GETTLER-RYAN INC.

TRANSMITTAL

October 13, 1999
G-R #:180203

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

CC: Mr. Glen Matteucci
ERI, Inc.
73 Digital Drive, Suite 100
Novato, California 94949

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 7, 1999	Groundwater Monitoring and Sampling Report Third Quarter 1999 - Event of September 2, 1999

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 ***October 25, 1999***, this report will be distributed to the following:

Enclosure

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

14/1/99 Relayed info to Deanna. – Can drop confirmation using 8260 for MTBE. Just do 8020 now.

– Ask if lab can quantify for other oxygenates done - No other oxygenating detected. except MtBE.

agency/0843dbd.qmt

GETTLER-RYAN INC.

October 7, 1999
G-R Job #180203

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

RE: Third Quarter 1999 Groundwater Monitoring & Sampling Report
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

Dear Mr. De Witt:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On September 2, 1999, field personnel monitored and sampled four wells (MW-1 through MW-4) at the above referenced site.

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

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

Sincerely,

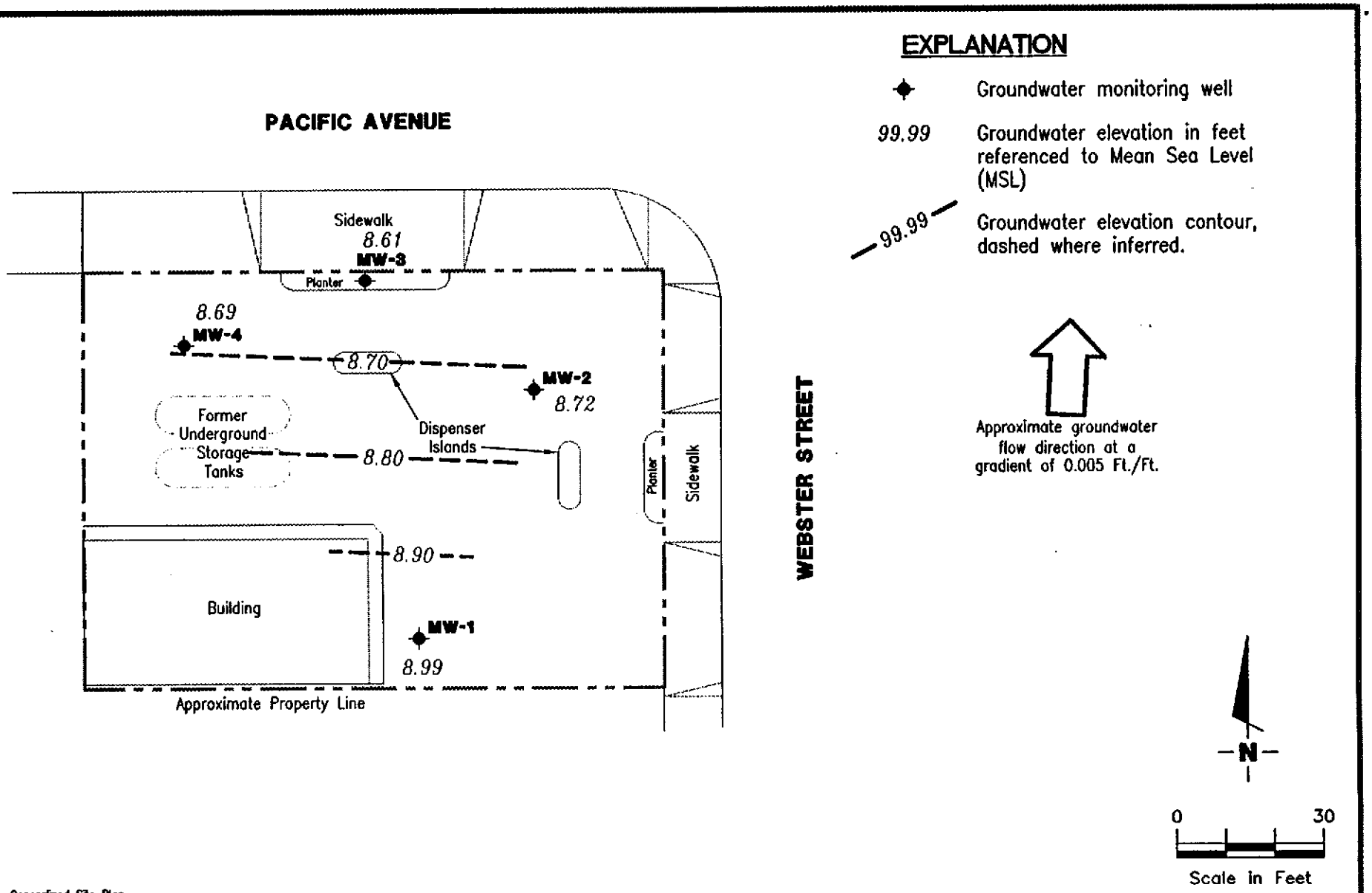
Deanna L. Harding
Project Coordinator

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

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

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

0843.qml



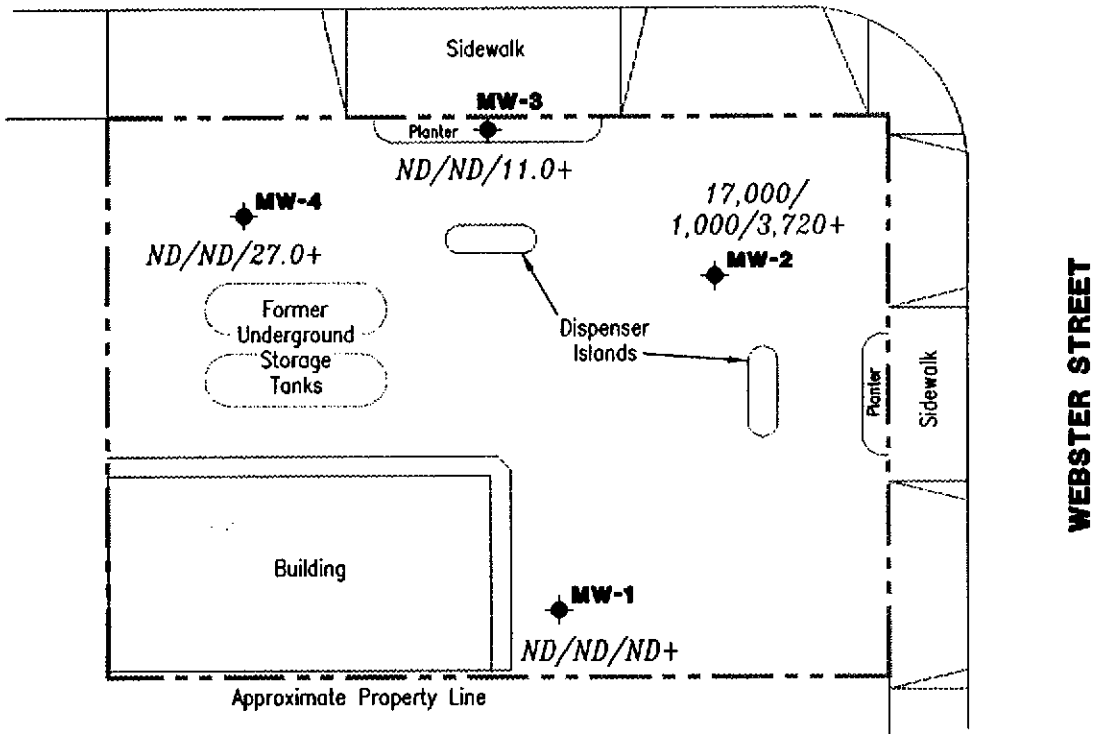
Base Map: ERI, Generalized Site Plan

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

