Reid May 17,2002

May 14, 2002 Project No. 06TO.03996.00 SECOR
International Incorporated

Ms. Eva Chu Hazardous Materials Specialist Alameda County Environmental Health Services Department 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

GROUNDWATER MONITORING WELL INSTALLATION, TOSCO SERVICE STATION NO. 7124, 10151 EAST 14^{TH} STREET, OAKLAND, CALIFORNIA

Dear Ms. Chu,

SECOR International Incorporated (SECOR) is pleased to submit this Letter Report on behalf of Tosco Corporation (Tosco), a subsidiary of Phillips 66 Company (Phillips), describing recently completed groundwater monitoring well installation activities at Tosco Service Station No. 7124, located at 10151 East 14th Street in Oakland, California (the Site, see Figure 1). This Letter Report is submitted to the Alameda County Environmental Health Services Department (ACEHSD) and describes the activities performed during the installation of four groundwater-monitoring wells. The work described herein was performed in response to the ACEHSD letter dated January 30, 2002 approving the installation of the four monitoring wells to verify groundwater flow direction and to assess the extent of petroleum hydrocarbons and methyl tertiary butyl ether (MtBE) previously detected in soil beneath the Site during station upgrade activities.

BACKGROUND

The Site is currently an active Tosco Service Station located on the northwestern corner of the intersection of 14th Street and 102nd Avenue in Oakland, California. Site facilities include three underground storage tanks (USTs), and associated piping and fuel dispensers.

On March 22, 2000, SECOR supervised the removal and replacement of product lines and dispensers by Balch Petroleum (Balch) of Milpitas, California. Soil samples collected from beneath the dispensers and product lines revealed the presence of total petroleum hydrocarbons as gasoline (TPHg) at a maximum concentration of 6,200 milligrams per kilogram (mg/kg), MtBE at a maximum concentration of 120 mg/kg, and benzene at a maximum concentration of 7.4 mg/kg. Excavation and sampling activities were observed and approved by Inspector Gomez of the City of Oakland Fire Services Agency (COFSA).

On March 27, 2000, SECOR observed the over-excavation of approximately 60 cubic yards of soil from the beneath those portions of the dispensers and product lines where previously collected soil samples revealed elevated concentrations of petroleum hydrocarbons. Areas measuring approximately 8 to 10 feet long by 8 to 10 feet wide were over-excavated to an approximate depth of 8 feet below ground surface (bgs) in each of these areas. Additional over-excavation in these areas was not possible due to their proximity to the footings of the service station canopy. TPHg was detected in 2 of the 3 samples at a maximum concentration of 108 mg/kg, benzene was detected in 1 of the 3 samples at a maximum concentration of 0.162 mg/kg, and MtBE was detected in all 3 samples at a maximum concentration of 43.8 mg/kg. Lead was not detected at or above laboratory reporting limits in any samples.

SCOPE OF WORK

Task 1 - Preliminary Field Activities

Prior to conducting the investigation, SECOR obtained groundwater monitoring well installation permits from the Alameda County Public Works Department (ACPWD). A Site-specific Health and Safety Plan (HASP) was prepared for use by personnel implementing the Work Plan. The HASP addressed the proposed Work Plan activities, and a copy of the HASP was available on-site at all times. The subcontractor performing the field activities was provided with a copy of the HASP prior to initiating work.

Prior to mobilization, SECOR marked the proposed monitoring well locations, contacted Underground Service Alert (USA) 48 hours in advance, and utilized SECOR's Borehole Clearance Checklist to clear the proposed monitoring well locations of subsurface obstructions. In addition, SECOR contracted a private utility locator (Cruz Brothers Subsurface Utility Locators) to clear subsurface utilities prior to drilling.

Task 2 - Field Investigation

Groundwater Monitoring Well Installation

On February 28 and March 1, 2002, SECOR supervised the installation of four groundwater monitoring wells at the locations depicted on Figure 2. Subsequent to hand augering each boring location to a minimum of 5 feet bgs, the well borings were advanced to 26.5 feet bgs by Woodward Drilling (Woodward) of Rio Vista, California using truck-mounted hollow-stem augers under the supervision of a SECOR field geologist, and under the direction of a State of California Registered Geologist. Soil samples were collected at 5-foot intervals using a split spoon sampler lined with two-inch diameter by six-inch-long brass tubes. The borings were periodically monitored for odor, staining, volatile organic compounds (VOCs) using a photo-ionization detector (PID), color, grain size, and moisture content of the soil collected from the borings. Observations were recorded onto boring logs, which are attached as Appendix A. Each sample for possible chemical analysis was collected in 1 ½ inch diameter six-inch long brass tubes, covered at each end with TeflonTM sheeting, capped with plastic end caps, labeled, and placed in an ice-filled cooler for preservation.

After the wellbores were advanced to desired depths, monitoring wells MW-1 through MW-4 were constructed with four-inch diameter, flush threaded Schedule 40 PVC well casings. The wells were each completed to a total depth of 25 feet bgs with 15 feet of 0.020-inch slotted screen placed between 10 and 25 feet bgs to intercept the water-bearing interval. All wells were completed to ground surface with Schedule 40 blank PVC casing. Monterey #3 sand was placed into the annular space adjacent to the well screens and was installed to approximately two feet above the top of the well screens. Two feet of bentonite pellets were placed above the sand, followed by a 5 to 10% bentonite-cement mixture to ground surface. Table 1 presents a summary of well construction details.

The wellheads were completed at ground surface with locking well caps and traffic-rated, bolt-down Christy boxes. The Christy boxes were installed slightly above the surrounding grade and finished with cement aprons to provide positive relief away from the wellheads. A California-licensed land surveyor then surveyed the wellheads with respect to mean sea level (msl) (see Appendix A for survey data). The wellhead elevations were measured from an existing permanent monument, and compared with depth to groundwater measurements to calculate groundwater elevation above msl as well as a groundwater flow

direction and gradient.

Gettler-Ryan Incorporated (GR) of Dublin, California developed the wells by alternately swabbing and surging each well using a surge block, removing 10 casing volumes of water from the wells by pumping and/or bailing, and monitoring the removed water for parameters such as pH, turbidity, temperature, and conductivity (Appendix A). After developing each well, GR collected one groundwater sample using a dedicated disposable bailer, decanting the groundwater directly into laboratory-supplied glassware.

Selected soil samples and one groundwater sample from each well were submitted for analysis to Sequoia Analytical (Sequoia) of Morgan Hill, California, a California-certified analytical laboratory, under Chain-of-Custody protocol. The soil samples were analyzed for the following compounds: Gasoline Range Organics (GRO), BTEX compounds (benzene, toluene, ethylbenzene, and total xylenes), and eight fuel oxygenates (including MtBE) by EPA Method 8260. The groundwater samples were analyzed for the following compounds: TPHg, BTEX compounds, and MtBE by EPA method 8015 / 8020.

Decontamination and Material Containment

To minimize the potential for cross-contamination between boreholes and sampling locations, all non-disposable down-hole drilling and soil sampling equipment was thoroughly decontaminated prior to initiating work between sampling locations with a low-phosphorous soap solution and double rinsed in potable and deionized water. All drilling equipment was steam cleaned prior to use at each boring location. Soil cuttings generated during drilling activities were temporarily stored in 55-gallon drums on-site pending the results of chemical analysis. Upon receipt of analytical results, the waste was profiled and transported by Den Beste Trucking (DBT) of Windsor, California. The waste materials were profiled with Forward Landfill of Manteca, California, a State-certified disposal facility, and disposed as non-hazardous waste under a bill of lading.

SUBSURFACE CONDITIONS

Stratigraphy and Hydrogeology

The Site investigation activities encountered clayey and sandy silts from approximately 1 to 15 feet bgs. Silty clays were encountered from approximately 10 to 26.5 feet bgs, the total depth explored. Interbedded lenses of silt were also encountered within the silty clays.

Consistency of encountered soils was generally loose to very stiff. Groundwater was encountered at depths between 17 and 21 feet bgs. The estimated groundwater flow is to the west at an approximate gradient of 0.015 ft/ft. Table 2 presents groundwater elevations. Figure 3 depicts groundwater flow direction.

Soil Analytical Results

Unsaturated soil samples were submitted to Sequoia on February 28 and March 1, 2002 for chemical analysis. Soil analytical results are presented in Table 3, and the Certified Analytical Reports and Chain-of-Custody documentation are included in Appendix B. GRO were detected in wellbores MW-2, MW-3, and MW-4 at a maximum concentration of 42 mg/kg at a depth of 16 feet bgs in wellbore MW-3. MtBE was detected in the said wellbores at a maximum concentration of 1.2 mg/kg at a depth of 16 feet bgs in wellbore MW-3. Trace concentrations of ethylbenzene and total xylenes were also detected in wellbore MW-3 at a depth of 16 feet bgs.

Groundwater Analytical Results

Groundwater samples were submitted to Sequoia by GR on April 8, 2002 for chemical analysis. Groundwater analytical results for wells MW-1 through MW-4 are presented in Table 4, and Certified Analytical Reports and Chain-of-Custody documentation are included in Appendix B. TPHg were detected in monitoring wells MW-2 through MW-4 at a maximum concentration of 13,000 micrograms per liter (µg/L) in well MW-4. Benzene was detected at 65 µg/L in well MW-3, and ethylbenzene was detected in wells MW-2 through MW-4, with a maximum concentration of 400 µg/L in well MW-3. Toluene and total xylenes were not detected above laboratory method detection limits (LMDLs) in any of the wells. MtBE was detected in wells MW-2 through MW-4 at a maximum concentration of 8,300 µg/L in well MW-3. Other fuel oxygenates were not detected above the corresponding LMDLs.

