

# GETTLER-RYAN INC.

1364 North McDowell Blvd. Suite B2  
Petaluma, CA 94954  
Phone (707) 789-3255, Fax (707) 789-3218

## TRANSMITTAL

Alameda County  
JUN 18 2003  
Environmental Health

TO: Mr. David DeWitt  
ConocoPhillips  
76 Broadway  
Sacramento, CA 95818

DATE: June 13, 2003  
PROJECT NO. 140101.3  
SUBJECT: Station No. 6419, Dublin

FROM: Jed Douglas

### WE ARE SENDING YOU:

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1	6/12/03	Remedial Status Report

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### COMMENTS:

Signed: \_\_\_\_\_



COPIES TO: Ms. Eva Chu, Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Alameda, CA 94502



# GETTLER-RYAN INC.

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June 12, 2003

Mr. David B. DeWitt  
ConocoPhillips  
76 Broadway  
Sacramento, CA 95818

Alameda County  
JUN 18 2003  
Environmental Health

**Subject: Remedial Status Report at Tosco (76) Service Station 6419, 6401  
Dublin Boulevard, Dublin California.**

Mr. De Witt:

At the request of ConocoPhillips, Gettler-Ryan Inc. (GR) has prepared this report to document the results of the groundwater purging and disposal conducted at the subject site. This work was performed to reduce methyl tertiary butyl ether (MtBE) concentrations in groundwater in the vicinity of the underground storage tank (UST) pit and groundwater monitoring well MW-1. Groundwater has been purged weekly from a four-inch diameter well in the UST pit backfill, installed to access the groundwater beneath the site. Up to 5,000 gallons of groundwater have been purged from the UST pit during each event and disposed of at the ConocoPhillips Refinery in Rodeo, California.

## **Background**

The site is currently an operating 76 service station. Nine groundwater monitoring wells are present at and in the site vicinity and are monitored and sampled semi-annually. The site location is shown on Figure 1. The monitoring wells and other site features are shown on Figure 2. Groundwater flow direction has been consistently to the southwest with gradients ranging between 0.001 to 0.01 ft./ft. since February 1998. Of the existing monitoring wells, MW-1, located downgradient of the UST pit, has shown elevated concentrations of MtBE. In November 1999, a four-inch diameter, slotted poly-vinyl chloride (PVC) Tank Pit Well (TPW-1) was installed in the gasoline UST pit backfill to allow purging of MtBE-impacted groundwater. Purging of TPW-1 was initiated in December of 1999.

## **Groundwater Removal and Disposal**

Groundwater was removed from the UST pit by Onyx Industrial Services (Onyx) of Benicia, California and transported to the ConocoPhillips Refinery in Rodeo, California for disposal. The groundwater was purged from TPW-1 directly into Onyx vacuum trucks on an approximate weekly basis. From December 23, 1999 through December 24, 2002, approximately 649,600 gallons of groundwater were removed from well TPW-1. Groundwater removal volumes and purging dates are summarized in Table 1.

Approved by  
JUN 18 2003  
Environmental Compliance  
with

## Groundwater Sampling

Groundwater from TPW-1 is periodically sampled and the samples submitted under Chain-of-Custody documentation to Sequoia Analytical in Sacramento, California (EPA No. 1624). Groundwater samples are analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg) by EPA Method 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MtBE) by EPA Method 8021. The results have been used to document hydrocarbon concentration trends and to comply with ConocoPhillips Refinery requirements. Sample dates and analytical results are summarized in Table 1. Laboratory analytical results for the December 12, 2002, sampling of well TW-1 are presented in Appendix A.

## Groundwater Analytical Data and MtBE Mass Removal

Eleven grab groundwater samples were collected from TPW-1 between December 10, 1999 and December 12, 2002. For each weekly purging event, an estimated mass of MtBE removed was calculated. The estimated MtBE concentration for each mass removal calculation was determined by averaging the MtBE concentrations from the most recent grab groundwater samples (before and after the purging events). Based on this series of calculations, an estimated total of 130.21 pounds of MtBE have been removed from the site during the purging of 649,600 gallons of groundwater through December 24, 2002. The estimated cumulative MtBE removed and the calculation method are presented in Table 1. Laboratory analytical results for the grab sampling of well TPW-1 are presented in Appendix A.

## Conclusions and Recommendations

As summarized in Table 1 and illustrated on Figure 3, petroleum hydrocarbon concentrations in groundwater within the former UST pit have been reduced by purging groundwater from the pit on a regular basis. MtBE concentrations have decreased from a high of 150,000 ppb on May 31, 2000 to 130 ppb on December 12, 2002. This represents a concentration decrease of over 99%. TPHg and benzene concentrations have also decreased from 2,100 and 96 ppb on February 3, 2000, to 79 ppb and <0.50 ppb for both analytes on December 12, 2002.

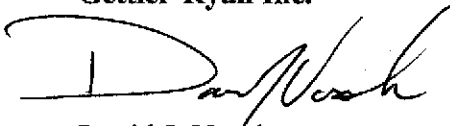
MtBE concentrations in groundwater samples from monitoring well MW-1 have decreased from a high of 140,000 ppb on August 2, 1999 to 2,400 ppb on July 30, 2002. This represents a decrease of over 98%. The most recent and historical groundwater analytical data for MW-1 are presented in GR's *Second Semi-Annual 2002 Groundwater Monitoring and Sampling Report*, dated September 9, 2002.

In conclusion, the most recent groundwater analytical results from TPW-1 document significant decreases in dissolved hydrocarbon concentrations. In addition, the most recent semi-annual groundwater sampling results show over a 98% reduction in MtBE concentrations in monitoring well MW-1. As a result of the purging, ConocoPhillips has succeeded in removing an estimated 130.21 pounds of MtBE from groundwater beneath the site as of December 24, 2002.

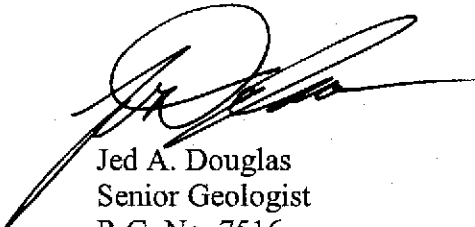
On February 5, 2003, ConocoPhillips concurred with GR's recommendation to stop the groundwater purging, based on asymptotic levels of cumulative pounds of MtBE removed (Figure 3). Onyx was subsequently contacted and requested to cease the groundwater purging program at this site. Groundwater monitoring and sampling will continue at the site on a semi-annual basis. GR will interpret the groundwater analytical results and make future recommendations for additional work, if warranted.

If you have any questions regarding this report, please feel free to call us in our Petaluma office at (707) 789-3255.

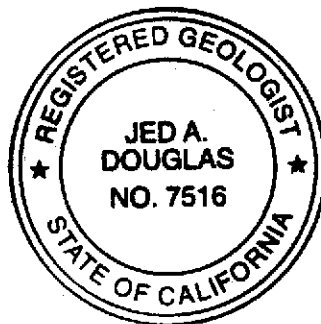
Sincerely,  
**Gettler-Ryan Inc.**



David J. Vossler  
Project Manager

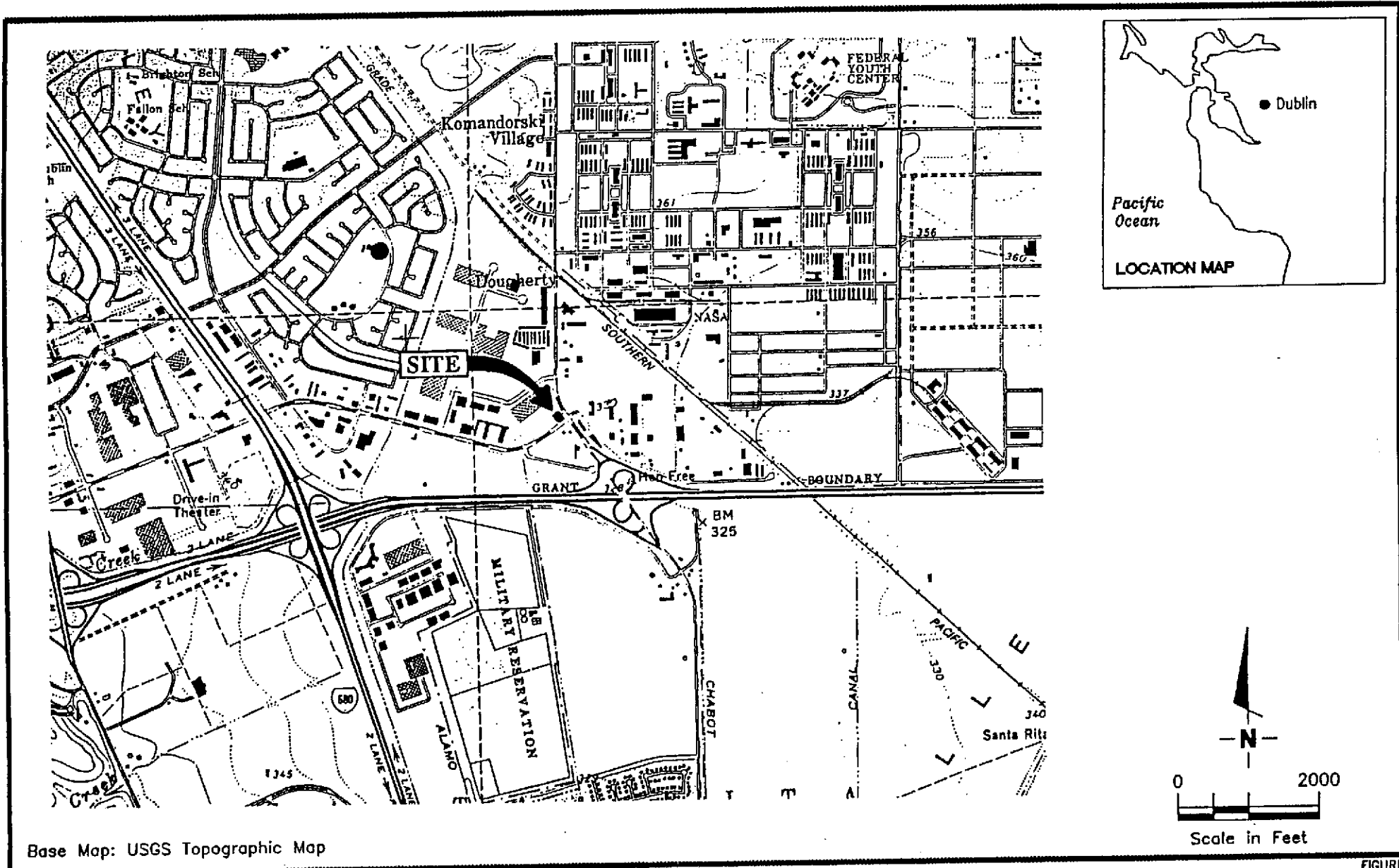


Jed A. Douglas  
Senior Geologist  
R.G. No. 7516



Attachments:	Table 1:	Groundwater Removal and Analytical Data
	Figure 1:	Vicinity Map
	Figure 2:	Site Plan
	Figure 3:	MtBE Concentration and Pounds Removed
	Appendix A:	Laboratory Analytical Results

