RO-450

GETTLER-RYAN INC.

TRANSMITTAL

October 29, 2002
G-R #180203

TO: Mr. David B. De Witt
Phillips 66 Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

CC: Mr. Paul Blank
ERI, Inc.
73 Digital Drive, Suite 100
Novato, California 94949

Alameda County
NOV 14 2002
Environmental Health

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

RE: Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 11, 2002	Groundwater Monitoring and Sampling Report Third Quarter - Event of September 3, 2002

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 ***November 8, 2002***, this report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Dept., of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502

Enclosure

trans/0843.dbd

GETTLER-RYAN INC.

October 11, 2002
G-R Job #180203

Mr. David B. De Witt
Phillips 66 Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: Third Quarter Event of September 3, 2002
Groundwater Monitoring & Sampling Report
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, 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 Groundwater Elevation Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical report are also attached.

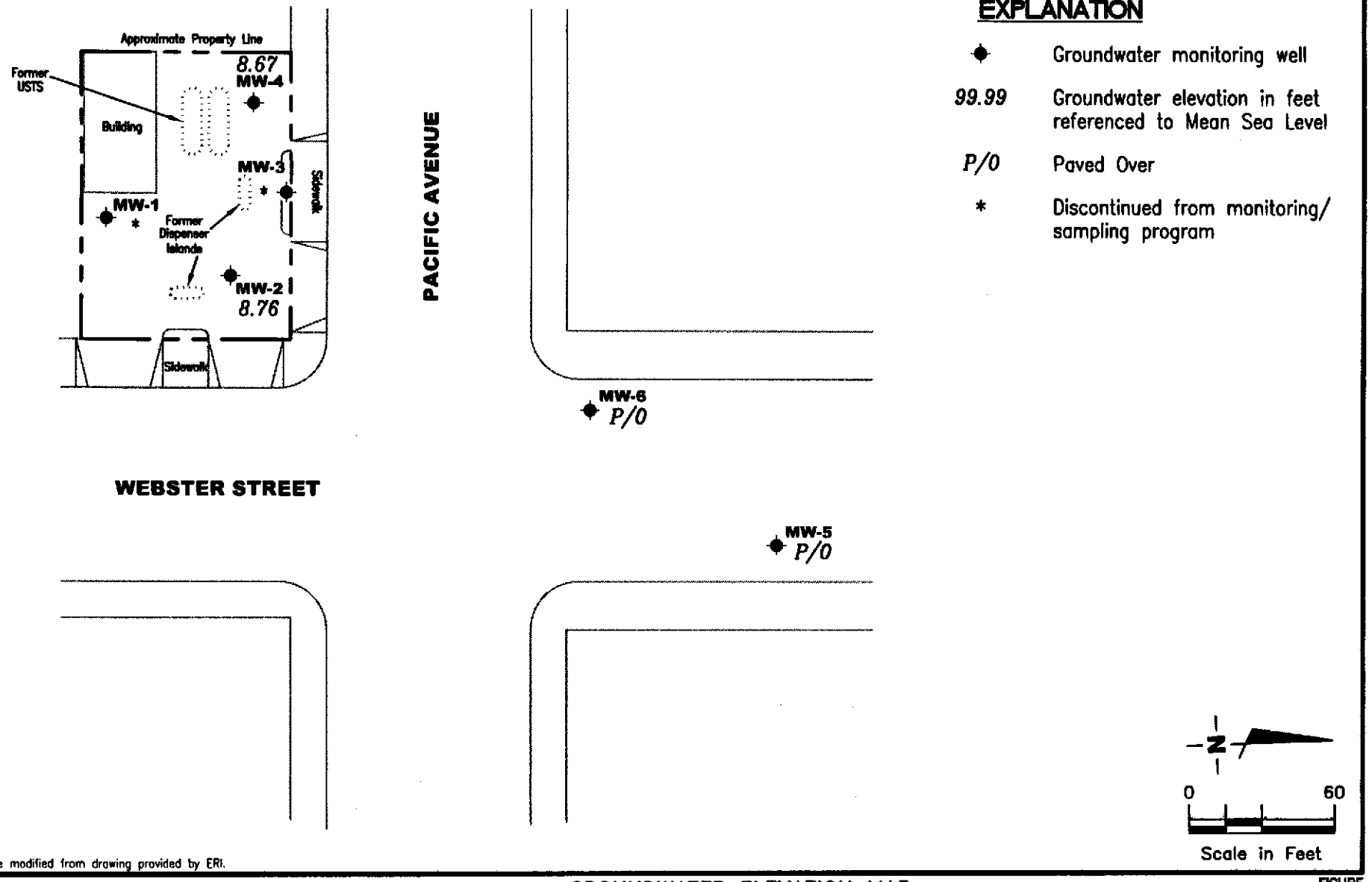
Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, R.G. No. 6882

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Figure 1: Groundwater Elevation 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
0843.qml Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by ERI.