POTENTIOMETRIC MAP
Former Tosco 76 Service Station No. 0843
1629 Webster Street
Alameda, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180203		September 2, 1999	



EXPLANATION

◆	Groundwater monitoring well
A/B/C	TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
+	MTBE by EPA Method 8260
ND	Not Detected

N

0 30

Scale in Feet

Base Map: ERI, Generalized Site Plan

Gettler - Ryan Inc.

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Dublin, CA 94568

CONCENTRATION MAP
Former Tosco 76 Service Station No. 0843
1629 Webster Street
Alameda, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180203		September 2, 1999	

Table 1

Groundwater Monitoring Data and Analytical Results

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

Well ID/ TOC*	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]**
MW-2									
15.57	03/05/99[1]	--	--	34,400	2,070	7,710	2,340	8,240	8,460[2]
	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]**
MW-3									
15.11	03/05/99[1]	--	--	135[3]	ND	ND	ND	4.84	2.46[2]
	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]**
MW-4									
15.17	03/05/99[1]	--	--	ND	ND	ND	ND	2.44	25.2[2]
	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]**
Trip Blank									
TB-LB	03/05/99[1]	--	--	ND	ND	ND	ND	ND	ND[2]
	06/03/99	--	--	ND	ND	ND	ND	ND	ND
	09/02/99	--	--	**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

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 elevation
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
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

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

[1] Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8260A.

