



IT Corporation
1921 Ringwood Avenue
San Jose, CA 95131-1721
Tel. 408.453.7300
Fax. 408.437.9526

A Member of The IT Group

April 18, 2001
Project 311-038.1A

Mr. Chuck Headlee
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

APR 24 2001

Re: 76 Service Station 5430
Quarterly Summary Report
First Quarter 2001

1747

Dear Mr. Headlee:

As directed by Mr. David DeWitt of Tosco Marketing Company, IT Corporation (IT) is forwarding the quarterly summary report for the following location:

Service Station

Location

5430

1935 Washington Avenue, San Leandro

If you have questions or comments, please do not hesitate to contact our office at (408) 453-7300.

Sincerely,

IT Corporation

Timothy L. Ripp
Project Geologist

Enclosure

cc: Mr. David DeWitt, Tosco Marketing Company
Mr. Tom Peacock, Alameda County Environmental Health Care Services

Quarterly Summary Report First Quarter 2001

76 Service Station 5430
1935 Washington Avenue at Castro Street
San Leandro, California

County STID #: 1747
County: Alameda

BACKGROUND

Unocal files suggest that a product line leak occurred in June 1976, and that one of the original underground gasoline storage tanks failed a precision test in October 1981. In December 1981, the two original steel gasoline storage tanks were replaced with two fiberglass gasoline storage tanks. There are currently six on-site groundwater monitoring wells and one off-site groundwater monitoring well in use at the site. In July 1997, three off-site exploratory borings were drilled on the property to the south of the 76 station. Based on the findings of that investigation, the lateral extent of hydrocarbon impact to groundwater is considered delineated. The product dispensers and associated underground product piping were replaced in July and August 1998. The underground waste oil storage tank was also removed and replaced with an aboveground waste oil storage tank.

RECENT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling were performed in March 2001.

NEXT QUARTER ACTIVITIES

The March 2001 monitoring and sampling activities will be reported in May 2001.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.
Dissolved groundwater delineated? Yes.
Free product delineated? Not applicable.
Amount of groundwater contaminant recovered this quarter? None.
Soil remediation in progress? Not applicable.
Anticipated start date? Not applicable.
Anticipated completion date? Not applicable.
Dissolved/free product remediation in progress? No.
Anticipated start? Unknown.
Anticipated completion? Unknown.

CONSULTANT: IT Corporation



IT Corporation

1921 Ringwood Avenue
San Jose, CA 95131-1721
Tel. 408.453.7300
Fax. 408.437.9526

A Member of The IT Group

January 22, 2001
Project 311-038.1A

00 JAN 24 PM 3:04
ENVIRONMENTAL
PROTECTION

Mr. Chuck Headlee
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Re: 76 Service Station 5430
Quarterly Summary Report
Fourth Quarter 2000

Dear Mr. Headlee:

As directed by Mr. David DeWitt of Tosco Marketing Company, IT Corporation (IT) is forwarding the quarterly summary report for the following location:

<u>Service Station</u>	<u>Location</u>
5430	1935 Washington Avenue, San Leandro

Ro 443
SOS

If you have questions or comments, please do not hesitate to contact our office at (408) 453-7300.

Sincerely,

IT Corporation

Timothy L. Ripp
Project Geologist

Enclosure

cc: Mr. David DeWitt, Tosco Marketing Company
Mr. Tom Peacock, Alameda County Environmental Health Care Services

Quarterly Summary Report Fourth Quarter 2000

76 Service Station 5430
1935 Washington Avenue at Castro Street
San Leandro, California

County STID #: 1747
County: Alameda

BACKGROUND

Unocal files suggest that a product line leak occurred in June 1976, and that one of the original underground gasoline storage tanks failed a precision test in October 1981. In December 1981, the two original steel gasoline storage tanks were replaced with two fiberglass gasoline storage tanks. There are currently six on-site groundwater monitoring wells and one off-site groundwater monitoring well in use at the site. In July 1997, three off-site exploratory borings were drilled on the property to the south of the 76 station. Based on the findings of that investigation, the lateral extent of hydrocarbon impact to groundwater is considered delineated. The product dispensers and associated underground product piping were replaced in July and August 1998. The underground waste oil storage tank was also removed and replaced with an aboveground waste oil storage tank.

RECENT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling activities performed in September 2000 were reported in November 2000.

NEXT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling will be performed in March 2001.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.
Dissolved groundwater delineated? Yes.
Free product delineated? Not applicable.
Amount of groundwater contaminant recovered this quarter? None.
Soil remediation in progress? Not applicable.
Anticipated start date? Not applicable.
Anticipated completion date? Not applicable.
Dissolved/free product remediation in progress? No.
Anticipated start? Unknown.
Anticipated completion? Unknown.

CONSULTANT: IT Corporation



GETTLER-RYAN INC.

TRANSMITTAL

May 7, 2001
G-R #:180107

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

CC: Mr. Tim Ripp
IT Corporation
1921 Ringwood Avenue
San Jose, California 95131

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Tosco (Unocal) SS #5430
1935 Washington Avenue
San Leandro, California

MAY 24 2001

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 1, 2001	Groundwater Monitoring and Sampling Report First Semi-Annual - Event of March 26, 2001

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **May 18, 2001**, this report will be distributed to the following:

cc: Mr. Scott Seery, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94501
Mr. Michael Bakaldin, City of San Leandro Fire Dept., 835 East 14th Street, San Leandro, CA 94577

Enclosure

agency/5430-dbd



GETTLER - RYAN INC.

May 1, 2001
G-R Job #180107

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

RE: First Semi-Annual Event of March 26, 2001
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5430
1935 Washington Avenue
San Leandro, 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. 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 and 2. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