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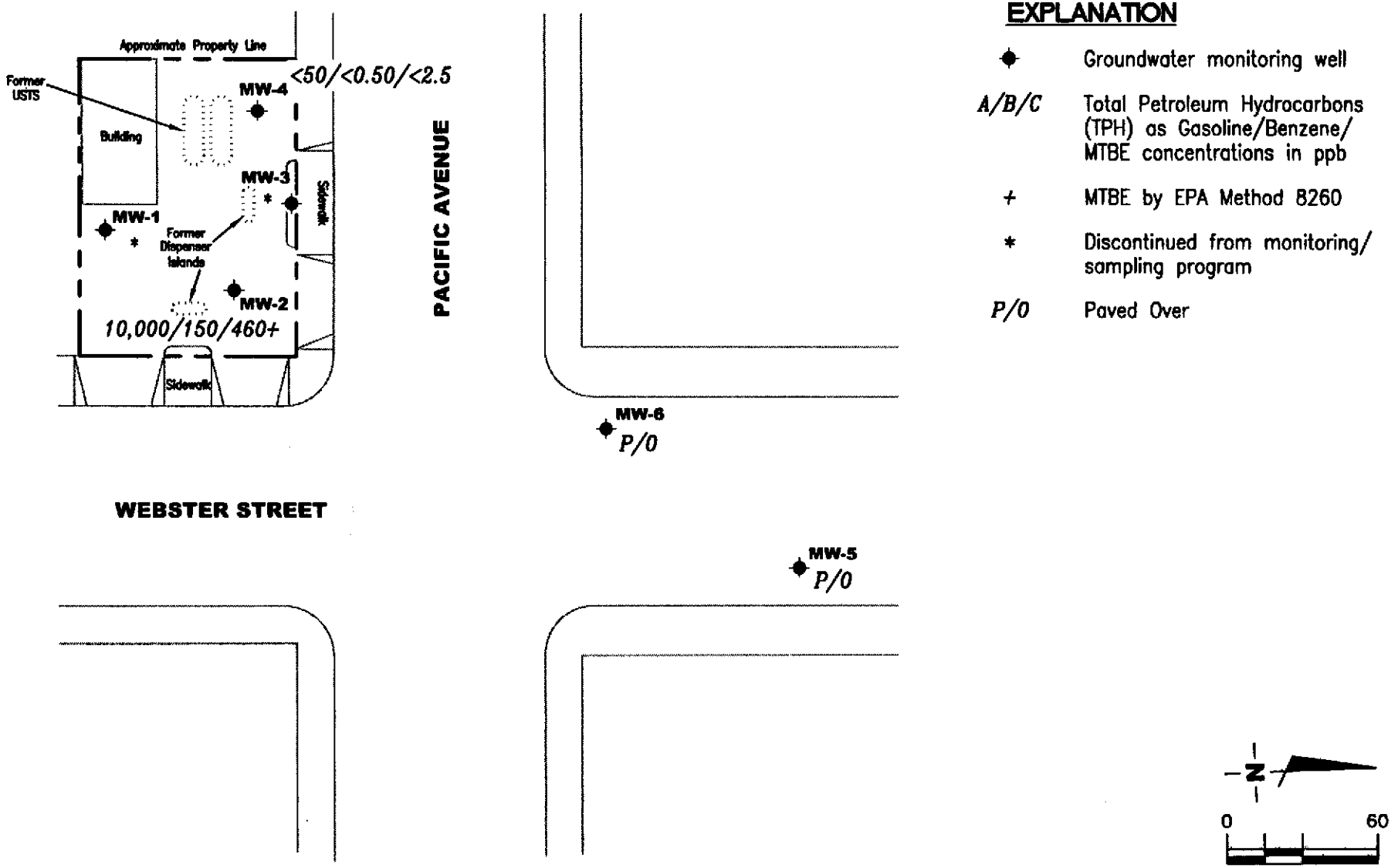
Dublin, CA 94568 (925) 551-7555

GROUNDWATER ELEVATION MAP
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180203		September 3, 2002	

FILE NAME: P:\ENVIRO\TOSCO\0843\Q02-0843.DWG | Layout Tab: Pot3



Source: Figure modified from drawing provided by ERI.