SUMMARY AND CONCLUSIONS

- SECOR supervised the installation of four groundwater monitoring wells (MW-1 through MW-4) at the Site. Soil and groundwater samples were collected and chemically analyzed to characterize potential hydrocarbon and fuel oxygenate impact in the subsurface of the Site.
- GRO were detected in soil samples collected from three of the four borings at a maximum concentration of 42 mg/kg in wellbore MW-3. BTEX compounds were detected in wellbore MW-3 at maximum concentrations of 0.36 and 0.26 mg/kg in wellbore MW-3. MtBE was detected in three of the four borings at a maximum concentration of 1.2 mg/kg in wellbore MW-3. Other fuel oxygenates were not detected above LMDLs.
- TPHg, benzene, ethylbenzene, and MtBE were detected in three of the four monitoring wells at maximum concentrations of 13,000 μ g/L, 65 μ g/L, 400 μ g/L, and 8,300 μ g/L, respectively.

RECOMMENDATIONS

- Monitoring of the newly-installed wells should commence on a quarterly basis, and results should be included in future Quarterly Groundwater Monitoring Reports.
- SECOR recommends analyzing groundwater samples for TPHg, BTEX compounds, and MtBE (including other fuel oxygenates) by EPA Methods 8015, 8021, and 8260, respectively.

We greatly appreciate the opportunity to submit this Letter Report on behalf of Tosco and trust that this document meets with your approval. Please do not hesitate to contact us at 650-691-0131 with any questions or comments.

Sincerely,

SECOR International Incorporated

Forrest McFarland Senior Staff Geologist Jack C. Hardin Principal

Attachments:

Table 1 – Summary of Monitoring Well Construction Details

Table 2 – Summary of Groundwater Elevations

Table 3 – Soil Analytical Results

Table 4 - Groundwater Analytical Results

Figure 1 – Site Location Map

Figure 2 – Site Plan with Monitoring Well Locations

Figure 3 – Potentiometric Map

Appendix A - Soil Boring and Well Construction Logs, Survey Data, and Well Development Field Data Sheets

Appendix B – Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. David B. DeWitt, Phillips 66 Company

TABLE 1 SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS

Tosco Service Station No. 7124 10151 E. 14th Street Oakland, California

Well Number	Date Installed	Depth of Boring (ft bgs)	Depth of Well (ft bgs)	Casing Diameter (in)	Screened Interval (ft bgs)	Well Head Elevation	Groundwater Elevation	First Encountered Groundwater (ft bgs)	Stabilized Groundwater (ft bgs)	Interval of Cement/Grout (ft bgs)	Interval of Benonite Seal (ft bgs)	Interval of Sand Pack (ft bgs)
MW-1	2/28/02	26.5	25	4	10.0-25.0	37.73	22.37	17	15	0 - 6	6.0 - 8.0	8.0 - 26.5
MW-2	3/1/02	26.5	25	4	10.0-25.0	38.27	19.37	18.5	18.5	0-6	6.0 - 8.0	8.0 - 26.5
MW-3	2/28/02	26.5	25	4	10.0-25.0	38.03	21.72	17	16	0 - 6	6.0 - 8.0	8.0 - 26.5
MW-4	3/1/02	26.5	25	4	10.0-25.0	38.77	20.36	21	18	0-6	6.0 - 8.0	8.0 - 26.5

Abbreviations:

ft bgs = feet below ground surface in = inches (ft BTOC) = feet below top of casing

* Bentonite backfilled from 45-50

TABLE 2 SUMMARY OF GROUNDWATER ELEVATIONS

Tosco Service Station No. 7124 10151 E. 14th Street Oakland, California

Well Number	Date	Top of Casing Elevation (ft msl)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft msl)
MW-1	4/8/02	37.37	14.27	23.10
MW-2	4/8/02	37.87	15.86	22.01
MW-3	4/8/02	37.72	15.86	21.86
MW-4	4/8/02	38.36	16.59	21.77

Abbreviations:

ft BTOC = feet below top of casing

ft msl = feet above mean sea level

TABLE 3 SOIL ANALYTICAL RESULTS

Tosco Service Station No. 7124 10151 E. 14th Street Oakland, California

Well ID	Sample Depth (ft bgs)	Date Collected	GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MtBE	TAME	EtBE	DIPE	TBA	EDB	1,2-DCA	Ethanol
MW-1	6.5'	2/28/02	<5.0	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-1	16.5'	2/28/02	<5.0	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-1	26.5	2/28/02	<5.0	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-2	6.5'	3/1/02	<5.0	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-2	16.5'	3/1/02	<5.0	<0.050	<0.050	<0.050	<0.050	0.085	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-2	26.5'	3/1/02	16	<0.050	<0.050	<0.050	<0.050	0.16	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-3	6.0'	2/28/02	<5.0	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-3	16.0'	2/28/02	42	<0.20	<0.20	0.36	0.26	1.2	<0.10	<0.10	<0.10	<2.0	<0.10	<0.10	<20
MW-3	26.5'	2/28/02	<5.0	<0.050	<0.050	<0.050	<0.050	0.23	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-4	6.5'	3/1/02	5.6	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-4	11.5'	3/1/02	<5.0	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0
MW-4	26.5'	3/1/02	<5.0	<0.050	<0.050	<0.050	<0.050	0.028	<0.025	<0.025	<0.025	<0.50	<0.025	<0.025	<5.0

Notes:

(1) all concentrations are reported in milligrams per kilogram (mg/kg)

Abbreviations:

ft bgs = feet below ground surface

GRO = gasoline range organics

MtBE = Methyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

EtBE = Ethyl tertiary butyl ether

DIPE = Di-isopropyl ether

TBA = Tertiary butyl alcohol

EDB = Ethylene dibromide

1,2-DCA = 1,2-Dichloroethane

< 1.0 = Not detected above specified laboratory reporting limit

TABLE 4 GROUNDWATER ANALYTICAL RESULTS

Tosco Service Station No. 7124 10151 E. 14th Street Oakland, California

Monitoring Well	Date Collected	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MtBE	TAME	EtBE	DIPE	ТВА	1,2-DBA	1,2-DCA	Ethanol
MW-1	4/8/02	<50.0	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ³	<2.0	<2.0	<2.0	<100	<2.0	<2.0	<500
MW-2	4/8/02	4,400	<2.5	<2.5	6.4	<2.5	380/490 ³	<40	<40	<40	<2,000	<40	<40	<10,000
MW-3	4/8/02	8,700	65	<25	400	<25	6,500/8,300 ³	<1,000	<1,000	<1,000	<50,000	<1,000	<1,000	<250,000
MW-4	4/8/02	13,000	<5.0	<5.0	28.0	<5.0	790/980 ³	<100	<100	<100	<5,000	<100	<100	<25,000

Notes:

- (1) all concentrations are reported in micrograms per liter
- (2) TPHg, BTEX, and MtBE by EPA Methods 8015 and 8020
- (3) MtBE confirmatory value by EPA Method 8260

Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

MtBE = Methyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

EtBE = Ethyl tertiary butyl ether

DIPE = Di-isopropyl ether

TBA = Tertiary butyl alcohol

1,2-DBA = 1,2-Dibromoethane

1,2-DCA = 1,2-Dichloroethane

< 50.0 = Not detected above specified laboratory reporting limit

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP NEWARK, CALIFORNIA (1959, PHOTOREVISED 1980)



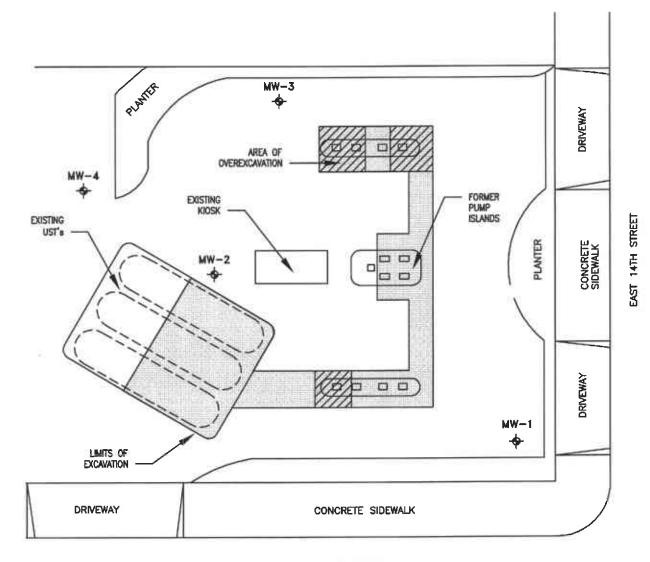
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FIGURE 1
TOSCO (FORMER BP OIL)
SERVICE STATION NO. 11113
35425 NEWARK BOULEVARD
NEWARK, CALIFORNIA

SITE LOCATION MAP



102ND STREET

LEGEND:

