

R 243



# GETTLER-RYAN INC.

**TRANSMITTAL**

March 13, 2003  
G-R #180264

APR 02 2003

**Environmental Health**

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

CC: Mr. David Vossler  
Gettler-Ryan, Inc.  
Petaluma, California

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

RE: **Tosco (76) Service Station  
#0018  
6201 Claremont Avenue  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 10, 2003	Groundwater Monitoring and Sampling Report First Quarter - Event of February 3, 2003

**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 **March 27, 2003**, this report will be distributed to the following:

cc: Mr. Don Huang, Alameda County Health Care Service Division, 1131 Harbor Bay Pkwy., Ste. 250,  
Alameda, CA 94502

Enclosure



# GETTLER-RYAN INC.

March 10, 2003  
G-R Job #180264

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

**RE: First Quarter Event of February 3, 2003**  
Groundwater Monitoring & Sampling Report  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, 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 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 reports are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

- FOR -

Deanna L. Harding  
Project Coordinator

Robert C. Mallory  
Registered Geologist No. 7285

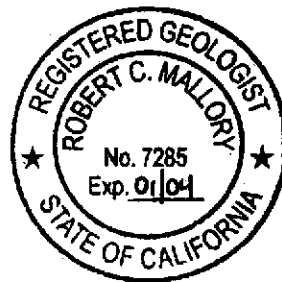
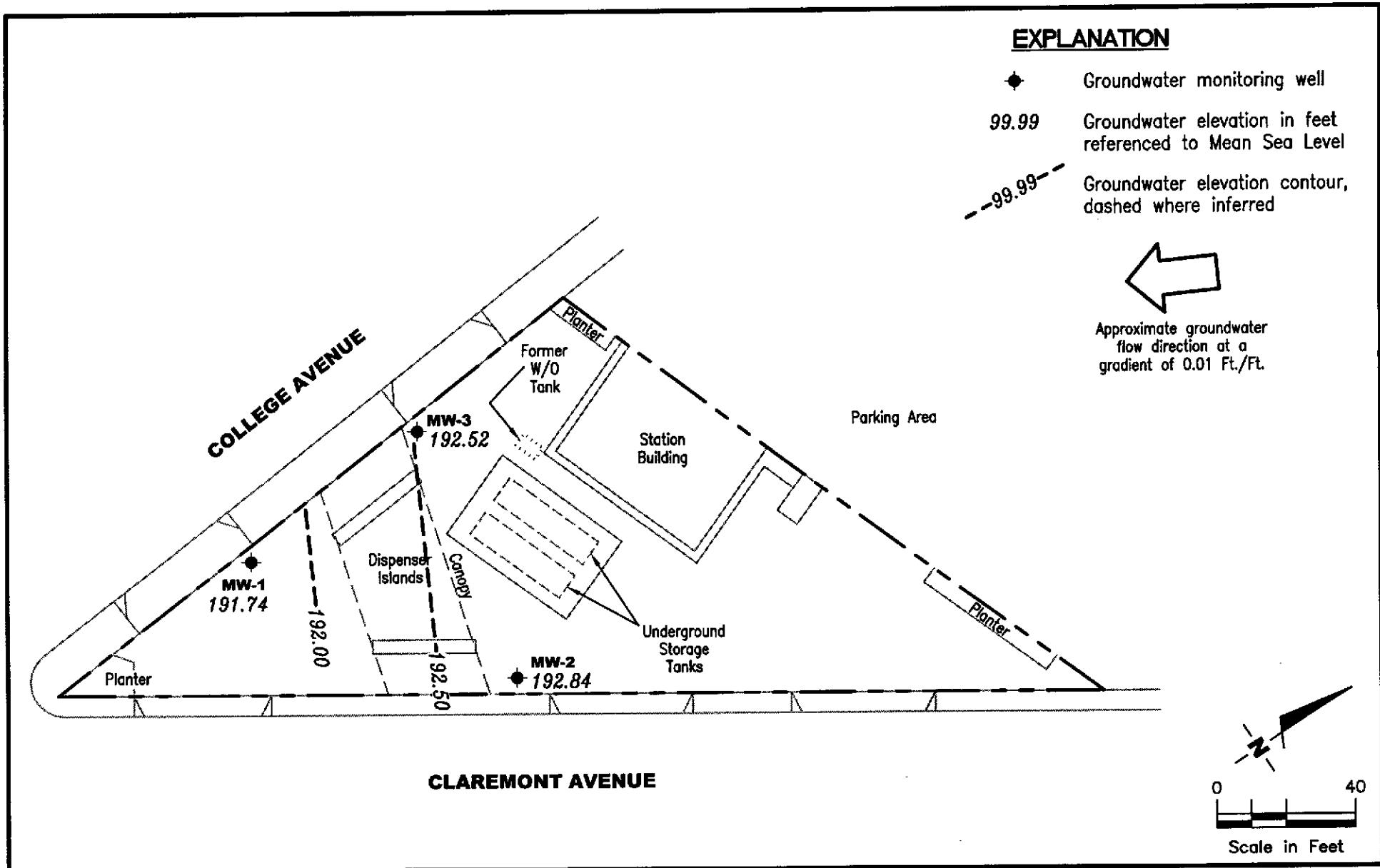