[2] MTBE by EPA Method 8260A.

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

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

[5] Laboratory report indicates gasoline C6-C12.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 0843 — Job#: 180203

Address: 1629 Webster st. — Date: 9/2/99

City: Alameda — Sampler: VanHk

Well ID: MW-1 — Well Condition: OK

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

Total Depth: 20.50 ft.

Depth to Water: 7.19 ft.

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

13.31 X VF 0.17 = 2.26 X 3 (case volume) = Estimated Purge Volume: 6.78 (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- (Suction)
- Grundfos
- Other: _____

Sampling Equipment:
- (Disposable Bailer)
- Bailer
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: 12:05 — Weather Conditions: clear

Sampling Time: 12:20 — Water Color: brn — Odor: no

Purging Flow Rate: 1 gpm. — Sediment Description: sand

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:07	2	7.89	5.32	67.6			
12:10	4.5	7.70	5.48				
12:12	7	7.63	5.54	66.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-1	1 VOA	~	~	~	MTBE (8260)

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 0843 — Job#: 180203
Address: 1629 Webster st. — Date: 9/2/99
City: Alameda — Sampler: VanHk

Well ID: MW-2 — Well Condition: OK
Well Diameter: 2 in. — Hydrocarbon Thickness: ∅ (feet) — Amount Bailed (product/water): ∅ (Gallons)
Total Depth: 20.50 ft.
Depth to Water: 6.85 ft.

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

13.65 X VF 0.17 = 2.32 X 3 (case volume) = Estimated Purge Volume: 6.96 (gal.)

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

Starting Time: 1:23 — Weather Conditions: clear
Sampling Time: 1:45 — Water Color: gray — Odor: y
Purging Flow Rate: 1/2 gpm. — Sediment Description: sand
Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:28	2.5	7.73	6.79	69.8			
1:32	4.5	7.58	6.87	69.5			
1:37	7	7.50	6.84	69.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-2	1 VOA	~	~	~	MTBE (8260)

COMMENTS: Slow Recovery

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WELL MONITORING/SAMPLING

FIELD DATA SHEET

Client/ Facility # Tosco 0843 — Job#: 180203

Address: 1629 Webster st. — Date: 9/2/99

City: Alameda — Sampler: VanHk

Well ID: MW-3 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: ∅ (feet) — Amount Bailed (product/water): ∅ (Gallons)

Total Depth: 20.50 ft.

Depth to Water: 6.50 ft.

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

14.00 X VF 0.17 = 2.38 X 3 (case volume) = Estimated Purge Volume: 7.14 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 1:00 — Weather Conditions: clear

Sampling Time: 1:15 — Water Color: bro — Odor: no

Purging Flow Rate: 1 gpm. — Sediment Description: Sand

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:03	2.5	7.85	5.31	70.8			
1:05	5	7.71	5.60	69.4			
1:08	7.5	7.64	5.72	69.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-3	1 VOA	~	~	~	MTBE (8260)

COMMENTS: _____

WELL MONITORING/SAMPLING

FIELD DATA SHEET

Client/ Facility # Tosco 0843 — Job#: 180203

Address: 1629 Webster st. — Date: 9/2/99

City: Alameda — Sampler: VanHk

Well ID: MW-4 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: ø (feet) — Amount Bailed (product/water): ø (Gallons)

Total Depth: 20.50 ft.

Depth to Water: 6.48 ft.

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

14.02 x VF 0.17 = 2.38 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: 12:27 — Weather Conditions: clear

Sampling Time: 12:50 — Water Color: brn — Odor: no

Purging Flow Rate: 1/2 gpm. — Sediment Description: sand

Did well de-water? no — If yes; Time: _____ — Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:32	2.5	7.92	8.13	71.7			
12:36	5	7.80	7.96	71.3			
12:40	7.5	7.72	7.85	70.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-4	1 VOA	~	~	~	MTBE (8260)

COMMENTS: slow recovery

9/97-fieldat.frm

TOSCO

Tosco Marketing Company
2000 Crow Canyon Pl., Ste. 100
San Ramon, California 94583