cc: Ms. Eva Chu, Alameda County Health Care Services Agency



Base Map: USGS Topographic Map



**Gettler - Ryan Inc.**

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

**VICINITY MAP**

Tosco 76 Branded Facility #6419  
6401 Dublin Boulevard  
Dublin, California

FIGURE

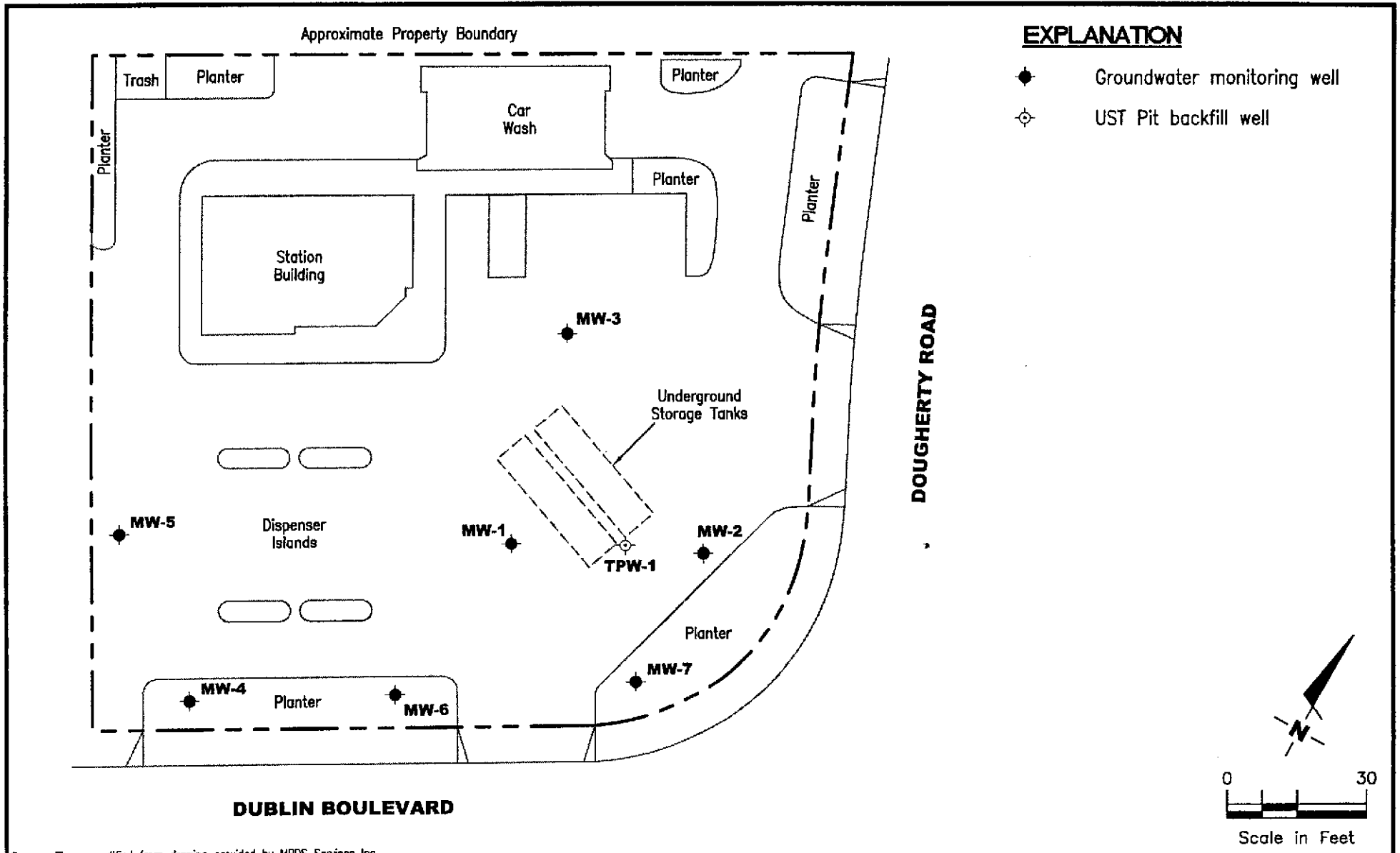
**1**

JOB NUMBER  
140101

REVIEWED BY

DATE  
November, 1998

REVISED DATE



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



**Gettler - Ryan Inc.**

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

**SITE PLAN**

Tosco (76) Service Station No. 6419  
6401 Dublin Boulevard  
Dublin, California

FIGURE

**2**

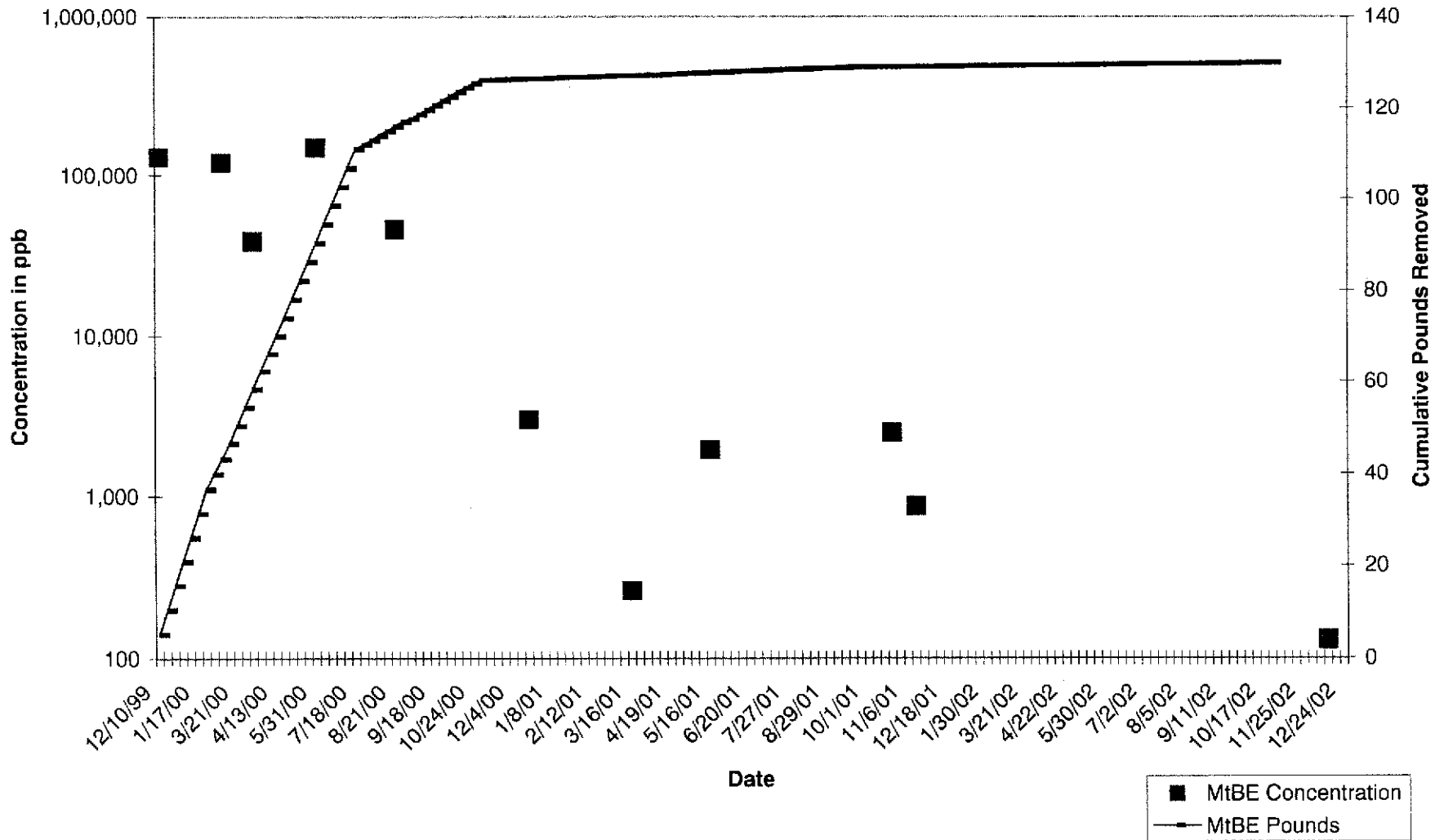
PROJECT NUMBER  
140101

REVIEWED BY

DATE  
10/00

REVISED DATE

**Figure 3**  
**Tosco (76) Service Station No. 6419**  
**MtBE Concentration and Pounds Removed**



**Table 1 - Groundwater Removal and Analytical Data**

Tosco (76) Service Station No. 6419

6401 Dublin Boulevard

Dublin, California

Date Sampled or Purged	Purge Volume in Gallons	Cumulative Purge Volume in Gallons	MtBE Removed in Pounds	Cumulative MtBE Removed in Pounds	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MtBE (ppb)
<b>Purged From Conductor Casing installed in UST Pit</b>										
12/10/99	--	--	--	--	<1,000	32	<10	<10	<10	130,000
12/23/99	5,000	5,000	5.21	5.21	--	--	--	--	--	--
12/31/99	5,000	10,000	5.21	10.42	--	--	--	--	--	--
1/6/00	5,000	15,000	5.21	15.63	--	--	--	--	--	--
1/10/00	5,000	20,000	5.21	20.84	--	--	--	--	--	--
1/17/00	5,000	25,000	5.21	26.05	--	--	--	--	--	--
1/31/00	5,000	30,000	5.21	31.26	--	--	--	--	--	--
2/1/00	5,000	35,000	5.21	36.47	--	--	--	--	--	--
2/3/00	--	--	--	--	2,100 <sup>1</sup>	96	240	<10	210	120,000
3/15/00	5,000	40,000	3.31	39.79	--	--	--	--	--	--
3/21/00	5,000	45,000	3.31	43.10	--	--	--	--	--	--
3/27/00	5,000	50,000	3.31	46.42	--	--	--	--	--	--
3/28/00	--	--	--	46.42	<5,000	<50	<50	<50	<50	39,000
4/4/00	5,000	55,000	3.94	50.36	--	--	--	--	--	--
4/7/00	5,000	60,000	3.94	54.29	--	--	--	--	--	--
4/13/00	5,000	65,000	3.94	58.23	--	--	--	--	--	--
4/17/00	5,000	70,000	3.94	62.17	--	--	--	--	--	--
4/24/00	5,000	75,000	3.94	66.11	--	--	--	--	--	--
5/1/00	4,800	79,800	3.78	69.89	--	--	--	--	--	--
5/8/00	5,000	84,800	3.94	73.83	--	--	--	--	--	--
5/31/00	--	--	--	--	<50	1.7	<0.50	<0.50	<0.50	150,000
6/8/00	5,000	89,800	4.09	77.92	--	--	--	--	--	--
6/27/00	5,000	94,800	4.09	82.00	--	--	--	--	--	--
7/3/00	5,000	99,800	4.09	86.09	--	--	--	--	--	--
7/12/00	5,000	104,800	4.09	90.17	--	--	--	--	--	--
7/18/00	5,000	109,800	4.09	94.26	--	--	--	--	--	--
7/24/00	5,000	114,800	4.09	98.34	--	--	--	--	--	--
8/2/00	5,000	119,800	4.09	102.43	--	--	--	--	--	--
8/8/00	5,000	124,800	4.09	106.51	--	--	--	--	--	--
8/18/00	5,000	129,800	4.09	110.60	--	--	--	--	--	--
8/21/00	--	--	--	--	<130	4.8	<1.3	<1.3	<1.3	46,000
8/25/00	5,000	134,800	1.02	111.62	--	--	--	--	--	--
8/31/00	5,000	139,800	1.02	112.64	--	--	--	--	--	--
9/6/00	5,000	144,800	1.02	113.66	--	--	--	--	--	--
9/11/00	5,000	149,800	1.02	114.68	--	--	--	--	--	--
9/18/00	5,000	154,800	1.02	115.71	--	--	--	--	--	--
9/29/00	5,000	159,800	1.02	116.73	--	--	--	--	--	--
10/3/00	3,000	162,800	0.61	117.34	--	--	--	--	--	--
10/10/00	5,000	167,800	1.02	118.36	--	--	--	--	--	--
10/17/00	5,000	172,800	1.02	119.38	--	--	--	--	--	--



**Table 1 - Groundwater Removal and Analytical Data**

Tosco (76) Service Station No. 6419

6401 Dublin Boulevard

Dublin, California

Date Sampled or Purged	Purge Volume in Gallons	Cumulative Purge Volume in Gallons	MtBE Removed in Pounds	Cumulative MtBE Removed in Pounds	TPH <sub>g</sub> (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MtBE (ppb)
10/24/00	5,000	177,800	1.02	120.40	--	--	--	--	--	--
10/30/00	5,000	182,800	1.02	121.43	--	--	--	--	--	--
11/6/00	5,000	187,800	1.02	122.45	--	--	--	--	--	--
11/13/00	5,000	192,800	1.02	123.47	--	--	--	--	--	--
11/24/00	5,000	197,800	1.02	124.49	--	--	--	--	--	--
12/4/00	4,000	201,800	0.82	125.31	--	--	--	--	--	--
12/11/00	4,000	205,800	0.82	126.12	--	--	--	--	--	--
12/12/00	--	--	--	--	<50	<20	<20	<20	<20	3,000
12/18/00	3,500	209,300	0.05	126.17	--	--	--	--	--	--
1/3/01	4,000	213,300	0.05	126.22	--	--	--	--	--	--
1/8/01	3,000	216,300	0.04	126.27	--	--	--	--	--	--
1/17/01	4,000	220,300	0.05	126.32	--	--	--	--	--	--
1/22/01	3,500	223,800	0.05	126.37	--	--	--	--	--	--
1/31/01	5,000	228,800	0.07	126.44	--	--	--	--	--	--
2/5/01	3,000	231,800	0.04	126.48	--	--	--	--	--	--
2/12/01	5,000	236,800	0.07	126.54	--	--	--	--	--	--
2/24/01	5,000	241,800	0.07	126.61	--	--	--	--	--	--
3/2/01	5,000	246,800	0.07	126.68	--	--	--	--	--	--
3/6/01	5,000	251,800	0.07	126.75	--	--	--	--	--	--
3/14/01	5,000	256,800	0.07	126.82	--	--	--	--	--	--
3/16/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	260
3/21/01	5,000	261,800	0.05	126.86	--	--	--	--	--	--
3/28/01	5,000	266,800	0.05	126.91	--	--	--	--	--	--
4/3/01	5,000	271,800	0.05	126.95	--	--	--	--	--	--
4/12/01	5,000	276,800	0.05	127.00	--	--	--	--	--	--
4/19/01	5,000	281,800	0.05	127.05	--	--	--	--	--	--
4/23/01	4,000	285,800	0.04	127.08	--	--	--	--	--	--
5/5/01	5,000	290,800	0.05	127.13	--	--	--	--	--	--
5/8/01	5,000	295,800	0.05	127.18	--	--	--	--	--	--
5/13/01	5,000	300,800	0.05	127.22	--	--	--	--	--	--
5/16/01	3,000	303,800	0.03	127.25	<50	<0.50	2.27	2.03	0.665	1,950
5/23/01	4,000	307,800	0.07	127.32	--	--	--	--	--	--
6/1/01	5,000	312,800	0.09	127.42	--	--	--	--	--	--
6/6/01	5,000	317,800	0.09	127.51	--	--	--	--	--	--
6/12/01	3,000	320,800	0.06	127.56	--	--	--	--	--	--
6/20/01	5,000	325,800	0.09	127.66	--	--	--	--	--	--
6/25/01	3,000	328,800	0.06	127.71	--	--	--	--	--	--
7/7/01	5,000	333,800	0.09	127.81	--	--	--	--	--	--
7/13/01	3,000	336,800	0.06	127.86	--	--	--	--	--	--
7/21/01	3,000	339,800	0.06	127.92	--	--	--	--	--	--
7/27/01	5,000	344,800	0.09	128.01	--	--	--	--	--	--
8/2/01	3,000	347,800	0.06	128.07	--	--	--	--	--	--
8/8/01	3,000	350,800	0.06	128.12	--	--	--	--	--	--

**Table 1 - Groundwater Removal and Analytical Data**

Tosco (76) Service Station No. 6419

6401 Dublin Boulevard

Dublin, California

Date Sampled or Purged	Purge Volume in Gallons	Cumulative Purge Volume in Gallons	MtBE Removed in Pounds	Cumulative MtBE Removed in Pounds	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MtBE (ppb)
8/16/01	3,500	354,300	0.06	128.19	--	--	--	--	--	--
8/20/01	5,000	359,300	0.09	128.28	--	--	--	--	--	--
8/29/01	4,500	363,800	0.08	128.36	--	--	--	--	--	--
9/4/01	3,000	366,800	0.06	128.42	--	--	--	--	--	--
9/10/01	3,000	369,800	0.06	128.47	--	--	--	--	--	--
9/17/01	3,000	372,800	0.06	128.53	--	--	--	--	--	--
9/24/01	3,000	375,800	0.06	128.58	--	--	--	--	--	--
10/1/01	3,000	378,800	0.06	128.64	--	--	--	--	--	--
10/17/01	3,500	382,300	0.06	128.71	--	--	--	--	--	--
10/23/01	3,000	385,300	0.06	128.76	--	--	--	--	--	--
10/26/01	--	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	2,500
10/29/01	5,000	390,300	0.07	128.83	--	--	--	--	--	--
11/6/01	3,500	393,800	0.05	128.88	--	--	--	--	--	--
11/12/01	3,500	397,300	0.05	128.93	<50	<0.50	<0.50	<0.50	<0.50	870
11/20/01	3,500	400,800	0.05	128.98	--	--	--	--	--	--
11/26/01	5,000	405,800	0.07	129.05	--	--	--	--	--	--
12/4/01	5,000	410,800	0.07	129.12	--	--	--	--	--	--
12/18/01	5,000	415,800	0.07	129.19	--	--	--	--	--	--
12/27/01	5,000	420,800	0.07	129.26	--	--	--	--	--	--
1/7/02	5000	425,800	0.02	129.28	--	--	--	--	--	--
1/17/02	5000	430,800	0.02	129.30	--	--	--	--	--	--
1/22/02	5000	435,800	0.02	129.32	--	--	--	--	--	--
1/30/02	5000	440,800	0.02	129.34	--	--	--	--	--	--
2/6/02	5000	445,800	0.02	129.36	--	--	--	--	--	--
2/27/02	5000	450,800	0.02	129.38	--	--	--	--	--	--
3/8/02	5000	455,800	0.02	129.41	--	--	--	--	--	--
3/15/02	5000	460,800	0.02	129.43	--	--	--	--	--	--
3/21/02	5000	465,800	0.02	129.45	--	--	--	--	--	--
3/25/02	5000	470,800	0.02	129.47	--	--	--	--	--	--
4/2/02	5000	475,800	0.02	129.49	--	--	--	--	--	--
4/8/02	5000	480,800	0.02	129.51	--	--	--	--	--	--
4/16/02	4000	484,800	0.02	129.53	--	--	--	--	--	--
4/22/02	4500	489,300	0.02	129.55	--	--	--	--	--	--
4/30/02	4000	493,300	0.02	129.56	--	--	--	--	--	--
5/8/02	5000	498,300	0.02	129.58	--	--	--	--	--	--
5/16/02	5000	503,300	0.02	129.60	--	--	--	--	--	--
5/21/02	5000	508,300	0.02	129.62	--	--	--	--	--	--
5/30/02	4500	512,800	0.02	129.64	--	--	--	--	--	--
6/6/02	5000	517,800	0.02	129.66	--	--	--	--	--	--
6/11/02	5000	522,800	0.02	129.68	--	--	--	--	--	--
6/18/02	5000	527,800	0.02	129.71	--	--	--	--	--	--
6/26/02	5000	532,800	0.02	129.73	--	--	--	--	--	--
7/2/02	5000	537,800	0.02	129.75	--	--	--	--	--	--