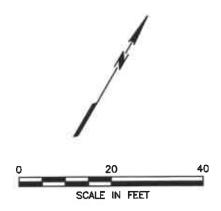


MONITORING WELL LOCATION



EXCAVATION AREA

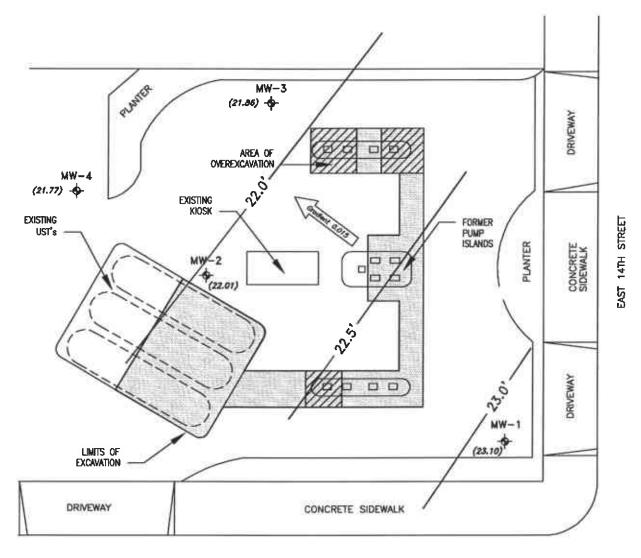
AREA OF OVEREXCAVATION



SECOR
International Incorporated

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FIGURE 2
TOSCO (UNOCAL) SS #7124
10151 EAST 14th STREET
OAKLAND, CALIFORNIA
SITE PLAN WITH
MONITORING WELL LOCATIONS



102ND AVENUE

LEGEND:

MW-1

MONIT

MONITORING WELL LOCATION

(22.01)

GROUNDWATER ELEVATION ABOVE MEAN SEA LEVEL IN FEET



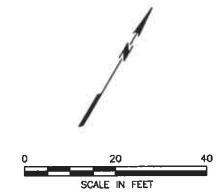
GROUNDWATER FLOW DIRECTION & GRADIENT (FT/FT)



EXCAVATION AREA

W

AREA OF OVEREXCAVATION



SECOR
International Incorporated

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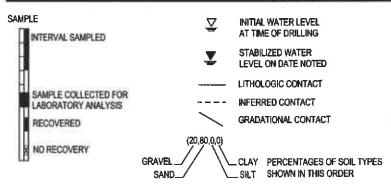
FIGURE 3
TOSCO (UNOCAL) SS #7124
10151 EAST 14th STREET
OAKLAND, CALIFORNIA
POTENTIOMETRIC MAP

APPENDIX A

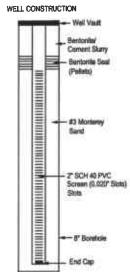
Soil Boring and Well Construction Logs, Survey Data, and Well Development Field Data Sheets

SOIL CLASSIFICATION CHART

			SYMI	BOLS	TYPICAL
M	GRAVELLY SOILS ARSE-MINED OILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE MORE THAN 50% OF COARSE FRACTION SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE MINED CLAYS INE-MINED CLAYS INE-MINED CLAYS INE-MINED CLAYS INE-MINED CLAYS INE-MINED CLAYS	ONS		LETTER	DESCRIPTIONS
		CLEAN GRAVELS	00.00 00.00 00.00	GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
COARSE- GRAINED SOILS	OF COARSE	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	RETAINED ON NO.	(APPRECIABLE AMOUNT OF FINES)	// /	GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS	AND	CLEAN SANDS		sw	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
LARGER THAN NO. 200 SIEVE SIZE				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	OF COARSE	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	PASSING ON NO.	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND - CLAY MEXTURES
				ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE - GRAINED SOILS	AND	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
50,25				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY
				ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
н	GHLY ORGANIC :	SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS



NOTE: SOIL CONDITIONS INDICATED BY BORING LOGS APPLY AT THE LOCATION OF THE PARTICULAR BORING AND AT THE TIME OF DRILLING, SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THE BORING LOCATION WITH THE PASSAGE OF TIME. DATA PRESENTED IN THE LOGS REPRESENTS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED, SOIL CONDITIONS INDICATED BETWEEN SAMPLE INTERVALS ARE INFERRED.



SECOR International Incorporated



Logged By:	Date Drilled: 2/28/02	V	ing Contract Voodward Drilling		1	ect Name:	Method/Equips CA Split Sp 580B OV	oon	Well Num		
ee "Soil Class hart" for USC lassifications	ification	Bo Dian	oring n.(in.);	Surface Elev.(ft.): 37.73	Surface Groundwater Depth (ft.): Total Drive Elev.(ft.): ☐ 17 First Water Depth (ft.): wt.(lbs.)						
Well Construct	ă	Sample Recovery	Blows/12"		Lithologic Description						
Chris Box Grou 4" So	t ch. 40 Blank	-	6	fine grain YELLOV grained s Hand aug	ed san VISH I and, lo ered to	ISH BROWN (10 YR 5/4d, damp, loose (70, 25, 5) BROWN (10 YR 5/4) SA cose, damp (0, 20, 75, 5) o 5 feet below ground sur N (7.5 YR 4/2) increasing	(0) NDY SILT (ML) t face	trace clay, fine			
	10-	-	17			R 4/3) SILTY CLAY (CI tling (0, 5, 30, 65)	L) trace fine graine	d sand, stiff, t	moist,		
#3 		-	15	Grades B	LACK	(5 Y 2.5/2) increasing cl	lay content, orange	e veins (0, 5, 2	20, 75)		
4" Sc 0.020 Slotte PVC Scree	ed 20-	-	16	Grades O content, v	LIVE	BROWN (2.5 Y 4/4) inct 20, 30, 50)	reasing fine graine	d sand and sil	t		
End (#3 Mont Sand	erey	-	20		Grades DARK BROWN (2.5 Y 4/4) increasing clay content (0, 0, 20, 80) Bottom of boring @ 26.5 feet below ground surface						

The substrata descriptions above are generalized representations upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material type to another could be different and indicated the country of another could be different and indicated the country of another could be different and indicated the country of a condition of the country of th

Project No. 6TO.03996.00

Date 3/12/02

MW'S.GPJ LOG OF BOREHOLE DOUGLAST YOUNG

Approved by

Log of Well: MW-1

Figure



	Drilled: /1/02		ling Con Voodwa Drillin	ırd	Project Name: Tosco #7124	Method/Equipm CA Split Sp 580B OV	oon	Well Nu		
See "Soil Classificati Chart" for USCS Soi Classifications	on	Diar	oring n.(in.): 10	Surface Elev (ft.): 38.27	lev (ft.): ∇ 18.5 First Water Depth (ft.): wt.(lbs.):					
Well Construction Casing Elev.: 37.87	Depth, (ft.)	Sample Recovery	Blows/12"		Lithologic Description					
Christy Box Grout 4" Sch. 40 PVC Blan Bentonite Seal			18	Fine gr LIGH' graine Grade: Hand a Grade: conten	TELLOWISH BROWN (10 YR: ained sand, loose, damp (70, 25, COLIVE BROWN (2.5 Y 5/4) S d sand, loose, damp (0, 20, 75, 5) VERY DARK GRAYISH BROWN (2.5 Y 5/4) BROWN (2.5 Y 5/4) BROWN (2.5 Y 5/4) S CLIGHT OLIVE BROWN (2.5 Y 5/4) S (0, 30, 65, 5)	5, 0) ANDY SILT (ML) t) DWN (2.5 Y 3/2) urface Y 5/6) increasing fin	race clay, fine	e d	0	
#3 	15~		30	very st	E BROWN (2.5 Y 2/2) SILT CL iff, damp (5, 0, 15, 80) s DARK OLIVE GRAY (5 Y 3/2 ng, petroleum odor (0, 0, 10, 90)	2) increasing clay co		vel,	0.	
4" Sch. 40 0.020" Slotted PVC Screen	20-		10	Grade	s with increasing silt, wet (0, 0, 2	20, 80)			o	
End Cap #3 Monterey Sand 25 Bottom of boring @ 26.5 feet below ground surface								6.		

The substrata descriptions above are generalized representations and local transfer of visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types and the change from one predominant material type to another could be different to be included. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of substrate conditions at one in rations or times.

Project No. 6TO.03996.00

Date 3/12/02

MW'S.GPJ LOG OF BOREHOLE Log of Well: MW-2

Approved by

Figure

SECOR International Incorporated

Logged By:	Date Drilled: 2/28/02		ling Cont Voodw a Drillin	ırd	Project Name: Tosco #7124	Method/Equipm CA Split Sp 580B OV	oon	Well Num MW-		
ee "Soil Class hart" for USC lassifications	CS Soil	Dia	oring n.(in.): 10	Surface Elev.(ft.): 38.03	Groundwater Depth (☐ 17 First Water ☐ 16 Stabilized Wa	Depth (ft.):	Drive wt.(lbs.): 140	Drop Dist.(in 30		
Well Construc asing Elev.: 3	Ceptity Continue (1975)	Sample Recovery	Blows/12"		Lithologic Description					
Chri Box Grou 4" Sc PVC	sty	-	12	Hand au Grades	BROWN (10 YR 3/3) SAN ose, damp (0, 20, 75, 5) Igered to 5 feet below ground the second seco	nd surface N (10 YR 4/2) increasing				
	10		23		DARK BROWN (10 YR 2/sand, very stiff, damp (0, 5		race fine to co	parse		
Sand	¥		38	Grades 1 (0, 0, 10	BLACK (2.5 Y 2.5/1) incre 0, 90)	asing clay content, petro	oleum odor			
4" S 0.02 Slott PVC Scre	ed 20		14	Grades (0, 0, 40	DARK GRAY (5 Y 4/1) in 0, 60)	creasing silt content, we	t, petroleum o	odor		
End #3 Mon Sand	terey		22	(0, 0, 15	OLIVE GRAY (5Y 5/2) inc 5, 85) of boring @ 26.5 feet below					

The substrata descriptions above are generalized representations and because yisual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types show the contain different materials and the change from one predominant material type to another could be different that the could be different that th

