TRANSMITTAL

TO: Mr. David B. De Witt

Tosco Marketing Company

2000 Crow Canyon Place, Suite 400

San Ramon, California

DATE:

November 20, 2000

PROJ. #:

140101.03

SUBJECT:

Status Report Tosco 76 Station No. 6419

6401 Dublin Boulevard Dublin, California

FROM:

Douglas J. Lee Project Manager Gettler-Ryan Inc. 6747 Sierra Court, Suite J Dublin, California 94568

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION	
1	November 20, 2000	Remedial Status Report	

THESE ARE TRANSMITTED as checked below:

[X] For revi	ew and comment	[] Approved as submitted	[] Resubmit_	_copies for approval

[X] As requested [] Approved as noted [] Submit _ copies for distribution

[] For approval [] Return for corrections [] Return __ corrected prints

[X] For Your Files

COMMENTS:

Enclosed is a copy of the status Report. If you have any questions, please call me at (925) 551-7555.

cc: Eva Chu - Alameda County Health Care Services

November 20, 2000

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

Subject:

Remedial Status Report for Tosco (76) Service Station No. 6419,

6401 Dublin Boulevard, Dublin, California.

Mr. De Witt:

At the request of Tosco Marketing Company (Tosco), Gettler-Ryan Inc. (GR) has prepared this report to document 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. In an effort to reduce these MTBE levels, Tosco arranged the installation of a four-inch diameter well in the UST pit backfill to access the groundwater beneath the site. Up to 5,000 gallons of groundwater have been purged from the UST pit backfill and disposed of weekly at the Tosco Refinery in Rodeo, California.

Background

The site is currently an operating 76 service station. Seven groundwater monitoring wells are present at the site and are monitored 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 persistent elevated concentrations of MTBE. In November 1999, a four-inch diameter, slotted poly-vinyl chloride (PVC) Tank Pit Well (TPW-1 on Figure 2) was installed in the gasoline UST pit backfill to allow purging of MTBE-impacted groundwater. Purging of TPW-1 was initiated in December 1999.

Groundwater Removal and Disposal

Groundwater was removed from the UST pit by Onyx Industrial Services (Onyx) of Benicia, California and transported to the Tosco 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 to August 21, 2000, approximately 129,800 gallons of groundwater were removed from the TPW-1. Groundwater removal volumes and purging dates are summarized in Table 1.

Groundwater Sampling

Groundwater from TPW-1 is periodically sampled and the samples submitted under Chain of Custody for analysis at Sequoia Analytical (ELAP No. 1271). Groundwater samples are analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg) by EPA Method 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020, and methyl tert-butyl ether (MtBE) by EPA Method

8020. The results have been used to document hydrocarbon concentration trends and comply with Tosco Refinery requirements. Sample dates and analytical results are summarized in Table 1.

Groundwater Analytical Data and MtBE Mass Removal

Six grab groundwater samples were collected from TPW-1 between November 17, 1999 and August 21, 2000. A total of 26 purging events were conducted from December 23, 2000 to August 21, 2000. For each purging event, an actimated mass of MTBE removed was collected. The estimated MTBE concentration for each mass removal calculation was formed by averaging the MTBE concentrations from the most recent grab groundwater samples (before and after the purging event). Based on this series of calculations for the 26 purging events, an estimated total of 110.60 pounds of MtBE have because the state of the purging of 129,800 gallons of groundwater through August 21, 2000. The estimated cumulative MTBE removed and the calculation method are presented in Table 1.

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 46,000 ppb on August 21, 2000. TPHg and benzene concentrations have decreased from 2,100 and 96 ppb on February 3, 2000, to not detected and 4.8 ppb on for both analytes on August 21, 2000. MTBE concentrations in groundwater samples from MW-1 have decreased from a high of 140,000 ppb on August 2, 1999 to 42,800 ppb on July 26, 2000. The most recent and historical groundwater analytical data for MW-1 are presented in GR's Second Semi-Annual 2000 Groundwater Monitoring and Sampling Report, dated October 14, 2000.