**Table 1 - Groundwater Removal and Analytical Data**

Tosco (76) Service Station No. 6419

6401 Dublin Boulevard

Dublin, California

Date Sampled or Purged	Purge Volume in Gallons	Cumulative Purge Volume in Gallons	MtBE Removed in Pounds	Cumulative MtBE Removed in Pounds	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MtBE (ppb)
7/8/02	5000	542,800	0.02	129.77	--	--	--	--	--	--
7/19/02	3500	546,300	0.01	129.78	--	--	--	--	--	--
7/23/02	5000	551,300	0.02	129.80	--	--	--	--	--	--
7/29/02	5000	556,300	0.02	129.82	--	--	--	--	--	--
8/5/02	5000	561,300	0.02	129.85	--	--	--	--	--	--
8/12/02	5000	566,300	0.02	129.87	--	--	--	--	--	--
8/22/02	3500	569,800	0.01	129.88	--	--	--	--	--	--
8/27/02	4000	573,800	0.02	129.90	--	--	--	--	--	--
9/5/02	5000	578,800	0.02	129.92	--	--	--	--	--	--
9/11/02	5000	583,800	0.02	129.94	--	--	--	--	--	--
9/18/02	5000	588,800	0.02	129.96	--	--	--	--	--	--
9/26/02	5000	593,800	0.02	129.98	--	--	--	--	--	--
10/3/02	5000	598,800	0.02	130.00	--	--	--	--	--	--
10/9/02	5000	603,800	0.02	130.02	--	--	--	--	--	--
10/17/02	2800	606,600	0.01	130.03	--	--	--	--	--	--
10/29/02	5000	611,600	0.02	130.05	--	--	--	--	--	--
11/5/02	3000	614,600	0.01	130.07	--	--	--	--	--	--
11/13/02	5000	619,600	0.02	130.09	--	--	--	--	--	--
11/22/02	5000	624,600	0.02	130.11	--	--	--	--	--	--
11/25/02	5000	629,600	0.02	130.13	--	--	--	--	--	--
12/3/02	5000	634,600	0.02	130.15	--	--	--	--	--	--
12/10/02	5000	639,600	0.02	130.17	--	--	--	--	--	--
12/12/02	--	--	--	--	79	<0.50	<0.50	<0.50	<0.50	130
12/20/02	5000	644,600	0.02	130.19	--	--	--	--	--	--
12/24/02	5000	649,600	0.02	130.21	--	--	--	--	--	--

**EXPLANATION:**

ppb = parts per billion

<50 = analyte not detected at or above laboratories reporting limit

-- = Not Applicable

<sup>1</sup> = Chromatogram pattern: Gasoline C6-C12

MtBE Removed (lbs) = Average MtBE concentration (ppb) \* gallons removed \* 8.337lbs/gal H<sub>2</sub>O / 1 x 10<sup>9</sup> ppb

Average MtBE Concentration (ppb) = (MtBE concentration from water sample prior to purging event + MtBE concentration from water sample following purging event)/2

**ANALYTICAL METHODS:**

TPHg = Total Petroleum Hydrocarbons as gasoline according to EPA Method 8015 Modified

Benzene, Toluene, Ethylbenzene, and Total Xylenes according to EPA Method 8020

MtBE = Methyl tertiary butyl ether according to EPA Methods 8020 or 8260

**ANALYTICAL LABORATORY:**

Sequoia Analytical Walnut Creek, CA (ELAP #1271)

Sequoia Analytical Morgan Hill, CA (ELAP #1210)

Sequoia Analytical Scaramento, CA (ELAP #1624)

APPENDIX A

LABORATORY ANALYTICAL RESULTS



30 December, 1999

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

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 13-Dec-99 17:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alan B. Kemp  
Laboratory Director





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
30-Dec-99 14:36

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled
W-1	W912275-01	Water	10-Dec-99 00:00
W-1	W912275-01	Water	10-Dec-99 14:00





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
30-Dec-99 14:36

**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
<b>W-1 (W912275-01) Water</b> Sampled: 10-Dec-99 14:00 Received: 13-Dec-99 17:14									
Purgeable Hydrocarbons	ND	1000	ug/l	20	9L17001	17-Dec-99	17-Dec-99	EPA	
Benzene	32	10	"	"	"	"	"	8015M/8020	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		110 %	70-130		"	"	"	"	
<b>W-1 (W912275-01RE1) Water</b> Sampled: 10-Dec-99 14:00 Received: 13-Dec-99 17:14									
Methyl tert-butyl ether	130000	2500	ug/l	1000	9L17001	17-Dec-99	17-Dec-99	EPA	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		110 %	70-130		"	"	"	8015M/8020	






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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
30-Dec-99 14:36

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-1 (W912275-01) Water Sampled: 10-Dec-99 14:00 Received: 13-Dec-99 17:14									
Mercury	ND	0.00020	mg/l	1	9L20017	20-Dec-99	21-Dec-99	EPA 7470A	
Antimony	ND	0.10	"	"	9L21020	21-Dec-99	30-Dec-99	EPA 6010	
Arsenic	ND	0.10	"	"	"	"	"	"	A-01
Barium	0.12	0.010	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Cadmium	ND	0.010	"	"	"	"	"	"	
Chromium	0.020	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.010	"	"	"	"	"	"	
Lead	0.040	0.020	"	"	"	"	"	"	
Molybdenum	0.014	0.010	"	"	"	"	"	"	
Nickel	0.048	0.010	"	"	"	"	"	"	
Selenium	ND	0.10	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Thallium	ND	0.50	"	"	"	"	"	"	
Vanadium	ND	0.010	"	"	"	"	"	"	
Zinc	0.046	0.020	"	"	"	"	"	"	

  
Alan B. Kemp, Laboratory Director







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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
30-Dec-99 14:36

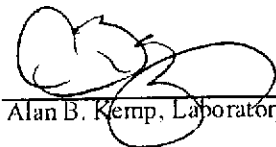
**Physical Parameters by APHA/ASTM/EPA Methods**

**Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-1 (W912275-01) Water Sampled: 10-Dec-99 14:00 Received: 13-Dec-99 17:14									
Corrosivity	7.3	0.10	pH units	1	9L16011	13-Dec-99	13-Dec-99	EPA 9045B	I-02
Ignitability by Flashpoint	ND	10	°C	"	9L14008	14-Dec-99	14-Dec-99	EPA 1010	F-01

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.*



Alan B. Kemp, Laboratory Director






Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 6419 Project Manager: Doug Lee	Reported: 30-Dec-99 14:36
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**Physical Parameters by APHA/ASTM/EPA Methods  
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-1 (W912275-01) Water    Sampled: 10-Dec-99 00:00    Received: 13-Dec-99 17:14									
Reactive Cyanide	ND	10.0	mg/l	1	9120367	15-Dec-99	15-Dec-99	SW846 Ch.	
Reactive Sulfide	ND	50.0	"	"	"	"	"	SW846 Ch. 7.3	

  
Alan B. Kemp, Laboratory Director





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
30-Dec-99 14:36

## 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
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Batch 9L17001: Prepared 17-Dec-99 Using EPA 5030B [P/T]

### Blank (9L17001-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	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	33.1		"	30.0		110	70-130			

### LCS (9L17001-BS1)

Benzene	19.2	0.50	ug/l	20.0		96.0	70-130			
Toluene	19.8	0.50	"	20.0		99.0	70-130			
Ethylbenzene	20.4	0.50	"	20.0		102	70-130			
Xylenes (total)	62.2	0.50	"	60.0		104	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.7		"	30.0		99.0	70-130			

### Matrix Spike (9L17001-MS1)

Source: W912331-03RE1

Benzene	19.9	0.50	ug/l	20.0	ND	99.5	70-130			
Toluene	20.1	0.50	"	20.0	ND	101	70-130			
Ethylbenzene	21.2	0.50	"	20.0	ND	106	70-130			
Xylenes (total)	63.6	0.50	"	60.0	ND	106	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	30.7		"	30.0		102	70-130			

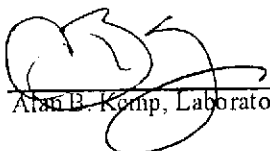
### Matrix Spike Dup (9L17001-MSD1)

Source: W912331-03RE1

Benzene	18.7	0.50	ug/l	20.0	ND	93.5	70-130	6.22	20	
Toluene	18.9	0.50	"	20.0	ND	94.5	70-130	6.15	20	
Ethylbenzene	19.6	0.50	"	20.0	ND	98.0	70-130	7.84	20	
Xylenes (total)	59.6	0.50	"	60.0	ND	99.3	70-130	6.49	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.2		"	30.0		97.3	70-130			

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.

  
Alan B. Kemp, Laboratory Director





Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 6419 Project Manager: Doug Lee	Reported: 30-Dec-99 14:36
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9L20017: Prepared 20-Dec-99 Using EPA 200 Series**

**Blank (9L20017-BLK1)**

Mercury	ND	0.00020	mg/l							
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**LCS (9L20017-BS1)**

Mercury	0.00218	0.00020	mg/l	0.00200		109	80-120			
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**Matrix Spike (9L20017-MS1)**

Source: W912297-01

Mercury	0.00152	0.00020	mg/l	0.00200	ND	76.0	75-125			
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**Matrix Spike Dup (9L20017-MSD1)**

Source: W912297-01

Mercury	0.00155	0.00020	mg/l	0.00200	ND	77.5	75-125	1.95	20	
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**Batch 9L21020: Prepared 21-Dec-99 Using 200.7**

**Blank (9L21020-BLK1)**

Cadmium	ND	0.010	mg/l							
Chromium	ND	0.010	"							
Copper	ND	0.010	"							
Lead	ND	0.020	"							
Nickel	ND	0.010	"							
Zinc	ND	0.020	"							

**LCS (9L21020-BS1)**

Beryllium	1.00	0.010	mg/l	1.00		100	80-120			
Cadmium	1.09	0.010	"	1.00		109	80-120			
Chromium	1.07	0.010	"	1.00		107	80-120			
Copper	0.998	0.010	"	1.00		99.8	80-120			
Lead	1.13	0.020	"	1.00		113	80-120			
Nickel	1.08	0.010	"	1.00		108	80-120			
Zinc	1.19	0.020	"	1.00		119	80-120			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
30-Dec-99 14:36

**Total Metals by EPA 6000/7000 Series Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9L21020: Prepared 21-Dec-99 Using 200.7**

**Matrix Spike (9L21020-MS1)**

**Source: W912275-01**

Cadmium	1.09	0.010	mg/l	1.00	ND	109	80-120			
Chromium	1.06	0.010	"	1.00	0.020	104	80-120			
Copper	0.986	0.010	"	1.00	0.0058	98.0	80-120			
Lead	1.11	0.020	"	1.00	0.040	107	80-120			
Nickel	1.09	0.010	"	1.00	0.048	104	80-120			
Zinc	1.08	0.020	"	1.00	0.046	103	80-120			


**Matrix Spike Dup (9L21020-MSD1)**

**Source: W912275-01**

Cadmium	1.08	0.010	mg/l	1.00	ND	108	80-120	0.922	20	
Chromium	1.05	0.010	"	1.00	0.020	103	80-120	0.948	20	
Copper	0.983	0.010	"	1.00	0.0058	97.7	80-120	0.305	20	
Lead	1.10	0.020	"	1.00	0.040	106	80-120	0.905	20	
Nickel	1.09	0.010	"	1.00	0.048	104	80-120	0	20	
Zinc	1.08	0.020	"	1.00	0.046	103	80-120	0	20	

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.*

  
Alan B. Kemp, Laboratory Director





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
30-Dec-99 14:36

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9L14008: Prepared 14-Dec-99 Using General Preparation</b>										
<b>Duplicate (9L14008-DUP1)</b>					<b>Source: W912276-01</b>					
Ignitability by Flashpoint	ND	10	°C		ND				30	F-01
<b>Batch 9L16011: Prepared 13-Dec-99 Using General Preparation</b>										
<b>Duplicate (9L16011-DUP1)</b>					<b>Source: W912276-01</b>					
Corrosivity	7.12	0.10	pH units		7.1			0.281	30	

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.*

Alan B. Kemp, Laboratory Director





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
30-Dec-99 14:36

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9120367: Prepared 15-Dec-99 Using General Preparation**

**Blank (9120367-BLK1)**

Reactive Cyanide	ND	10.0	mg/l							
Reactive Sulfide	ND	50.0	"							

**LCS (9120367-BS1)**

Reactive Sulfide	606	50.0	mg/l	1700		35.6	10.0-120			
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**LCS (9120367-BS2)**

Reactive Cyanide	398	10.0	mg/l	1000		39.8	5.00-120			
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Gettler Ryan, Inc. - Dublin  
6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
30-Dec-99 14:36

### Notes and Definitions

- A-01 Continuing calibration identified a potential high bias for this analyte. Non-detect samples are not included in this bias.
- F-01 No flash detected up to 95 °C
- I-02 This sample was analyzed outside of the EPA recommended holding time.
- 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





NO 000539

# TOSCO

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: <u>Gettler-Ryan</u> <u>140101.03</u>		Project Name: <u>#6419 Tosco</u>	
Address: <u>6747 Scerra Ct Suite J</u>		TOSCO Engineer (required) <u>Dave DeWitt</u>	
City: <u>Dublin</u> State: <u>CA</u> Zip Code: <u>94568</u>	Site #, City, State: <u>#6419 6401 Dublin Blvd Dublin</u>		
Telephone: <u>(925) 551-7555</u> FAX # <u>(925) 551-7888</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		
Report To: <u>Doug Lee</u> Sampler: <u>Clyde Galantine</u>			

Turnaround Time:  10 Work Days  5 Work Days  3 Work Days  2 Work Days  1 Work Day

Analyses Requested

Drinking Water  Waste Water  Other

CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested							Comments
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	RFI (EPA 8260)	
1. <u>W-1</u>	<u>12/10/99 14:00</u>	<u>LEZO</u>	<u>4</u>	<u>2 bags of plastic</u>	<u>OIA-D</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>10 Day TAT</u>
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: <u>Clyde Galantine</u>	Date: <u>12/10/99</u> Time: <u>15:30</u>	Received By: <u>John Weier</u>	Date: <u>12/10/99</u> Time: <u>15:30</u>
Relinquished By: <u>John Weier</u>	Date: <u>12/13/99</u> Time: <u>17:14</u>	Received By:	Date: Time:
Relinquished By:	Date: Time:	Received By: <u>[Signature]</u>	Date: <u>12/13</u> Time: <u>17:14</u>

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_ Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client  
Yellow - Sequoia  
White - Sequoia



14 February, 2000

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

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 03-Feb-00 15:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Alan B. Kemp  
Laboratory Director





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Clyde Galantine

**Reported:**  
14-Feb-00 08:01

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CC-1	W002083-01	Water	03-Feb-00 08:15	03-Feb-00 15:55





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Clyde Galantine

Reported:  
14-Feb-00 08:01

**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
CC-1 (W002083-01) Water Sampled: 03-Feb-00 08:15 Received: 03-Feb-00 15:55									P-01
Purgeable Hydrocarbons	2100	1000	ug/l	20	0B04003	04-Feb-00	04-Feb-00	EPA	
Benzene	96	10	"	"	"	"	"	8015M/8020	
Toluene	240	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	210	10	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		85.3 %	70-130		"	"	"	"	
CC-1 (W002083-01RE1) Water Sampled: 03-Feb-00 08:15 Received: 03-Feb-00 15:55									P-01
Methyl tert-butyl ether	120000	1300	ug/l	500	0B04003	04-Feb-00	08-Feb-00	EPA	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		99.3 %	70-130		"	"	"	8015M/8020	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Clyde Galantine

Reported:  
14-Feb-00 08:01

## 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 0B04003: Prepared 04-Feb-00 Using EPA 5030B [MeOH]

### Blank (0B04003-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: <i>a,a,a</i> -Trifluorotoluene	29.6		"	30.0		98.7	70-130			

### LCS (0B04003-BS1)

Benzene	23.2	0.50	ug/l	20.0		116	70-130			
Toluene	23.6	0.50	"	20.0		118	70-130			
Ethylbenzene	23.8	0.50	"	20.0		119	70-130			
Xylenes (total)	68.9	0.50	"	60.0		115	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	29.3		"	30.0		97.7	70-130			

### Matrix Spike (0B04003-MS1)

Source: W002098-09

Benzene	20.5	0.50	ug/l	20.0	ND	103	70-130			
Toluene	21.1	0.50	"	20.0	ND	106	70-130			
Ethylbenzene	21.4	0.50	"	20.0	ND	107	70-130			
Xylenes (total)	62.3	0.50	"	60.0	ND	104	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	28.1		"	30.0		93.7	70-130			

### Matrix Spike Dup (0B04003-MSD1)

Source: W002098-09

Benzene	21.2	0.50	ug/l	20.0	ND	106	70-130	3.36	20	
Toluene	21.4	0.50	"	20.0	ND	107	70-130	1.41	20	
Ethylbenzene	21.4	0.50	"	20.0	ND	107	70-130	0	20	
Xylenes (total)	61.5	0.50	"	60.0	ND	103	70-130	1.29	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	29.1		"	30.0		97.0	70-130			

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.