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and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

0018-qml



**GETTLER - RYAN INC.**

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

**POTENTIOMETRIC MAP**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, California

FIGURE

1

PROJECT NUMBER  
180264

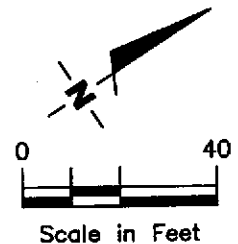
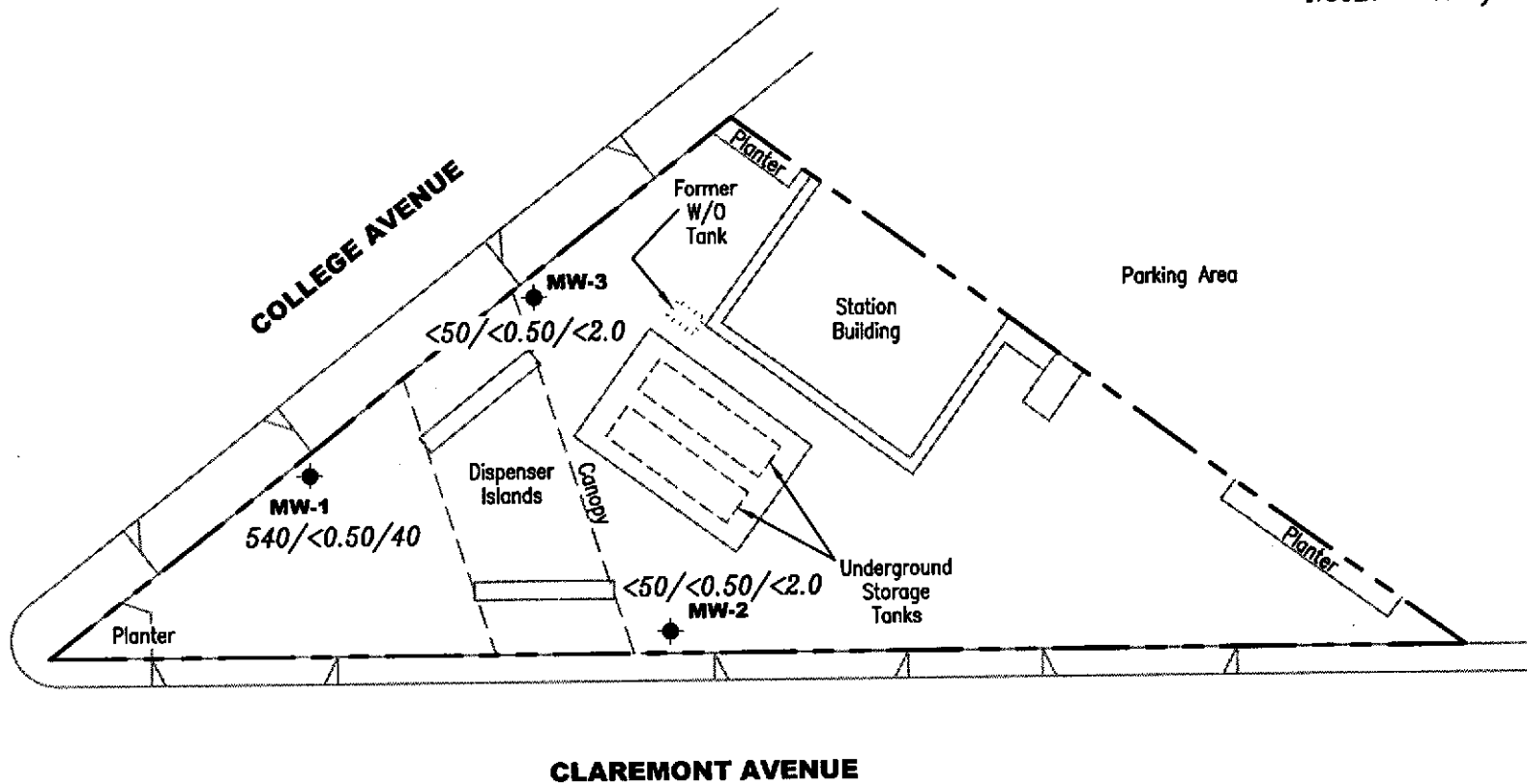
REVIEWED BY