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 sampling results show a reduction in MTBE concentrations in monitoring well MW-1. As a result of the purging, Tosco has succeeded in removing an estimated 110.60 pounds of MtBE from groundwater beneath the site as of August 21, 2000. To continue reducing the MTBE mass in groundwater beneath the site, GR is proposing continued weekly groundwater removal from TPW-1. The recommended purging program is ongoing at this time.

W. Shys Mc Cut

If you have any questions regarding this report, please call us in our Dublin office at (925) 551-7555.

Sincerely,

Gettler-Ryan Inc.

W. Skip McIntosh

Staff Geologist

Douglas J. Lee

Project Manager, R. G. No. 6882

Attachments: Table 1. - Groundwater Removal and Analytical Data

Figure 1. Vicinity Map Figure 2. Site Plan

Figure 3., MTBE Concentration Vs. Cumulative Water Removed

No. 6882

OF CAL

Groundwater Sample Analytical Results

cc: Eva Chu, Alameda County Health Care Services Agency

Table 1 - Groundwater Removal and Analytical Data

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

Date Sampled	Purge Volume	Cumulative Purge Volume	MtBE Removed	Cumulative MtBE Removed	TPHg	Benzene	Toluene	Ethyl- Benzene	Xylenes	MtBE
or Purged	in Gallons	in Gallons	in Pounds	in Pounds	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
urged From T	ank Pit Well									
11/17/99		••			ND^1	ND^1	ND ¹	ND^1	ND	130,000
12/10/99					ND^1	32	ND^1	ND^1	ND^{1}	130,000
12/23/00	5,000	5000	5.21	5.21						
12/31/00	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					2100^{2}	96	240	ND^1	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	·				ND^1	ND^1	${ m ND}^1$	ND^1	ND¹	39,000
4/4/00	5,000	60,000	3.94	54.29						
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					ND	1.7	ND	ND	ND	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					ND^1	4.8	ND^1	ND^{i}	ND^1	46,000

Table 1 - Groundwater Removal and Analytical Data

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

EXPLANATION:

ANALYTICAL METHODS:

ppb = parts per billion ND = Not Detected --= Not Applicable 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:

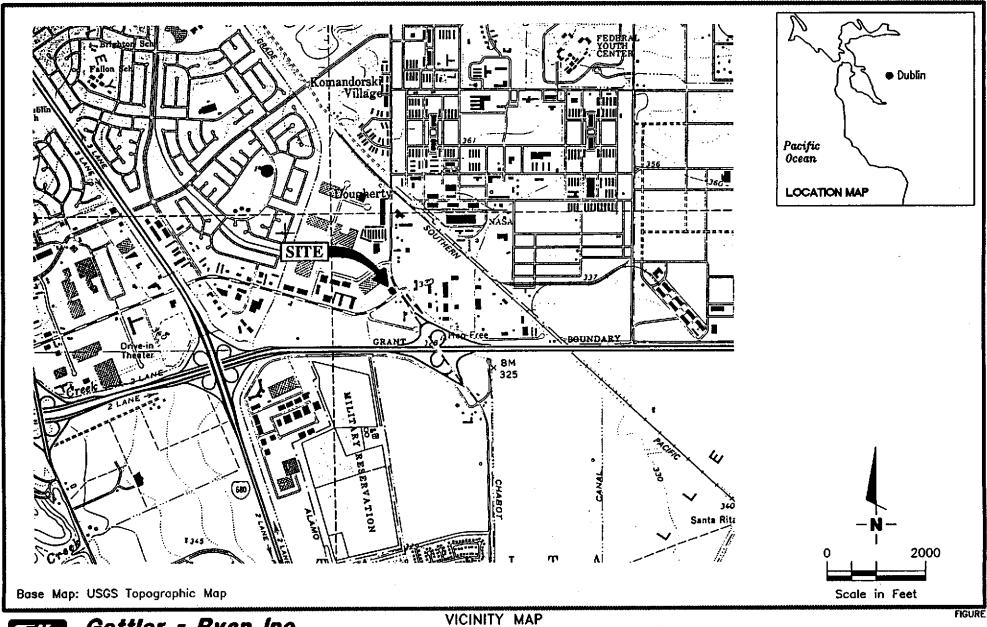
Sequoia Analytical (ELAP #1271 & 1210)

MtBE Removed (lbs.) = MtBE concentration (ppb) * gallons removed * 8.337lbs/gal H_2 0 / 1 x 10⁹ ppb

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

¹ = Elevated detection limit. See analytical report for detection limit.