Alan B. Kemp, Laboratory Director





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Clyde Galantine

**Reported:**  
14-Feb-00 08:01

### Notes and Definitions

P-01 Chromatogram Pattern: Gasoline C6-C12  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

Alan B. Kemp, Laboratory Director



# TOSCO

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100  
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673  
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342  
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gatler-Ryan Inc 140101.03 Project Name: Tosco #6419  
 Address: 6747 Sierra Ct Suite J TOSCO Engineer (required) Dave DeWitt  
 City: Dublin State: CA Zip Code: 94546 W002083  
 Telephone: (925) 551-7555 FAX #: (925) 551-7888 Site #, City, State: #6419 Dublin, CA  
 Report To: Clyde Galantine Sampler: Clyde Galantine QC Data:  Level D (Standard)  Level C  Level B  Level A

Turnaround Time:  10 Work Days  5 Work Days  3 Work Days  2 Work Days  1 Work Day  2-8 Hours  
 Drinking Water  Waste Water  Other  
 CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested								Comments	
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)				
1. CC-1	2/3/00 8:15	H <sub>2</sub> O	4	VOCS	OIA-D	X	X	X							
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: <u>Clyde Galantine</u>	Date: <u>2/3/00</u>	Time: <u>8:30</u>	Received By: <u>WJH</u>	Date: <u>2-3-00</u>	Time: <u>13:15</u>
Relinquished By: <u>WJH</u>	Date: <u>2/3/00</u>	Time: <u>16:55</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>Ronald C. Jensen</u>	Date: <u>2/3/00</u>	Time: <u>15:55</u>

Were Samples Received in Good Condition?  Yes  No Samples on Ice?  Yes  No Method of Shipment \_\_\_\_\_ Page \_\_\_ of \_\_\_

To be completed upon receipt of report:  
 1) Were the analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed? \_\_\_\_\_  
 2) Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time? \_\_\_\_\_  
 Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_



12 June, 2000

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

RE: Tosco  
Sequoia Report: W005773

Enclosed are the results of analyses for samples received by the laboratory on 31-May-00 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater  
Project Manager

CA ELAP Certificate #1271







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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Jun-00 08:59

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W005773-01	Water	31-May-00 00:00	31-May-00 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.*

Charlie Westwater, Project Manager





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Jun-00 08:59

**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
TPW-1 (W005773-01) Water Sampled: 31-May-00 12:30 Received: 31-May-00 17:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	0F01002	01-Jun-00	01-Jun-00	EPA 8015M/8020	
Benzene	1.7	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	150000	2500	"	1000	"	"	05-Jun-00	"	
Surrogate: a,a,a-Trifluorotoluene		97.0 %		70-130	"	"	01-Jun-00	"	



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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Jun-00 08:59

**Physical Parameters by APHA/ASTM/EPA Methods  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TPW-1 (W005773-01) Water</b> <b>Sampled: 31-May-00 12:30</b> <b>Received: 31-May-00 17:00</b>									
Corrosivity	6.90	0.100	pH units	1	0F05006	31-May-00	31-May-00	EPA 9045B	
Ignitability by Flashpoint	ND	10	°C	"	0F01007	01-Jun-00	01-Jun-00	EPA 1010	F-01





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Jun-00 08:59

**Physical Parameters by APHA/ASTM/EPA Methods**

**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TPW-1 (W005773-01) Water    Sampled: 31-May-00 00:00    Received: 31-May-00 17:00</b>									
Reactivity in Water	ND		N/A	1	0060244	09-Jun-00	10-Jun-00	EPA Chapter 7	
Reactive Cyanide	ND	10.0	mg/l	"	"	"	"	SW846 Ch. 7.3	
Reactive Sulfide	ND	50.0	"	"	"	"	"	SW846 Ch 7.3	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
12-Jun-00 08:59

## 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
<b>Batch 0F01002 - EPA 5030B [P/T]</b>										
<b>Blank (0F01002-BLK1)</b> Prepared & Analyzed: 01-Jun-00										
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	"							
<i>Surrogate: a, a, a-Trifluorotoluene</i>	30.9		"	30.0		103	70-130			
<b>LCS (0F01002-BS1)</b> Prepared & Analyzed: 01-Jun-00										
Benzene	16.2	0.50	ug/l	20.0		81.0	70-130			
Toluene	18.1	0.50	"	20.0		90.5	70-130			
Ethylbenzene	20.7	0.50	"	20.0		104	70-130			
Xylenes (total)	59.6	0.50	"	60.0		99.3	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	27.3		"	30.0		91.0	70-130			
<b>Matrix Spike (0F01002-MS1)</b> Source: W005593-04 Prepared & Analyzed: 01-Jun-00										
Benzene	17.6	0.50	ug/l	20.0	ND	88.0	70-130			
Toluene	19.3	0.50	"	20.0	ND	96.5	70-130			
Ethylbenzene	23.0	0.50	"	20.0	ND	115	70-130			
Xylenes (total)	64.5	0.50	"	60.0	ND	108	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	26.0		"	30.0		86.7	70-130			
<b>Matrix Spike Dup (0F01002-MSD1)</b> Source: W005593-04 Prepared & Analyzed: 01-Jun-00										
Benzene	17.5	0.50	ug/l	20.0	ND	87.5	70-130	0.570	20	
Toluene	19.6	0.50	"	20.0	ND	98.0	70-130	1.54	20	
Ethylbenzene	20.9	0.50	"	20.0	ND	104	70-130	9.57	20	
Xylenes (total)	63.1	0.50	"	60.0	ND	105	70-130	2.19	20	
<i>Surrogate: a, a, a-Trifluorotoluene</i>	26.3		"	30.0		87.7	70-130			





Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 6419 Project Manager: Doug Lee	Reported: 12-Jun-00 08:59
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**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0F01007 - General Preparation</b>										
Duplicate (0F01007-DUP1)		Source: W005773-01			Prepared & Analyzed: 01-Jun-00					
Ignitability by Flashpoint	ND	10	°C		ND				30	F-01
<b>Batch 0F05006 - General Preparation</b>										
Duplicate (0F05006-DUP1)		Source: W005750-01			Prepared & Analyzed: 31-May-00					
Corrosivity	7.57	0.100	pH units		7.57			0	30	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Jun-00 08:59

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0060244 - General Preparation</b>										
<b>Blank (0060244-BLK1)</b>				Prepared: 09-Jun-00 Analyzed: 10-Jun-00						
Reactive Cyanide	ND	10.0	mg/l							
Reactive Sulfide	ND	50.0	"							
Reactivity in Water	ND		N/A							
<b>LCS (0060244-BS1)</b>				Prepared: 09-Jun-00 Analyzed: 10-Jun-00						
Reactive Sulfide	662	50.0	mg/l	1230		53.8	5.00-120			
<b>LCS (0060244-BS2)</b>				Prepared: 09-Jun-00 Analyzed: 10-Jun-00						
Reactive Cyanide	214	10.0	mg/l	500		42.8	5.00-120			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Jun-00 08:59

### Notes and Definitions

F-01 No flash detected up to 95 °C  
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





Nº 000899

**TOSCO**

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-0000
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: <u>Gettler-Ryan</u> <u>140101.03</u>		Project Name: <u>Tosco #6419</u>	
Address: <u>6747 Sierra Ct Suite J</u>		TOSCO Engineer (required) <u>Dave DeWitt</u>	
City: <u>Dublin</u> State: <u>CA</u> Zip Code: <u>94568</u>	Telephone: <u>(925) 551-7555</u> FAX #: <u>(925) 551-7888</u>		
Report To: <u>Doug Lee</u>	Sampler: <u>Clyde Galantine</u>	Site #, City, State: <u>#6419 Dublin, CA</u>	
Turnaround Time: <input type="checkbox"/> 10 Work Days <input checked="" type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days <input type="checkbox"/> 2-8 Hours		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Drinking Water  
 Waste Water  
 Other

**CODE:**  Misc.  Detect.  Eval.  Remed.  Demol.  Closure

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested							Comments
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	RCI	
1. TPW-1	5/31/00 12:30	H <sub>2</sub> O	5	400ccs amber	01A-1	X	X	X				X	
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: <u>Clyde Galantine</u>	Date: <u>5/31/00</u> Time: <u>12:45</u>	Received By: <u>Mark Cole</u>	Date: <u>5-31</u> Time: <u>15:21</u>
Relinquished By: <u>Mark Cole</u>	Date: <u>5-31</u> Time: <u>17:00</u>	Received By:	Date: Time:
Relinquished By:	Date: Time:	Received By: <u>Mark Cole</u>	Date: <u>5/31/00</u> Time: <u>17:00</u>

Were Samples Received in Good Condition?  Yes  No     
 Samples on Ice?  Yes  No     
 Method of Shipment \_\_\_\_\_     
 Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_  
 2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client



# Sequoia Analytical

---

404 N. Wiget Lane  
Walnut Creek, CA 94598  
(925) 988-9600  
FAX (925) 988-9673  
www.sequoialabs.com

5 September, 2000

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

RE: Tosco  
Sequoia Report W008471

Enclosed are the results of analyses for samples received by the laboratory on 21-Aug-00 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater  
Project Manager

CA ELAP Certificate #1271





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: W. Skip McIntosh

**Reported:**  
05-Sep-00 08:09

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W008471-01	Water	21-Aug-00 13:07	21-Aug-00 16:25

Sequoia Analytical - Walnut Creek

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

Charlie Westwater, Project Manager





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: W. Skip McIntosh

Reported:  
05-Sep-00 08:09

**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
<b>TPW-1 (W008471-01) Water</b> <b>Sampled: 21-Aug-00 13:07</b> <b>Received: 21-Aug-00 16:25</b>									
Purgeable Hydrocarbons	ND	130	ug/l	2.5	0H30003	30-Aug-00	30-Aug-00	EPA 8015M/8020	
Benzene	4.8	1.3	"	"	"	"	"	"	
Toluene	ND	1.3	"	"	"	"	"	"	
Ethylbenzene	ND	1.3	"	"	"	"	"	"	
Xylenes (total)	ND	1.3	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.7 %	70-130		"	"	"	"	
<b>TPW-1 (W008471-01RE1) Water</b> <b>Sampled: 21-Aug-00 13:07</b> <b>Received: 21-Aug-00 16:25</b>									
Methyl tert-butyl ether	46000	500	ug/l	200	0H30003	30-Aug-00	30-Aug-00	EPA 8015M/8020	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	70-130		"	"	"	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: W. Skip McIntosh

Reported:  
05-Sep-00 08:09

## 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
<b>Batch 0H30003 - EPA 5030B [P/T]</b>										
<b>Blank (0H30003-BLK1)</b> Prepared & Analyzed: 30-Aug-00										
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	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.5		"	30.0		98.3	70-130			
<b>LCS (0H30003-BS1)</b> Prepared & Analyzed: 30-Aug-00										
Benzene	19.3	0.50	ug/l	20.0		96.5	70-130			
Toluene	19.4	0.50	"	20.0		97.0	70-130			
Ethylbenzene	19.6	0.50	"	20.0		98.0	70-130			
Xylenes (total)	56.9	0.50	"	60.0		94.8	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.0		"	30.0		96.7	70-130			
<b>Matrix Spike (0H30003-MS1)</b> Source: W008473-02 Prepared & Analyzed: 30-Aug-00										
Benzene	18.2	0.50	ug/l	20.0	ND	91.0	70-130			
Toluene	18.2	0.50	"	20.0	ND	91.0	70-130			
Ethylbenzene	18.4	0.50	"	20.0	ND	92.0	70-130			
Xylenes (total)	52.9	0.50	"	60.0	ND	88.2	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.1		"	30.0		97.0	70-130			
<b>Matrix Spike Dup (0H30003-MSD1)</b> Source: W008473-02 Prepared & Analyzed: 30-Aug-00										
Benzene	18.4	0.50	ug/l	20.0	ND	92.0	70-130	1.09	20	
Toluene	18.5	0.50	"	20.0	ND	92.5	70-130	1.63	20	
Ethylbenzene	18.7	0.50	"	20.0	ND	93.5	70-130	1.62	20	
Xylenes (total)	53.6	0.50	"	60.0	ND	89.3	70-130	1.31	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	28.1		"	30.0		93.7	70-130			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: W. Skip McIntosh

**Reported:**  
05-Sep-00 08:09

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference



NO 002007

# TOSCO

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 770-9000 • FAX (408) 762-0000
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: <b>GETTNER-RYAN 180021</b>		Project Name: <b>6401 DUBLIN BLVD.</b>	
Address: <b>6747 SIERRA COURT SUITE J</b>		TOSCO Engineer (required) <b>DAVE DE WITT</b> <b>W008471</b>	
City: <b>Dublin</b>	State: <b>CA</b>	Zip Code: <b>94568</b>	
Telephone: <b>925 551-7555</b>		FAX: <b>925 551-7888</b>	
Report To: <b>W. Skip McElwosh</b>		Sampler: <b>W. Skip McElwosh</b>	
Turnaround Time: <input checked="" type="checkbox"/> 10 Work Days		Site #, City, State: <b>6419 DUBLIN, CA</b>	
<input type="checkbox"/> 5 Work Days		QC Data: <input checked="" type="checkbox"/> Level D (Standard)	
<input type="checkbox"/> 3 Work Days		<input type="checkbox"/> Level C	
<input type="checkbox"/> 2-8 Hours		<input type="checkbox"/> Level B	
<input type="checkbox"/> 1 Work Day		<input type="checkbox"/> Level A	

<input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Water <input checked="" type="checkbox"/> Other		<b>Analyses Requested</b>	
<b>CODE:</b> <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure		TPH (EPA 8015 Mod. Gas) BTEX (EPA 8020) MTBE (EPA 8020) TPH (EPA 8015 Mod. Diesel) Volatile Organics (EPA 8260) MTBE Confirmation (EPA 8260)	

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	Comments
1. TPW-1	8/21/00 13:07	H2O	2	VOA	01A-B	X	X	X				
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Relinquished By: <b>W. Skip McElwosh</b>	Date: <b>8/21/00</b>	Time: <b>14:11</b>	Received By: <b>Mark Calli</b>	Date: <b>8.21</b>	Time: <b>1530</b>
Relinquished By: <b>Mark Calli</b>	Date: <b>8.21</b>	Time: <b>1625</b>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <b>W. Skip</b>	Date: <b>8/21/00</b>	Time: <b>16:25</b>

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_      Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_      Signature: \_\_\_\_\_      Company: \_\_\_\_\_      Date: \_\_\_\_\_

Pink - Client

Yellow - Sequoia

White - Saminia



# Sequoia Analytical

404 N. Wiget Lane  
Walnut Creek, CA 94598  
(925) 988-9600  
FAX (925) 988-9673  
[www.sequoialabs.com](http://www.sequoialabs.com)

4 January, 2001

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

RE: Tosco  
Sequoia Report W012318

Enclosed are the results of analyses for samples received by the laboratory on 13-Dec-00 13:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater  
Project Manager

CA ELAP Certificate #1271







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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W012318-01	Water	12-Dec-00 00:00	13-Dec-00 13:30