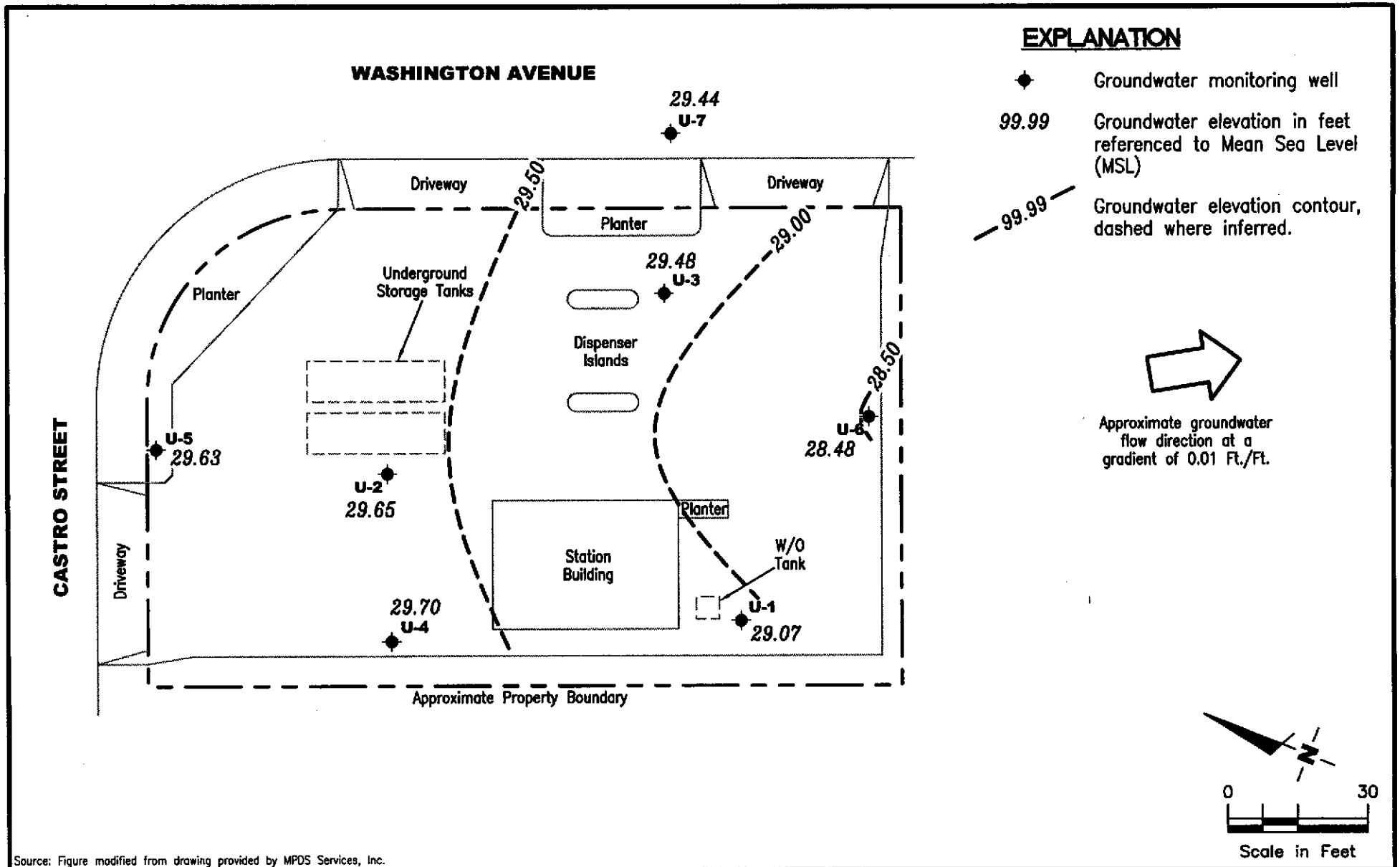
Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734



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

5430.qml



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

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

FIGURE

1

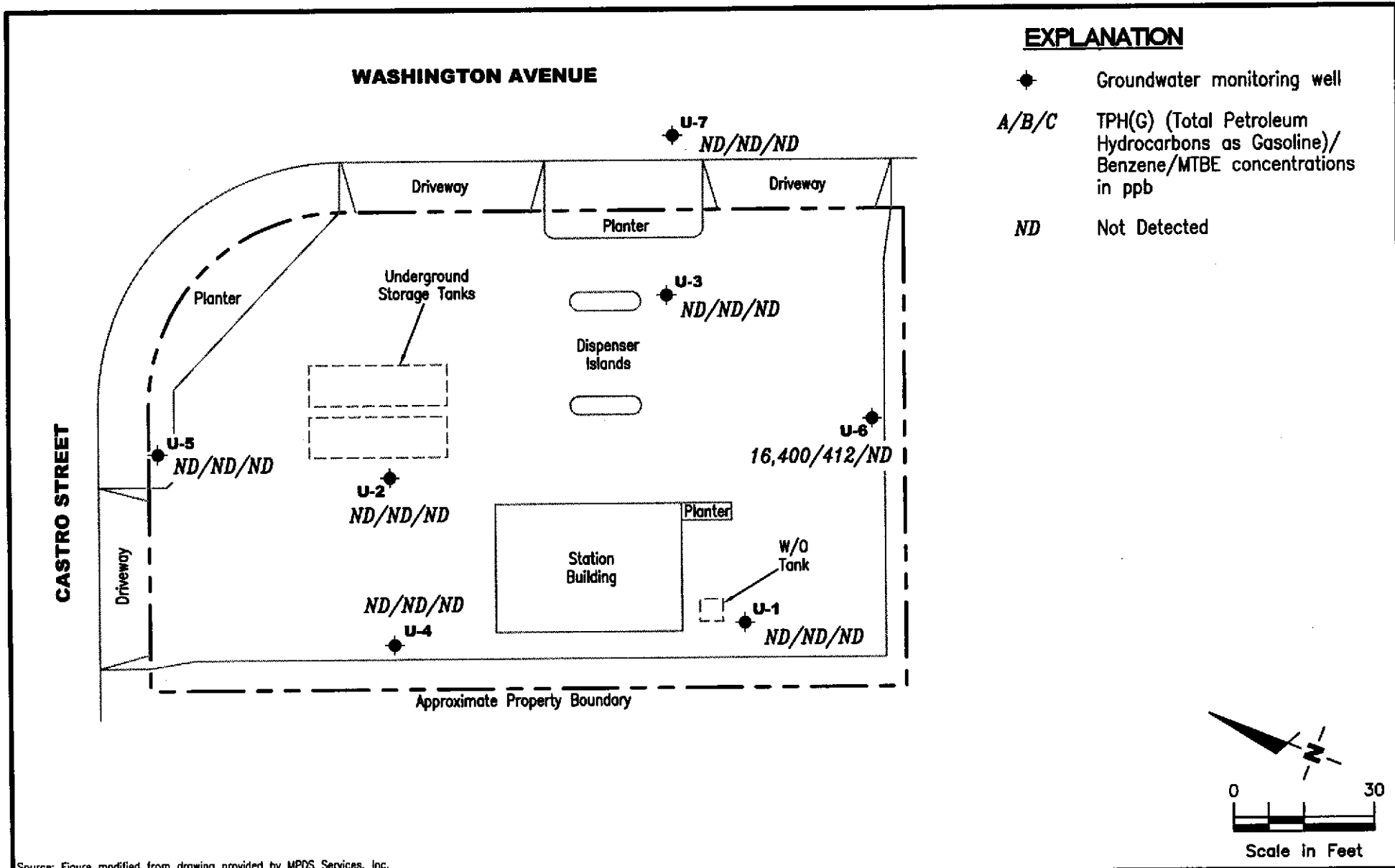
PROJECT NUMBER
 180107

REVIEWED BY

DATE
 March 26, 2001

REVISED DATE

FILE NAME: P:\ENVIRO\TOSCO\5430\001-5430.DWG | Layout Tab: Pot1



Source: Figure modified from drawing provided by MPDS Services, Inc.