DATE  
February 3, 2003

REVISED DATE

**EXPLANATION**

- ◆ Groundwater monitoring well
- A/B/C Total Petroleum Hydrocarbons (TPH) as Gasoline/Benzene/MTBE concentrations in ppb
- NOTE:** Analyses by EPA Method 8260



**GETTLER - RYAN INC.**  
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**CONCENTRATION MAP**  
 Tosco (76) Service Station #0018  
 6201 Claremont Avenue  
 Oakland, California

FIGURE  
**2**

PROJECT NUMBER  
 180264

REVIEWED BY

DATE  
 February 3, 2003

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-1</b>										
208.15	08/24/00	18.55	10.0-30.0	189.60	120 <sup>1</sup>	0.67	ND	0.86	1.4	54/54 <sup>2</sup>
	11/16/00	20.30		187.85	169 <sup>3</sup>	ND	1.20	1.74	0.629	68.6/97.7 <sup>2</sup>
	02/09/01	20.16		187.99	330 <sup>3</sup>	1.3	ND	1.0	4.6	140/150 <sup>2</sup>
	05/11/01	17.68		190.47	1,250 <sup>3</sup>	ND <sup>4</sup>	ND <sup>4</sup>	ND <sup>4</sup>	ND <sup>4</sup>	145/122 <sup>2</sup>
	08/10/01	20.38		187.77	580 <sup>3</sup>	<0.50	<0.50	<0.50	<0.50	110/150 <sup>2</sup>
	11/07/01	22.68		185.47	250 <sup>3</sup>	<0.50	1.5	<0.50	<0.50	120/100 <sup>2</sup>
	02/06/02	16.20		191.95	790	<2.5	12	8.8	<2.5	90/72 <sup>2</sup>
	05/08/02	17.54		190.61	890 <sup>3</sup>	<2.5	<2.5	<2.5	<2.5	78/81 <sup>2</sup>
	08/09/02 <sup>5</sup>	20.21		187.94	450 <sup>6</sup>	<0.50	<0.50	<0.50	<1.0	100
	11/29/02 <sup>5</sup>	22.33		185.82	110	<0.50	<0.50	<0.50	<1.0	72
	02/03/03 <sup>5</sup>	16.41		191.74	540 <sup>6</sup>	<0.50	<0.50	<0.50	<1.0	40
<b>MW-2</b>										
210.27	08/24/00	19.69	10.0-30.0	190.58	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	11/16/00	21.61		188.66	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	02/09/01	21.52		188.75	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	05/11/01	18.76		191.51	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	08/10/01	21.65		188.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<2.0 <sup>2</sup>
	11/07/01	24.25		186.02	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<1.0 <sup>2</sup>
	02/06/02	18.22		192.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	18.63		191.64	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	08/09/02 <sup>5</sup>	21.53		188.74	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 <sup>5</sup>	23.73		186.54	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	02/03/03 <sup>5</sup>	17.43		192.84	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<b>MW-3</b>										
208.98	08/24/00	18.68	10.0-30.0	190.30	ND	ND	ND	ND	ND	4.7/2.3 <sup>2</sup>
	11/16/00	20.56		188.42	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	02/09/01	20.45		188.53	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	05/11/01	17.75		191.23	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (76) Service Station #0018  
 6201 Claremont Avenue  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	08/10/01	20.70	10.0-30.0	188.28	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<2.0 <sup>2</sup>
(cont)	11/07/01	23.02		185.96	<50	<0.50	<0.50	<0.50	<0.50	<5.0/1.5 <sup>2</sup>
	02/06/02	17.19		191.79	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	17.59		191.39	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	08/09/02 <sup>5</sup>	20.48		188.50	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 <sup>5</sup>	22.64		186.34	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	02/03/03 <sup>5</sup>	16.46		192.52	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<b>Trip Blank</b>										
TB-LB	08/24/00	--	--	--	ND	ND	ND	ND	ND	ND
	11/16/00	--	--	--	ND	ND	ND	ND	ND	ND
	02/09/01	--	--	--	ND	ND	ND	ND	ND	ND
	05/11/01	--	--	--	ND	ND	ND	ND	ND	ND
	08/10/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/07/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/06/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	08/09/02 <sup>5</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 <sup>5</sup>	--	--	--	<50	<0.50	0.88	<0.50	<1.0	<2.0
	02/03/03 <sup>5</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, California