² = Chromatogram pattern: Gasoline C6-C12



Gettler - Ryan Inc.

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

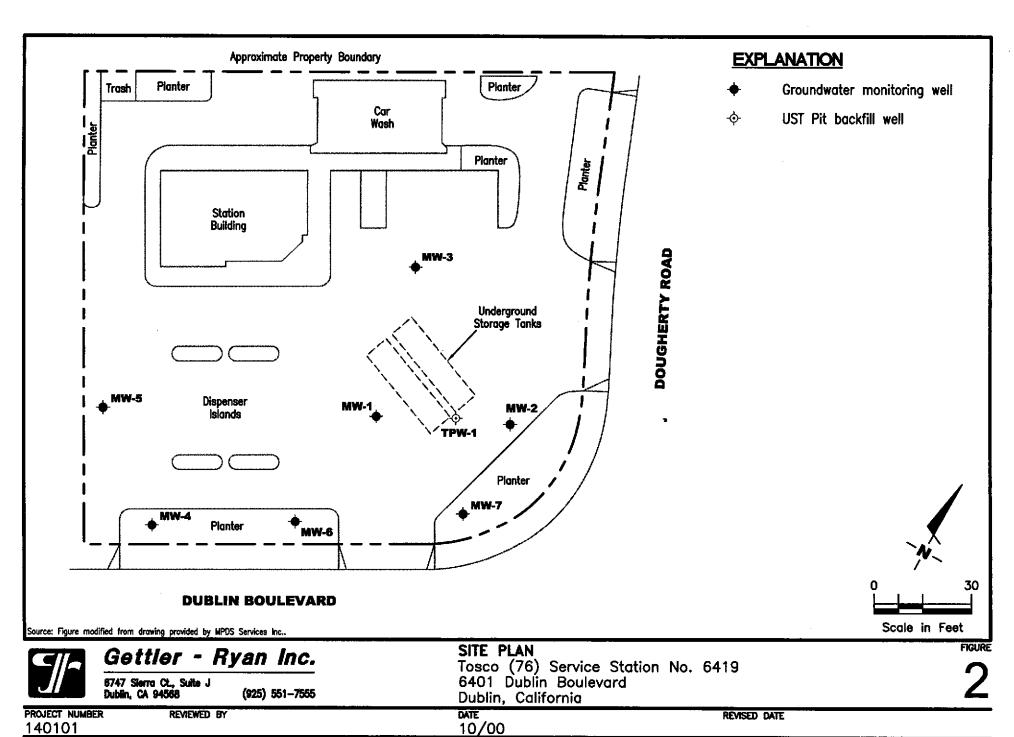
REVIEWED BY

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

REVISED DATE

JOB NUMBER 140101

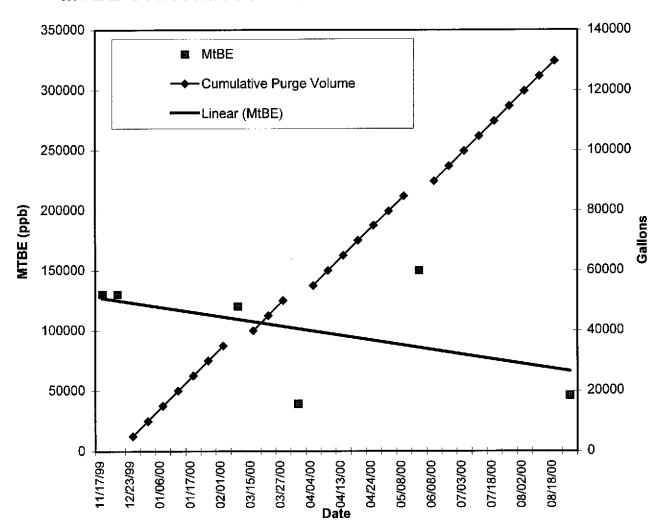
November, 1998



FILE NAME: P:\ENVIRO\TOSCO\6419\A00-6419.DWG | Layout Tab: Site Plan

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

MTBE Concentration Vs. Cumulative Water Removed



8 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 17-Nov-99 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley Prøject Manager



Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Report Revised: 08-Dec-99 12:44

Project Manager: Doug Lee

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W911451-01	Water	17-Nov-99 00:00	17-Nov-99 17:45

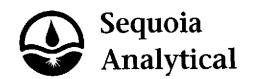
Sequoia Analytical - Walnut Creek

Inlianae Fegley, Project Manager

This report represents a revision of the original document. 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.

(23)





Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee

Report Revised: 08-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT Sequoia Analytical - Walnut Creek

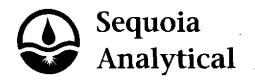
Analyte	Re Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W911451-01) Water	Sampled: 17-Nov-99 00:00	Receive	ed: 17-No	v-99 17:4:	5				
Methyl tert-butyl ether	130000	1000	ug/l	400	9K18002	18-Nov-99	19-Nov-99	DHS LUFT	
Purgeable Hydrocarbons	ND	10000	11	200	n .	**	Ħ	**	
Benzene	ND	100	- 10	•	H	"	rt	II.	
Toluene	ND	100	11	п	**	n	"	If	