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

CONCENTRATION MAP
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

FIGURE
2

PROJECT NUMBER
 180107

REVIEWED BY

DATE
 March 26, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-1												
56.58	08/13/93 ¹	31.60	24.98	50 ²	310	0.84	ND	2.6	1.0	--	--	--
	09/07/93	31.60	24.98	--	--	--	--	--	--	--	--	--
56.10	12/16/93 ¹	33.19	22.91	130 ³	ND	ND	ND	ND	ND	--	--	--
	01/13/94	33.06	23.04	--	--	--	--	--	--	--	--	--
	02/09/94	32.70	23.40	--	--	--	--	--	--	--	--	--
	03/25/94 ¹	31.07	25.03	57 ³	58	0.63	0.79	ND	0.65	--	--	--
	05/18/94	31.76	24.34	--	--	--	--	--	--	--	--	--
	06/19/94 ¹	32.26	23.84	61 ³	51	ND	1.4	ND	2.7	--	ND	7.4
	07/27/94	33.07	23.03	--	--	--	--	--	--	--	--	--
	08/18/94	33.50	22.60	--	--	--	--	--	--	--	--	--
	09/15/94 ¹	33.93	22.17	83 ³	ND	0.50	0.85	ND	0.77	--	ND	9.5
	10/11/94	33.25	22.85	--	--	--	--	--	--	--	--	--
	11/08/94	34.05	22.05	--	--	--	--	--	--	--	--	--
	12/06/94 ¹	32.37	23.73	ND	ND	ND	ND	ND	ND	--	ND	5.8
	01/10/95	31.29	24.81	--	--	--	--	--	--	--	--	--
56.09	03/14/95	27.86	28.23	71 ³	380	20	ND	ND	10	--	--	--
	06/20/95	28.20	27.89	170 ³	500	50	ND	ND	4.4	--	--	--
	09/18/95	30.65	25.44	72.00	57	1.2	0.75	0.57	2.2	-- ⁶	--	--
	12/14/95	32.20	23.89	ND	ND	0.72	1.4	1.2	3.6	--	ND	3.8
	03/06/96	26.53	29.56	ND	96	4.5	ND	ND	3.7	ND	--	--
	06/04/96	27.43	28.66	170 ³	410	48	ND	3.4	7.9	ND	--	--
	09/06/96	30.25	25.84	ND	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	26.03	30.06	--	ND	ND	ND	ND	ND	ND	ND	43
	09/04/97	31.56	24.53	--	ND	ND	ND	ND	ND	ND	ND	4.5
	03/09/98	20.63	35.46	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/01/98	27.82	28.27	--	ND	0.59	ND	ND	ND	3.1	ND	8.9
	03/02/99	26.83	29.26	--	ND	ND	ND	ND	ND	ND	ND	4.5
	09/07/99	28.03	28.06	--	ND	ND	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-1	03/09/00	25.50	30.59	--	ND	ND	ND	ND	ND	ND	ND	1.32
(cont)	09/11/00 ¹⁶	28.16	27.93	--	ND	ND	0.592	ND	ND	ND	ND ⁹	ND ⁹
	03/26/01 ¹⁷	27.02	29.07	--	ND	ND	ND	ND	ND	ND	ND	2.50
U-2												
55.77	08/13/93	30.87	24.90	--	1,400	ND	ND	ND	ND	--	--	--
	09/07/93	30.87	24.90	--	--	--	--	--	--	--	--	--
55.27	12/16/93	32.19	23.08	--	330	1.7	ND	11	8.5	--	--	--
	01/13/94	32.13	23.14	--	--	--	--	--	--	--	--	--
	02/09/94	33.50	21.77	--	--	--	--	--	--	--	--	--
	03/25/94	30.09	25.18	--	130	0.70	0.78	0.65	0.64	--	ND	11
(D)	03/25/94	--	--	--	--	--	--	--	--	--	ND	ND
	05/18/94	30.73	24.54	--	--	--	--	--	--	--	--	--
	06/19/94	31.31	23.96	--	180 ⁴	ND	ND	ND	0.86	--	ND	0.54
	07/27/94	32.12	23.15	--	--	--	--	--	--	--	--	--
	08/18/94	32.50	22.77	--	--	--	--	--	--	--	--	--
	09/15/94	33.00	22.27	--	1,000 ⁵	44	ND	ND	ND	--	ND	0.66
	10/11/94	32.35	22.92	--	--	--	--	--	--	--	--	--
	11/08/94	33.09	22.18	--	--	--	--	--	--	--	--	--
	12/06/94	31.44	23.83	--	250	19	ND	ND	ND	--	ND	ND
	01/10/95	30.25	25.02	--	--	--	--	--	--	--	--	--
55.29	03/14/95	26.36	28.93	--	89	ND	ND	ND	1.2	--	--	--
	06/20/95	26.74	28.55	--	ND	ND	0.58	ND	1.7	--	--	--
	09/18/95	29.65	25.64	--	ND	ND	ND	ND	0.85	-- ⁶	--	--
	12/14/95	31.10	24.19	--	ND	ND	0.89	ND	2.0	-- ⁷	ND	ND
	03/06/96	25.17	30.12	--	ND	ND	ND	ND	ND	80	--	--
	06/04/96	26.03	29.26	--	ND	ND	ND	ND	ND	110	--	--
	09/06/96	29.18	26.11	--	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	24.64	30.65	--	ND	ND	ND	ND	ND	42	--	--
	09/04/97	30.59	24.70	--	ND	ND	ND	ND	ND	46	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-2	03/09/98	19.22	36.07	--	ND	ND	ND	ND	ND	4.4	--	--
(cont)	09/01/98	26.40	28.89	--	ND	ND	ND	ND	ND	25	--	--
	03/02/99	25.48	29.81	--	ND	ND	ND	ND	ND	16	--	--
	09/07/99	26.51	28.78	--	ND	ND	ND	ND	ND	20	--	--
	03/09/00	23.95	31.34	--	ND	ND	ND	ND	ND	ND	--	--
	09/11/00	26.75	28.54	--	ND	ND	0.635	ND	ND	ND	--	--
	03/26/01	25.64	29.65	--	ND	ND	ND	ND	ND	ND	--	--
U-3												
55.66	08/13/93	30.70	24.96	--	23,000	1,000	ND	1,700	1,600	--	--	--
	09/07/93	30.70	24.96	--	--	--	--	--	--	--	--	--
55.24	12/16/93	32.08	23.16	--	15,000	570	ND	940	670	--	--	--
	01/13/94	31.98	23.26	--	--	--	--	--	--	--	--	--
	02/09/94	33.82	21.42	--	--	--	--	--	--	--	--	--
	03/25/94	30.03	25.21	--	18,000	560	40	1,000	770	--	ND	480
	05/18/94	30.66	24.58	--	--	--	--	--	--	--	--	--
	06/19/94	31.19	24.05	--	17,000	580	ND	1,300	90	--	ND	410
	07/27/94	31.98	23.26	--	--	--	--	--	--	--	--	--
	08/18/94	32.39	22.85	--	--	--	--	--	--	--	--	--
	09/15/94	32.84	22.40	--	12,000	370	ND	970	610	--	ND	420
	10/11/94	32.20	23.04	--	--	--	--	--	--	--	--	--
	11/08/94	33.01	22.23	--	--	--	--	--	--	--	--	--
	12/06/94	31.34	23.90	--	17,000	390	ND	990	560	--	ND	430
	01/10/95	30.23	25.01	--	--	--	--	--	--	--	--	--
55.23	03/14/95	25.44	29.79	--	13,000	860	120	1,300	1,700	--	--	--
	06/20/95	26.70	28.53	--	9,800	590	ND	800	1,000	--	--	--
	09/18/95	29.55	25.68	--	9,800	600	ND	1,000	760	-- ⁶	--	--
	12/14/95	31.02	24.21	--	10,000	520	ND	920	630	-- ⁷	ND	240
	03/06/96	25.25	29.98	--	19,000	1,400	ND	1,800	3,000	73	--	--
	06/04/96	26.00	29.23	--	8,800	510	ND	600	830	ND	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-3	09/06/96	29.06	26.17	--	15,000	360	20	540	450	ND	--	--
(cont)	03/08/97	24.65	30.58	--	3,500	310	ND	230	630	ND	ND	100
	09/04/97	30.44	24.79	--	700	27	ND	48	34	ND	ND	160
	03/09/98	19.20	36.03	--	410	22	1.2	ND ⁹	6.1	24	ND	4.4