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**EXPLANATIONS:**

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

S.I. = Screen Interval

(ft. bgs) = Feet Below Ground Surface

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/Trip Blank

\* TOC elevations have been surveyed relative to msl; per the city of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elevation = 179.075 feet, msl).

<sup>1</sup> Laboratory report indicates gasoline C6-C12.

<sup>2</sup> MTBE by EPA Method 8260.

<sup>3</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.

<sup>4</sup> Detection limit raised. Refer to analytical reports.

<sup>5</sup> TPH-G, BTEX and MTBE by EPA Method 8260.

<sup>6</sup> Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (76) Service Station #0018  
 6201 Claremont Avenue  
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	08/24/00	ND	ND	54	ND	ND	ND	--	--
	11/16/00	ND	ND	97.7	ND	ND	ND	--	--
	02/09/01	ND	ND	150	ND	ND	ND	ND	ND
	05/11/01	ND	ND	122	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	150	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	100	<1.0	<1.0	<1.0	<1.0	<1.0
	02/06/02	<500	<100	72	<2.0	<2.0	<2.0	<2.0	<2.0
	05/08/02	<500	<100	81	<2.0	<2.0	<2.0	<2.0	<2.0
	08/09/02	<500	<100	100	<2.0	<2.0	<2.0	<2.0	<2.0
	11/29/02	<500	<100	72	<2.0	<2.0	<2.0	<2.0	<2.0
	02/03/03	<500	<100	40	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	08/24/00	ND	ND	ND	ND	ND	ND	--	--
	11/16/00	ND	ND	ND	ND	ND	ND	--	--
	02/09/01	ND	ND	ND	ND	ND	ND	ND	ND
	05/11/01	ND	ND	ND	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/09/02	--	--	<2.0	--	--	--	--	--
	11/29/02	--	--	<2.0	--	--	--	--	--
	02/03/03	--	--	<2.0	--	--	--	--	--
MW-3	08/24/00	ND	ND	2.3	ND	ND	ND	--	--
	11/16/00	ND	ND	ND	ND	ND	ND	--	--
	02/09/01	ND	ND	ND	ND	ND	ND	ND	ND
	05/11/01	ND	ND	ND	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	1.5	<1.0	<1.0	<1.0	<1.0	<1.0



**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (76) Service Station #0018  
 6201 Claremont Avenue  
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	08/09/02	--	--	<2.0	--	--	--	--	--
(cont)	11/29/02	--	--	<2.0	--	--	--	--	--
	02/03/03	--	--	<2.0	--	--	--	--	--

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, California

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**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  
ND = Not Detected  
-- = Not Analyzed

**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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

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 disposable 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 and is labeled as QA. 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 #: ConocoPhillips#0018 Job Number: 180264  
 Site Address: 6201 Claremont Blvd. Event Date: 2/3/03 (inclusive)  
 City: Oakland, CA Sampler: G.R.