Project No.: 6TO.03996.00

Date 3/12/02

MW'S GPJ LOG OF BOREHOLE DOUGLAST YOUNG 5859

Log of Well: MW-3

Approved by

Figure



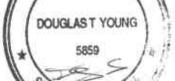
Logged By:	Date Drille	d: Di	rilling Con Woodwa Drillin	ırd		oject Name: sco #7124	Method/Equipm CA Split Spe 580B OV	oon	Well Num		
ee "Soil Class Chart" for USC Classifications	sification CS Soil	Di	Boring iam.(in.).	Surface	Surface Groundwater Depth (ft.): Total Drive Elev.(ft.):						
Well Construc		Depth, (ft.)	Blows/12"		Lithologic Description						
Christy Box Grout 4" Sch. 40 PVC Blank 5 Bentonite Seal 10 41 41 41 41				Grade fine gi Hand	DARK ained sate of the control of th	GRAYISH BROWN (19 nd (0, 15, 65, 20) OLIVE BROWN (2.5 York, loose, damp (0, 20, 20 to 5 feet below ground see the service of	7 5/4) SANDY SILT 75, 5) urface 2) CLAYEY SILT (N	(ML), trace o	ilay,	2.	
Sand 4" Se	ch. 40	5	30			(5 Y 4/2) SILTY CLAY (0, 0, 30, 70)	Y (CL) stiff, moist, o	range mottlinį	2,	2	
0.020 Slott PVC Scree	ed 2	0	12	Grade odor (S VERY 0, 0, 25,	DARK GRAY (5 Y 3/1) 75)) increasing clay con	tent, wet, petr	oleum	1	
End #3 Mon Sand	terey	5	8		Grades with increasing silt, lenses of silt (0, 0, 30, 70) Bottom of boring @ 26.5 feet below ground surface						

The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types show a may contain different materials and the change from one predominant material type to another could be different that the time of drilling and may not be representative of subsultations at the time of drilling and may not be representative of subsultations at the time of drilling and may not be representative of subsultations.

Project No. 6TO.03996.00

Date 3/12/02

MW'S.GPJ LOG OF BOREHOLE



E OF CALIF

Log of Well: MW-4

Approved by

Figure



MONITORING WELL OBSERVATION SUMMARY SHEET

Client Facility [‡]	: Tosco(Unocal) SS#7124	G-R JOB#:	180299	
LOCATION	: 10151 East 1	4th Street	DATE:	4/8	102
CITY	Oakland, CA		TIME:		
					·
Well ID	Total Depth	Depth to Water	Product Thickness	TOB or	Comments Volume Purge
MW-1 $MW-2$ $MW-3$ $MW-4$ Comments: A	25.40 25.46 25.38 25.44	14.27 15.86 15.86 16.59	EEDED FOR	Toc	75 60 60
ampler: H	TIG KE	JORK	Assistant:	V/A	

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/ FacilityT	'osco(Unoc	al) SS#7124		Job#:	180299		
Address: 1	0151 East	14th Stree	t	Date:	+/8/0	22	
City:0	akland, C	<u>A</u>		Sampler:	HAIG	LEVO!	3K
Weil ID	Mi	<u>u-1</u>	Well Condition	on: NEU	U		
Well Diamete		in.	Hydrocarbon		Amount Ba		5
Total Depth	23,5 <u>02</u>	5.40 ft.	Thickness: _	2" = 0.17	(product/wate 3" = 0.38		" = 0.66
Depth to Wat	ter <u>14</u>	27 tt.	Factor (VF)	6" = 1	.50	12° = 5.80	
	11	13 x v	0.66 = 7.3	(1) X 3 (case volume) =	Estimated Purg	ge Volume: _	1 3 (gal.)
Purge Equipment:	Dispo Bailer Stack Suctio	sable Bailer	Sa Ec	ampling juipment: Dis Ba Pro	sposable Bai iler essure Bailer	ler	. . .
Starting Time Sampling Time Purging Flow Did well de-w	ne: <u> </u>	t10 540 Aries	Water Co	Conditions: plor: <u>CLC以</u> り t Description: <u><</u> Time:	y SLUT	Odor:	(gal.)
Time	Volume (gal.)	pН	Conductivity µmhos/cm	Temperature •C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1429 1437 1444 1500 1518 1532	10 20 30 45 60 75	7.85 7.59 7.15 7.15 7.10	499 543 466 448 442	19.5 18.8 19.3 19.1 19.4			
				•			
SAMPLE ID	(#) - CO		ABORATORY IN		RATORY	ANAL	YSES
SAMPLE ID	(#) - co			TYPE LABOR	. A. A. A. A.	ANALY	MTBE
	(#) - co			TYPE LABOR			7

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/ Facility Tosco(Unocal) SS#7124	Job#:	180299
Address: 10151 East 14th Street		4/8/02
City: Oakland, CA		HAIG KEYORK
City. Ockland, CA	Sampler:	11710 NEWOLUL
Well ID MW-2	Well Condition: NE	EW
Well Diameter	Hydrocarbon	Amount Bailed
Total Depth (24:25) 25:46 ft.		$\frac{\text{(product/water)}: \text{(pal.)}}{3^{*} = 0.38 \qquad 4^{*} = 0.66}$
Depth to Water 15.86 ft.	Factor (VF) 6"	= 1.50
9.60 x VFQ	100 = 6 x 3 (case volum	e) = Estimated Purge Volume: <u>60 (gal.)</u>
Purge Disposable Bailer Equipment: Bailer Stack Suction		Disposable Bailer Bailer Pressure Bailer
Grundfos Other: STAINLS	TEIZE BAILEA Y Othe	Grab Sample
Starting Time: 1727	Weather Conditions:	SUNNY
Sampling Time: 1850	Water Color: CLOL	
Purging Flow Rate: VARIES on	•	
Did well de-water?	If yes; Time:	Volume:(qal.)
Time Volume pH (gal.)	Conductivity Temperature μmhos/cm •C	D.O. ORP Alkalinity (mg/L) (mV) (ppm)
1745 6 7,19 1757 10 6.88 1805 20 6.83 1815 30 6.80 1823 40 6.81	508 19.4 485 19.1 476 19.0 480 19.2 482 18.9	
1845 60 6.79	483 18.6	
LAE SAMPLE ID (#) - CONTAINER REFRIC	BORATORY INFORMATION G. PRESERV. TYPE LA	BORATORY ANALYSES
	G. PRESERV. TYPE LA	BORATORY ANALYSES QUOTA G/BTSXMTBE
SAMPLE ID (#) - CONTAINER REFRIG	G. PRESERV. TYPE LA	

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/ Facility Tosco(Unocal) SS#7124	Job#:	180299
Address: 10151 East 14th Stree	t Date:	4/8/02
City: Oakland, CA	Sample	er: HAIG KEVORK
Well ID MW-3	Well Condition: N	EW
Well Diameterin.	Hydrocarbon	Amount Bailed
Total Depth (<u>)25.38 ft.</u>	Thickness: Volume 2" = 0.17	Ft. (product/water): (gal.) 3" = 0.38 4" = 0.66
Depth to Water 15.86t.	Factor (VF)	6" = 1.50 12" = 5.80
9,52 x VF	0.66 6 x / Icase vol	lume) = Estimated Purge Volume: <u>600 (gal.)</u>
Purge Disposable Bailer Equipment: Bailer Stack Suction Grundfos Other: 577418	Sampling Equipment: STIZELBAILERYOU	Disposable Bailer Bailer Pressure Bailer Grab Sample ther:
Starting Time: 1856 Sampling Time: 2010 Purging Flow Rate: VARUES Did well de-water?	•	OUDY Odor:
Time Volume pH (gal.)	Conductivity Temperat	
1912 6 7.16 1923 10 7.14 1930 20 6.89 1937 30 6.84 1945 40 6.80 1953 50 6.81 2002 60 6.80	594 18. 594 18. 583 18. 585 18. 569 18. 580 18.	8 9 9 9 8 3 3
	ABORATORY INFORMATION	ON LABORATORY ANALYSES EPOLIO A G B T SX M T B E
		80x4158260
COMMENTS: () TO TAL DI	EDEL PRINKT	TO DEVELOPMIENT

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/ Facility Tosco(Unocal) SS#7124	Job#:180299
Address: 10151 East 14th Street	Date: 4/8/02
City: Oakland, CA	Sampler: 1+A16-KIEVORK
Well ID MW-4 We	Il Condition: NEW
[']	drocarbon Amount Bailed (gal.)
Total Depth (22.19 25.44 tt. V	olume 2" = 0.17 3" = 0.38 4" = 0.66
Depth to Water 16,59 ft. Fa	ctor (VF) 6" = 1.50 12" = 5.80
8.85 x vf 0.6/	$6 = \frac{5.8}{2} \times \frac{10}{2}$ (case volume) = Estimated Purge Volume: $\frac{5.8}{2}$ (gal.)
Purge Disposable Bailer Equipment: Bailer Stack Suction Grundfos Other: STAINL STEE	Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample LBAILER + Other:
Starting Time: 1550 Sampling Time: 1720 Purging Flow Rate: VARUES gpm.	Weather Conditions: SUMMY Water Color: CLOUDY Odor:
Purging Flow Rate: VARUES gom. Did well de-water?	Sediment Description: SILT If yes; Time: Volume: (gal.)
	iuctivity Temperature D.O. ORP Alkalinity nos/cm °C (mg/L) (mV) (ppm)
1605 6 7.42 66 1618 15 7.27 5 1625 25 7.10 5	52 T9.6 68 18.5
1642 40 6.92 5 1650 50 6.90 5 1112 60 6.86 5	31 19.3 25 18.8 33 18.7
1642 40 6.92 5 1650 50 6.90 5 1112 60 6.86 5 LABORA SAMPLE ID (#) - CONTAINER REFRIG.	TORY INFORMATION PRESERV. TYPE LABORATORY ANALYSES
SAMPLE ID (#) - CONTAINER REFRIG.	PRESERV. TYPE LABORATORY ANALYSES