	09/01/98	26.33	28.90	--	ND	ND	ND	ND	ND	6.1	ND	ND
	03/02/99	25.50	29.73	--	2,100	110	2.6	ND ⁹	240	39	ND	6.7
	09/07/99 ¹³	27.63	27.60	--	2,400 ¹²	67	ND ⁹	150	150	ND ⁹	ND	1.1
	03/09/00	24.05	31.18	--	3,250 ¹²	143	ND ⁹	59.0	326	ND ⁹	ND ⁹	ND ⁹
	09/11/00 ¹⁷	27.83	27.40	--	ND	ND	ND	ND	ND	ND	ND	1.17
	03/26/01 ¹⁷	25.75	29.48	--	ND	ND	ND	ND	ND	ND	ND	ND
U-4												
55.39	03/14/95	26.52	28.87	--	490	3.2	2.1	0.79	1.2	--	ND	ND
	06/20/95	26.90	28.49	--	ND	ND	ND	ND	1.5	--	--	--
	09/18/95	29.79	25.60	--	ND	ND	ND	ND	ND	-- ⁶	--	--
	12/14/95	31.23	24.16	--	ND	ND	0.59	ND	0.79	-- ⁷	ND	ND
	03/06/96	25.30	30.09	--	ND	ND	ND	ND	0.62	50	--	--
	06/04/96	26.19	29.20	--	ND	ND	ND	ND	ND	290	--	--
	09/06/96	29.32	26.07	--	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	24.79	30.60	--	ND	ND	ND	ND	ND	ND	--	--
	09/04/97	30.71	24.68	--	ND	ND	ND	ND	ND	18	--	--
	03/09/98	19.37	36.02	--	ND	ND	ND	ND	ND	ND	--	--
	09/01/98	26.56	28.83	--	ND	ND	ND	ND	ND	ND	--	--
	03/02/99	25.62	29.77	--	110	0.89	0.53	ND	0.79	4.9	--	--
	09/07/99	26.82	28.57	--	ND	ND	ND	ND	ND	3.0	--	--
	03/09/00	24.07	31.32	--	ND	ND	0.615	ND	1.05	ND	--	--
	09/11/00	26.48	28.91	--	ND	ND	0.686	ND	ND	ND	--	--
	03/26/01	25.69	29.70	--	ND	ND	ND	ND	ND	ND	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5430
1935 Washington Avenue
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-5												
54.18	03/14/95	25.20	28.98	--	ND	ND	ND	ND	1.2	--	ND	ND
	06/20/95	25.60	28.58	--	ND	ND	ND	ND	1.6	--	--	--
	09/18/95	28.55	25.63	--	ND	ND	ND	ND	0.66	--	--	--
	12/14/95	29.94	24.24	--	ND	ND	ND	ND	ND	--	ND	ND
	03/06/96	24.03	30.15	--	ND	ND	ND	ND	ND	ND	--	--
	06/04/96	24.91	29.27	--	ND	ND	ND	ND	ND	ND	--	--
	09/06/96	28.06	26.12	--	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	23.49	30.69	--	ND	ND	ND	ND	ND	ND	--	--
	09/04/97	29.46	24.72	--	ND	ND	ND	ND	ND	ND	--	--
	03/09/98	18.10	36.08	--	ND	ND	ND	ND	ND	ND	--	--
	09/01/98	25.27	28.91	--	ND	ND	ND	ND	ND	ND	--	--
	03/02/99	24.35	29.83	--	ND	ND	ND	ND	ND	ND	--	--
	09/07/99	26.39	27.79	--	ND	ND	ND	ND	ND	ND	--	--
	03/09/00	22.81	31.37	--	ND	ND	ND	ND	ND	ND	--	--
	09/11/00	25.36	28.82	--	ND	ND	0.640	ND	ND	ND	--	--
	03/26/01	24.55	29.63	--	ND	ND	ND	ND	ND	ND	--	--
U-6												
55.36	03/14/95	26.94	28.42	--	14,000	170	36	790	1,500	--	ND	210
	06/20/95	27.15	28.21	--	8,500	170	11	950	1,300	--	--	--
	09/18/95	29.95	25.41	--	9,500	260	ND	1,400	1,800	-- ⁶	--	--
	12/14/95	31.32	24.04	--	15,000	240	ND	1,400	1,700	-- ⁷	ND	370
	03/06/96	25.71	29.65	--	2,400	54	ND	170	250	ND	--	--
	06/04/96	26.52	28.84	--	4,600	83	ND	400	520	46	--	--
	09/06/96	29.41	25.95	--	12,000	180	6.4	690	600	95	--	--
	03/08/97	25.25	30.11	--	2,000	180	ND	96	290	ND	--	--
	09/04/97	30.75	24.61	--	680	17	ND	52	39	ND	--	--
	03/09/98	19.84	35.52	--	690	41	8.5	3.2	140	16	--	--
	09/01/98	INACCESSIBLE (PAVED OVER)			--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5430
1935 Washington Avenue
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-6	03/02/99	25.95	29.41	--	3,900	240	ND ⁹	650	430	45	--	--
(cont)	09/07/99	28.19	27.17	--	320 ¹²	14	ND ⁹	5.2	ND ⁹	10	--	--
	03/09/00	24.64	30.72	--	4,980 ¹²	193	ND ⁹	520	365	ND ⁹	--	--
	09/11/00	28.35	27.01	--	538 ¹⁵	22.8	ND	13.8	3.11	ND	--	--
	10/13/00	29.67	25.69	--	--	--	--	--	--	--/ND ¹⁸	--	--
	03/26/01	26.88	28.48	--	16,400¹²	412	ND⁹	2,010	1,010	ND⁹	--	--
U-7												
55.05	03/14/95	26.13	28.92	--	ND	ND	ND	ND	ND	--	ND	ND
	06/20/95	26.38	28.67	--	ND	ND	ND	ND	ND	--	--	--
	09/18/95	29.21	25.84	--	ND	ND	ND	ND	ND	--	--	--
	12/14/95	30.75	24.30	--	ND	ND	ND	ND	0.88	--	ND	ND
	03/06/96	25.10	29.95	--	ND	ND	ND	ND	ND	ND	--	--
	06/04/96	25.67	29.38	--	ND	ND	ND	ND	ND	ND	--	--
	09/06/96	28.75	26.30	--	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	24.33	30.72	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/04/97 ⁸	30.16	24.89	--	ND	ND	ND	ND	ND	ND	ND	ND
	03/09/98	18.91	36.14	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/01/98 ¹⁰	26.04	29.01	--	88	ND	ND	ND	ND	2.9	ND	ND
	03/02/99 ¹¹	25.30	29.75	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/99	27.27	27.78	--	ND	ND	ND	ND	ND	ND	ND	ND
	03/09/00 ¹⁴	23.76	31.29	--	ND	ND	ND	ND	1.09	ND	ND	ND
	09/11/00 ¹⁷	27.19	27.86	--	ND	ND	ND	ND	ND	ND	ND	ND
	03/26/01¹⁷	25.61	29.44	--	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank												
TB-LB	03/09/98	--	--	--	ND	ND	0.53	ND	ND	ND	--	--
	09/01/98	--	--	--	ND	ND	ND	ND	ND	5.0	--	--
	03/02/99	--	--	--	ND	ND	ND	ND	ND	ND	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
TB-LB	09/07/99	--	--	--	ND	ND	ND	ND	ND	ND	--	--
(cont)	03/09/00	--	--	--	ND	ND	ND	ND	ND	ND	--	--
	09/11/00	--	--	--	ND	ND	ND	ND	ND	ND	--	--
	10/13/00	--	--	--	ND	ND	ND	ND	ND	ND	--	--
	03/26/01	--	--	--	ND	ND	ND	ND	ND	ND	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 9, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	B = Benzene	1,2-DCA = 1,2-Dichloroethane
DTW = Depth to Water	T = Toluene	(ppb) = Parts per billion
(ft.) = Feet	E = Ethylbenzene	ND = Not Detected
GWE = Groundwater Elevation	X = Xylenes	-- = Not Measured/Not Analyzed
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	(D) = Duplicate
TPH-G = Total Petroleum Hydrocarbons as Gasoline	1,2-DCB = 1,2-Dichlorobenzene	