Ethylbenzene	ND	100	"	n	#1	n	•	**	
Xylenes (total)	ND	100	н	*	tt			#	
Surrogate: a,a,a-Trifluorotoluene		100 %	70-	130	"	"	"	rr	

Seguoia Analytical - Walnut Creek

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Julianue Fegley, Project Manager





Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee

Report Revised:

08-Dec-99 12:44

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Sequoia Analytical - Walnut Creek

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hilianpe Pégley, Project Manager



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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

<u> </u>			
Sample ID	Laboratory ID	Matrix	Date Sampled
W-1	W 912275-01	Water	10-Dec-99 00:00
W-1	W912275-01	Water	10-Dec-99 14:00

Sequoia Analytical - Walnut Creek

lan B. Kemp Laboratory Director

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

Gettler Ryan, 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
W-1 (W912275-01) Water Sampl	led: 10-Dec-99 14:00	Received:	13-Dec-9	9 17:14			-		
Purgeable Hydrocarbons	ND	1000	ug/l	20	9L17001	17-Dec-99	17-Dec-99	EPA	
Benzene	32	10		10	n	"	Ħ	8015M/8020	
Toluene	ND	10	. н	н		n	н		
Ethylbenzene	ND	10	n	11	•		**		
Xylenes (total)	ND	10	Ħ	Ħ	11	•			
Surrogate: a,a,a-Trifluorotoluene		110 %	70-	130	17	4	и	rt .	
W-1 (W912275-01RE1) Water S	ampled: 10-Dec-99 1	4:00 Recei	ved: 13-I	ec-99 17:1	14				
Methyl tert-butyl ether	130000	2500	ug/l	1000	9L17001	17-Dec-99	17-Dec-99	EPA	
Surrogate: a,a,a-Trifluorotoluene		110 %	70-	130	,,	"	н	8015M/8020	

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of cust ody 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