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Dublin, CA 94568
(925) 551-7555

CONCENTRATION MAP
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180203		September 3, 2002	

FILE NAME: P:\ENVIRO\TOSCO\0843\Q02-0843.DWG | Layout Tab: Con3

Table 1

Groundwater Monitoring Data and Analytical Results

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
16.18	03/05/99[1]	--	--	86.6[3]	ND	2.04	ND	4.06	23.9[2]
	06/03/99	6.24	9.94	ND	ND	ND	ND	ND	ND/ND[2]
	09/02/99	7.19	8.99	ND	ND	ND	ND	ND	ND/ND[2]
	12/14/99	8.07	8.11	ND	ND	ND	ND	ND	ND
	03/14/00	5.47	10.71	ND	ND	ND	ND	ND	ND
	05/31/00	6.22	9.96	ND	ND	ND	ND	ND	ND
	08/29/00	6.82	9.36	ND	ND	ND	ND	ND	ND
	12/01/00	7.54	8.64	ND	ND	ND	ND	ND	ND
	03/17/01	5.73	10.45	ND	ND	ND	ND	ND	ND
	05/23/01	6.43	9.75	ND	ND	ND	ND	ND	ND
	09/24/01	7.12	9.06	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/10/01	6.89	9.29	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/11/02	5.61	10.57	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	06/07/02	5.71	10.47	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	NOT MONITORED/SAMPLED								
MW-2	03/05/99[1]	--	--	34,400	2,070	7,710	2,340	8,240	8,460[2]
15.57	06/03/99	5.96	9.61	51,200[4]	1,820	7,570	2,510	7,320	6,460/8,800[2]
	09/02/99	6.85	8.72	17,000[5]	1,000	3,100	1,400	3,700	4,000/3,720[2]
	12/14/99	7.65	7.92	83,000[5]	3,000	22,000	4,500	17,000	9,100/11,000[2]
	03/14/00	5.26	10.31	31,000[5]	1,600	4,600	2,300	7,300	5,700/8,700[2]
	05/31/00	5.60	9.97	9,970[5]	598	1,030	487	2,060	2,500/1,670[2]
	08/29/00	6.35	9.22	7,900[5]	390	1,500	280	1,900	1,800/1,300[2]
	12/01/00	7.06	8.51	87,500[5]	1,860	17,400	5,590	19,400	6,220/3,790[2]
	03/17/01	5.98	9.59	4,310[5]	371	59.0	280	682	321/433[2]
	05/23/01	6.97	8.60	45,400[5]	374	4,490	2,790	10,900	[7]ND/406[2]
	09/24/01	7.56	8.01	76,000[3]	430	13,000	4,700	18,000	<2,000/480[2]
	12/10/01	6.52	9.05	82,000[3]	320	9,100	4,400	16,000	<2,500/270[2]