Sequoia Analytical - Walnut Creek

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

Charlie Westwater, Project Manager





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Total Purgeable Hydrocarbons by DHS LUFT  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water Sampled: 12-Dec-00 00:00 Received: 13-Dec-00 13:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	0L24002	24-Dec-00	24-Dec-00	EPA 8015M	
Surrogate: a,a,a-Trifluorotoluene		100 %	70-130		"	"	"	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TPW-1 (W012318-01) Water    Sampled: 12-Dec-00 00:00    Received: 13-Dec-00 13:30</b>									
Antimony	ND	0.10	mg/l	1	0L21022	21-Dec-00	30-Dec-00	EPA 6010	
Arsenic	ND	0.10	"	"	"	"	30-Dec-00	"	
<b>Barium</b>	<b>0.047</b>	0.010	"	"	"	"	30-Dec-00	"	
Beryllium	ND	0.010	"	"	"	"	30-Dec-00	"	
Cadmium	ND	0.010	"	"	"	"	30-Dec-00	"	
Chromium	ND	0.010	"	"	"	"	30-Dec-00	"	
Cobalt	ND	0.010	"	"	"	"	30-Dec-00	"	
Copper	ND	0.010	"	"	"	"	30-Dec-00	"	
Lead	ND	0.020	"	"	"	"	30-Dec-00	"	
Molybdenum	ND	0.010	"	"	"	"	30-Dec-00	"	
<b>Nickel</b>	<b>0.012</b>	0.010	"	"	"	"	30-Dec-00	"	
Selenium	ND	0.10	"	"	"	"	30-Dec-00	"	
<b>Silver</b>	<b>0.074</b>	0.010	"	"	"	"	"	"	
Thallium	ND	0.10	"	"	"	"	30-Dec-00	"	
Vanadium	ND	0.20	"	"	"	"	30-Dec-00	"	
<b>Zinc</b>	<b>0.038</b>	0.020	"	"	"	"	30-Dec-00	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

## Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water Sampled: 12-Dec-00 00:00 Received: 13-Dec-00 13:30									
Dichlorodifluoromethane	ND	20	ug/l	10	0L18009	19-Dec-00	19-Dec-00	EPA 8260B	
Chloromethane	ND	20	"	"	"	"	"	"	
Vinyl chloride	ND	20	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Chloroethane	ND	20	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	3000	20	"	"	"	"	"	"	OCR-1
trans-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	20	"	"	"	"	"	"	
2,2-Dichloropropane	ND	50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	
Bromochloromethane	ND	20	"	"	"	"	"	"	
Chloroform	ND	20	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
1,1-Dichloropropene	ND	20	"	"	"	"	"	"	
Benzene	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	20	"	"	"	"	"	"	
1,2-Dichloropropane	ND	20	"	"	"	"	"	"	
Dibromomethane	ND	20	"	"	"	"	"	"	
Bromodichloromethane	ND	20	"	"	"	"	"	"	
2,2,5,5-Tetramethyltetrahydrofuran	ND	20	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Toluene	ND	20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20	"	"	"	"	"	"	
Tetrachloroethene	ND	20	"	"	"	"	"	"	
1,3-Dichloropropane	ND	20	"	"	"	"	"	"	
Dibromochloromethane	ND	20	"	"	"	"	"	"	
1,2-Dibromoethane	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	20	"	"	"	"	"	"	
Ethylbenzene	ND	20	"	"	"	"	"	"	
Total Xylenes	ND	20	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	20	"	"	"	"	"	"	
Styrene	ND	20	"	"	"	"	"	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

## Volatile Organic Compounds by EPA Method 8260B

### Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water Sampled: 12-Dec-00 00:00 Received: 13-Dec-00 13:30									
Bromoform	ND	20	ug/l	10	0L18009	19-Dec-00	19-Dec-00	EPA 8260B	
Isopropylbenzene	ND	20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	20	"	"	"	"	"	"	
Bromobenzene	ND	20	"	"	"	"	"	"	
n-Propylbenzene	ND	20	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	20	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	20	"	"	"	"	"	"	
4-Chlorotoluene	ND	20	"	"	"	"	"	"	
tert-Butylbenzene	ND	20	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	20	"	"	"	"	"	"	
sec-Butylbenzene	ND	20	"	"	"	"	"	"	
p-Isopropyltoluene	ND	20	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	20	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	20	"	"	"	"	"	"	
n-Butylbenzene	ND	20	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	20	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	20	"	"	"	"	"	"	
Naphthalene	ND	100	"	"	"	"	"	"	
Hexachlorobutadiene	ND	100	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	20	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %		50-150	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.0 %		50-150	"	"	"	"	
Surrogate: Toluene-d8		98.0 %		50-150	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %		50-150	"	"	"	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water    Sampled: 12-Dec-00 00:00    Received: 13-Dec-00 13:30									
pH	7.1	0.10	pH Units	1	0L14006	13-Dec-00	13-Dec-00	EPA 150.1	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Physical Parameters by APHA/ASTM/EPA Methods  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water    Sampled: 12-Dec-00 00:00    Received: 13-Dec-00 13:30									
Ignitability by Flashpoint	ND	5.0	°C	1	0L30003	28-Dec-00	28-Dec-00	EPA 1010	F-01





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

**Conventional Chemistry Parameters by APHA/EPA Methods**

**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**TPW-1 (W012318-01) Water**    **Sampled: 12-Dec-00 00:00**    **Received: 13-Dec-00 13:30**

Cyanide (total)	ND	0.0100	mg/l	1	0120474	21-Dec-00	21-Dec-00	EPA 335.2	
Sulfide	ND	0.500	"	"	0120531	22-Dec-00	22-Dec-00	EPA 376.1	HT-01







Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 6419 Project Manager: Doug Lee	<b>Reported:</b> 04-Jan-01 10:28
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**Physical Parameters by APHA/ASTM/EPA Methods**

**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TPW-1 (W012318-01) Water    Sampled: 12-Dec-00 00:00    Received: 13-Dec-00 13:30</b>									
Reactivity in Water	ND	1.00	N/A	1	0120363	18-Dec-00	19-Dec-00	EPA Chapter 7	
Reactive Cyanide	ND	10.0	mg/l	"	"	"	19-Dec-00	SW846 Ch. 7.3	
Reactive Sulfide	ND	50.0	"	"	"	"	"	SW846 Ch 7.3	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Total Metals by EPA 6000/7000 Series Methods**

**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TPW-1 (W012318-01) Water</b> <b>Sampled: 12-Dec-00 00:00</b> <b>Received: 13-Dec-00 13:30</b>									
Mercury	ND	0.000200	mg/l	1	1010005	02-Jan-01	02-Jan-01	EPA 7470A	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

## Total Purgeable Hydrocarbons 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
<b>Batch 0L24002 - EPA 5030B [P/T]</b>										
<b>Blank (0L24002-BLK1)</b> Prepared & Analyzed: 24-Dec-00										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	35.1		"	30.0		117	70-130			
<b>LCS (0L24002-BS1)</b> Prepared & Analyzed: 24-Dec-00										
Benzene	17.6	0.50	ug/l	20.0		88.0	70-130			
Toluene	17.6	0.50	"	20.0		88.0	70-130			
Ethylbenzene	17.4	0.50	"	20.0		87.0	70-130			
Xylenes (total)	51.7	0.50	"	60.0		86.2	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.1		"	30.0		97.0	70-130			
<b>Matrix Spike (0L24002-MS1)</b> Source: W012314-04 Prepared & Analyzed: 24-Dec-00										
Benzene	17.2	0.50	ug/l	20.0	ND	86.0	70-130			
Toluene	17.3	0.50	"	20.0	ND	86.5	70-130			
Ethylbenzene	17.1	0.50	"	20.0	ND	85.5	70-130			
Xylenes (total)	51.1	0.50	"	60.0	ND	85.2	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.1		"	30.0		97.0	70-130			
<b>Matrix Spike Dup (0L24002-MSD1)</b> Source: W012314-04 Prepared & Analyzed: 24-Dec-00										
Benzene	18.3	0.50	ug/l	20.0	ND	91.5	70-130	6.20	20	
Toluene	18.4	0.50	"	20.0	ND	92.0	70-130	6.16	20	
Ethylbenzene	18.2	0.50	"	20.0	ND	91.0	70-130	6.23	20	
Xylenes (total)	54.1	0.50	"	60.0	ND	90.2	70-130	5.70	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	30.3		"	30.0		101	70-130			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0L21022 - 200.7**

**Blank (0L21022-BLK1)**

Prepared: 21-Dec-00 Analyzed: 30-Dec-00

Antimony	ND	0.10	mg/l							
Arsenic	ND	0.10	"							
Barium	ND	0.010	"							
Beryllium	ND	0.010	"							
Cadmium	ND	0.010	"							
Chromium	ND	0.010	"							
Cobalt	ND	0.010	"							
Copper	ND	0.010	"							
Lead	ND	0.020	"							
Molybdenum	ND	0.010	"							
Nickel	ND	0.010	"							
Selenium	ND	0.10	"							
Silver	ND	0.010	"							
Vanadium	ND	0.20	"							
Zinc	ND	0.020	"							

**LCS (0L21022-BS1)**

Prepared: 21-Dec-00 Analyzed: 30-Dec-00

Cadmium	1.04	0.010	mg/l	1.00	104	80-120				
Chromium	1.08	0.010	"	1.00	108	80-120				
Copper	1.20	0.010	"	1.00	120	80-120				
Lead	0.978	0.020	"	1.00	97.8	80-120				
Nickel	1.07	0.010	"	1.00	107	80-120				
Zinc	1.02	0.020	"	1.00	102	80-120				

**LCS Dup (0L21022-BSD1)**

Prepared: 21-Dec-00 Analyzed: 30-Dec-00

Cadmium	1.07	0.010	mg/l	1.00	107	80-120	2.84	20		
Chromium	1.14	0.010	"	1.00	114	80-120	5.41	20		
Copper	1.20	0.010	"	1.00	120	80-120	0	20		
Lead	1.01	0.020	"	1.00	101	80-120	3.22	20		
Nickel	1.09	0.010	"	1.00	109	80-120	1.85	20		
Zinc	1.04	0.020	"	1.00	104	80-120	1.94	20		





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Total Metals by EPA 6000/7000 Series Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0L21022 - 200.7**

Matrix Spike (0L21022-MS1)	Source: W012313-01			Prepared: 21-Dec-00 Analyzed: 30-Dec-00						
Cadmium	0.968	0.010	mg/l	1.00	ND	96.8	80-120			
Chromium	1.03	0.010	"	1.00	ND	103	80-120			
Copper	1.13	0.010	"	1.00	0.014	112	80-120			
Lead	0.929	0.020	"	1.00	ND	92.9	80-120			
Nickel	0.989	0.010	"	1.00	0.012	97.7	80-120			
Zinc	0.981	0.020	"	1.00	0.033	94.8	80-120			

Matrix Spike Dup (0L21022-MSD1)	Source: W012313-01			Prepared: 21-Dec-00 Analyzed: 30-Dec-00						
Cadmium	0.999	0.010	mg/l	1.00	ND	99.9	80-120	3.15	20	
Chromium	1.02	0.010	"	1.00	ND	102	80-120	0.976	20	
Copper	1.10	0.010	"	1.00	0.014	109	80-120	2.69	20	
Lead	0.927	0.020	"	1.00	ND	92.7	80-120	0.216	20	
Nickel	1.00	0.010	"	1.00	0.012	98.8	80-120	1.11	20	
Zinc	1.07	0.020	"	1.00	0.033	104	80-120	8.68	20	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0L18009 - EPA 5030B [P/T]**

**Blank (0L18009-BLK1)**

Prepared: 13-Dec-00 Analyzed: 13-Dec-01

Dichlorodifluoromethane	ND	2.0	ug/l
Chloromethane	ND	2.0	"
Vinyl chloride	ND	2.0	"
Bromomethane	ND	5.0	"
Chloroethane	ND	2.0	"
Trichlorofluoromethane	ND	2.0	"
1,1-Dichloroethene	ND	2.0	"
Methylene chloride	ND	10	"
Methyl tert-butyl ether	ND	2.0	"
trans-1,2-Dichloroethene	ND	2.0	"
1,1-Dichloroethane	ND	2.0	"
2,2-Dichloropropane	ND	5.0	"
cis-1,2-Dichloroethene	ND	2.0	"
Bromochloromethane	ND	2.0	"
Chloroform	ND	2.0	"
1,1,1-Trichloroethane	ND	2.0	"
Carbon tetrachloride	ND	2.0	"
1,1-Dichloropropene	ND	2.0	"
Benzene	ND	2.0	"
1,2-Dichloroethane	ND	2.0	"
Trichloroethene	ND	2.0	"
1,2-Dichloropropane	ND	2.0	"
Dibromomethane	ND	2.0	"
Bromodichloromethane	ND	2.0	"
2,2,5,5-Tetramethyltetrahydrofuran	ND	2.0	"
cis-1,3-Dichloropropene	ND	2.0	"
Toluene	ND	2.0	"
trans-1,3-Dichloropropene	ND	5.0	"
1,1,2-Trichloroethane	ND	2.0	"
Tetrachloroethene	ND	2.0	"
1,3-Dichloropropane	ND	2.0	"
Dibromochloromethane	ND	2.0	"
1,2-Dibromoethane	ND	2.0	"
Chlorobenzene	ND	2.0	"





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6747 Sicra Court Suite J  
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Reported:  
04-Jan-01 10:28

## Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 0L18009 - EPA 5030B [P/T]

Prepared: 13-Dec-00 Analyzed: 13-Dec-01

#### Blank (0L18009-BLK1)

Ethylbenzene	ND	2.0	ug/l							
Total Xylenes	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Styrene	ND	2.0	"							
Bromoform	ND	2.0	"							
Isopropylbenzene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
Bromobenzene	ND	2.0	"							
n-Propylbenzene	ND	2.0	"							
1,2,3-Trichloropropane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							
1,3,5-Trimethylbenzene	ND	2.0	"							
4-Chlorotoluene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
p-Isopropyltoluene	ND	2.0	"							
1,3-Dichlorobenzene	ND	2.0	"							
1,4-Dichlorobenzene	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
1,2-Dichlorobenzene	ND	2.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
Naphthalene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
Surrogate: Dibromofluoromethane	46.0		"	50.0		92.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	47.0		"	50.0		94.0	50-150			
Surrogate: Toluene-d8	50.0		"	50.0		100	50-150			
Surrogate: 4-Bromofluorobenzene	48.0		"	50.0		96.0	50-150			





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6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Tosco  
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Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0L18009 - EPA 5030B [P/T]**

Prepared & Analyzed: 19-Dec-00

**Blank (0L18009-BLK3)**

Dichlorodifluoromethane	ND	2.0	ug/l
Chloromethane	ND	2.0	"
Vinyl chloride	ND	2.0	"
Bromomethane	ND	5.0	"
Chloroethane	ND	2.0	"
Trichlorofluoromethane	ND	2.0	"
1,1-Dichloroethene	ND	2.0	"
Methylene chloride	ND	10	"
Methyl tert-butyl ether	ND	2.0	"
trans-1,2-Dichloroethene	ND	2.0	"
1,1-Dichloroethane	ND	2.0	"
2,2-Dichloropropane	ND	5.0	"
cis-1,2-Dichloroethene	ND	2.0	"
Bromochloromethane	ND	2.0	"
Chloroform	ND	2.0	"
1,1,1-Trichloroethane	ND	2.0	"
Carbon tetrachloride	ND	2.0	"
1,1-Dichloropropene	ND	2.0	"
Benzene	ND	2.0	"
1,2-Dichloroethane	ND	2.0	"
Trichloroethene	ND	2.0	"
1,2-Dichloropropane	ND	2.0	"
Dibromomethane	ND	2.0	"
Bromodichloromethane	ND	2.0	"
2,2,5,5-Tetramethyltetrahydrofuran	ND	2.0	"
cis-1,3-Dichloropropene	ND	2.0	"
Toluene	ND	2.0	"
trans-1,3-Dichloropropene	ND	5.0	"
1,1,2-Trichloroethane	ND	2.0	"
Tetrachloroethene	ND	2.0	"
1,3-Dichloropropane	ND	2.0	"
Dibromochloromethane	ND	2.0	"
1,2-Dibromoethane	ND	2.0	"
Chlorobenzene	ND	2.0	"