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-9	9 17:14					
Mercury	ND	0.00020	mg/l	1	9L20017	20-Dec-99	21-Dec-99	EPA 7470A	
Antimony	ND	0.10	*	+ H	9L21020	21-Dec-99	30-Dec-99	EPA 6010	
Arsenic	ND	0.10	n		н	# L-1700-33	30-1066-33	EFA OUIU	4 01
Barium	0.12	0.010	n	*	u	n	*	tr	A-01
Beryllium	ND	0.010	n			17	н	**	
Cadmium	ND	0.010	u	н		n		**	
Chromium	0.020	0.010	77	19	**	77	**	"	
Cobalt	ND	0.010	lt .	н	m	**	11	**	
Copper	ND	0.010	n	,,	#	"		n	
Lead	0.040	0.020	11		**	11	,,		
Molybdenum	0.014	0.010	n	Ħ	u	#	н	"	
lickel	0.048	0.010	#	11	н		,,	H	
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hallium	ND	0.50			**	и	"		
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Sequoia Analytical - Walnut Creek

Alan B. Kemp Laboratory Director

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.

Page 3 of 11



Nº 000539

TOSCO

u оор Jarvis Drive • morgan Hill, UA 95037 • (408) 7/6-9600 • FAX (408) 7/62-6308
☐ 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
3 1551 Industrial Board & San Cades CA 04070 & (SEO) 202 0000 EAV (SEO) 202 0000

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Company:

Date:



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

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

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 S	ampled: 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	*	н	**	н	**	8015M/8020	
Toluene	240	10	-	*1	**	и	н	н	
Ethylbenzene	ND	10		н	a	н	#1	w	
Xylenes (total)	210	10	n	н	44		*	н	
Surrogate: a,a,a-Trifluorotoluen	16	85.3 %	70-	130	"	**	*	#	
CC-1 (W002083-01RE1) Wate	r Sampled: 03-Feb-00 0	8:15 Rece	ived: 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: a,a,a-Trifluorotoluen	ne	99.3 %	70-	130	и	#	"	8015M/8020	

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, Daboratory Director



Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Clyde Galantine

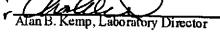
Reported: 14-Feb-00 08:01

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 E	PA 5030B [MeOH]			y - 1 .				
Blank (0B04003-BLK1)						7.7			······	
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	π							
Toluene	ND	0,50	**							
Ethylbenzene	ND	0.50	n							
Xylenes (total)	ND	0,50								
Methyl tert-butyl ether	ND	2.5	**							
Surrogate: a.a.a-Trifluorotoluene	29.6		"	30.0		98.7	70-130		.	
LCS (0B04003-BS1)										
Benzene	23.2	0.50	ug/i	20.0		116	70-130			
Toluene	23.6	0.50	n	20.0		118	70-130			
Ethylbenzene	23.8	0.50	**	20.0		119	70-130			
Xylenes (total)	68.9	0.50	11	60.0		. 115	70-130			
Surrogate: a.a.a-Trifluorotoluene	29.3		- "	30.0		97.7	70-130			
Matrix Spike (0B04003-MS1)					Source: W	V002098-)9			
Benzene	20.5	0.50	ug/l	20.0	ND	103	70-130	<u>-</u>		
Toluene	21.1	0.50	n	20.0	ND	106	70-130			
Ethylhenzene	21.4	0.50		20.0	ND	107	70-130			
Xylenes (total)	62.3	0.50	n	60.0	ND	104	70-130			
Surrogate: a.a.a-Triftuorotoluene	28.1		11	30.0		93.7	70-130			
Matrix Spike Dup (0B04003-MSD1)					Source: W	/002098-0	9			
Benzene	21.2	0.50	ug/l	20.0	ND	106	70-130	3.36	20	
Toluene	21.4	0.50	77	20.0	ND	107	70-130	1.41	20	
Ethylhenzene	21.4	0.50	*	20.0	ND	107	70-130	O	20	
Xylenes (total)	61.5	0.50	•	60,0	ND	103	70-130	1.29	20	
Surrogate: a,a,a-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.





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

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



TOUMUU ...