Table 1

Groundwater Monitoring Data and Analytical Results

Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	03/11/02	5.51	10.06	14,000[3]	75	1,400	1,100	3,600	<250/150[2]
(cont)	06/07/02	5.73	9.84	14,000	120	1,200	1,400	4,700	540/200[2]
	09/03/02	**6.81**	**8.76**	**10,000[11]**	**150**	**1,200**	**610**	**2,800**	**510/460[2]**
MW-3	03/05/99[1]	--	--	135[3]	ND	ND	ND	4.84	2.46[2]
15.11	06/03/99	5.57	9.54	ND	ND	ND	ND	ND	5.23/12.7[2]
	09/02/99	6.50	8.61	ND	ND	ND	ND	ND	13/11.0[2]
	12/14/99	7.28	7.83	ND	ND	ND	ND	ND	ND
	03/14/00	4.87	10.24	ND	ND	ND	ND	ND	7.2/6.3[2]
	05/31/00	5.58	9.53	ND	ND	ND	ND	ND	ND
	08/29/00	6.06	9.05	ND	ND	ND	ND	ND	ND
	12/01/00	6.76	8.35	ND	ND	ND	ND	ND	ND
	03/17/01	5.09	10.02	ND	ND	ND	ND	ND	ND
	05/23/01	5.72	9.39	ND	ND	ND	ND	ND	ND
	09/24/01	6.34	8.77	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/10/01	6.31	8.80	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/11/02	5.15	9.96	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	06/07/02	5.45	9.66	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	NOT MONITORED/SAMPLED								
MW-4	03/05/99[1]	--	--	ND	ND	ND	ND	2.44	25.2[2]
15.17	06/03/99	5.45	9.72	ND	ND	ND	ND	ND	ND/3.96[2]
	09/02/99	6.48	8.69	ND	ND	ND	ND	ND	23/27.0[2]
	12/14/99	7.27	7.90	ND	ND	ND	ND	ND	200/270[2]
	03/14/00	4.67	10.50	ND	ND	ND	ND	ND	46/49[2]
	05/31/00	5.48	9.69	ND	ND	ND	ND	ND	ND
	08/29/00	6.10	9.07	ND	ND	ND	ND	ND	6.1/3.2[2]
	12/01/00	6.79	8.38	ND	ND	ND	ND	ND	152/101[2]
	03/17/01	5.01	10.16	ND	ND	ND	ND	ND	ND
	05/23/01	5.78	9.39	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	09/24/01	6.42	8.75	<50	<0.50	<0.50	<0.50	<0.50	<5.0
(cont)	12/10/01	6.41	8.76	<50	<0.50	<0.50	<0.50	<0.50	1,700/1,300[2]
	03/11/02	5.05	10.12	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	06/07/02	5.42	9.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/03/02	**6.50**	**8.67**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-5	12/14/99	6.45	6.89	ND	ND	ND	ND	ND	3.5/3.8[2]
13.34	03/14/00	4.46	8.88	ND	ND	ND	ND	ND	ND
	05/31/00	5.18	8.16	ND	ND	ND	ND	ND	ND
	08/29/00	5.46	7.88	ND	ND	ND	ND	ND	ND
	12/01/00	5.95	7.39	ND	ND	ND	ND	ND	ND
	03/17/01	5.36	7.98	ND	ND	ND	ND	ND	ND
	05/23/01	5.09	8.25	ND	ND	ND	ND	ND	ND
	09/24/01	5.58	7.76	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/10/01	5.51	7.83	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/11/02	4.70	8.64	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	06/07/02	INACCESSIBLE - PAVED OVER			--	--	--	--	--
	09/03/02	**INACCESSIBLE - PAVED OVER**			**--**	**--**	**--**	**--**	**--**
MW-6	12/14/99	6.64	7.44	ND	ND	ND	ND	ND	11,000/18,000[2]
14.08	03/14/00	4.72	9.36	ND[7]	ND[7]	ND[7]	ND[7]	ND[7]	19,000/21,000[2,6]
	05/31/00	5.28	8.80	ND[7]	ND[7]	ND[7]	ND[7]	ND[7]	13,200
	08/29/00	5.39	8.69	ND	ND	ND	ND	ND	270/400[2]
	12/01/00	6.11	7.97	ND	ND	ND	ND	ND	6,330/3,640[2]
	03/17/01	6.02	8.06	18,700[5]	2,950	989	1,040	3,000	10,200/11,500[2]
	05/23/01	5.82	8.26	ND[7]	ND[7]	ND[7]	ND[7]	ND[7]	4,660[8]
	09/24/01[10]	6.59	7.49	<50	<0.50	<0.50	<0.50	<0.50	160/190[9]
	12/10/01	6.50	7.58	<50	<0.50	<0.50	<0.50	<0.50	3,200/2,400[2]

Table 1

Groundwater Monitoring Data and Analytical Results

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	03/11/02	4.81	9.27	<50	<0.50	<0.50	<0.50	<0.50	92/120[2]
(cont)	06/07/02	INACCESSIBLE - PAVED OVER			--	--	--	--	--
	09/03/02	**INACCESSIBLE - PAVED OVER**			--	--	--	--	--
Trip Blank	03/05/99[1]	--	--	ND	ND	ND	ND	ND	ND[2]
TB-LB	06/03/99	--	--	ND	ND	ND	ND	ND	ND
	09/02/99	--	--	ND	ND	ND	ND	ND	ND
	12/14/99	--	--	ND	ND	ND	ND	ND	ND
	03/14/00	--	--	ND	ND	ND	ND	ND	ND
	05/31/00	--	--	ND	ND	ND	ND	ND	ND
	08/29/00	--	--	ND	ND	ND	ND	ND	ND
	12/01/00	--	--	ND	ND	ND	ND	ND	ND
	03/17/01	--	--	ND	ND	ND	ND	ND	ND
	05/23/01	--	--	ND	ND	ND	ND	ND	ND
	09/24/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/10/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/11/02	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	06/07/02	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	**09/03/02**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 3, 1999, were compiled from reports prepared by ERI, Inc.

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
(msl) = Mean sea level
TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion
ND = Not Detected
-- = Not Measured/Not Analyzed
QA = Quality Assurance

* TOC elevations are based on USC&GS Benchmark WEB PAC - 1947 - R 1951; (Elevation = 14.054 feet).

[1] B,T,E,X by EPA Method 8260.

[2] MTBE by EPA Method 8260.

[3] Laboratory report indicates weathered gasoline C6-C12.

[4] Laboratory report indicates chromatogram pattern C6-C12.

[5] Laboratory report indicates gasoline C6-C12.

[6] Laboratory report indicates sample was analyzed 03/28/00 but required reanalysis at a dilution. The dilution was analyzed outside of the EPA recommended holding time.

[7] Detection limit raised. Refer to analytical reports.

[8] Laboratory did not perform analysis for MTBE by EPA Method 8260 as requested on the Chain of Custody for 8020 MTBE hits.

[9] MTBE by EPA Method 8260 was analyzed past the EPA recommended holding time.