* TOC elevations were surveyed March 1995, based on Benchmark provided by City of San Leandro, City Engineers Office, Datum 1929, USGS adjusted. Prior to December 16, 1993, the DTW measurements were taken from the top of well covers.

- 1 Total Oil and Grease (TOG) was ND.
- 2 Not a typical diesel pattern; lower boiling hydrocarbons in the boiling range of stoddard calculated as diesel.
- 3 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 4 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 5 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 6 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- 7 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.
- 8 Carbon tetrachloride was detected at a concentration of 1.3 ppb.
- 9 Detection limit raised. Refer to analytical reports.
- 10 Carbon tetrachloride was detected at a concentration of 2.0 ppb, and Chloroform was detected at a concentration of 0.60 ppb.
- 11 Carbon tetrachloride was detected at a concentration of 1.2 ppb.
- 12 Laboratory report indicates gasoline C6-C12.
- 13 Bromodichloromethane was detected at 1.4 ppb and Chloroform was detected at 31 ppb. All EPA Method 8010 reanalyzed by an alternate column or method to confirm the identification and/or concentration of these results.
- 14 Laboratory report indicates Carbon tetrachloride was detected at 0.801 ppb.
- 15 Laboratory report indicates weathered gasoline C6-C12.
- 16 All other Volatile Organic Compounds (VOCs) by EPA Method 8010 were ND with a raised detection limit, except for Bromadichloromethane was detected at 3.58 ppb and Chloroform was detected at 75.2 ppb.
- 17 All other VOCs by EPA Method 8010 were ND.
- 18 MTBE by EPA Method 8260.