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Project: Tosco  
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Reported:  
04-Jan-01 10:28

## Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 0L18009 - EPA 5030B [P/T]

Prepared & Analyzed: 19-Dec-00

#### Blank (0L18009-BLK3)

Ethylbenzene	ND	2.0	ug/l							
Total Xylenes	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Styrene	ND	2.0	"							
Bromoform	ND	2.0	"							
Isopropylbenzene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
Bromobenzene	ND	2.0	"							
n-Propylbenzene	ND	2.0	"							
1,2,3-Trichloropropane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							
1,3,5-Trimethylbenzene	ND	2.0	"							
4-Chlorotoluene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
p-Isopropyltoluene	ND	2.0	"							
1,3-Dichlorobenzene	ND	2.0	"							
1,4-Dichlorobenzene	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
1,2-Dichlorobenzene	ND	2.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
Naphthalene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
Surrogate: Dibromofluoromethane	47.0		"	50.0		94.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	47.0		"	50.0		94.0	50-150			
Surrogate: Toluene-d8	51.0		"	50.0		102	50-150			
Surrogate: 4-Bromofluorobenzene	47.0		"	50.0		94.0	50-150			





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Dublin CA, 94568

Project: Tosco  
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Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

## Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 0L18009 - EPA 5030B [P/T]

#### LCS (0L18009-BS1)

Prepared: 13-Dec-00 Analyzed: 13-Dec-01

1,1-Dichloroethene	64.0	2.0	ug/l	70.0		91.4	65-135			
Methyl tert-butyl ether	50.8	2.0	"	50.0		102	65-135			
Benzene	62.0	2.0	"	50.0		124	70-130			
Trichloroethene	60.6	2.0	"	50.0		121	70-130			
Toluene	61.2	2.0	"	50.0		122	70-130			
Chlorobenzene	63.0	2.0	"	50.0		126	70-130			
Surrogate: Dibromofluoromethane	47.0		"	50.0		94.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	47.0		"	50.0		94.0	50-150			
Surrogate: Toluene-d8	51.0		"	50.0		102	50-150			
Surrogate: 4-Bromofluorobenzene	48.0		"	50.0		96.0	50-150			

#### LCS (0L18009-BS3)

Prepared & Analyzed: 19-Dec-00

1,1-Dichloroethene	59.0	2.0	ug/l	70.0		84.3	65-135			
Methyl tert-butyl ether	47.0	2.0	"	50.0		94.0	65-135			
Benzene	59.0	2.0	"	50.0		118	70-130			
Trichloroethene	59.0	2.0	"	50.0		118	70-130			
Toluene	58.0	2.0	"	50.0		116	70-130			
Chlorobenzene	58.0	2.0	"	50.0		116	70-130			
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	46.0		"	50.0		92.0	50-150			
Surrogate: Toluene-d8	49.0		"	50.0		98.0	50-150			
Surrogate: 4-Bromofluorobenzene	49.0		"	50.0		98.0	50-150			

#### Matrix Spike (0L18009-MS1)

Source: W012299-06

Prepared & Analyzed: 18-Dec-00

1,1-Dichloroethene	57.0	2.0	ug/l	70.0	ND	81.4	60-140			
Methyl tert-butyl ether	46.0	2.0	"	50.0	ND	92.0	60-140			
Benzene	58.0	2.0	"	50.0	ND	116	60-140			
Trichloroethene	57.0	2.0	"	50.0	ND	114	60-140			
Toluene	60.0	2.0	"	50.0	ND	120	60-140			
Chlorobenzene	56.0	2.0	"	50.0	ND	112	60-140			
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	49.0		"	50.0		98.0	50-150			
Surrogate: Toluene-d8	48.0		"	50.0		96.0	50-150			
Surrogate: 4-Bromofluorobenzene	47.0		"	50.0		94.0	50-150			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0L18009 - EPA 5030B [P/T]**

Matrix Spike Dup (0L18009-MSD1)	Source: W012299-06		Prepared & Analyzed: 18-Dec-00							
1,1-Dichloroethene	59.0	2.0	ug/l	70.0	ND	84.3	60-140	3.45	25	
Methyl tert-butyl ether	45.0	2.0	"	50.0	ND	90.0	60-140	2.20	25	
Benzene	58.0	2.0	"	50.0	ND	116	60-140	0	25	
Trichloroethene	58.0	2.0	"	50.0	ND	116	60-140	1.74	25	
Toluene	60.0	2.0	"	50.0	ND	120	60-140	0	25	
Chlorobenzene	58.0	2.0	"	50.0	ND	116	60-140	3.51	25	
Surrogate: Dibromofluoromethane	49.0		"	50.0		98.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	50-150			
Surrogate: Toluene-d8	48.0		"	50.0		96.0	50-150			
Surrogate: 4-Bromofluorobenzene	46.0		"	50.0		92.0	50-150			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0L14006 - General Preparation</b>										
<b>Duplicate (0L14006-DUP1)</b>		<b>Source: W012299-05</b>			<b>Prepared &amp; Analyzed: 13-Dec-00</b>					
pH	7.9	0.10	pH Units		8.1			2.5	30	





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6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0L30003 - General Preparation**

**Duplicate (0L30003-DUP1)**

Source: W012386-01

Prepared & Analyzed: 28-Dec-00

Ignitability by Flashpoint	ND	5.0	°C		ND			30		F-01
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**Reference (0L30003-SRM1)**

Prepared & Analyzed: 28-Dec-00

Ignitability by Flashpoint	30	5.0	°C	28		110	90-110			
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Gettler Ryan, Inc. - Dublin  
6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
04-Jan-01 10:28

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Notes
<b>Batch 0120474 - General Preparation</b>										
<b>Blank (0120474-BLK1)</b>				Prepared & Analyzed: 21-Dec-00						
Cyanide (total)	ND	0.0100	mg/l							
<b>LCS (0120474-BS1)</b>				Prepared & Analyzed: 21-Dec-00						
Cyanide (total)	0.181	0.0100	mg/l	0.200		90.5	80-120			
<b>Matrix Spike (0120474-MS1)</b>				Source: P012329-03		Prepared & Analyzed: 21-Dec-00				
Cyanide (total)	0.187	0.0100	mg/l	0.200	ND	93.5	75-125			
<b>Matrix Spike Dup (0120474-MSD1)</b>				Source: P012329-03		Prepared & Analyzed: 21-Dec-00				
Cyanide (total)	0.187	0.0100	mg/l	0.200	ND	93.5	75-125	0	20	
<b>Batch 0120531 - General Preparation</b>										
<b>Blank (0120531-BLK1)</b>				Prepared & Analyzed: 22-Dec-00						
Sulfide	ND	0.500	mg/l							
<b>LCS (0120531-BS1)</b>				Prepared & Analyzed: 22-Dec-00						
Sulfide	6.75	0.500	mg/l	6.76		99.9	80-120			
<b>LCS Dup (0120531-BSD1)</b>				Prepared & Analyzed: 22-Dec-00						
Sulfide	6.75	0.500	mg/l	6.76		99.9	80-120	0	20	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0120363 - General Preparation**

**Blank (0120363-BLK1)**

Prepared: 18-Dec-00 Analyzed: 19-Dec-00

Reactive Cyanide	ND	10.0	mg/l							
Reactive Sulfide	ND	50.0	"							
Reactivity in Water	ND	1.00	N/A							

**LCS (0120363-BS1)**

Prepared: 18-Dec-00 Analyzed: 19-Dec-00

Reactive Cyanide	62.4	10.0	mg/l	500		12.5	5-120			
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**LCS (0120363-BS2)**

Prepared: 18-Dec-00 Analyzed: 19-Dec-00

Reactive Sulfide	116	50.0	mg/l	2300		5.04	5-120			
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Gettler Ryan, Inc. - Dublin  
6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
04-Jan-01 10:28

**Total Metals by EPA 6000/7000 Series Methods - Quality Control  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1010005 - EPA 7470A</b>										
<b>Blank (1010005-BLK1)</b>										
Prepared & Analyzed: 02-Jan-01										
Mercury	ND	0.000200	mg/l							
<b>LCS (1010005-BS1)</b>										
Prepared & Analyzed: 02-Jan-01										
Mercury	0.00454	0.000200	mg/l	0.00500		90.8	80-120			
<b>Matrix Spike (1010005-MS1)</b>										
<b>Source: W012318-01</b>										
Prepared & Analyzed: 02-Jan-01										
Mercury	0.00453	0.000200	mg/l	0.00500	ND	90.6	75-125			
<b>Matrix Spike Dup (1010005-MSD1)</b>										
<b>Source: W012318-01</b>										
Prepared & Analyzed: 02-Jan-01										
Mercury	0.00416	0.000200	mg/l	0.00500	ND	83.2	75-125	8.52	20	





NO 002753

**TOSCO**

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 770-9000 • FAX (408) 762-0300
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: <u>Gottler Ryan Inc.</u>			Project Name: <u>6401 Dublin BLVD</u> <u>14010103</u>		
Address: <u>6747 Sierra Ct Suite J</u>			TOSCO Engineer (required) <u>David DeWitt</u>		
City: <u>Lubbock</u>	State: <u>CA</u>	Zip Code: <u>94008</u>			
Telephone: <u>925-221-7555</u>		FAX #: <u>925-221-7558</u>	Site #, City, State: <u>6417 Lubbock CA</u>		
Report To: <u>Dave Lee</u>	Sampler: <u>A. Smith</u>		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround Time: <input checked="" type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours	<input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Water <input checked="" type="checkbox"/> Other	Analyses Requested	
CODE: <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure		TPH (EPA 8015 Mod. 605)	BTEX (EPA 8020)
		MTBE (EPA 8020)	Volatile Organics (EPA 8260)
		R.C.T.	Total Solids

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. 605)	BTEX (EPA 8020)	MTBE (EPA 8020)	Volatile Organics (EPA 8260)	R.C.T.	Total Solids	Comments
1. TPW-1	12/12/03	H <sub>2</sub> O	5	VOLAS		X			X			Full scan for BTEX for 8260
2.	↓	↓	1	1 Ltr						X		
3.	↓	↓	1	500 mL PL w/HV03							X	
4.	↓	↓	1	500 mL PL w/VAOH							X	
5.	↓	↓	1	500 mL PL w/20% H <sub>2</sub> O <sub>2</sub>			X					
6.												
7.												
8.												
9.												
10.												<input checked="" type="checkbox"/> DO NOT INCLUDE

Relinquished By: <u>A. Smith</u>	Date: <u>12/12/03</u>	Time: <u>17:30</u>	Received By: <u>W. K. Smith</u>	Date: <u>12/12/03</u>	Time: <u>11:00</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_      Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client

Yellow - Sequoia

White - Sequoia

№ 002753

# TOSCO

885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308  
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100  
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673  
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342  
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: <u>Gettler Ryan Inc.</u>		Project Name: <u>6401 Dublin BLVD</u> <u>140101.03</u>	
Address: <u>6747 Sierra Ct suite J</u>		TOSCO Engineer (required) <u>David DeWitt</u>	
City: <u>Dublin</u>	State: <u>CA</u>	Zip Code: <u>94568</u>	<u>W012318</u>
Telephone: <u>925-551-7555</u>		FAX #: <u>925-551-7888</u>	Site #, City, State: <u>6419, Dublin, CA</u>
Report To: <u>Doug Lee</u>	Sampler: <u>A. Smith</u>		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A

**Turnaround Time:**  10 Work Days  5 Work Days  3 Work Days  
 2 Work Days  1 Work Day  2-8 Hours

**CODE:**  Misc.  Detect.  Eval.  Remed.  Demol.  Closure

**Analyses Requested**  
 Drinking Water  
 Waste Water  
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments	
						TPH (EPA 8015 Mod. 689)	BTEX (EPA 8020)	MTBE (EPA 8020)	Total Sulfide (EPA 8020)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	RCI	CA 17 Metals	Total Cyanide			
1. TPW-1	12/12/00	H2O	5	VOAS	01A-1	X				X	■						Full scan include BTEX for 8260
2.	↓	↓	1	1-Lt amp									X				
3.	↓	↓	1	500 ml PL w/HNO3										X			
4.	↓	↓	1	500 ml PL w/NaOH											X		
5.	↓	↓	1	500 ml PL w/ZnCl2				X									
6.																	
7.																	
8.																	
9.																	
10.																	■ DO NOT INCLUDE

Relinquished By: <u>Andrew Smith</u>	Date: <u>12/12/00</u>	Time: <u>1730</u>	Received By: <u>Mark Collie</u>	Date: <u>12/13/00</u>	Time: <u>1108</u>
Relinquished By: <u>Mark Collie</u>	Date: <u>12/13/00</u>	Time: <u>1330</u>	Received By: <u>Mike Gavin</u>	Date: <u>12/13/00</u>	Time: <u>1330</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition?  Yes  No     
 Samples on Ice?  Yes  No     
 Method of Shipment \_\_\_\_\_     
 Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_  
 2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? 28 working days

Approved by: Andrew Smith     
 Signature: Andrew Smith     
 Company: GRF     
 Date: 1/8/01

Pink - Client

Yellow - Sequoia

White - Sequoia

NO 002753

**TOSCO**

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: <u>Gettler Ryan Inc.</u>		Project Name: <u>6401 Dublin BLVD 14010102</u>	
Address: <u>6747 Sierra Ct Suite J</u>		TOSCO Engineer (required) <u>David P. With</u>	
City: <u>Dublin</u>	State: <u>CA</u>	Zip Code: <u>94568</u>	
Telephone: <u>925-231-7555</u>		FAX #: <u>925-231-7888</u>	
Report To: <u>David Lee</u>		Site #, City, State: <u>6419 Dublin CA</u>	
Sampler: <u>A. Smith</u>		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround Time: <input checked="" type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours	<input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Water <input checked="" type="checkbox"/> Other	<b>Analyses Requested</b>									
CODE: <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="transform: rotate(-45deg);">TPH (EPA 8015 Mod. Gas)</td> <td style="transform: rotate(-45deg);">BTEX (EPA 8020)</td> <td style="transform: rotate(-45deg);">MTBE (EPA 8020)</td> <td style="transform: rotate(-45deg);">Volatile Organics (EPA 8260)</td> <td style="transform: rotate(-45deg);">MTBE Confirmation (EPA 8260)</td> <td style="transform: rotate(-45deg);">RGI</td> <td style="transform: rotate(-45deg);">CAA Metals</td> <td style="transform: rotate(-45deg);">Total Solids</td> </tr> </table>			TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	RGI	CAA Metals	Total Solids
TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	RGI	CAA Metals	Total Solids				

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	RGI	CAA Metals	Total Solids	Comments
1. TPW-1	12/12/00	H <sub>2</sub> O	5	VOAS		X			X					Full report BTEX for P260
2.	↓	↓	1	1 Ltr						X				
3.	↓	↓	1	500 ML PL w/HNO <sub>3</sub>							X			
4.	↓	↓	1	500 ML PL w/HNO <sub>3</sub>								X		
5.	↓	↓	1	500 ML PL w/zinc/H <sub>2</sub> O <sub>2</sub>				X						
6.														
7.														
8.														
9.														
10.														<input checked="" type="checkbox"/> DO NOT INCLUDE

Relinquished By: <u>A. Smith</u>	Date: <u>12/12/00</u>	Time: <u>1730</u>	Received By: <u>David P. With</u>	Date: <u>12/12/00</u>	Time: <u>11:28</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_      Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client  
Yellow - Sequoia  
White - Sequoia



# Sequoia Analytical

404 N. Wiget Lane  
Walnut Creek, CA 94598  
(925) 988-9600  
FAX (925) 988-9673  
www.sequoialabs.com

2 April, 2001

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

RE: Tosco  
Sequoia Report: W103371

Enclosed are the results of analyses for samples received by the laboratory on 16-Mar-01 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater  
Project Manager