Well ID: MW-1 Date Monitored: 2/3/03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 30.00 ft.  
 Depth to Water: 16.41 ft.  
13.59 x VF 0.17 = 2.31 x3 (case volume) = Estimated Purge Volume: 7 gal.

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

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

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 Hydrocarbon Thickness: 0 ft.  
 Visual Confirmation/Description:  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1235 Weather Conditions: Clean  
 Sample Time/Date: 1310 / 2/3/03 Water Color: Clean Odor: No  
 Purging Flow Rate: - gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1239</u>	<u>2.5</u>	<u>6.41</u>	<u>768</u>	<u>19.5</u>		
<u>1246</u>	<u>5</u>	<u>6.32</u>	<u>759</u>	<u>19.5</u>		
<u>1258</u>	<u>7</u>	<u>6.34</u>	<u>761</u>	<u>19.4</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x vovial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE/8 Oxy's(8260)</u>

COMMENTS: New well depth

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#0018  
 Site Address: 6201 Claremont Blvd.  
 City: Oakland, CA

Job Number: 180264  
 Event Date: 2/3/03 (inclusive)  
 Sampler: G.A.

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 29.95 ft.  
 Depth to Water: 17.43 ft.

Date Monitored: 2/3/03 Well Condition: OK

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

$12.5 \checkmark \times VF 0.17 = 2.13 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 6.5 \text{ gal.}$

**Purge Equipment:**  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1100 Weather Conditions: Clear  
 Sample Time/Date: 1135 2/3/03 Water Color: Light Brown Odor: NO  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1105</u>	<u>2</u>	<u>6.46</u>	<u>563</u>	<u>18.7</u>	_____	_____
<u>1110</u>	<u>4</u>	<u>6.39</u>	<u>544</u>	<u>18.6</u>	_____	_____
<u>1122</u>	<u>6.5</u>	<u>6.34</u>	<u>549</u>	<u>18.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE/OP (2000)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: New well depth

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#0018 Job Number: 180264  
 Site Address: 6201 Claremont Blvd. Event Date: 2/3/03 (inclusive)  
 City: Oakland, CA Sampler: GR

Well ID: MW-3 Date Monitored: 2/3/03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 28.95 ft.  
 Depth to Water: 16.46 ft.  
 Volume Factor (VF) table:  

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 0.17 = 2.12 x3 (case volume) = Estimated Purge Volume: 6.5 gal.

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

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1145 Weather Conditions: Clear  
 Sample Time/Date: 1221 2/3/03 Water Color: light Brown Odor: ND  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? ND If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1150</u>	<u>2</u>	_____	_____	_____	_____	_____
<u>1157</u>	<u>4</u>	_____	_____	_____	_____	_____
<u>1205</u>	<u>6.5</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE (9990)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: New well drilled

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

2003-02-0031

Gettler-Ryan Inc., Chain-of-Custo

p.2  
9256003002  
stlonsite  
Feb 18 03 04:50P  
FILE NAME: P:\ENVIRO\K-CHAINCUSTOARY\STD-COC.DWG | Layout Tab: Model

Tosco Corp./ Phillips 66 Co.  
2000 Crow Canyon Place  
Suite 400  
San Ramon, CA 94583

Facility Number #D018  
Facility Address 6201 CLAREMONT BLVD., OAKLAND, CA  
Global ID T0600102231 Project 180264.80  
Client Contact MR. DAVID B. DEWITT  
Phone (925) 277-2384

Laboratory Name STL - PLEASANTON, CA 71779  
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 G. Roger

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	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 9520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HYDROCS (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	1	W	Hrc	2-3-03					✓									
MW-1	3	W	HCL	1310					✓	✓								
MW-2	3	W	HCL	1135					✓									
MW-3	3	W	HCL	1221					✓									