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

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
U-6	10/13/00	ND	ND	ND	ND	ND	ND	ND

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 = Ethylene Dibromide/1,2-Dibromoethane
 (ppb) = Parts per billion
 ND = Not Detected

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

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 # 5430 Job#: 180107
 Address: 1935 Washington Ave. Date: 3-26-01
 City: San Leandro, CA Sampler: JOE

Well ID: U-1 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth: 39.65 ft
 Depth to Water: 27.02 ft

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

$12.63 \times VF \ 0.17 = 2.15 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } \underline{7} \text{ (gal.)}$

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

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

Starting Time: 3:55 Weather Conditions: cloudy
 Sampling Time: 4:22 PM Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm Sediment Description: none
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^3$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>4:10</u>	<u>2.5</u>	<u>7.85</u>	<u>8.98</u>	<u>72.1</u>	_____	_____	_____
<u>4:12</u>	<u>5</u>	<u>7.63</u>	<u>9.15</u>	<u>71.9</u>	_____	_____	_____
<u>4:14</u>	<u>7</u>	<u>7.60</u>	<u>9.14</u>	<u>71.6</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-1</u>	<u>3VOL</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2VOL</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>8010</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5430
Address: 1935 Washington Ave.
City: San Leandro, CA

Job#: 180107
Date: 3-26-01
Sampler: JOE

Well ID U-2 Well Condition: OK

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 39.25 ft

Depth to Water 25.64 ft

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

13.61 x VF 0.17 = 2.31 x 3 (case volume) = Estimated Purge Volume: 7 (gal.)

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

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

Starting Time: 4:30 Weather Conditions: cloudy
Sampling Time: 4:58 PM Water Color: clear Odor: none
Purging Flow Rate: 1 gpm Sediment Description: none
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^3$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>4:39</u>	<u>2.5</u>	<u>7.37</u>	<u>12.48</u>	<u>71.2</u>	_____	_____	_____
<u>4:41</u>	<u>5</u>	<u>7.46</u>	<u>12.50</u>	<u>70.7</u>	_____	_____	_____
<u>4:42</u>	<u>7</u>	<u>7.41</u>	<u>12.53</u>	<u>71.1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-2</u>	<u>3YOK</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 5430 Job#: 180107
 Address: 1935 Washington Ave. Date: 3-26-01
 City: San Leandro, CA Sampler: JOE

Well ID: U-3 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth: 38.50 ft
 Depth to Water: 25.75 ft

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

12.75 X VF 0.17 = 2.17 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

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

Starting Time: 5:35 Weather Conditions: cloudy
 Sampling Time: 6:00 pm Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm Sediment Description: none
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm X	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>5:46</u>	<u>2.5</u>	<u>7.56</u>	<u>8.12</u>	<u>70.5</u>			
<u>5:47</u>	<u>5</u>	<u>7.29</u>	<u>7.59</u>	<u>71.2</u>			
<u>5:49</u>	<u>7</u>	<u>7.35</u>	<u>7.54</u>	<u>71.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-3</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 Vol A</u>	<u>Y</u>	<u> </u>	<u> </u>	<u>8010</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5430
Address: 1935 Washington Ave.
City: San Leandro, CA.

Job#: 180107
Date: 3-26-01
Sampler: JOE

Well ID U-4

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 39.02 ft

Depth to Water 25.69 ft

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

13.33 X VF 0.17 = 2.27 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

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

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

Starting Time: 5:10
Sampling Time: 5:30 P.M.
Purging Flow Rate: 1 gpm.
Did well de-water? _____

Weather Conditions: cloudy
Water Color: clear Odor: none
Sediment Description: none
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm X	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>5:10</u>	<u>2.5</u>	<u>7.45</u>	<u>10.36</u>	<u>73.1</u>	_____	_____	_____
<u>5:12</u>	<u>5</u>	<u>7.40</u>	<u>10.49</u>	<u>72.1</u>	_____	_____	_____
<u>5:14</u>	<u>7</u>	<u>7.43</u>	<u>10.52</u>	<u>72.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-4</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 5430 Job#: 180107
 Address: 1935 Washington Ave. Date: 3-26-01
 City: San Leandro, CA. Sampler: JOE

Well ID: U-5 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 gal.
 Total Depth: 38.48 ft
 Depth to Water: 24.55 ft

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

13.93 x VF 0.17 = 2.37 x 3 (case volume) = Estimated Purge Volume: 7.15 gal.

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

Starting Time: 3:23 Weather Conditions: cloudy
 Sampling Time: 3:45 p.m. Water Color: clear Odor: None
 Purging Flow Rate: 1 gpm Sediment Description: none
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm X	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>3:35</u>	<u>2.5</u>	<u>8.06</u>	<u>10.31</u>	<u>72.2</u>	_____	_____	_____
<u>3:37</u>	<u>5</u>	<u>7.67</u>	<u>9.46</u>	<u>72.0</u>	_____	_____	_____
<u>3:38</u>	<u>7.5</u>	<u>7.60</u>	<u>9.50</u>	<u>72.1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-5</u>	<u>3YOA</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5430
Address: 1935 Washington Ave.
City: San Leandro, CA.

Job#: 180107
Date: 3-26-01
Sampler: JOE

Well ID U-6

Well Condition: OK

Well Diameter 2 in

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 39.95 ft

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

Depth to Water 26.88 ft

13.07 X VF 0.17 = 2.22 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

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

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

Starting Time: 5:55

Weather Conditions: cloudy

Sampling Time: 6:27 P.M.

Water Color: clear Odor: none

Purging Flow Rate: 1 gpm

Sediment Description: none

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>6:05</u>	<u>2.5</u>	<u>7.27</u>	<u>5.58</u>	<u>72.9</u>	_____	_____	_____
<u>6:07</u>	<u>5</u>	<u>7.20</u>	<u>5.60</u>	<u>73.0</u>	_____	_____	_____
<u>6:09</u>	<u>7</u>	<u>7.25</u>	<u>5.65</u>	<u>72.6</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-6</u>	<u>3vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 5430 Job#: 180107
 Address: 1935 Washington Ave. Date: 3-26-01
 City: San Leandro, CA Sampler: JOE

Well ID U-7 Well Condition: OK

Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 37.76 ft
 Depth to Water 25.61 ft

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

12.15 x VF 0.17 = 2.07 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: 2:40 Weather Conditions: cloudy
 Sampling Time: 3:08 P.M. Water Color: clear Odor: None
 Purging Flow Rate: 1 gpm Sediment Description: none
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>2:50</u>	<u>2</u>	<u>7.83</u>	<u>11.05</u>	<u>71.9</u>			
<u>2:52</u>	<u>4</u>	<u>7.43</u>	<u>10.68</u>	<u>72.0</u>			
<u>2:54</u>	<u>6.5</u>	<u>7.37</u>	<u>10.72</u>	<u>72.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-07</u>	<u>340A</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>240A</u>	<u> </u>	<u> </u>	<u> </u>	<u>8010</u>

