65-135			
Methyl tert-butyl ether	68.2	2.50	"	52.0		131	65-135			
Surrogate: <i>a, a, a</i> -Trifluorotoluene	303		"	300		101	65-135			
Surrogate: 4-Bromofluorobenzene	313		"	300		104	65-135			

Matrix Spike (1020385-MS1)

Source: W102072-03

Prepared & Analyzed: 15-Feb-01

Gasoline	2640	50.0	ug/l	2750	ND	96.0	65-135			
Benzene	39.5	0.500	"	32.0	ND	123	65-135			
Toluene	191	0.500	"	193	ND	98.8	65-135			
Ethylbenzene	43.3	0.500	"	46.0	ND	94.1	65-135			
Xylenes (total)	236	0.500	"	231	ND	102	65-135			
Methyl tert-butyl ether	89.4	2.50	"	52.0	20.1	133	65-135			
Surrogate: <i>a, a, a</i> -Trifluorotoluene	297		"	300		99.0	65-135			
Surrogate: 4-Bromofluorobenzene	326		"	300		109	65-135			

Matrix Spike Dup (1020385-MSD1)

Source: W102072-03

Prepared & Analyzed: 15-Feb-01

Gasoline	2570	50.0	ug/l	2750	ND	93.5	65-135	2.69	20	
Benzene	38.9	0.500	"	32.0	ND	122	65-135	1.53	20	
Toluene	191	0.500	"	193	ND	98.8	65-135	0	20	
Ethylbenzene	43.2	0.500	"	46.0	ND	93.9	65-135	0.231	20	
Xylenes (total)	235	0.500	"	231	ND	102	65-135	0.425	20	
Methyl tert-butyl ether	87.0	2.50	"	52.0	20.1	129	65-135	2.72	20	
Surrogate: <i>a, a, a</i> -Trifluorotoluene	299		"	300		99.7	65-135			
Surrogate: 4-Bromofluorobenzene	322		"	300		107	65-135			





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Unocal
Project Number: Unocal # 6419
Project Manager: Deanna L. Harding

Reported:
20-Feb-01 07:52

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1020397 - EPA 5030 waters										
Blank (1020397-BLK1)										
Prepared & Analyzed: 15-Feb-01										
Methyl tert-butyl ether	ND	0.500	ug/l							
Surrogate: Dibromofluoromethane	5.00		"	5.00		100	88-118			
Blank (1020397-BLK2)										
Prepared & Analyzed: 16-Feb-01										
Methyl tert-butyl ether	ND	0.500	ug/l							
Surrogate: Dibromofluoromethane	5.21		"	5.00		104	88-118			
LCS (1020397-BS1)										
Prepared & Analyzed: 15-Feb-01										
Methyl tert-butyl ether	5.54	0.500	ug/l	5.00		111	79-118			
Surrogate: Dibromofluoromethane	5.18		"	5.00		104	88-118			
LCS (1020397-BS2)										
Prepared & Analyzed: 16-Feb-01										
Methyl tert-butyl ether	5.78	0.500	ug/l	5.00		116	79-118			
Surrogate: Dibromofluoromethane	5.29		"	5.00		106	88-118			
Matrix Spike (1020397-MS1)										
Source: P102342-10 Prepared & Analyzed: 15-Feb-01										
Methyl tert-butyl ether	99.7	2.50	ug/l	25.0	71.9	111	79-118			
Surrogate: Dibromofluoromethane	5.03		"	5.00		101	88-118			
Matrix Spike Dup (1020397-MSD1)										
Source: P102342-10 Prepared & Analyzed: 15-Feb-01										
Methyl tert-butyl ether	99.8	2.50	ug/l	25.0	71.9	112	79-118	0.100	20	
Surrogate: Dibromofluoromethane	5.04		"	5.00		101	88-118			





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Notes and Definitions

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
RPD Relative Percent Difference