STANDARD OPERATING PROCEDURE -GROUNDWATER SAMPLING

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

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

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

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

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

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

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

APPENDIX B

Certified Analytical Reports and Chain-of-Custody Documentation





7 March, 2002

Jamin Valdez Secor - Mountain View 2301 Leghorn St. Mountain View, CA 94043

RE: Tosco #7124, Oakland, Ca Sequoia Report: MLC0026

Enclosed are the results of analyses for samples received by the laboratory on 03/01/02 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley Project Manager

CA ELAP Certificate #1210



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

Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3-6	MLC0082-01	Soil	02/28/02 12:08	03/01/02 18:20
MW-3-11.5	MLC0082-02	Soil	02/28/02 12:28	03/01/02 18:20
MW-3-16	MLC0082-03	Soil	02/28/02 12:25	03/01/02 18:20
MW-3-21	MLC0082-04	Soil	02/28/02 12:32	03/01/02 18:20
MW-3-26.5	MLC0082-05	Soil	02/28/02 12:38	03/01/02 18:20
MW-1-6.5	MLC0082-06	Soil	02/28/02 08:45	03/01/02 18:20
MW-1-11.5	MLC0082-07	Soil	02/28/02 08:49	03/01/02 18:20
MW-1-16.5	MLC0082-08	Soil	02/28/02 08:55	03/01/02 18:20
MW-1-21.5	MLC0082-09	Soil	02/28/02 09:04	03/01/02 18:20
MW-1-26.5	MLC0082-10	Soil	02/28/02 09:34	03/01/02 18:20

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





Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:09

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3-6 (MLC0082-01) Soil S	Sampled: 02/28/02 12:08	Received:	03/01/02	18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	17	ft.	Ħ	**	#1	II.	
Methyl tert-butyl ether	ND	0.025	11	**	11	н	**	IJ	
Di-isopropyl ether	isopropyl ether ND		,,	17	#	**	*	II .	Q-29
Ethyl tert-butyl ether	ND	0.025	н	#	10	Ħ	n	II .	
tert-Amyl methyl ether	ND	0.025	II .	н	17	**	41	II .	
1,2-Dichloroethane	ND	0.025	b	11	11	10	Ħ	u	
Ethylene dibromide	ND	0.025	"	н	**	47	**	a	
Benzene	ND	0.050		**	*1	**	**	"	
Ethylbenzene	ND	0.050	II .	Ħ	ŧr	**	10	**	
Toluene	ND	0.050	"	**	**	•	11	77	
Total Xylenes	ND	0.050	U	**	"	**	**	**	
Gasoline Range Organics (C6-C1	0) ND	5.0		**	#	**	19	Ħ	
Surrogate: 1,2-Dichloroethane-d	4	95.4 %	60-	140	и	"	н	rr	
MW-3-16 (MLC0082-03) Soil	Sampled: 02/28/02 12:25	5 Received	l: 03/01/0	2 18:20					
Ethanol	ND	20	mg/kg	4	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	2.0	#	If	"	**	n	II .	
Methyl tert-butyl ether	1.2	0.10	**	l7	н	H	II	U	
Di-isopropyl ether	ND	0.10	**	n	н	II	II .	u	Q-29
Ethyl tert-butyl ether	ND	0.10	51	II .	v	и	" .	н ,	
tert-Amyl methyl ether	ND	0.10	11	п	II .	II	II .	*	
1,2-Dichloroethane	ND	0.10	19	IJ	ш	11	II .	π	
Ethylene dibromide	ND	0.10	19	11	ш	II	"	**	
Benzene	ND	0.20	н	II .	II .	ti .	ti	*	
Ethylbenzene	0.36	0.20	**	11	u	II	u	*	
Toluene	ND	0.20	н	II .	п	11	ш	1*	
Total Xylenes	0.26	0.20	π	u	u	II	u	n	
Gasoline Range Organics (C6-C	(10) 42	20	+1	"	"	ti	ft	н	
Surrogate: 1,2-Dichloroethane-d		97.1%	60-	140	"	IJ	n	"	
· ·									



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

Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:09

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

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3-26.5 (MLC0082-05) Soil	Sampled: 02/28/02 12:38	Receive	ed: 03/01/	02 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	+1	u	**	#	u	**	
Methyl tert-butyl ether	0.23	0.025	**	#	**	31	u	19	
Di-isopropyl ether	ND	0.025	**	**	**	11	ff	11	Q-29
Ethyl tert-butyl ether	ND	0.025	**	*	11	19	tt	н	
tert-Amyl methyl ether	ND	0.025	17	**	H	ч	**	n	
1,2-Dichloroethane	ND	0.025	10	14	u	π	**	II	
Ethylene dibromide	ND	0.025	Ħ	11	н	**	"	n	
Benzene	ND	0.050	н	11	"	**	19	II .	
Ethylbenzene	ND	0.050	**	п	+1	**	17	(f	
Toluene	ND	0.050	**	*1	Ħ	11	Ħ	II	
Total Xylenes	ND	0.050	**	**	51)+	н	п	
Gasoline Range Organics (C6-C10)) ND	5.0	**	*	10		"	(1	
Surrogate: 1,2-Dichloroethane-d4	t	95.9 %	60-	140	"	"	н	v	
MW-1-6.5 (MLC0082-06) Soil	Sampled: 02/28/02 08:45	Receive	d: 03/01/0	2 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	11	"	ŋ	H	11	Ħ	
Methyl tert-butyl ether	ND	0.025	p	n	п	II	77	**	
Di-isopropyl ether	ND	0.025	п	п	п	II	н	14	Q-29
Ethyl tert-butyl ether	ND	0.025	D	11	п	II	n	11	
tert-Amyl methyl ether	ND	0.025	II .	11	II	II .	p	"	
1,2-Dichloroethane	ND	0.025	II .	n	II .	II .	n	11	
Ethylene dibromide	ND	0.025	п	п	"	u	II .	11	
Benzene	ND	0.050		n	u	· ·	II .	(r	
Ethylbenzene	ND	0.050	"		u	*1	íi .	**	
Toluene	ND	0.050	u	u	н	**	"	11	
Total Xylenes	ND	0.050	u	u	**	11	u	10	
Gasoline Range Organics (C6-C10)) ND	5.0	Ħ	н	**	**		17	
Surrogate: 1,2-Dichloroethane-d4	!	99.1 %	60-	140	"	"	"	"	
~									



Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:09

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

Analyte	Result	eporting. Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-16.5 (MLC0082-08) Soil	Sampled: 02/28/02 08:55	Receive	ed: 03/01/	/02 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	II .	11	II .	"	(i	14	
Methyl tert-butyl ether	ND	0.025	U	n	U	*1	Ħ	n	
Di-isopropyl ether	ND	0.025	O .		II .	11	#	11	Q-29
Ethyl tert-butyl ether	ND	0.025		II .	"	**	**	II .	
tert-Amyl methyl ether	ND	0.025		U	н	11	"	II	
1,2-Dichloroethane	ND	0.025	II .	ш	Ħ	11	0	II .	
Ethylene dibromide	ND	0.025	**	II .	**	н	u	u	
Benzene	ND	0.050	**	u	**	**	*	**	
Ethylbenzene	ND	0.050	**	ш	11	**	**	ŧr	
Toluene	ND	0.050	**	Ħ	19	Ħ	**	н	
Total Xylenes	ND	0.050	#	*1	11	#*	**	п	
Gasoline Range Organics (C6-C10)	ND	5.0	**	**	н	#	*		
Surrogate: 1,2-Dichloroethane-d4		97.0 %	60-	140	н	н	Ħ	rr rr	
MW-1-26.5 (MLC0082-10) Soil	Sampled: 02/28/02 09:34	Receive	ed: 03/01.	/02 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	**	"	**	μ	II .	n	
Methyl tert-butyl ether	ND	0.025	ŧr	14	10	II	b	Ħ	
Di-isopropyl ether	ND	0.025	**	9	II.	п	II .	**	Q-29
Ethyl tert-butyl ether	ND	0.025	77	**)+	п	II .	11	
tert-Amyl methyl ether	ND	0.025	**	**	n	п	II .	19	
1,2-Dichloroethane	ND	0.025	11	**	п	п	u	11	
Ethylene dibromide	ND	0.025	I t	11	п	u	a	14	
Benzene	ND	0.050	н	17	п	Ħ	н	n	
Ethylbenzene	ND	0.050	ь	n	II .	**	**	н	
Toluene	ND	0.050	II .	n	íi .	*1	**	n	
Total Xylenes	ND	0.050	U	п	п	11	1 †	II	
Gasoline Range Organics (C6-C10)	ND	5.0	II .	D.	н	**	11	ĮI	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	60-	140	u	"	n	#	



Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:09

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C12033 - EPA 5030B MeOH										
Blank (2C12033-BLK1)				Prepared &	& Analyze	d: 03/12/0)2			
Ethanol	ND	5.0	mg/kg							
tert-Butyl alcohol	ND	0.50	"							
Methyl tert-butyl ether	ND	0.025	n							
Di-isopropyl ether	ND	0.025	u							Q-29
Ethyl tert-butyl ether	ND	0.025	Ħ							
tert-Amyl methyl ether	ND	0.025	н							
1,2-Dichloroethane	ND	0.025	Ħ							
Ethylene dibromide	ND	0.025	u							
Benzene	ND	0.050	11							
Ethylbenzene	ND	0.050	н							
Toluene	ND	0.050	tı							
Total Xylenes	ND	0.050	u							
Gasoline Range Organics (C6-C10)	ND	5.0	n							
Surrogate: 1,2-Dichloroethane-d4	0.00957		"	0.0100		95.7	60-140			
LCS (2C12033-BS1)				Prepared &	& Analyze	:d: 03/12/0	02			
Methyl tert-butyl ether	0.890	0.025	mg/kg	1.00		89.0	70-130			
Benzene	1.31	0.050	*	1.25		105	70-130			
Toluene	1.32	0.050	**	1.25		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.00935		h	0.0100		93.5	60-140			
LCS (2C12033-BS2)				Prepared &	& Analyze	d: 03/12/0)2			
Gasoline Range Organics (C6-C10)	16.2	5.0	mg/kg	12.5		130	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00948		n	0.0100	·	94.8	60-140			** **
LCS Dup (2C12033-BSD1)				Prepared a	& Analyze	:d: 03/12/0)2			
Methyl tert-butyl ether	1.03	0.025	mg/kg	1.00	<u> </u>	103	70-130	14.6	25	
Benzene	1.22	0.050	,,	1.25		97.6	70-130	7.11	25	
Toluene	1.22	0.050	**	1.25		97.6	70-130	7.87	25	
Surrogate: 1,2-Dichloroethane-d4	0.00962		n n	0.0100		96.2	60-140			



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Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:09

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C12033 - EPA 5030B MeOH										
LCS Dup (2C12033-BSD2)				Prepared	& Analyzo	ed: 03/12/	02			
Gasoline Range Organics (C6-C10)	15.8	5.0	mg/kg	12.5		126	60-140	2.50	25	
Surrogate: 1,2-Dichloroethane-d4	0.00945		"	0.0100		94.5	60-140			



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Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca Project Number: Tosco 7124, Oakland, Ca

Project Manager: Daniel Vargas

Reported: 03/18/02 10:09

Notes and Definitions

Q-29 The percent recovery in the quality control analyte exceeded the upper control limit. Because there was no detectable amount of this compound in the associated sample, the result has been reported.

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 007842 TOSCO

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□ 1551 Industrial Boad • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612

Consultant Company:	ELECTRIC S	BECOR I	utinc	Tosco Engineer: Dove Dewitt					
Address: 2301 Le	anornst				Site #: MI24				
City: Mt View	State:	Ca zi	Code: 0404	3	Site Address: 10151 E. 14th St				
Telephone: 650 G	PUDIBLE	ax #:			City, State: Dalpland, Ca				
Report To: Daniel			L. Furuyan	QC Data: Sevel D (Standard)					
Turnaround 0 Work Days 5 Work Days 3 Work Days Drinking Water Analyses Requested MLCO0 82 Time: 2 Work Days 1 Work Day 2-8 Hours Waste Water									
Project Coding:		. , , , , , , , ,		□ Othe	's Tring tri deed to the late of the late				
Client Sample I.D.	Date/Time Sampled	Matrix # o Desc. Con		Sequoia Sample	e Water "S TITUDE AND TO STATE OF THE STATE				
1. MN-3-61	भेष्ठिक छः ०	8ક્કાંર 1	- secre	01	X X ALL,				
2.MW-3-11.51	1 12:29	3 1 1	1	62	-hold XBY				
3.MW-3-101	12:25			63	X X 8260				
4.MW-3-21'	la: 32			04	hold -				
5. MW-3-245	12:38	>		65					
6.HW-1-6,51	8:45			04					
7. MW-1-11.5'	8:49			67	hold -				
8. MW-1- W.5'	୪ .55			08					
9. MW-1-21.5	9:04			61	how S				
10.MW-1-24.51	V 9:34	4	V	lo					
Relinquished By: Linday the Date: 250/02Time: 17:13					5 Received By: WHS Date 2-1-2 Time: 1570				
Relinquished By:			Date:3-2-1 Time: 182		P Received By: Mana Date 3-/12 Time 820				
Relinquished By:			Date: Time:		Received By: Date: Time:				
Were Samples Received	in Good Condition	es 🗆	No Samples	on Ice?	Wes No Method of Shipment				
To be completed upon rec		ne/Chain of Cust	ody reported?	es 🗆 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?									
of ph:		s	gnature:		Company: Date:				





18 March, 2002

Daniel Vargas Secor - Mountain View 2301 Leghorn St. Mountain View, CA 94043

RE: Tosco #7124, Oakland, Ca Sequoia Report: MLC0074

James Hartlet

Enclosed are the results of analyses for samples received by the laboratory on 03/01/02 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley Project Manager

CA ELAP Certificate #1210



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Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2 - 6.5	MLC0074-01	Soil	03/01/02 07:36	03/01/02 18:20
MW-2 - 11	MLC0074-02	Soil	03/01/02 07:42	03/01/02 18:20
MW-2 - 16.5	MLC0074-03	Soil	03/01/02 07:48	03/01/02 18:20
MW-2 - 21.5	MLC0074-04	Soil	03/01/02 07:54	03/01/02 18:20
MW-2 - 26.5	MLC0074-05	Soil	03/01/02 08:01	03/01/02 18:20
MW-4- 6.5	MLC0074-06	Soil	03/01/02 09:57	03/01/02 18:20
MW-4- 11.5	MLC0074-07	Soil	03/01/02 10:02	03/01/02 18:20
MW-4 - 16.5	MLC0074-08	Soil	03/01/02 10:08	03/01/02 18:20
MW-4 - 21	MLC0074-09	Soil	03/01/02 10:15	03/01/02 18:20
MW-4- 26.5	MLC0074-10	Soil	03/01/02 10:20	03/01/02 18:20

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.



Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:17

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

	· · · · · · · · · · · · · · · · · · ·		-J	- Mul					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 - 6.5 (MLC0074-01) Soil	Sampled: 03/01/02 07:36	Receive	ed: 03/01/	02 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	п)+	н	**	#	II	
Methyl tert-butyl ether	ND	0.025	II .	"	11	**	**	п	
Di-isopropyl ether	ND	0.025	a	1+	"	*	"	II .	Q-29
Ethyl tert-butyl ether	ND	0.025	п	11	н	17	**	u	
tert-Amyl methyl ether	ND	0.025	u	n	н	H	10	п	
1,2-Dichloroethane	ND	0.025	u	II	"	II .	,,	u	
Ethylene dibromide	ND	0.025	"	n	"	n	11	u	
Веплепе	ND	0.050	**	п	II .	n	11	4	
Ethylbenzene	ND	0.050	**	ш	ш	п	н	π	•
Toluene	ND	0.050	#1	II .	II .	II .	li .	**	
Total Xylenes	ND	0.050	**	II	Ħ	II .	11	**	
Gasoline Range Organics (C6-C10)	ND	5.0	**	II	II .	п	li .	**	
Surrogate: 1,2-Dichloroethane-d4		95.8%	60-	140	n	н	n	n	
MW-2 - 16.5 (MLC0074-03) Soil	Sampled: 03/01/02 07:4	8 Recei	ved: 03/0	1/02 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	"	u	**	II	II	11	
Methyl tert-butyl ether	0.085	0.025	**	u	*1	п	II	e	
Di-isopropyl ether	ND	0.025	e	н	"	u	u	fe	Q-29
Ethyl tert-butyl ether	ND	0.025	"	**	**	н	н	"	
tert-Amyl methyl ether	ND	0.025	u	**	**	н	Ħ	11	
1,2-Dichloroethane	ND	0.025	"	**	**	**	11	**	
Ethylene dibromide	ND	0.025	*1	#	"	Ħ	Ħ	**	
Benzene	ND	0.050	**	11	11	11	**	**	
Ethylbenzene	ND	0.050	**	**	11	11	**	**	
Toluene	ND	0.050	17	**	н	11		Ħ	
Total Xylenes	ND	0.050	*	10	Ħ	Ħ	51	**	
Gasoline Range Organics (C6-C10)		5.0	,,	17	**	1*	11	n	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	60-	140	'n	"	н	п	-





Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca Project Number: Tosco 7124, Oakland, Ca

Project Manager: Daniel Vargas

Reported: 03/18/02 10:17

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

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 - 26.5 (MLC0074-05) Soil	Sampled: 03/01/02 08:0	1 Recei	ved: 03/01	/02 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	**	**	11	u	II	**	
Methyl tert-butyl ether	0.16	0.025	**	14	11	н	ü	U	
Di-isopropyl ether	ND	0.025	"	11	u	н	ü	**	Q-29
Ethyl tert-butyl ether	ND	0.025	**	H	u	#	*1	"	
tert-Amyl methyl ether	ND	0.025	n	n	н	**	**	**	
1,2-Dichloroethane	ND	0.025	11	II	Ħ	"	Ħ	11	
Ethylene dibromide	ND	0.025	"	"	**	11	**	15	
Benzene	ND	0.050	U	п	*1		"	Ħ	
Ethylbenzene	ND	0.050		II .	71	"	**	*	
Toluene	ND	0.050	D	II .	Ħ	н	#	m .	
Total Xylenes	ND	0.050	II .	II .	Ħ	rr rr	11	D	
Gasoline Range Organics (C6-C10)) 16	5.0	D	"	11	n	"	n	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	60-	140	u	"	rr	rr .	
MW-4- 6.5 (MLC0074-06) Soil S:	ampled: 03/01/02 09:57	Receive	d: 03/01/0	2 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	"	II .	"	**	н	n	
Methyl tert-butyl ether	ND	0.025	"	"	11	**	11	II	
Di-isopropyl ether	ND	0.025	U	н	H	11	**	n	Q-29
Ethyl tert-butyl ether	ND	0.025	II .	Ħ	n .	**	**	п	
tert-Amyl methyl ether	ND	0.025	u	*1	4	11	**	u	
1,2-Dichloroethane	ND	0.025	*1	**	*1	11	**	II .	
Ethylene dibromide	ND	0.025	et	**	*1	,,	10	п	
	ND	0.050	**	17	"	**	11	п	
Benzene			**	11	**	н	"	"	
•	ND	0.050							
Benzene		0.050	"	**	*	n	1+	u	
Benzene Ethylbenzene Toluene	ND			")+)+	"	"	11	
Benzene Ethylbenzene	ND ND ND	0.050	**						



Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:17

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

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4- 11.5 (MLC0074-07) Soil	Sampled: 03/01/02 10:02	Receiv	ed: 03/01	/02 18:20					<u></u>
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	и	H	II	tt	11	и	
Methyl tert-butyl ether	ND	0.025	"	H	(t	**	Ħ	"	
Di-isopropyl ether	ND	0.025	11	II .	u	77	**	*	Q-29
Ethyl tert-butyl ether	ND	0.025	u	II .	#	17	#	"	
tert-Amyl methyl ether	ND	0.025	н	II	**	11	11	19	
1,2-Dichloroethane	ND	0.025	77	u	**	н	11	и	
Ethylene dibromide	ND	0.025	**	II .	"	**	11	a	
Benzene	ND	0.050	11	"	"	**	п	••	
Ethylbenzene	ND	0.050	77	Ħ	II .	Ħ	D	**	
Toluene	ND	0.050	"	Ħ	π	11	II	"	
Total Xylenes	ND	0.050	n	**	Ħ	11	IJ	н	
Gasoline Range Organics (C6-C10)	ND	5.0	u	"	**	19	II	"	
Surrogate: 1,2-Dichloroethane-d4	man and a fact that the manufacture and the think and the fact of	94.8 %	60-	140	"	п	н	"	
MW-4- 26.5 (MLC0074-10) Soil	Sampled: 03/01/02 10:20	Receiv	ed: 03/01	/02 18:20					
Ethanol	ND	5.0	mg/kg	1	2C12033	03/12/02	03/12/02	EPA 8260B	
tert-Butyl alcohol	ND	0.50	"	17	н	II .	"	U	
Methyl tert-butyl ether	0.028	0.025	**	¥f	n	II .	**	II .	
Di-isopropyl ether	ND	0.025	n	**	n	п	**		Q-29
Ethyl tert-butyl ether	ND	0.025	11	**	II .	ft	11	u	
tert-Amyl methyl ether	ND	0.025	n	11	JI	**	H .	u	
1,2-Dichloroethane	ND	0.025)1	19	II .	**	"	**	
Ethylene dibromide	ND	0.025	п	11	u	#	н	**	
Benzene	ND	0.050	п.,	n	u	"	**	**	
Ethylbenzene	ND	0.050	п	п	tı	**	•	"	
	ND	0.050	ч	U	**	11	**	**	
Toluene					.,	17	11	и	
	ND	0.050	н		**	"		***	
Toluene	ND	0.050 5.0	н	"	**	"	n	 H	



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Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C12033 - EPA 5030B MeC)H									
Blank (2C12033-BLK1)	<u> </u>			Prepared	& Analyze	:d: 03/12/0	32			
Ethanol	ND	5.0	mg/kg							
tert-Butyl alcohol	ND	0.50	19							
Methyl tert-butyl ether	ND	0.025	**							
Di-isopropyl ether	ND	0.025	н							Q-29
Ethyl tert-butyl ether	ND	0.025	**							
tert-Amyl methyl ether	ND	0.025	**							
1,2-Dichloroethane	ND	0.025	Ħ							
Ethylene dibromide	ND	0.025	*							
Benzene	ND	0.050	"							
Ethylbenzene	ND	0.050								
Toluene	ND	0.050	"							
Total Xylenes	ND	0.050	H							
Gasoline Range Organics (C6-C10)	ND	5.0	If							
Surrogate: 1,2-Dichloroethane-d4	0.00957		"	0.0100		95.7	60-140			
LCS (2C12033-BS1)				Prepared	& Analyze	ed: 03/12/0	02			
Methyl tert-butyl ether	0.890	0.025	mg/kg	1.00		89.0	70-130			
Benzene	1.31	0.050	0	1.25		105	70-130			
Toluene	1.32	0.050	"	1.25		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.00935		ı,	0.0100		93.5	60-140			
LCS (2C12033-BS2)				Prepared	& Analyze	ed: 03/12/0	02			
Gasoline Range Organics (C6-C10)	16.2	5.0	mg/kg	12.5		130	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00948		n	0.0100		94.8	60-140			
LCS Dup (2C12033-BSD1)				Prepared	& Analyze	ed: 03/12/0	02			
Methyl tert-butyl ether	1.03	0.025	mg/kg	1.00		103	70-130	14.6	25	
Benzene	1.22	0.050	u	1.25		97.6	70-130	7.11	25	
Toluene	1.22	0.050	*	1.25		97.6	70-130	7.87	25	
Surrogate: 1,2-Dichloroethane-d4	0.00962		н	0.0100		96.2	60-140			



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Secor - Mountain View 2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca Project Manager: Daniel Vargas Reported: 03/18/02 10:17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C12033 - EPA 5030B MeOH										
LCS Dup (2C12033-BSD2)				Prepared	& Analyze	ed: 03/12/	02			
Gasoline Range Organics (C6-C10)	15.8	5.0	mg/kg	12,5		126	60-140	2.50	25	
Surrogate: 1.2-Dichloroethane-d4	0.00945		"	0.0100		94.5	60-140			



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Secor - Mountain View

2301 Leghorn St. Mountain View CA, 94043 Project: Tosco #7124, Oakland, Ca

Project Number: Tosco 7124, Oakland, Ca

Project Manager: Daniel Vargas

Reported: 03/18/02 10:17

Notes and Definitions

Q-29 The percent recovery in the quality control analyte exceeded the upper control limit. Because there was no detectable amount of

this compound in the associated sample, the result has been reported.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

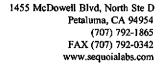
dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

№ 007841 TOSCO

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□ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
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□ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612

1991 Industrial road	3 * 3ai Callos, CA 94070 * (650) 232-9000 * FAX (650) 232-9012
Consultant Company: SECOR INTL INC	Tosco Engineer: David DeWitt
Address: 2501 Legnon St S	Site #: 7124
City: Ht View State: Ca Zip Code: 94045 S	Site Address: 10151 E. 14th
Telephone: 050.091.0131 Fax #:	City, State: Oakland, Ca. MLC0074
Report To: Daniel Vargas Sampler: Lindsay F.	C Date: Mayol D (Standard) D Laval C D Laval D D Laval A
Turnaround 10 Work Days 5 Work Days 3 Work Days Drinking Time: 2 Work Days 1 Work Day 2-8 Hours Waste V	Water State
Project Coding:	THIS THE RELEASE TO LEASE TO LEASE TO THE PARTY OF THE PA
Client Date/Time Matrix # of Cont. Sequoia's Sample I.D. Sampled Desc. Cont. Type Sample #	THE RELEASE TO CHIEF OF THE OF
1. MW-2-105' 31/027:30 soil 1 Sicerc 01	X X X X X X X X X X X X X X X X X X X
2. MW-2-11' 17:42 1 1 0Z	hold
3. MW-2-105 7:48 03	X $ X $ $ X $ $ X $
4. MW-2-21.5 7:54 04	-hold - BY &
5. MW-2-215 V 8:01 V V V 05	2 826D §
6. HW-4.6.5 2/1029:57 1 06	X
7. MW-4-11.5' 1 10:02 07	
8.MU-4-14.5' 10:08 08	hold
9. MW-4-21' 10:15 09	- hold - giong
10. MW-4-24.5 / 10:20 V V V 10	
Relinquished By: 2. Date: 31)02 Time: 15:15	
Relinquished By: WH Date 342 Time: 1670	Received By: Ollow Date: 3-/- Time: 820
Relinquished By: Date: Time:	Received By: Date: Time:
Were Samples Received in Good Condition 7 198 1 No Samples on Ice2 1996	es 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 r	no, what analyses are still needed?
2) Was the report issued within the requested turnaround time? Yes No If no, v	what was the turnaround time?
Wed by: Signature:	Company: Date:





23 April, 2002

Deanna Harding Gettler-Ryan - Dublin 6747 Sierra Ct, Suite J Dublin, CA 94568 RECEIVE

利用しる

GETTLER-KYAN INC

GENERAL KONDUNCTURE

RE: Tosco/Phillips

Sequoia Work Order: P204186

Enclosed are the results of analyses for samples received by the laboratory on 04/09/02 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari

Client Services Representative

Angelie Cari

CA ELAP Certificate #2374



1455 McDowell Blvd, North Ste D Petaluma, CA 94954 (707) 792-1865 FAX (707) 792-0342 www.sequoialabs.com

Gettler-Ryan - Dublin 6747 Sierra Ct, Suite J Dublin CA, 94568 Project: Tosco/Phillips
Project Number: 7124/Oakland, Ca
Project Manager: Deanna Harding

Reported: 04/23/02 14:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	P204186-01	Water	04/08/02 00:00	04/09/02 10:30
MW-1	P204186-02	Water	04/08/02 15:40	04/09/02 10:30
MW-2	P204186-03	Water	04/08/02 18:50	04/09/02 10:30
MW-3	P204186-04	Water	04/08/02 20:10	04/09/02 10:30
MW-4	P204186-05	Water	04/08/02 17:20	04/09/02 10:30

Sequoia Analytical - Petaluma
Angelue Carie

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.