[10] Due to laboratory error, MW-6 was not analyzed within the EPA recommended holding time.

[11] Laboratory report indicates gasoline C6-C10.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	09/02/99	ND	ND	ND	ND	ND	ND	--	--
MW-2	09/02/99	ND[1]	ND[1]	3,720	ND[1]	ND[1]	ND[1]	--	--
	12/14/99	ND[1]	ND[1]	11,000	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	03/14/00	ND[1]	1,300	8,700	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	05/31/00	ND[1]	ND[1]	1,670	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	08/29/00	ND	250	1,300	ND	ND	ND	ND	ND
	12/01/00	ND[1]	ND[1]	3,790	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	03/17/01	ND[1]	ND[1]	433	14.8	ND[1]	ND[1]	ND[1]	ND[1]
	05/23/01	ND[1]	ND[1]	406	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	09/24/01	<50,000	<5,000	480	<100	<100	<100	<100	<100
	12/10/01	<12,000	<500	270	<25	<25	<25	<25	<25
	03/11/02	<5,000	<1,000	150	<20	<20	<20	<20	<20
	06/07/02	<2,000	<1,000	200	<25	<25	<25	<25	<25
	09/03/02	**<5,000**	**<1,000**	**460**	**<20**	**<20**	**<20**	**<20**	**<20**
MW-3	09/02/99	ND	ND	11.0	ND	ND	ND	--	--
	03/14/00	--	--	6.3	--	--	--	--	--
MW-4	09/02/99	ND	ND	27.0	ND	ND	ND	--	--
	12/14/99	--	--	270	--	--	--	--	--
	03/14/00	--	--	49	--	--	--	--	--
	08/29/00	--	--	3.2	--	--	--	--	--
	12/10/01	<7,100	<290	1,300	<14	<14	<14	<14	<14
MW-5	12/14/99	--	--	3.8	--	--	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-6	12/14/99	--	--	18,000	--	--	--	--	--
	03/14/00	--	--	21,000[2]	--	--	--	--	--
	08/29/00	--	--	400	--	--	--	--	--
	03/17/01	ND[1]	ND[1]	11,500	ND[1]	ND[1]	ND[1]	219	ND[1]
	05/23/01[3]	--	--	--	--	--	--	--	--
	09/24/01[4]	<1,000	<100	190	<2.0	<2.0	<2.0	<2.0	<2.0
	12/10/01	<12,000	<500	2,400	<25	<25	<25	<25	<25
	03/11/02	<500	<100	120	<2.0	<2.0	<2.0	<2.0	<2.0

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

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

1 Detection limit raised. Refer to analytical reports.

2 Laboratory report indicates sample was analyzed 03/28/00 but required reanalysis at a dilution. The dilution was analyzed outside of the EPA recommended holding time.

3 Laboratory did not perform analyzsis for oxygenates as requested on the Chain of Custody, on all 8020 MTBE hits.

4 Laboratory report indicates sample was analyzed past the EPA recommended holding time.

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 Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Tosco #0843 Job Number: 180203
Site Address: 1629 Webster Street Event Date: 9-3-02
City: Alameda, CA Sampler: Joe

Well ID MW-2 Well Condition: O.K
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 20.24 ft.
Depth to Water 6.81 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

13.43 xVF 0.17 = 2.28 x3 (case volume) = Estimated Purge Volume: 7 gal.

Purge Equipment: Disposable Bailer ✓; Stainless Steel Bailer; Stack Pump; Suction Pump; Grundfos; Other:

Sampling Equipment: Disposable Bailer ✓; Pressure Bailer; Discrete Bailer; Other:

Start Time (purge): 1322 Weather Conditions: Hot
Sample Time/Date: 1345 9-3-02 Water Color: clear Odor: yes
Purging Flow Rate: 0.5 gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) x 10^3	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1330	2.5	7.10	4.25	68.1		
1334	5	7.15	4.26	69.0		
1339	7	7.16	4.29	69.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	2 x voa vial	YES	HCL	SEQUOIA	8 Oxy's(8260)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Tosco #0843 | Job Number: 180203
Site Address: 1629 Webster Street | Event Date: 9-3-02
City: Alameda, CA | Sampler: Joe

Well ID: MW-4 | Well Condition: O.K
Well Diameter: 2 in. | Hydrocarbon Thickness: 0 ft. | Amount Bailed (product/water): 0 gal.
Total Depth: 19.78 ft.
Depth to Water: 6.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

13.28 xVF 0.17 = 2.26 x3 (case volume) = Estimated Purge Volume: 7 gal.