Facility Number: TOSCO (Former 76) SS #0843
Facility Address: 1629 Webster Street, ALAMEDA CA
Consultant Project Number: 180023.85
Consultant Name: Gettler-Ryan Inc. (G-R Inc.)
Address: 6747 Sierra Court, Suite J, Dublin, CA 94568
Project Contact (Name): Deanna L. Harding
(Phone): 925-551-7555 (Fax Number): 925-551-7888

Contact (Name): Mr. Ed Ralston
(Phone): (916) 774-2910
Laboratory Name: Sequoia Analytical
Laboratory Release Number: W909125
Samples Collected by (Name): Vartkes Tashjian
Collection Date: 9/2/99
Signature: Vartkes Tashjian

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	TPH Gas + BTEX w/MTBE (8015) (8021)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	MTBE (8260)					DO NOT BILL TB-LB ANALYSIS Remarks
								Analyses To Be Performed													
TB-LB	01A	1	W	G		HCl	Y	X													
MW-1	02A-D	4	"	"	12:20 PM	"	"	X								X					
MW-2	03A-D	4	"	"	1:45 PM	"	"	X								X					
MW-3	04A-D	4	"	"	1:15 PM	"	"	X								X					
MW-4	05A-D	4	"	"	12:50 PM	"	"	X								X					

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
Vartkes Tashjian	G-R Inc.	9/2/99 2:30 pm	SC	Seq. SC.	9/2/99 1450	24 Hrs.
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	48 Hrs.
		9/3 Fx 1230				5 Days
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	10 Days
			Ronald C. Geraci WC		9/3/99 17:00	As Contracted

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco SS# 0843	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 13:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	W909125-05	Water	02-Sep-99 12:50	03-Sep-99 17:00
MW-1	W909125-02	Water	02-Sep-99 12:20	03-Sep-99 17:00
MW-3	W909125-04	Water	02-Sep-99 01:15	03-Sep-99 17:00
TB-LB	W909125-01	Water	02-Sep-99 00:00	03-Sep-99 17:00
MW-2	W909125-03	Water	02-Sep-99 01:45	03-Sep-99 17:00

Sequoia Analytical - Walnut Creek

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

Julianne Fegley, Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco SS# 0843	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 13:05

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W909125-01) Water Sampled: 02-Sep-99 00:00 Received: 03-Sep-99 17:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I10002	09-Sep-99	09-Sep-99	DHS LUFT	
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		*80.0 %*	*70-130*		"	"	"	"	
MW-1 (W909125-02) Water Sampled: 02-Sep-99 12:20 Received: 03-Sep-99 17:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I10002	09-Sep-99	09-Sep-99	DHS LUFT	
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		*83.3 %*	*70-130*		"	"	"	"	
MW-2 (W909125-03) Water Sampled: 02-Sep-99 01:45 Received: 03-Sep-99 17:00									**P-01**
Purgeable Hydrocarbons	**17000**	2000	ug/l	40	9I10002	09-Sep-99	09-Sep-99	DHS LUFT	
Benzene	**1000**	20	"	"	"	"	"	"	
Toluene	**3100**	20	"	"	"	"	"	"	
Ethylbenzene	**1400**	20	"	"	"	"	"	"	
Xylenes (total)	**3700**	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**4000**	100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.7 %*	*70-130*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco SS# 0843	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 13:05

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W909125-04) Water Sampled: 02-Sep-99 01:15 Received: 03-Sep-99 17:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I10002	09-Sep-99	09-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**13**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.7 %*	*70-130*		"	"	"	"	
MW-4 (W909125-05) Water Sampled: 02-Sep-99 12:50 Received: 03-Sep-99 17:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I10002	09-Sep-99	09-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**23**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.0 %*	*70-130*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100

Sequoia Analytical - Walnut Creek	Project:	N/A	Sampled: 9/2/99
404 N Wiget Lane	Project Number:	(WO#W909125)	Received: 9/3/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported: 9/20/99

MTBE by EPA Method 8260A
Sequoia Analytical - Sacramento

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W909125-02/MW-1			**S909197-01**				**Water**	
Methyl tert-butyl ether	9090151	9/16/99	9/16/99		2.00	ND	ug/l	
Surrogate: 1,2-DCA-d4	"	"	"	*60.0-140*		*128*	%	
W909125-03/MW-2			**S909197-02**				**Water**	
Methyl tert-butyl ether	9090151	9/16/99	9/16/99		20.0	**3720**	ug/l	D
Surrogate: 1,2-DCA-d4	"	"	"	*60.0-140*		*115*	%	
W909125-04/MW-3			**S909197-03**				**Water**	
Methyl tert-butyl ether	9090151	9/16/99	9/16/99		2.00	**11.0**	ug/l	
Surrogate: 1,2-DCA-d4	"	"	"	*60.0-140*		*117*	%	
W909125-05/MW-4			**S909197-04**				**Water**	
Methyl tert-butyl ether	9090151	9/16/99	9/16/99		2.00	**27.0**	ug/l	
Surrogate: 1,2-DCA-d4	"	"	"	*60.0-140*		*122*	%	