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☐ 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

Time: 6 2 Work Days							- C	un Dai	iua, U	~ 34U	ים) ביטי	OU) 232-1	UUOE	FAX (650) 23	2-9612	美国在籍的
Tosco Engineer (required) Dave De Litt State: CA Zip Code: 945-46 Telephone: (92) 551-7555 FAX #: 725 551-7555 Report To (ILLe Calcutine) Sampler: Clycle Calcutine 2 Work Days 3 Deloritine 3 Work Days 3 Deloritine 3 Work Days 3 Deloritine 4 Waste Water 3 Deloritine 4 Waste Water 3 Sequoiat's 4 Waste Water 5 Sequoiat's 5 Sequoiat's 6 Sequoiat's 6 Sequoiat's 6 Sequoiat's 6 Sequoiat's 6 Sequoiat's 7 Sequoiat's 7 Sequoiat's 8 Sequoiate's 9 Sequoiate's 8 Sequoiate's 8 Sequoiate's 8 Sequoiate's 9 Sequoiate's 9 Sequoiate's 9 Sequoiate's 9 Sequoiate's 1 Waste Water	Consultant Company	Gettler-K	yau	Inc	ICH							-					THE STATE OF THE S
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Telephone: 425 SS-7555 FAX #: 425 SS-7885 Sile #, City, State: 4647 Oublin CA Report To Clade Calcatine Sampler: Clade Calcatine October Oc	City: Dablin	State:	CA		Zip Code:	94546				<u> </u>		10	Tes	220	193	<u>/</u>	
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under the second se	Approved by:											ii Ouria (ir	1167			Date	



14 April, 2000

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

RE: Tosco Sequoia Report W003669

Enclosed are the results of analyses for samples received by the laboratory on 29-Mar-00 18:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

-Alan B. Kemp Laboratory Director

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: 14-Apr-00 11:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W003669-01	Water	28-Mar-00 14:29	29-Mar-00 18:35

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.



Gettler Ryan, Inc. - Dublin

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee

Reported: 14-Apr-00 11:15

6747 Sierra Court Suite J Dublin CA, 94568

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

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W003669-01) Water	Sampled: 28-Mar-00 14:29	Receiv	ed: 29-N	1ar-00 18:	35				
Purgeable Hydrocarbons	ND	5000	ug/l	100	0D05003	05-Apr-00	05-Apr-00	EPA 8015M/8020	
Benzene	ND	50	11	-	н	н	Ħ	"	
Toluene	ND	50	n	**	н	II .	H	tt.	
Ethylbenzene	ND	50		Ħ	Ħ	*	**	#	
Xylenes (total)	ND	50		n	n	41	Ħ	11	
Methyl tert-butyl ether	39000	250	н	**			н	n	
Surrogate: a,a,a-Trifluorotolue	ne	103 %	70	-130	н	"	"	~	



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

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 14-Apr-00 11:15

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 0D05003 - EPA 5030B [P/T]				250 / 02	1100011					
Blank (0D05003-BLK1)			 	Prepared	& Analyz	ed: 05-An	r_00			
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	ti Ti							
Foluene	ND	0.50	н							
Ethylbenzene	ND	0.50	н							
Kylenes (total)	ND	0.50	n							
Methyl tert-butyl ether	ND	2.5	-							
Surrogate: a,a,a-Trifluorotoluene	30.3		"	30.0		101	70-130			
LCS (0D05003-BS1)				Prepared	& Analyz	ed: 05-Ap	r-00			
Benzene	20.1	0.50	ug/l	20.0		101	70-130		•	
l'ohiene	20.2	0.50	n ,	20.0		101	70-130			
Ethylbenzene	20.3	0.50	**	20.0		101	70-130			
Cylenes (total)	58.5	0.50	н	60.0		97.5	70-130			
Surrogate: a,a,a-Trifluorotoluene	29.5		В	30.0		98.3	70-130			
Matrix Spike (0D05003-MS1)	So	urce: W0036	89-05	Prepared	& Analyz	ed: 05-Ap:	r-00			
Benzene	21.1	0.50	ug/l	20.0	ND	106	70-130			
Coluene	21.3	0.50	"	20.0	ND	106	70-130			
Ethylbenzene	21.8	0.50	Ħ	20.0	ND	109	70-130			
(ylenes (total)	62.4	0.50	н	60.0	ND	104	70-130			
urrogate: a,a,a-Trifluorotoluene	29.6		"	30.0		98.7	70-130			
Matrix Spike Dup (0D05003-MSD1)	Se	urce: W0036	Prepared	& Analyz	ed: 05-Ap	r-00				
Benzene	20.2	0.50	ug/l	20.0	ND	101	70-130	4.36	20	
Coluene	20.5	0.50	u	20,0	ND	103	70-130	3.83	20	
Ethylbenzene	22.3	0.50	44	20.0	ND	111	70-130	2.27	20	
Kylenes (total)	58.5	0.50	**	60.0	ND	97.5	70-130	6.45	20	
urrogate: a, a, a-Trifluoratoluene	31.3		#	30.0		104	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:

14-Apr-00 11:15

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 000875

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
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Consultant Company:	Gettler	2 - 12	VA	J For	<u> </u>	Proje	ct Name);	64	F01	Do	bla	J A	BLVE		
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Report To:	107	Sample	r: <u> </u>	, Pois		Г)ata: C		D (Stan	idard)	☐ Lev	el C	□ Le	vel B	□ Level	A
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12 June, 2000

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

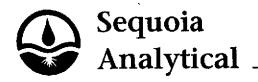
RE: Tosco Sequoia Report W005773

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

Charlie Westwater, Project Manager

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



Gettler Ryan, 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	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W005773-01) Water	Sampled: 31-May-00 12:30	Receiv	ed: 31-N	1ay-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	•	7	**	Ħ	*	=	
Toluene	ND	0.50	•				-	*	
Ethylbenzene	ND	0.50	*	н .		9	-	•	
Xylenes (total)	ND	0.50	n	*	#	#	n	Ħ	
Methyl tert-butyl ether	150000	2500		1000		**	05-Jun-00	H	
Surrogate: a,a,a-Trifluorotolue	ne	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	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W005773-01) Water	Sampled: 31-May-00 12:30	Receiv	ved: 31-M	ay-00 17:0	Ю				
Corrosivity Ignitability by Flashpoint	6.90 ND	0.100 10	pH units °C	1	0F05006 0F01007	31-May-00 01-Jun-00	31-May-00 01-Jun-00	EPA 9045B EPA 1010	F-01

Nº 000899 TOSCO

LI 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 775-9500 • FAA (408) 782-0300 ☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (918) 921-0100 1404 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 CI 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

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Consultant Company:	Gettler	<u>- Rya</u>	11	1401	01.03	Project				كنت	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	64		1.7	dh
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City: D. W.	State:	CA		Zip Code:	94568			U		<i>75</i>	77	5	, ,		
Telephone: (925) S	SINTEE		FAX #:(125)55	1-7888	Site #,	City, St	ate:	46	419		Du	blir	CA	
Report To: Daug L		Sample	/		alantine	QC Dat	a: 🗅	Level	D (Stan	darđ)	O Le	vel C	ات	evel B	□ Level A
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Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample A	R	Per Street	FER BOOK	EN EN	ON BERT WOLF	See	Con /	Serve Contraction of the Contrac	_	Commen
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Relinquished By:	THISTIC LOL	<u> </u>	Dat		Time:		beviec	Ву:	- 4	M	- (an	ارد	Date:	5/31/	Time: /7
Were Samples Received	in Good Condition	? 🗆 Yes	□ No	Sa	mples on Ice:	7 D Yes	D No	Met	od of S	Shipme	nt		<u> </u>		Page of
To be completed upon 1) Were the ana	lyses requested o	on the Ch	ain of C	ustody repo		Yes ⊡ No	lo li	f no, w	hat an was ti	alyses he turr	are st	ill nec d time	ded?		
2) Was the repo	rt issued within th	e reques	rea mu		; <u> </u>			Co	тралу	34 miles					Date:
TANKIKIVELLIV.			·												