Purge Equipment:
- Disposable Bailer: ✓
- Stainless Steel Bailer:
- Stack Pump:
- Suction Pump:
- Grundfos:
- Other:

Sampling Equipment:
- Disposable Bailer: ✓
- Pressure Bailer:
- Discrete Bailer:
- Other:

Start Time (purge): 1255 | Weather Conditions: Hot
Sample Time/Date: 1316 9-3-02 | Water Color: Clear | Odor: none
Purging Flow Rate: 0.5 gpm. | Sediment Description:
Did well de-water? _____ | If yes, Time: _____ | Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1303	2.5	7.45	6.56	67.3		
1306	5	7.55	6.92	68.5		
1309	7	7.57	7.04	68.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	~~x voa vial~~	~~YES~~	~~HCL~~	~~SEQUOIA~~	~~8 Oxy's(8260)~~

COMMENTS:

Add/Replaced Lock: _____ | Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Tosco #0843 Job Number: 180203
Site Address: 1629 Webster Street Event Date: 9-3-02
City: Alameda, CA Sampler: JDC

Well ID MW-5 Well Condition: See Note
Well Diameter 2 in. Hydrocarbon Thickness: ft. Amount Bailed (product/water): gal.
Total Depth ft.
Depth to Water ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

_____ xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
- Disposable Bailer _____
- Stainless Steel Bailer _____
- Stack Pump _____
- Suction Pump _____
- Grundfos _____
- Other: _____

Sampling Equipment:
- Disposable Bailer _____
- Pressure Bailer _____
- Discrete Bailer _____
- Other: _____

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	x voa vial	YES	HCL	SEQUOIA	8 Oxy's(8260)

COMMENTS: Paved over well

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: **Tosco #0843** Job Number: **180203**

Site Address: **1629 Webster Street** Event Date: 9-3-02

City: **Alameda, CA** Sampler: Joe

Well ID MW-6 Well Condition: See Note

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

Total Depth ft.

Depth to Water ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

____ xVF ____ = ____ x3 (case volume) = Estimated Purge Volume: ____ gal.

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): Weather Conditions:

Sample Time/Date: / Water Color: Odor:

Purging Flow Rate: gpm. Sediment Description:

Did well de-water? If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	x voa vial	YES	HCL	SEQUOIA	8 Oxy's(8260)

COMMENTS: Paved over well

Add/Replaced Lock: Add/Replaced Plug: Size:

Gettler-Ryan Inc., Chain-of-Custody

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number #0843 Facility Address 1629 WEBSTER STREET, ALAMEDA, CA Global ID T0600102263 Project 180203.80 Client Contact MR. DAVID B. DEWITT Phone (925) 277-2384	Laboratory Name : SEQUOIA Consultant GETTLER-RYAN, INC. DEANNA L. HARDING Address 6747 SIERRA CT., SUITE J, DUBLIN CA 94568 Phone (925) 551-7555 Fax (925) 551-7899 Samples Collected by JOE AJEMIAN	

SAMPLE ID	Number of Containers Matrix	S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	8 OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270					Remarks
																						HLI0108
01 QA	1	W	HCL	9-3-02	✓																	Run 8 Oxy's by 8260 on all 8021 MTBE hits.
02 MW-2	5	"	"	" 1345	✓					✓												
03 MW-4	3	"	"	" 1316	✓																	

OXYGENATES 8260
1 – MTBE
2 – TBA
3 – TAME
4 – DIPE
5 – ETBE
6 – 1,2-DCA
7 – EDB
8 – ETHANOL

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice)
[signature]		1630 9-3-02	[signature]		1630 9/3/02	Iced Y/N	24 Hrs.
[signature]		1800 9/3/02	WHS		1800 9/3/02	Iced Y/N	48 Hrs.
WHS	SEQ	1930 9/3/02	Received For Laboratory By (Signature) [signature]		9/3/02	Iced (Y)/N	72 Hrs.
							5 Days
							10 Days
							(As Contracted)

FILE NAME: P:\ENVIRO\X-CHAINS\TOSCO\STD-COC.DWG | Layout Tab: Model

Sequoia Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

16 September, 2002

Deanna Harding
Gettler Ryan/Geostrategies - Tosco/Unocal
6747 Sierra Ct, Suite J
Dublin, CA 94568

RE: Tosco SS #0843, Alameda, Ca
Sequoia Work Order: MLI0108

Enclosed are the results of analyses for samples received by the laboratory on 09/03/02 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Project Manager

CA ELAP Certificate #1210

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Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Gettler Ryan/Geostrategies - Tosco/Unocal	Project: Tosco SS #0843, Alameda, Ca	ML10108
6747 Sierra Ct, Suite J	Project Number: #0843, Alameda, Ca	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	09/16/02 19:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
QA	ML10108-01	Water	09/03/02 00:00	09/03/02 16:30
MW-2	ML10108-02	Water	09/03/02 13:45	09/03/02 16:30
MW-4	ML10108-03	Water	09/03/02 13:16	09/03/02 16:30