CA ELAP Certificate #1271





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
02-Apr-01 17:55

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W103371-01	Water	16-Mar-01 11:30	16-Mar-01 17:15

Sequoia Analytical - Walnut Creek

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

Charlie Westwater, Project Manager





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
02-Apr-01 17:55

**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
<b>TPW-1 (W103371-01) Water</b> <b>Sampled: 16-Mar-01 11:30</b> <b>Received: 16-Mar-01 17:15</b>									
Purgeable Hydrocarbons	ND	50	ug/l	1	1C29001	29-Mar-01	29-Mar-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>260</b>	2.5	"	"	"	"	"	"	CC-3,CF-01
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %		70-130	"	"	"	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
02-Apr-01 17:55

## 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 1C29001 - EPA 5030B P/T

#### Blank (1C29001-BLK1)

Prepared & Analyzed: 29-Mar-01

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	"							
<i>Surrogate: a, a, a-Trifluorotoluene</i>	30.3		"	30.0		101	70-130			

#### LCS (1C29001-BS1)

Prepared & Analyzed: 29-Mar-01

Benzene	18.0	0.50	ug/l	20.0		90.0	70-130			
Toluene	18.8	0.50	"	20.0		94.0	70-130			
Ethylbenzene	19.5	0.50	"	20.0		97.5	70-130			
Xylenes (total)	58.9	0.50	"	60.0		98.2	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	28.7		"	30.0		95.7	70-130			

#### LCS Dup (1C29001-BSD1)

Prepared & Analyzed: 29-Mar-01

Benzene	19.2	0.50	ug/l	20.0		96.0	70-130	6.45	20	
Toluene	19.9	0.50	"	20.0		99.5	70-130	5.68	20	
Ethylbenzene	20.0	0.50	"	20.0		100	70-130	2.53	20	
Xylenes (total)	60.9	0.50	"	60.0		102	70-130	3.34	20	
<i>Surrogate: a, a, a-Trifluorotoluene</i>	30.8		"	30.0		103	70-130			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

Reported:  
02-Apr-01 17:55

### Notes and Definitions

- CC-3 Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
- CF-01 Results between the primary and confirmation column varied by greater than 40% RPD.
- 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





NO 002858  
**TOSCO**

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-5600 FAX (916) 921-5600  
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673  
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342  
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler - Ryan - Inc 140 101.03 Project Name: Tosco No. 6419 W103371  
 Address: 6747 Sierra Ct Suite J TOSCO Engineer (required) Dave De Witt  
 City: Dublin State: CA Zip Code: 94568  
 Telephone: (925) 551-7555 FAX #: (925) 551-7888 Site #, City, State: 6419, Dublin, CA  
 Report To: Doug Lee Sampler: A. Smith QC Data:  Level D (Standard)  Level C  Level B  Level A

Turnaround Time:  10 Work Days  5 Work Days  3 Work Days  Drinking Water  
 2 Work Days  1 Work Day  2-8 Hours  Waste Water  
 Other

CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested						Comments	
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)		
1. TPW-1	3/16/01	H2O	3	VOAS	OIA-C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: A. Smith Date: 3/16/01 Time: \_\_\_\_\_ Received By: Mark Bell Date: 3/16/01 Time: 1540  
 Relinquished By: Mark Bell Date: 3/16/01 Time: 1715 Received By: Mike Groin Date: 3/16/01 Time: 1715  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  No Samples on Ice?  Yes  No Method of Shipment \_\_\_\_\_ Page \_\_\_ of \_\_\_

To be completed upon receipt of report:  
 1) Were the analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed? \_\_\_\_\_  
 2) Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time? \_\_\_\_\_ Date: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Company: \_\_\_\_\_

Pink - Client

NO 002858

**TOSCO**

- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-3000 FAX (916) 921-3001
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler - Ryan - Inc 140 101.03 Project Name: TOSCO NO. 6419 W103371

Address: 6747 Sierra Ct Suite J TOSCO Engineer (required) Dave De Witt

City: Dublin State: CA Zip Code: 94568

Telephone: (925) 551-7555 FAX #: (925) 551-7888 Site #, City, State: 6419, Dublin, CA

Report To: Doug Lee Sampler: A. Smith QC Data:  Level D (Standard)  Level C  Level B  Level A

Turnaround Time:  10 Work Days  5 Work Days  3 Work Days  Drinking Water  
 2 Work Days  1 Work Day  2-8 Hours  Waste Water

CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure  Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested						Comments
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	
1. TPW-1	3/16/01	H2O	3	VOAS	OIA-C	✓	✓	✓				
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Relinquished By: <u>[Signature]</u>	Date: <u>3/16/01</u>	Time:	Received By: <u>[Signature]</u>	Date: <u>3/16/01</u>	Time: <u>1540</u>
Relinquished By: <u>[Signature]</u>	Date: <u>3/16/01</u>	Time: <u>1715</u>	Received By: <u>[Signature]</u>	Date: <u>3/16/01</u>	Time: <u>1715</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_      Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Signature: [Signature] Company: Gettler - Ryan Date: 4/1/04

Pink - Client



# GETTLER-RYAN INC.

---

January 19, 2001

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

**Subject: R-149 approval for Tosco Site numbers; 6419, 11192, 11193, 11194  
and 11195.**

Mr. De Witt:

Here are the lab results for the Tosco sites listed above, for your use in obtaining R-149 forms for the year 2001. If you have any questions, please call me at (925) 551-7444 ext. 127.

Sincerely,  
**Gettler-Ryan Inc.**

Andrew Smith  
Staff Geologist

Attachments: Copies of lab reports from subject sites.



# Sequoia Analytical

RECEIVED

MAY 30 2001

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

GETTLER-RYAN, INC.  
GENERAL CONTRACTORS

24 May, 2001

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

RE: Tosco/Unocal  
Sequoia Report: MKE0459

Enclosed are the results of analyses for samples received by the laboratory on 05/17/01 18:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley  
Project Manager

CA ELAP Certificate #1210





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

Project: Tosco/Unocal  
Project Number: 6401 Dublin San Ramon  
Project Manager: Doug Lee

**Reported:**  
05/24/01 17:46

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	MKE0459-01	Water	05/16/01 18:40	05/17/01 18:11

Sequoia Analytical - Morgan Hill

*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.*

  
James Hartley, Project Manager





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

Project: Tosco/Unocal  
Project Number: 6401 Dublin San Ramon  
Project Manager: Doug Lee

**Reported:**  
05/24/01 17:46

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TPW-1 (MKE0459-01) Water</b> <b>Sampled: 05/16/01 18:40</b> <b>Received: 05/17/01 18:11</b>									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1E21004	05/21/01	05/21/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	2.27	0.500	"	"	"	"	"	"	
Ethylbenzene	2.03	0.500	"	"	"	"	"	"	
Xylenes (total)	0.665	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	1950	100	"	40	"	"	05/22/01	"	M-03
Surrogate: a,a,a-Trifluorotoluene		122 %		70-130	"	"	05/21/01	"	





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

Project: Tosco/Unocal  
Project Number: 6401 Dublin San Ramon  
Project Manager: Doug Lee

Reported:  
05/24/01 17:46

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>Batch 1E21004 - EPA 5030B [P/T]</b>										
<b>Blank (1E21004-BLK1)</b>										
Prepared & Analyzed: 05/21/01										
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.18		"	10.0		91.8	70-130			
<b>LCS (1E21004-BS1)</b>										
Prepared & Analyzed: 05/21/01										
Benzene	7.99	0.500	ug/l	10.0		79.9	70-130			
Toluene	9.17	0.500	"	10.0		91.7	70-130			
Ethylbenzene	9.27	0.500	"	10.0		92.7	70-130			
Xylenes (total)	27.2	0.500	"	30.0		90.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.44		"	10.0		94.4	70-130			
<b>Matrix Spike (1E21004-MS1)</b>										
Source: MKE0471-02 Prepared & Analyzed: 05/21/01										
Benzene	4.71	0.500	ug/l	10.0	ND	43.2	60-140			Q-02
Toluene	9.32	0.500	"	10.0	0.501	88.2	60-140			
Ethylbenzene	8.81	0.500	"	10.0	ND	88.1	60-140			
Xylenes (total)	26.5	0.500	"	30.0	ND	88.3	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			
<b>Matrix Spike Dup (1E21004-MSD1)</b>										
Source: MKE0471-02 Prepared & Analyzed: 05/21/01										
Benzene	4.76	0.500	ug/l	10.0	ND	43.7	60-140	1.06	25	Q-02
Toluene	9.56	0.500	"	10.0	0.501	90.6	60-140	2.54	25	
Ethylbenzene	9.41	0.500	"	10.0	ND	94.1	60-140	6.59	25	
Xylenes (total)	26.4	0.500	"	30.0	ND	88.0	60-140	0.378	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			





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

Project: Tosco/Unocal  
Project Number: 6401 Dublin San Ramon  
Project Manager: Doug Lee

**Reported:**  
05/24/01 17:46

## Notes and Definitions

- M-03 Sample was analyzed at a second dilution.
- Q-02 The spike recovery for this quality control sample is outside of the established control limits due to interference from the sample matrix. However, the accuracy of the data was validated by a laboratory control sample which was within acceptance limits.
- 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





NO 002532

**TOSCO**

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: G-R Inc 11KE0459 Project Name: 6401 DUBLIN BLVD. 140101.03

Address: 6747 Sierra Ct, Suite J TOSCO Engineer (required) David B. Dewist

City: Dublin State: CA Zip Code: 94568

Telephone: 925-551-7555 FAX #: 925-551-7898 Site #, City, State: Dublin, CA

Report To: Doug Lee Sampler: Vartkes Tashjian QC Data:  Level D (Standard)  Level C  Level B  Level A

Turnaround Time:  10 Work Days  5 Work Days  3 Work Days  2-8 Hours

2 Work Days  1 Work Day  Other

Analyses Requested:  Drinking Water  Waste Water  Other

CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested							Comments	
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)			
1. TPW-1	5/16/01 18:40	H <sub>2</sub> O	3	VDA	4	X	X	X						
2.														
3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														

Relinquished By: <u>Vartkes Tashjian</u>	Date: <u>5/16/01</u>	Time: <u>19:45</u>	Received By: <u>[Signature]</u>	Date: <u>5/16/01</u>	Time: <u>19:52</u>
Relinquished By: <u>[Signature]</u>	Date: <u>5/17/01</u>	Time:	Received By: <u>[Signature]</u>	Date: <u>5/17/01</u>	Time: <u>1811</u>
Relinquished By: <u>[Signature]</u>	Date: <u>5/17</u>	Time: <u>1615</u>	Received By:	Date:	Time:

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_      Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_



# Sequoia Analytical

404 N. Wiget Lane  
Walnut Creek, CA 94598  
(925) 988-9600  
FAX (925) 988-9673  
[www.sequoialabs.com](http://www.sequoialabs.com)

12 November, 2001

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

RE: Tosco  
Sequoia Report: W110534

Enclosed are the results of analyses for samples received by the laboratory on 29-Oct-01 12:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater  
Project Manager

CA ELAP Certificate #1271





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Nov-01 07:51

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TWP-1	W110534-01	Water	26-Oct-01 00:00	29-Oct-01 12:35

Sequoia Analytical - Walnut Creek

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

Charlie Westwater, Project Manager





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Nov-01 07:51

**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
<b>TWP-1 (W110534-01) Water</b> <b>Sampled: 26-Oct-01 00:00</b> <b>Received: 29-Oct-01 12:35</b>									
Purgeable Hydrocarbons (C6-C12)	ND	500	ug/l	10	1J31002	06-Nov-01	06-Nov-01	EPA 8015M/8021	
Benzene	ND	5.0	"	"	"	"	"	"	Q-28
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether (MTBE)</b>	<b>2500</b>	250	"	100	"	"	"	"	Q-28a,QR-04
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %		70-130	"	"	"	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Nov-01 07:51

**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
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**Batch 1J31002 - EPA 5030B P/T**

**Blank (1J31002-BLK1)**

Prepared & Analyzed: 01-Nov-01

Purgeable Hydrocarbons (C6-C12)	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 (MTBE)	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	30.7		"	30.0		102	70-130			

**Blank (1J31002-BLK4)**

Prepared & Analyzed: 06-Nov-01

Purgeable Hydrocarbons (C6-C12)	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 (MTBE)	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	30.4		"	30.0		101	70-130			

**LCS (1J31002-BS1)**

Prepared & Analyzed: 01-Nov-01

Benzene	16.3	0.50	ug/l	20.0		81.5	70-130			
Toluene	17.5	0.50	"	20.0		87.5	70-130			
Ethylbenzene	18.6	0.50	"	20.0		93.0	70-130			
Xylenes (total)	56.7	0.50	"	60.0		94.5	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.1		"	30.0		97.0	70-130			

**LCS (1J31002-BS4)**

Prepared & Analyzed: 06-Nov-01

Benzene	16.8	0.50	ug/l	20.0		84.0	70-130			
Toluene	18.0	0.50	"	20.0		90.0	70-130			
Ethylbenzene	19.3	0.50	"	20.0		96.5	70-130			
Xylenes (total)	57.3	0.50	"	60.0		95.5	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.7		"	30.0		99.0	70-130			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Nov-01 07:51

**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
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**Batch 1J31002 - EPA 5030B P/T**

<b>Matrix Spike (1J31002-MS1)</b>	<b>Source: W110479-11</b>			<b>Prepared &amp; Analyzed: 01-Nov-01</b>						
Benzene	17.1	0.50	ug/l	20.0	ND	85.5	70-130			
Toluene	18.4	0.50	"	20.0	ND	92.0	70-130			
Ethylbenzene	19.5	0.50	"	20.0	ND	97.5	70-130			
Xylenes (total)	60.1	0.50	"	60.0	ND	100	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.7		"	30.0		99.0	70-130			

<b>Matrix Spike Dup (1J31002-MSD1)</b>	<b>Source: W110479-11</b>			<b>Prepared &amp; Analyzed: 01-Nov-01</b>						
Benzene	17.0	0.50	ug/l	20.0	ND	85.0	70-130	0.587	20	
Toluene	18.4	0.50	"	20.0	ND	92.0	70-130	0.00	20	
Ethylbenzene	19.4	0.50	"	20.0	ND	97.0	70-130	0.514	20	
Xylenes (total)	59.5	0.50	"	60.0	ND	99.2	70-130	1.00	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	30.1		"	30.0		100	70-130			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
12-Nov-01 07:51

### Notes and Definitions

- Q-28 The opening calibration verification standard was outside acceptance criteria by -1.5%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
- Q-28a The opening calibration verification standard was outside acceptance criteria by 20%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
- QR-04 Primary and confirmation results varied by greater than 40% RPD. The results may still be useful for their intended purpose.
- 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



# N<sup>o</sup> 007005 TOSCO

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612

Consultant Company: <u>Getler - Ryan Inc. 140101</u>		Tosco Engineer: <u>David B. DeWitt</u>	
Address: <u>6747 Sierra Ct Suite J</u>		Site #: <u>6419</u>	
City: <u>Dublin</u> State: <u>CA</u> Zip Code: <u>94568</u>		Site Address: <u>6401 Dublin Blvd</u>	
Telephone: <u>925-551-7555</u> Fax #: <u>925-551-7888</u>		City, State: <u>Dublin CA</u> <u>W110534</u>	
Report To: <u>Doug Lee</u>	Sampler: <u>A. Smith</u>	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	
Turnaround <input checked="" type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days Time: <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours		<input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Water <input checked="" type="checkbox"/> Other	