COMMENTS: _____



Sequoia Analytical

1551 Industrial Road
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April 09 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L103165

Enclosed are the results of analyses for samples received by the laboratory on 03/26/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360





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

Project: Tosco(1)
Project Number: Unocal SS#5430
Project Manager: Deanna Harding

Reported:
04/09/01 12:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L103165-01	Water	03/26/01 00:00	03/26/01 20:00
U-1	L103165-02	Water	03/26/01 16:22	03/26/01 20:00
U-2	L103165-03	Water	03/26/01 16:58	03/26/01 20:00
U-3	L103165-04	Water	03/26/01 18:00	03/26/01 20:00
U-4	L103165-05	Water	03/26/01 17:30	03/26/01 20:00
U-5	L103165-06	Water	03/26/01 15:45	03/26/01 20:00
U-6	L103165-07	Water	03/26/01 18:27	03/26/01 20:00
U-7	L103165-08	Water	03/26/01 15:08	03/26/01 20:00



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

Project: Tosco(1)
 Project Number: Unocal SS#5430
 Project Manager: Deanna Harding

Reported:
 04/09/01 12:09

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L103165-01) Water Sampled: 03/26/01 00:00 Received: 03/26/01 20:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040018	04/05/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		83.3 %		70-130	"	"	"	"	
U-1 (L103165-02) Water Sampled: 03/26/01 16:22 Received: 03/26/01 20:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040018	04/05/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		78.8 %		70-130	"	"	"	"	
U-2 (L103165-03) Water Sampled: 03/26/01 16:58 Received: 03/26/01 20:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040018	04/05/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		79.3 %		70-130	"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5430
 Project Manager: Deanna Harding

Reported:
 04/09/01 12:09

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-3 (L103165-04) Water Sampled: 03/26/01 18:00 Received: 03/26/01 20:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040018	04/05/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.5 %	70-130		"	"	"	"	
U-4 (L103165-05) Water Sampled: 03/26/01 17:30 Received: 03/26/01 20:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040018	04/05/01	04/06/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.5 %	70-130		"	"	"	"	
U-5 (L103165-06) Water Sampled: 03/26/01 15:45 Received: 03/26/01 20:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040018	04/05/01	04/06/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.1 %	70-130		"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5430
 Project Manager: Deanna Harding

Reported:
 04/09/01 12:09

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-7 (L103165-07) Water Sampled: 03/26/01 18:27 Received: 03/26/01 20:00									
Purgeable Hydrocarbons as Gasoline	16400	5000	ug/l	100	1040019	04/05/01	04/05/01	DHS LUFT	P-01
Benzene	412	50.0	"	"	"	"	"	"	
Toluene	ND	50.0	"	"	"	"	"	"	
Ethylbenzene	2010	50.0	"	"	"	"	"	"	
Xylenes (total)	1010	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.7 %	70-130		"	"	"	"	
U-7 (L103165-08) Water Sampled: 03/26/01 15:08 Received: 03/26/01 20:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040019	04/05/01	04/05/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	70-130		"	"	"	"	

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

Project: Tosco(1)
Project Number: Unocal SS#5430
Project Manager: Deanna Harding

Reported:
04/09/01 12:09

Volatile Organic Compounds by EPA Method 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (L103165-02) Water Sampled: 03/26/01 16:22 Received: 03/26/01 20:00									
Bromodichloromethane	ND	0.500	ug/l	1	1D03008	04/03/01	04/03/01	EPA 8021B	
Bromoform	ND	0.500	"	"	"	"	"	"	
Bromomethane	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	2.50	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Surrogate: 1-Chloro-3-fluorobenzene		102 %		70-130	"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5430
 Project Manager: Deanna Harding

Reported:
 04/09/01 12:09

Volatile Organic Compounds by EPA Method 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-3 (L103165-04) Water Sampled: 03/26/01 18:00 Received: 03/26/01 20:00									
Bromodichloromethane	ND	0.500	ug/l	1	1D03008	04/03/01	04/03/01	EPA 8021B	
Bromoform	ND	0.500	"	"	"	"	"	"	
Bromomethane	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Surrogate: 1-Chloro-3-fluorobenzene		101 %		70-130	"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5430
 Project Manager: Deanna Harding

Reported:
 04/09/01 12:09

Volatile Organic Compounds by EPA Method 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
U-7 (L103165-08) Water Sampled: 03/26/01 15:08 Received: 03/26/01 20:00										
Bromodichloromethane	ND	0.500		ug/l	1	1D03008	04/03/01	04/03/01	EPA 8021B	
Bromoform	ND	0.500		"	"	"	"	"	"	"
Bromomethane	ND	1.00		"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.500		"	"	"	"	"	"	"
Chlorobenzene	ND	0.500		"	"	"	"	"	"	"
Chloroethane	ND	1.00		"	"	"	"	"	"	"
Chloroform	ND	0.500		"	"	"	"	"	"	"
Chloromethane	ND	1.00		"	"	"	"	"	"	"
Dibromochloromethane	ND	0.500		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.500		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.500		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.500		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.500		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.500		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.500		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.500		"	"	"	"	"	"	"
Methylene chloride	ND	5.00		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	"
Tetrachloroethene	ND	0.500		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.500		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.500		"	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane	ND	1.00		"	"	"	"	"	"	"
Trichloroethene	ND	0.500		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	"
Vinyl chloride	ND	1.00		"	"	"	"	"	"	"
1,2-Dibromoethane	ND	1.00		"	"	"	"	"	"	"
Surrogate: 1-Chloro-3-fluorobenzene		100 %		70-130		"	"	"	"	

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

Project: Tosco(1)
Project Number: Unocal SS#5430
Project Manager: Deanna Harding

Reported:
04/09/01 12:09

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1040018 - EPA 5030B (P/T)

Blank (1040018-BLK1) Prepared & Analyzed: 04/05/01

Purgeable Hydrocarbons as 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	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	7.88		"	10.0		78.8	70-130			

LCS (1040018-BS1) Prepared & Analyzed: 04/05/01

Benzene	7.86	0.500	ug/l	10.0		78.6	70-130			
Toluene	8.01	0.500	"	10.0		80.1	70-130			
Ethylbenzene	7.81	0.500	"	10.0		78.1	70-130			
Xylenes (total)	23.9	0.500	"	30.0		79.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.36		"	10.0		83.6	70-130			