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885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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Gettler Ryan/Geostrategies - Tosco/Unocal 6747 Sierra Ct, Suite J Dublin CA, 94568	Project: Tosco SS #0843, Alameda, Ca Project Number: #0843, Alameda, Ca Project Manager: Deanna Harding	MLI0108 **Reported:** 09/16/02 19:11

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
QA (MLI0108-01) Water Sampled: 09/03/02 00:00 Received: 09/03/02 16:30									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2111002	09/11/02	09/11/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.6 %*		*70-130*		"	"	"	
MW-2 (MLI0108-02) Water Sampled: 09/03/02 13:45 Received: 09/03/02 16:30									
Gasoline Range Organics (C6-C10)	**10000**	1000	ug/l	20	2109001	09/09/02	09/09/02	8015Bm/8021B	HC-21
Benzene	**150**	10	"	"	"	"	"	"	
Toluene	**1200**	10	"	"	"	"	"	"	
Ethylbenzene	**610**	10	"	"	"	"	"	"	
Xylenes (total)	**2800**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**510**	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*78.4 %*		*70-130*		"	"	"	
MW-4 (MLI0108-03) Water Sampled: 09/03/02 13:16 Received: 09/03/02 16:30									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2109001	09/09/02	09/09/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.8 %*		*70-130*		"	"	"	

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885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
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Gettler Ryan/Geostrategies - Tosco/Unocal	Project: Tosco SS #0843, Alameda, Ca	MLI0108
6747 Sierra Ct, Suite J	Project Number: #0843, Alameda, Ca	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	09/16/02 19:11

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MLI0108-02) Water Sampled: 09/03/02 13:45 Received: 09/03/02 16:30									
Ethanol	ND	5000	ug/l	10	2109024	09/09/02	09/10/02	EPA 8260B	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether	**460**	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	20	"	"	"	"	"	"	
Ethylene dibromide	ND	20	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*78-129*		"	"	"	"	

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Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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Gettler Ryan/Geostrategies - Tosco/Unocal	Project: Tosco SS #0843, Alameda, Ca	ML10108
6747 Sierra Ct, Suite J	Project Number: #0843, Alameda, Ca	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	09/16/02 19:11

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2109001 - EPA 5030B [P/T]										
Blank (2109001-BLK1)				Prepared & Analyzed: 09/09/02						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*10.1*		"	*10.0*		*101*	*70-130*			
Laboratory Control Sample (2109001-BS1)				Prepared & Analyzed: 09/09/02						
Benzene	10.6	0.50	ug/l	10.0		106	70-130			
Toluene	10.7	0.50	"	10.0		107	70-130			
Ethylbenzene	9.97	0.50	"	10.0		99.7	70-130			
Xylenes (total)	32.4	0.50	"	30.0		108	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.8*		"	*10.0*		*108*	*70-130*			
Laboratory Control Sample (2109001-BS2)				Prepared & Analyzed: 09/09/02						
Gasoline Range Organics (C6-C10)	266	50	ug/l	250		106	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.50*		"	*10.0*		*95.0*	*70-130*			
Matrix Spike (2109001-MS1)		**Source: MLI0132-01**		Prepared & Analyzed: 09/09/02						
Gasoline Range Organics (C6-C10)	529	50	ug/l	550	ND	96.2	60-140			
Benzene	6.74	0.50	"	6.60	ND	102	60-140			
Toluene	45.4	0.50	"	39.7	ND	114	60-140			
Ethylbenzene	10.2	0.50	"	9.20	ND	110	60-140			
Xylenes (total)	55.0	0.50	"	46.1	ND	119	60-140			
Surrogate: a,a,a-Trifluorotoluene	*12.6*		"	*10.0*		*126*	*70-130*			
Matrix Spike Dup (2109001-MSD1)		**Source: MLI0132-01**		Prepared & Analyzed: 09/09/02						
Gasoline Range Organics (C6-C10)	526	50	ug/l	550	ND	95.6	60-140	0.569	25	
Benzene	8.99	0.50	"	6.60	ND	136	60-140	28.6	25	QM-07

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885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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Gettler Ryan/Geostrategies - Tosco/Unocal	Project: Tosco SS #0843, Alameda, Ca	MLI0108
6747 Sierra Ct, Suite J	Project Number: #0843, Alameda, Ca	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	09/16/02 19:11