**Project Coding:**

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested						Comments	
						TPH/g/BTEX/MTBE	TPH Diesel (8015)	TOG (418.1)	Oxygenates (6) 8260	Oxygenates (6) + EDB	1,2 DCA (8260)		
1. TPW-1	10/26/01	H <sub>2</sub> O	2	VOAS	01AB	X							
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: <u>[Signature]</u>	Date: <u>10/26/01</u>	Time: <u>15:15</u>	Received By: <u>[Signature]</u>	Date: <u>10/27/01</u>	Time: <u>12:55</u>
Relinquished By: <u>[Signature]</u>	Date: <u>10/27/01</u>	Time: <u>12:35</u>	Received By: <u>[Signature]</u>	Date: <u>10/27/01</u>	Time: <u>12:35</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition?  Yes  No    Samples on Ice?  Yes  No    Method of Shipment \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No    If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No    If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client  
Yellow - Sequoia  
White - Sequoia





# Sequoia Analytical

404 N. Wiget Lane  
Walnut Creek, CA 94598  
(925) 988-9600  
FAX (925) 988-9673  
www.sequolalabs.com

29 November, 2001

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

RE: Tosco  
Sequoia Report: W111197 RECREATE

Enclosed are the results of analyses for samples received by the laboratory on 12-Nov-01 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater  
Project Manager

CA ELAP Certificate #1271





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
29-Nov-01 08:25

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W111197-01	Water	12-Nov-01 00:00	12-Nov-01 17:40

  
Charlie Westwater, Project Manager





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
29-Nov-01 08:25

## 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
TPW-1 (W111197-01) Water <b>Sampled: 12-Nov-01 00:00 Received: 12-Nov-01 17:40</b>									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	1K13001	13-Nov-01	13-Nov-01	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %		70-130	"	"	"	"	
TPW-1 (W111197-01RE1) Water <b>Sampled: 12-Nov-01 00:00 Received: 12-Nov-01 17:40</b>									
Methyl tert-butyl ether (MTBE)	870	50	ug/l	20	1K13001	14-Nov-01	14-Nov-01	EPA 8015M/8021	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %		70-130	"	"	"	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
29-Nov-01 08:25

**Volatile Organic Compounds by EPA Method 8260B  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TPW-1 (W111197-01) Water Sampled: 12-Nov-01 00:00 Received: 12-Nov-01 17:40</b>									
Ethanol	ND	2500	ug/l	5	1K14004	14-Nov-01	14-Nov-01	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
<b>Methyl tert-butyl ether (MTBE)</b>	<b>890</b>	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethylene dibromide	ND	10	"	"	"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		92.4 %		50-150	"	"	"	"	
<i>Surrogate 1,2-Dichloroethane-d4</i>		99.2 %		50-150	"	"	"	"	





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
29-Nov-01 08:25

## 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
<b>Batch 1K13001 - EPA 5030B P/T</b>										
Prepared & Analyzed: 13-Nov-01										
<b>Blank (1K13001-BLK1)</b>										
Purgeable Hydrocarbons (C6-C12)	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 (MTBE)	ND	2.5	"							
<i>Surrogate: a.a.a-Trifluorotoluene</i>	30.7		"	30.0		102	70-130			
Prepared & Analyzed: 14-Nov-01										
<b>Blank (1K13001-BLK2)</b>										
Purgeable Hydrocarbons (C6-C12)	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 (MTBE)	ND	2.5	"							
<i>Surrogate: a.a.a-Trifluorotoluene</i>	30.9		"	30.0		103	70-130			
Prepared & Analyzed: 15-Nov-01										
<b>Blank (1K13001-BLK4)</b>										
Purgeable Hydrocarbons (C6-C12)	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 (MTBE)	ND	2.5	"							
<i>Surrogate: a.a.a-Trifluorotoluene</i>	35.6		"	30.0		119	70-130			
Prepared & Analyzed: 13-Nov-01										
<b>LCS (1K13001-BS1)</b>										
Benzene	17.2	0.50	ug/l	20.0		86.0	70-130			
Toluene	18.4	0.50	"	20.0		92.0	70-130			
Ethylbenzene	19.7	0.50	"	20.0		98.5	70-130			
Xylenes (total)	59.0	0.50	"	60.0		98.3	70-130			
<i>Surrogate: a.a.a-Trifluorotoluene</i>	30.1		"	30.0		100	70-130			





Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA. 94568	Project: Tosco Project Number: Tosco # 6419 Project Manager: Doug Lee	Reported: 29-Nov-01 08:25
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**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
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**Batch 1K13001 - EPA 5030B P/T**

LCS (1K13001-BS2)										
Prepared & Analyzed: 14-Nov-01										
Benzene	17.0	0.50	ug/l	20.0		85.0	70-130			
Toluene	18.3	0.50	"	20.0		91.5	70-130			
Ethylbenzene	19.5	0.50	"	20.0		97.5	70-130			
Xylenes (total)	59.0	0.50	"	60.0		98.3	70-130			
<i>Surrogate o.o.a.-Trifluorotoluene</i>	30.3		"	30.0		101	70-130			

Matrix Spike (1K13001-MS1)										
Source: W111218-01 Prepared: 13-Nov-01 Analyzed: 14-Nov-01										
Benzene	16.9	0.50	ug/l	20.0	ND	84.5	70-130			
Toluene	18.1	0.50	"	20.0	ND	90.5	70-130			
Ethylbenzene	19.5	0.50	"	20.0	ND	97.5	70-130			
Xylenes (total)	59.4	0.50	"	60.0	ND	99.0	70-130			
<i>Surrogate o.o.a.-Trifluorotoluene</i>	28.9		"	30.0		96.3	70-130			

Matrix Spike Dup (1K13001-MSD1)										
Source: W111218-01 Prepared: 13-Nov-01 Analyzed: 14-Nov-01										
Benzene	17.1	0.50	ug/l	20.0	ND	85.5	70-130	1.18	20	
Toluene	18.5	0.50	"	20.0	ND	92.5	70-130	2.19	20	
Ethylbenzene	19.2	0.50	"	20.0	ND	96.0	70-130	1.55	20	
Xylenes (total)	59.0	0.50	"	60.0	ND	98.3	70-130	0.676	20	
<i>Surrogate o.o.a.-Trifluorotoluene</i>	28.8		"	30.0		96.0	70-130			





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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
29-Nov-01 08:25

## Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1K14004 - EPA 5030B (P/T)

Prepared & Analyzed: 12-Nov-01

#### Blank (1K14004-BLK1)

Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether (MTBE)	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	"							
<i>Surrogate: Dibromofluoromethane</i>	50.2		"	50.0		100	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.4		"	50.0		96.8	50-150			

Prepared & Analyzed: 14-Nov-01

#### Blank (1K14004-BLK2)

Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether (MTBE)	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	"							
<i>Surrogate: Dibromofluoromethane</i>	45.3		"	50.0		90.6	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.3		"	50.0		98.6	50-150			

Prepared & Analyzed: 12-Nov-01

#### LCS (1K14004-BS1)

Methyl tert-butyl ether (MTBE)	63.7	2.0	ug/l	50.0		127	70-130			
<i>Surrogate: Dibromofluoromethane</i>	49.9		"	50.0		99.8	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.6		"	50.0		95.2	50-150			





Gentler Ryan, Inc. - Dublin 6747 Sierra Court, Suite J Dublin, CA, 94568	Project: Tosco Project Number: Tosco # 6419 Project Manager: Doug Lee	<b>Reported:</b> 29-Nov-01 08:25
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1K14004 - EPA 5030B (P/T)</b>										
<b>LCS (1K14004-BS2)</b>										
Prepared & Analyzed: 14-Nov-01										
Methyl tert-butyl ether (MTBE)	46.0	2.0	ug/l	50.0		92.0	70-130			
Surrogate: Dibromofluoromethane	45.0		"	50.0		90.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	49.0		"	50.0		98.0	50-150			
<b>Matrix Spike (1K14004-MS1)</b>										
Source: W111167-05 Prepared & Analyzed: 14-Nov-01										
Methyl tert-butyl ether (MTBE)	65.4	2.0	ug/l	50.0	4.0	123	60-150			
Surrogate: Dibromofluoromethane	46.3		"	50.0		92.6	50-150			
Surrogate: 1,2-Dichloroethane-d4	48.4		"	50.0		96.8	50-150			
<b>Matrix Spike Dup (1K14004-MSD1)</b>										
Source: W111167-05 Prepared & Analyzed: 14-Nov-01										
Methyl tert-butyl ether (MTBE)	66.6	2.0	ug/l	50.0	4.0	125	60-150	1.82	25	
Surrogate: Dibromofluoromethane	45.8		"	50.0		91.6	50-150			
Surrogate: 1,2-Dichloroethane-d4	49.7		"	50.0		99.4	50-150			







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

Project: Tosco  
Project Number: Tosco # 6419  
Project Manager: Doug Lee

**Reported:**  
29-Nov-01 08:25

### Notes and Definitions

- DETECT 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



NO. 000385  
**TOSCO**

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100  
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673  
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342  
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: <u>Geller - Ryan Inc. 140101</u>		Project Name: <u>6401 Dublin BLVD.</u>	
Address: <u>6747 Sierra Ct. Suite J</u>		TOSCO Engineer (required) <u>David B. De Witt</u>	
City: <u>Dublin</u>	State: <u>CA</u>	Zip Code: <u>94568</u>	<u>W11197</u>
Telephone: <u>925-551-7555</u>		FAX #: <u>925-551-7888</u>	Site #, City, State: <u>6419, Dublin, CA</u>
Report To: <u>Doug Lee</u>	Sampler: <u>A. Smith</u>	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround Time: <input checked="" type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days <input type="checkbox"/> 2-8 Hours	<input type="checkbox"/> Drinking Water	Analyses Requested
<input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day	<input type="checkbox"/> Waste Water	
CODE: <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure	<input checked="" type="checkbox"/> Other	

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested							Comments
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	8-Oxy's By (220)	
1. TPW-1	11/12/01	H <sub>2</sub> O	5	VOAS	OIA-E	X	X	X				X	
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: <u>[Signature]</u>	Date: <u>11/12/01</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u>	Date: <u>11/12/01</u>	Time: <u>16:00</u>
Relinquished By: <u>[Signature]</u>	Date: <u>11/12/01</u>	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>11/12/01</u>	Time: <u>17:40</u>

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_      Page \_\_\_\_ of \_\_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client  
Yellow - Sequoia  
White - Sequoia



30 December, 2002

Dave Vossler  
Gettler-Ryan - Petaluma  
1364 N McDowell Blvd. Ste B2  
Petaluma, CA 94954

RE: Tosco 4619, Dublin, CA  
Sequoia Work Order: S212464

Enclosed are the results of analyses for samples received by the laboratory on 12/13/02 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew  
Client Services Representative

CA ELAP Certificate #1624



Gettler-Ryan - Petaluma  
1364 N McDowell Blvd. Ste B2  
Petaluma CA, 94954

Project: Tosco 4619, Dublin, CA  
Project Number: N/A  
Project Manager: Dave Vossler

S212464  
**Reported:**  
12/30/02 17:38

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	S212464-01	Water	12/12/02 16:45	12/13/02 17:00



Gettler-Ryan - Petaluma  
1364 N McDowell Blvd. Ste B2  
Petaluma CA, 94954

Project: Tosco 4619, Dublin, CA  
Project Number: N/A  
Project Manager: Dave Vossler

S212464  
**Reported:**  
12/30/02 17:38

**Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TPW-1 (S212464-01) Water</b> <b>Sampled: 12/12/02 16:45</b> <b>Received: 12/13/02 17:00</b>									
<b>Purgeable Hydrocarbons</b>	<b>79</b>	50	ug/l	1	2120425	12/26/02	12/26/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>130</b>	2.0	"	"	"	"	"	"	
<i>Surrogate: a, a, a-Trifluorotoluene</i>		107 %		60-140	"	"	"	"	



Gettler-Ryan - Petaluma  
1364 N McDowell Blvd. Ste B2  
Petaluma CA, 94954

Project: Tosco 4619, Dublin, CA  
Project Number: N/A  
Project Manager: Dave Vossler

S212464  
**Reported:**  
12/30/02 17:38

**Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2120425 - EPA 5030B (P/T)**

**Blank (2120425-BLK1)**

Prepared & Analyzed: 12/26/02

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	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>60-140</i>			

**Laboratory Control Sample (2120425-BS1)**

Prepared & Analyzed: 12/26/02

Benzene	9.34	0.50	ug/l	10.0		93	70-130			
Toluene	9.96	0.50	"	10.0		100	70-130			
Ethylbenzene	10.0	0.50	"	10.0		100	70-130			
Xylenes (total)	29.4	0.50	"	30.0		98	70-130			
Methyl tert-butyl ether	11.1	2.0	"	10.0		111	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>11.2</i>		<i>"</i>	<i>10.0</i>		<i>112</i>	<i>60-140</i>			

**Duplicate (2120425-DUP1)**

Source: S212602-10

Prepared & Analyzed: 12/26/02

Benzene	ND	0.50	ug/l		ND				50	
Toluene	ND	0.50	"		ND				50	
Ethylbenzene	ND	0.50	"		ND				50	
Xylenes (total)	ND	0.50	"		ND				50	
Methyl tert-butyl ether	ND	2.0	"		ND				50	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>8.40</i>		<i>"</i>	<i>10.0</i>		<i>84</i>	<i>60-140</i>			



Gottler-Ryan - Petaluma  
1364 N McDowell Blvd. Ste B2  
Petaluma CA, 94954

Project: Tosco 4619, Dublin, CA  
Project Number: N/A  
Project Manager: Dave Vossler

S212464  
**Reported:**  
12/30/02 17:38

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

No 007657  
**TOSCO**

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9800 • FAX (408) 782-6308
- 319 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- 1651 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612

Consultant Company: <u>Gettler-Ryan Inc. 140101.03</u>		Tosco Engineer: <u>David B. De Wit</u>	
Address: <u>1364 North Mc Dowell BLVD. Suite B3</u>		Site #: <u>4619</u>	
City: <u>Petaluma</u>	State: <u>CA</u>	Zip Code: <u>94954-1175</u>	Site Address: <u>6401 Dublin Blvd.</u>
Telephone: <u>707-789-3255</u>		City, State: <u>Dublin, CA</u>	
Fax #: <u>707-789-3218</u>		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	
Report To: <u>David Vossler</u>	Sampler: <u>Andrew Smith</u>		

Turnaround <input checked="" type="checkbox"/> 10 Work Days	<input type="checkbox"/> 5 Work Days	<input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Drinking Water
Time: <input type="checkbox"/> 2 Work Days	<input type="checkbox"/> 1 Work Day	<input type="checkbox"/> 2-8 Hours	<input type="checkbox"/> Waste Water
			<input checked="" type="checkbox"/> Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested						Comments	
						TPH (9) (815)	TPH Diesel (8015)	TO6 (418.1)	Drypenates (6) (250)	Oxyphenols (6) (250)	TPH (9) (815)		TPH Diesel (8015)
1. <u>TPW-1</u>	<u>12/12/02/1645</u>	<u>H<sub>2</sub>O</u>	<u>3</u>	<u>VOAS</u>	<u>5212461-01</u>	<input checked="" type="checkbox"/>							<u>* 8015/8021</u>
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													<u>found 11°C</u>
10.													

Relinquished By: <u>[Signature]</u>	Date: <u>12/13/02</u>	Time: <u>900</u>	Received By: <u>WHE SEG</u>	Date: <u>12/10/02</u>	Time: <u>1545</u>
Relinquished By: <u>[Signature]</u>	Date: <u>12/13/02</u>	Time: <u>1700</u>	Received By: <u>Michael Grinn</u>	Date: <u>12/13/02</u>	Time: <u>1700</u>
Relinquished By: <u>Michael Grinn</u>	Date: <u>12/16/02</u>	Time: <u>12:17</u>	Received By: <u>[Signature]</u>	Date: <u>12/16</u>	Time: <u>700</u>

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment: Truck      12 Page of 1045

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No      If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No      If no, what was the turnaround time? \_\_\_\_\_

Approved by: David J. Vossler      Signature: [Signature]      Company: GR      Date: 12-31-2002

Pink - Client  
Yellow - Sequoia  
White - Sequoia