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco SS# 0843	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 13:05

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

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9I10002: Prepared 09-Sep-99 Using EPA 5030B [P/T]										
Blank (9I10002-BLK1)										
Purgeable Hydrocarbons	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	*26.8*		"	*30.0*		*89.3*	*70-130*			
LCS (9I10002-BS1)										
Benzene	21.1	0.50	ug/l	20.0		106	70-130			
Toluene	21.7	0.50	"	20.0		109	70-130			
Ethylbenzene	21.8	0.50	"	20.0		109	70-130			
Xylenes (total)	67.4	0.50	"	60.0		112	70-130			
Surrogate: a,a,a-Trifluorotoluene	*26.9*		"	*30.0*		*89.7*	*70-130*			
Matrix Spike (9I10002-MS1)					**Source: W909156-03**					
Benzene	21.0	0.50	ug/l	20.0	ND	105	70-130			
Toluene	21.2	0.50	"	20.0	ND	106	70-130			
Ethylbenzene	20.7	0.50	"	20.0	ND	104	70-130			
Xylenes (total)	64.4	0.50	"	60.0	ND	107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*26.9*		"	*30.0*		*89.7*	*70-130*			
Matrix Spike Dup (9I10002-MSD1)					**Source: W909156-03**					
Benzene	20.3	0.50	ug/l	20.0	ND	101	70-130	3.39	20	
Toluene	21.0	0.50	"	20.0	ND	105	70-130	0.948	20	
Ethylbenzene	20.6	0.50	"	20.0	ND	103	70-130	0.484	20	
Xylenes (total)	64.2	0.50	"	60.0	ND	107	70-130	0.311	20	
Surrogate: a,a,a-Trifluorotoluene	*27.2*		"	*30.0*		*90.7*	*70-130*			

Julianne Fegley, Project Manager

Sequoia Analytical

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Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100

Sequoia Analytical - Walnut Creek	Project:	N/A	Sampled: 9/2/99
404 N Wiget Lane	Project Number:	(WO#W909125)	Received: 9/3/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported: 9/20/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - Sacramento

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9090151	**Date Prepared: 9/16/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9090151-BLK1**									
Methyl tert-butyl ether	9/16/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-DCA-d4	"	*50.0*		*59.2*	"	*60.0-140*	*118*			
Blank	**9090151-BLK2**									
Methyl tert-butyl ether	9/17/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-DCA-d4	"	*50.0*		*56.8*	"	*60.0-140*	*114*			
LCS	**9090151-BS1**									
Methyl tert-butyl ether	9/16/99	50.0		47.4	ug/l	70.0-130	94.8			
Surrogate: 1,2-DCA-d4	"	*50.0*		*58.8*	"	*60.0-140*	*118*			
LCS Dup	**9090151-BSD1**									
Methyl tert-butyl ether	9/16/99	50.0		47.2	ug/l	70.0-130	94.4	25.0	0.423	
Surrogate: 1,2-DCA-d4	"	*50.0*		*57.2*	"	*60.0-140*	*114*			
Matrix Spike	**9090151-MS1**		**S909193-01**							
Methyl tert-butyl ether	9/16/99	50.0	2.74	47.4	ug/l	60.0-140	**89.3**			
Surrogate: 1,2-DCA-d4	"	*50.0*		*58.4*	"	*60.0-140*	*117*			
Matrix Spike Dup	**9090151-MSD1**		**S909193-01**							
Methyl tert-butyl ether	9/16/99	50.0	2.74	49.4	ug/l	60.0-140	**93.3**	25.0	**4.38**	
Surrogate: 1,2-DCA-d4	"	*50.0*		*61.0*	"	*60.0-140*	*122*			

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Sequoia Analytical - Walnut Creek	Project:	N/A	Sampled:	9/2/99
404 N Wiget Lane	Project Number:	(WO#W909125)	Received:	9/3/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported:	9/20/99

Notes and Definitions

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