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2109001 - EPA 5030B [P/T]										
Matrix Spike Dup (2109001-MSD1)	**Source: MLI0132-01**			Prepared & Analyzed: 09/09/02						
Toluene	41.7	0.50	ug/l	39.7	ND	105	60-140	8.50	25	
Ethylbenzene	9.47	0.50	"	9.20	ND	102	60-140	7.42	25	
Xylenes (total)	50.5	0.50	"	46.1	ND	110	60-140	8.53	25	
Surrogate: a,a,a-Trifluorotoluene	*10.5*		"	*10.0*		*105*	*70-130*			
Batch 2111002 - EPA 5030B [P/T]										
Blank (2111002-BLK1)				Prepared & Analyzed: 09/11/02						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*9.25*		"	*10.0*		*92.5*	*70-130*			
Laboratory Control Sample (2111002-BS1)				Prepared & Analyzed: 09/11/02						
Benzene	9.86	0.50	ug/l	10.0		98.6	70-130			
Toluene	9.90	0.50	"	10.0		99.0	70-130			
Ethylbenzene	10.2	0.50	"	10.0		102	70-130			
Xylenes (total)	30.0	0.50	"	30.0		100	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.23*		"	*10.0*		*92.3*	*70-130*			
Laboratory Control Sample (2111002-BS2)				Prepared & Analyzed: 09/11/02						
Gasoline Range Organics (C6-C10)	220	50	ug/l	250		88.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.47*		"	*10.0*		*94.7*	*70-130*			

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885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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Gettler Ryan/Geostrategies - Tosco/Unocal	Project: Tosco SS #0843, Alameda, Ca	ML10108
6747 Sierra Ct, Suite J	Project Number: #0843, Alameda, Ca	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	09/16/02 19:11

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2I11002 - EPA 5030B [P/T]										
Laboratory Control Sample Dup (2I11002-BSD1)				Prepared & Analyzed: 09/11/02						
Benzene	10.1	0.50	ug/l	10.0		101	70-130	2.40	25	
Toluene	10.1	0.50	"	10.0		101	70-130	2.00	25	
Ethylbenzene	10.3	0.50	"	10.0		103	70-130	0.976	25	
Xylenes (total)	30.5	0.50	"	30.0		102	70-130	1.65	25	
Surrogate: a,a,a-Trifluorotoluene	*10.1*		"	*10.0*		*101*	*70-130*			
Laboratory Control Sample Dup (2I11002-BSD2)				Prepared & Analyzed: 09/11/02						
Gasoline Range Organics (C6-C10)	248	50	ug/l	250		99.2	70-130	12.0	25	
Surrogate: a,a,a-Trifluorotoluene	*11.1*		"	*10.0*		*111*	*70-130*			

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885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Gettler Ryan/Geostrategies - Tosco/Unocal 6747 Sierra Ct, Suite J Dublin CA, 94568	Project: Tosco SS #0843, Alameda, Ca Project Number: #0843, Alameda, Ca Project Manager: Deanna Harding	MLI0108 **Reported:** 09/16/02 19:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2I09024 - EPA 5030B P/T										
Blank (2I09024-BLK1)				Prepared: 09/09/02 Analyzed: 09/10/02						
Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	100	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	*5.45*		"	*5.00*		*109*	*78-129*			
Laboratory Control Sample (2I09024-BS1)				Prepared: 09/09/02 Analyzed: 09/10/02						
Methyl tert-butyl ether	10.6	2.0	ug/l	10.0		106	63-137			
Surrogate: 1,2-Dichloroethane-d4	*5.53*		"	*5.00*		*111*	*78-129*			
Laboratory Control Sample Dup (2I09024-BSD1)				Prepared: 09/09/02 Analyzed: 09/10/02						
Methyl tert-butyl ether	10.7	2.0	ug/l	10.0		107	63-137	0.939	13	
Surrogate: 1,2-Dichloroethane-d4	*5.73*		"	*5.00*		*115*	*78-129*			
Matrix Spike (2I09024-MS1)		**Source: MLI0093-06**		Prepared: 09/09/02 Analyzed: 09/10/02						
Methyl tert-butyl ether	53.8	10	ug/l	50.0	ND	106	0-200			
Surrogate: 1,2-Dichloroethane-d4	*5.77*		"	*5.00*		*115*	*78-129*			
Matrix Spike Dup (2I09024-MSD1)		**Source: MLI0093-06**		Prepared: 09/09/02 Analyzed: 09/10/02						
Methyl tert-butyl ether	54.1	10	ug/l	50.0	ND	106	0-200	0.556	200	
Surrogate: 1,2-Dichloroethane-d4	*5.76*		"	*5.00*		*115*	*78-129*			

Sequoia Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Gettler Ryan/Geostrategies - Tosco/Unocal	Project: Tosco SS #0843, Alameda, Ca	ML10108
6747 Sierra Ct, Suite J	Project Number: #0843, Alameda, Ca	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	09/16/02 19:11

Notes and Definitions

HC-21	Chromatogram Pattern: Gasoline C6-C10
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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