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

Charlie Westwater, Project Manager

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





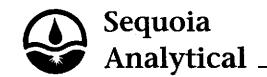
Gettler Ryan, Inc. - Dublin

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	Note
TPW-1 (W008471-01) Water Sam	pled: 21-Aug-00 13:0	7 Receive	ed: 21-A	ug-00 16:2:	5				
Purgeable Hydrocarbons	ND	130	ug/l	2.5	0Н30003	30-Aug-00	30-Aug-00	EPA 8015M/8020	
Benzene	4.8	1.3	1.3 " "		**	•	"	н	
Toluene	ND	1.3	H	н	я	#	**	Ħ	
Ethylbenzene	ND	1.3	1.3 " "		Ħ	71	H	H	
Xylenes (total)	ND	1.3	1.3 " "		*	"		•	
Surrogate: a,a,a-Trifluorotoluene		89.7%	7 % 70-130		#	#	,,	n	
TPW-1 (W008471-01RE1) Water	Sampled: 21-Aug-00	13:07 Re	ceived: 2	21-Aug-00	16:25				
Methyl tert-butyl ether	46000	500	ug/l	200	0H30003	30-Aug-00	30-Aug-00	EPA 8015M/8020	
Surrogate: a,a,a-Trifluorotoluene		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
Batch 0H30003 - EPA 5030B [P/T]										
Blank (0H30003-BLK1)	Prepared & Analyzed: 30-Aug-00									
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	н							
<u> Toluene</u>	ND	0.50	*							
Ethylbenzene	ND	0.50	91							
Xylenes (total)	ND	0.50	H							,
Methyl tert-butyl ether	ND	2.5	*							
Surrogate: a,a,a-Trifluorotoluene	29.5		п	30.0		98.3	70-130	· .		 -
LCS (0H30003-BS1)				Prepared	& Analyz	ed: 30-Au	g-00			
Benzene	19.3	0.50	ug/l	20.0		96.5	70-130		· -t	
Toluene Toluene	19.4	0.50	#	20.0		97.0	70-130			
Ethylbenzene	19.6	0.50	Ħ	20.0		98.0	70-130			
Xylenes (total)	56.9	0.50	4	60.0		94.8	70-130			
Surrogate: a, a, a-Trifluorotoluene	29.0		и	30.0		96.7	70-130			
Matrix Spike (0H30003-MS1)	So	urce: W0084	73-02	Prepared	& Analyz	ed: 30-Au	g-00			
Benzene	18.2	0,50	ug/l	20.0	ND	91.0	70-130			
l'oluene	18.2	0.50	#	20.0	ND	91.0	70-130			
Ethylbenzene	18.4	0.50	•	20.0	ND	92.0	70-130			
Kylenes (total)	52.9	0.50	•	60.0	ND	88.2	70-130			
urrogate: a,a,a-Trifluorotoluene	29.1		*	30.0		97.0	70-130			
Matrix Spike Dup (0H30003-MSD1)	So	Source: W008473-02			& Analyzo	ed: 30-Au;	g -0 0			
Benzene	18.4	0.50	ug/l	20.0	ND	92.0	70-130	1.09	20	
Coluene ·	18.5	0.50	H	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	
(ylenes (total)	53.6	0.50	Ħ	60.0	ND	89.3	70-130	1.31	20	
urrogate: a,a,a-Trifluorotoluene	28.1		π	30.0		93.7	70-130			

Nº 002007

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

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Relinquished By:			Date	e:	Time:	Received By: Date: 4/21/6 Time:							16:25				
Were Samples Received	in Good Condition	? 🗆 Yes	□ No	Sai	nples on ice?	C) Yes	□ No	Meth	od of S	hipmen	t				Page	_ of	-
	on receipt of repor lyses requested of the receipt in the receipt	on the Cha				∕es □ l □ No			hat and was th						<u>-</u> <u> </u>	· · · · · · · · · · · · · · · · · · ·	,
Approved by:	wed by: Signature:							Company: Date:									





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