LCS (1040018-BS2) Prepared & Analyzed: 04/05/01

Purgeable Hydrocarbons as Gasoline	289	50.0	ug/l	250		116	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.17		"	10.0		91.7	70-130			

Matrix Spike (1040018-MS1) Source: L103165-02 Prepared & Analyzed: 04/05/01

Benzene	8.28	0.500	ug/l	10.0	ND	82.8	60-140			
Toluene	8.39	0.500	"	10.0	ND	83.9	60-140			
Ethylbenzene	8.24	0.500	"	10.0	ND	82.4	60-140			
Xylenes (total)	25.1	0.500	"	30.0	ND	83.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	8.68		"	10.0		86.8	70-130			

Matrix Spike Dup (1040018-MSD1) Source: L103165-02 Prepared & Analyzed: 04/05/01

Benzene	8.75	0.500	ug/l	10.0	ND	87.5	60-140	5.52	25	
Toluene	8.77	0.500	"	10.0	ND	87.7	60-140	4.43	25	
Ethylbenzene	8.66	0.500	"	10.0	ND	86.6	60-140	4.97	25	
Xylenes (total)	26.6	0.500	"	30.0	ND	88.7	60-140	5.80	25	
Surrogate: a,a,a-Trifluorotoluene	8.53		"	10.0		85.3	70-130			

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

Project: Tosco(1)
Project Number: Unocal SS#5430
Project Manager: Deanna Harding

Reported:
04/09/01 12:09

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040019 - EPA 5030B (P/T)										
Blank (1040019-BLK1) Prepared & Analyzed: 04/05/01										
Purgeable Hydrocarbons as 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	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	10.7		"	10.0		107	70-130			
LCS (1040019-BS1) Prepared & Analyzed: 04/05/01										
Benzene	8.92	0.500	ug/l	10.0		89.2	70-130			
Toluene	8.81	0.500	"	10.0		88.1	70-130			
Ethylbenzene	8.88	0.500	"	10.0		88.8	70-130			
Xylenes (total)	26.9	0.500	"	30.0		89.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.7		"	10.0		107	70-130			
LCS (1040019-BS2) Prepared & Analyzed: 04/05/01										
Purgeable Hydrocarbons as Gasoline	225	50.0	ug/l	250		90.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.2		"	10.0		102	70-130			
Matrix Spike (1040019-MS1) Source: L103165-08 Prepared & Analyzed: 04/05/01										
Benzene	10.2	0.500	ug/l	10.0	ND	102	60-140			
Toluene	10.1	0.500	"	10.0	ND	101	60-140			
Ethylbenzene	10.4	0.500	"	10.0	ND	104	60-140			
Xylenes (total)	30.6	0.500	"	30.0	ND	102	60-140			
Surrogate: a,a,a-Trifluorotoluene	11.1		"	10.0		111	70-130			
Matrix Spike Dup (1040019-MSD1) Source: L103165-08 Prepared: 04/05/01 Analyzed: 04/06/01										
Benzene	9.20	0.500	ug/l	10.0	ND	92.0	60-140	10.3	25	
Toluene	9.21	0.500	"	10.0	ND	92.1	60-140	9.22	25	
Ethylbenzene	9.42	0.500	"	10.0	ND	94.2	60-140	9.89	25	
Xylenes (total)	27.8	0.500	"	30.0	ND	92.7	60-140	9.59	25	
Surrogate: a,a,a-Trifluorotoluene	10.4		"	10.0		104	70-130			

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

Project: Tosco(1)
 Project Number: Unocal SS#5430
 Project Manager: Deanna Harding

Reported:
 04/09/01 12:09

Volatile Organic Compounds by EPA Method 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D03008 - EPA 5030B [P/T]

Prepared & Analyzed: 04/03/01

Blank (1D03008-BLK1)

Bromodichloromethane	ND	0.500	ug/l							
Bromoform	ND	0.500	"							
Bromomethane	ND	1.00	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.500	"							
Chloromethane	ND	1.00	"							
Dibromochloromethane	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
cis-1,3-Dichloropropene	ND	0.500	"							
trans-1,3-Dichloropropene	ND	0.500	"							
Methylene chloride	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.500	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.500	"							
1,1,2-Trichlorotrifluoroethane	ND	1.00	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
Vinyl chloride	ND	1.00	"							
1,2-Dibromoethane	ND	1.00	"							
<i>Surrogate: 1-Chloro-3-fluorobenzene</i>	<i>11.1</i>		<i>"</i>	<i>10.0</i>		<i>111</i>	<i>70-130</i>			

Sequoia Analytical - San Carlos

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.

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

Project: Tosco(1)
 Project Number: Unocal SS#5430
 Project Manager: Deanna Harding

Reported:
 04/09/01 12:09

Volatile Organic Compounds by EPA Method 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D03008 - EPA 5030B [P/T]

LCS (1D03008-BS1)

Prepared & Analyzed: 04/03/01

Chlorobenzene	8.99	0.500	ug/l	12.5		71.9	70-130			
1,1-Dichloroethene	12.4	0.500	"	12.5		99.2	65-135			
Trichloroethene	13.3	0.500	"	12.5		106	70-130			
<i>Surrogate: 1-Chloro-3-fluorobenzene</i>	<i>10.9</i>		<i>"</i>	<i>10.0</i>		<i>109</i>	<i>70-130</i>			

Matrix Spike (1D03008-MS1)

Source: MKD0013-03

Prepared & Analyzed: 04/03/01

Chlorobenzene	14.3	0.500	ug/l	12.5	ND	114	60-140			
1,1-Dichloroethene	12.2	0.500	"	12.5	ND	97.6	60-140			
Trichloroethene	13.7	0.500	"	12.5	ND	110	60-140			
<i>Surrogate: 1-Chloro-3-fluorobenzene</i>	<i>11.5</i>		<i>"</i>	<i>10.0</i>		<i>115</i>	<i>70-130</i>			

Matrix Spike Dup (1D03008-MSD1)

Source: MKD0013-03

Prepared & Analyzed: 04/03/01

Chlorobenzene	15.2	0.500	ug/l	12.5	ND	122	60-140	6.10	25	
1,1-Dichloroethene	13.2	0.500	"	12.5	ND	106	60-140	7.87	25	
Trichloroethene	14.6	0.500	"	12.5	ND	117	60-140	6.36	25	
<i>Surrogate: 1-Chloro-3-fluorobenzene</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>70-130</i>			

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6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#5430
Project Manager: Deanna Harding

Reported:
04/09/01 12:09

Notes and Definitions

P-01 Chromatogram Pattern: Gasoline C6-C12
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