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

Relinquished By (Signature) <i>[Signature]</i>	Organization Gettler-Ryan	Date/Time 2-3-03/1355	Received By (Signature) <i>[Signature]</i>	Organization STL-57	Date/Time 2/3/03	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <i>[Signature]</i>	Organization STL-57	Date/Time 2/3/03/1350	Received By (Signature) <i>[Signature]</i>	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature) <i>[Signature]</i>	Organization	Date/Time	Received For Laboratory By (Signature) <i>[Signature]</i>	Date/Time 02/03/03	No 46	Iced Y/N	

46

Gettler Ryan

February 18, 2003

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180264.80

Project: Tosco #0018

Site: 6201 Claremont Blvd.  
Oakland, CA

RECEIVED

GETTLER RYAN INC  
GENERAL CONTRACTORS

Dear Ms. Harding,

Attached is our report for your samples received on 02/03/2003 16:46

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 03/20/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [tgranicher@stl-inc.com](mailto:tgranicher@stl-inc.com)

Sincerely,



Tod Granicher  
Project Manager



**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80  
Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	02/03/2003	Water	1
MW-1	02/03/2003 13:10	Water	2
MW-2	02/03/2003 11:35	Water	3
MW-3	02/03/2003 12:21	Water	4

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80  
Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2003-02-0031 - 1
Sampled:	02/03/2003	Extracted:	2/11/2003 11:46
Matrix:	Water	QC Batch#:	2003/02/11-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/11/2003 11:46	
Benzene	ND	0.50	ug/L	1.00	02/11/2003 11:46	
Toluene	ND	0.50	ug/L	1.00	02/11/2003 11:46	
Ethylbenzene	ND	0.50	ug/L	1.00	02/11/2003 11:46	
Total xylenes	ND	1.0	ug/L	1.00	02/11/2003 11:46	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/11/2003 11:46	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	99.5	76-114	%	1.00	02/11/2003 11:46	
Toluene-d8	91.4	88-110	%	1.00	02/11/2003 11:46	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80

Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2003-02-0031 - 2
Sampled:	02/03/2003 13:10	Extracted:	2/12/2003 14:31
Matrix:	Water	QC Batch#:	2003/02/12-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	540	50	ug/L	1.00	02/12/2003 14:31	g
Benzene	ND	0.50	ug/L	1.00	02/12/2003 14:31	
Toluene	ND	0.50	ug/L	1.00	02/12/2003 14:31	
Ethylbenzene	ND	0.50	ug/L	1.00	02/12/2003 14:31	
Total xylenes	ND	1.0	ug/L	1.00	02/12/2003 14:31	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	02/12/2003 14:31	
Methyl tert-butyl ether (MTBE)	40	2.0	ug/L	1.00	02/12/2003 14:31	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	02/12/2003 14:31	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	02/12/2003 14:31	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	02/12/2003 14:31	
1,2-DCA	ND	2.0	ug/L	1.00	02/12/2003 14:31	
EDB	ND	2.0	ug/L	1.00	02/12/2003 14:31	
Ethanol	ND	500	ug/L	1.00	02/12/2003 14:31	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	100.6	76-114	%	1.00	02/12/2003 14:31	
Toluene-d8	95.3	88-110	%	1.00	02/12/2003 14:31	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80

Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.

Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2003-02-0031 - 3
Sampled:	02/03/2003 11:35	Extracted:	2/11/2003 17:20
Matrix:	Water	QC Batch#:	2003/02/11-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/11/2003 17:20	
Benzene	ND	0.50	ug/L	1.00	02/11/2003 17:20	
Toluene	ND	0.50	ug/L	1.00	02/11/2003 17:20	
Ethylbenzene	ND	0.50	ug/L	1.00	02/11/2003 17:20	
Total xylenes	ND	1.0	ug/L	1.00	02/11/2003 17:20	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/11/2003 17:20	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	103.9	76-114	%	1.00	02/11/2003 17:20	
Toluene-d8	94.8	88-110	%	1.00	02/11/2003 17:20	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80

Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-02-0031 - 4
Sampled:	02/03/2003 12:21	Extracted:	2/11/2003 17:42
Matrix:	Water	QC Batch#:	2003/02/11-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/11/2003 17:42	
Benzene	ND	0.50	ug/L	1.00	02/11/2003 17:42	
Toluene	ND	0.50	ug/L	1.00	02/11/2003 17:42	
Ethylbenzene	ND	0.50	ug/L	1.00	02/11/2003 17:42	
Total xylenes	ND	1.0	ug/L	1.00	02/11/2003 17:42	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/11/2003 17:42	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	101.4	76-114	%	1.00	02/11/2003 17:42	
Toluene-d8	95.5	88-110	%	1.00	02/11/2003 17:42	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80

Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Method Blank	Water		QC Batch # 2003/02/11-01.62
MB: 2003/02/11-01.62-024			Date Extracted: 02/11/2003 11:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/11/2003 11:24	
Benzene	ND	0.5	ug/L	02/11/2003 11:24	
Toluene	ND	0.5	ug/L	02/11/2003 11:24	
Ethylbenzene	ND	0.5	ug/L	02/11/2003 11:24	
Total xylenes	ND	1.0	ug/L	02/11/2003 11:24	
tert-Butyl alcohol (TBA)	ND	100	ug/L	02/11/2003 11:24	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/11/2003 11:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/11/2003 11:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/11/2003 11:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/11/2003 11:24	
1,2-DCA	ND	2.0	ug/L	02/11/2003 11:24	
EDB	ND	2.0	ug/L	02/11/2003 11:24	
Ethanol	ND	500	ug/L	02/11/2003 11:24	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	104.4	76-114	%	02/11/2003 11:24	
Toluene-d8	95.1	88-110	%	02/11/2003 11:24	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80

Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA

Batch QC Report		
Prep(s): 5030B	Water	Test(s): 8260FAB
Method Blank		QC Batch # 2003/02/12-01.27
MB: 2003/02/12-01.27-008		Date Extracted: 02/12/2003 12:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/12/2003 12:18	
Benzene	ND	0.5	ug/L	02/12/2003 12:18	
Toluene	ND	0.5	ug/L	02/12/2003 12:18	
Ethylbenzene	ND	0.5	ug/L	02/12/2003 12:18	
Total xylenes	ND	1.0	ug/L	02/12/2003 12:18	
tert-Butyl alcohol (TBA)	ND	100	ug/L	02/12/2003 12:18	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/12/2003 12:18	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/12/2003 12:18	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/12/2003 12:18	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/12/2003 12:18	
1,2-DCA	ND	2.0	ug/L	02/12/2003 12:18	
EDB	ND	2.0	ug/L	02/12/2003 12:18	
Ethanol	ND	500	ug/L	02/12/2003 12:18	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	105.4	76-114	%	02/12/2003 12:18	
Toluene-d8	96.2	88-110	%	02/12/2003 12:18	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899  
Project: 180264.80  
Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/02/11-01.62			
LCS	2003/02/11-01.62-039		Extracted: 02/11/2003			Analyzed: 02/11/2003 10:39			
LCSD	2003/02/11-01.62-002		Extracted: 02/11/2003			Analyzed: 02/11/2003 11:02			

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	25.6	25.6	25.0	102.4	102.4	0.0	69-129	20		
Toluene	24.9	25.3	25.0	99.6	101.2	1.6	70-130	20		
Methyl tert-butyl ether (MTBE)	25.4	24.5	25.0	101.6	98.0	3.6	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	510	503	500	102.0	100.6		76-114			
Toluene-d8	484	479	500	96.8	95.8		88-110			



**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80  
Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/02/12-01.27**

LCS 2003/02/12-01.27-004

Extracted: 02/12/2003

Analyzed: 02/12/2003 11:29

LCSD 2003/02/12-01.27-005

Extracted: 02/12/2003

Analyzed: 02/12/2003 11:56

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	31.2	30.1	25.0	124.8	120.4	3.6	65-165	20		
Benzene	25.3	25.3	25.0	101.2	101.2	0.0	69-129	20		
Toluene	24.7	24.6	25.0	98.8	98.4	0.4	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	562	527	500	112.4	105.4		76-114			
Toluene-d8	482	490	500	96.4	98.0		88-110			

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180264.80

Tosco #0018

Received: 02/03/2003 16:46

Site: 6201 Claremont Blvd.  
Oakland, CA

**Legend and Notes**

**Result Flag**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.