Project: Tosco/Phillips
Project Number: 7124/Oakland, Ca
Project Manager: Deanna Harding

Reported: 04/23/02 14:41

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M

Sequoia Analytical - Petaluma Reporting Result Limit Units Dilution Batch Prepared Analyzed Method Notes Analyte TB-LB (P204186-01) Water Sampled: 04/08/02 00:00 Received: 04/09/02 10:30 Gasoline (C6-C12) ND 50 ug/l 1 2040268 04/11/02 04/11/02 **EPA** 8015M/8020M ND Benzene 0.50 ND Toluene 0.50 Ethylbenzene ND 0.50 ND Xylenes (total) 0.50 Methyl tert-butyl ether ND 2.5 104 % Surrogate: a,a,a-Trifluorotoluene 65-135 Surrogate: 4-Bromofluorobenzene 101% 65-135 MW-1 (P204186-02) Water Sampled: 04/08/02 15:40 Received: 04/09/02 10:30 Gasoline (C6-C12) ND 50 2040268 04/11/02 04/11/02 u₂/1 1 **EPA** 8015M/8020M Benzene ND 0.50 Toluene ND 0.50 Ethylbenzene ND 0.50 Xylenes (total) ND 0.50 ND Methyl tert-butyl ether 2.5 Surrogate: a,a,a-Trifluorotoluene 101% 65-135 " " Surrogate: 4-Bromofluorobenzene 102 % 65-135 MW-2 (P204186-03) Water Sampled: 04/08/02 18:50 Received: 04/09/02 10:30 Gasoline (C6-C12) 4400 250 2040268 04/11/02 04/11/02 ug/l 5 **EPA** 8015M/8020M ND 2.5 Benzene ND Toluene 2.5 Ethylbenzene 6.4 2.5 **QR-04** ND Xylenes (total) 2.5 380 Methyl tert-butyl ether 12 Surrogate: a,a,a-Trifluorotoluene 100 % 65-135

110%

65-135

Surrogate: 4-Bromofluorobenzene



Gettler-Ryan - Dublin 6747 Sierra Ct, Suite J

Dublin CA, 94568

Project: Tosco/Phillips

Project Number: 7124/Oakland, Ca Project Manager: Deanna Harding Reported: 04/23/02 14:41

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (P204186-04) Water Sampled	: 04/08/02 20:10	Received: 0	4/09/02 10):30					
Gasoline (C6-C12)	8700	2500	ug/l	50	2040268	04/11/02	04/11/02	EPA 8015M/8020M	
Benzene	65	25	н	π	n	#	11	u	
Toluene	ND	25	п	n	11	er	н	ir	
Ethylbenzene	400	25	11	**	n	"	II	Ħ	
Xylenes (total)	ND	25	II	Ħ	n	**	11	π .	
Methyl tert-butyl ether	6500	120	II	11	Ħ	н	н	#	
Surrogate: a,a,a-Trifluorotoluene		101 %	65-1	135	"	#	n	#	
Surrogate: 4-Bromofluorobenzene		100 %	65-1	135	"	#	n	"	
MW-4 (P204186-05) Water Sampled	: 04/08/02 17:20	Received: 04	4/09/02 10):30					
Gasoline (C6-C12)	13000	500	ug/l	10	2040268	04/11/02	04/11/02	EPA 8015M/8020M	
Benzene	ND	5.0	11		11	11	Ħ	н	
Toluene	ND	5.0	п	**	н	n	*	н	
Ethylbenzene	28	5.0	U	"	н	II	•	₩ .	QR-04
Xylenes (total)	ND	5.0	и	**	U	"		n	
Methyl tert-butyl ether	790	25	н :	11	п.		*	**	
Surrogate: a,a,a-Trifluorotoluene		89 %	65-1	135	#	"	н	"	
Surrogate: 4-Bromofluorobenzene		116%	65-1	135	"	"	"	"	



Project: Tosco/Phillips
Project Number: 7124/Oakland, Ca

Reported: 04/23/02 14:41

Volatile Organic Compounds by EPA Method 8260B

Project Manager: Deanna Harding

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (P204186-02) Water San	mpled: 04/08/02 15:40	Received: 04	1/09/02 1	0:30					
Tert-amyl methyl ether	ND	2.0	ug/l	1	2040478	04/19/02	04/19/02	EPA 8260B	
Tert-butyl alcohol	ND	100	"	"	п		11	N	
Di-isopropyl ether	ND	2.0	Ħ		II	**	íi .	п	
1,2-Dibromoethane (EDB)	ND	2.0	Ħ	Ħ		**	H	rı .	
1,2-Dichloroethane	ND	2.0	tt.	"	ш	11	n	••	
Ethanol	ND	500	н	n	П	11	Ħ	•	
Ethyl tert-butyl ether	ND	2.0	п	**	II .	IT	n	11 ·	
Methyl tert-butyl ether	ND	2.0	ıt		Ш	Ħ	tt .	m	_
Surrogate: Dibromofluoromethane	!	119%	84-	122	"	"	rr	"	
Surrogate: 1,2-Dichloroethane-d4		118%	74-	135	n	"	rr	"	
Surrogate: Toluene-d8		110 %	84-	119	rr	"	"	n	
MW-2 (P204186-03) Water Sar	mpled: 04/08/02 18:50	Received: 04	1/09/02 1	0:30					
Tert-amyl methyl ether	ND	40	ug/l	20	2040478	04/19/02	04/19/02	EPA 8260B	
Tert-butyl alcohol	ND	2000	н	H	н	н	11	н	
Di-isopropyl ether	ND	40	11	**	**	n	ų	U	
1,2-Dibromoethane (EDB)	ND	40	11		tt	H .	**	п	
1,2-Dichloroethane	ND	40	11	**	Ħ	11	"	u	
Ethanol	ND	10000	11	W	"	11	**	If	
Ethyl tert-butyl ether	ND	40	11	Ħ	et .	II	**	**	
Methyl tert-butyl ether	490	40	**	**	11	II	11	"	
Surrogate: Dibromofluoromethane	!	117 %	84-	122	"	ır	n	"	
Surrogate: 1,2-Dichloroethane-d4		116%	74-	135	"	"	n	"	
		112 %		119	"	rr .	"	"	



Project: Tosco/Phillips

Project Number: 7124/Oakland, Ca Project Manager: Deanna Harding Reported: 04/23/02 14:41

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (P204186-04) Water S	ampled: 04/08/02 20:10	Received: 04	4/09/02 1	0:30					
Tert-amyl methyl ether	ND	1000	u g /l	500	2040478	04/19/02	04/19/02	EPA 8260B	
Tert-butyl alcohol	ND	50000	н	. 11	**	**		tt .	
Di-isopropyl ether	ND	1000	н	**	**	11	II	Ħ	
1,2-Dibromoethane (EDB)	ND	1000	ц	**	"	"	II	Ħ	
1,2-Dichloroethane	ND	1000	u	,,	m	11	n	Ħ	
Ethanol	ND	250000	n			11	н	H	
Ethyl tert-butyl ether	ND	1000	н	**	**	11	н	**	
Methyl tert-butyl ether	8300	1000	11			11	n	H	
Surrogate: Dibromofluoromethar	1e	115%	84-	122	"	"	"	tr	
Surrogate: 1,2-Dichloroethane-d	4	116%	74-	135	#	#	n	# · ·	
Surrogate: Toluene-d8		110 %	84-	119	m	n	"	ff	
MW-4 (P204186-05) Water Sa	ampled: 04/08/02 17:20	Received: 04	1/09/02 10	0:30					
Tert-amyl methyl ether	ND	100	ug/l	50	2040478	04/19/02	04/19/02	EPA 8260B	
Tert-butyl alcohol	ND	5000	u	и	n	#	W	Ħ	
Di-isopropyl ether	ND	100	#	Ħ	**	"		n	
1,2-Dibromoethane (EDB)	ND	100	Ħ	n	**	*	*	IT	
1,2-Dichloroethane	ND	100	**	н	**	"	n	Ħ	
Ethanol	ND	25000	#1	H	**	"	"	**	
Ethyl tert-butyl ether	ND	100	**	n	**	**		W.	
Methyl tert-butyl ether	980	100	*	н	**	**	11	41	
Surrogate: Dibromofluoromethan	1e	114%	84-	122	"	н	"	#	
Surrogate: 1,2-Dichloroethane-de	4	118 %	74-	135	"	n	"	"	
		115%		119	"	n	"	"	



Project: Tosco/Phillips
Project Number: 7124/Oakland, Ca

Reported: 04/23/02 14:41

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Project Manager: Deanna Harding

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC_	%REC Limits	RPD	RPD Limit	Notes
Batch 2040268 - EPA 5030, waters										
Blank (2040268-BLK1)				Prepared	& Analyze	ed: 04/11/0)2			
Gasoline (C6-C12)	ND	50	ug/l				-			
Benzene	ND	0.50	11							
Toluene	ND	0.50	**							
Ethylbenzene	ND	0.50	н							
Xylenes (total)	ND	0.50	TT .							
Methyl tert-butyl ether	ND	2.5	11							
Surrogate: a,a,a-Trifluorotoluene	325		"	300		108	65-135			
Surrogate: 4-Bromofluorobenzene	311		"	300		104	65-135			
Blank (2040268-BLK2)				Prepared	& Analyz	ed: 04/12/0	02		•	
Gasoline (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	ND	2.5	**							
Surrogate: a,a,a-Trifluorotoluene	326		<u>"</u>	300		109	65-135			
Surrogate: 4-Bromofluorobenzene	306		#	300		102	65-135			
LCS (2040268-BS1)				Prepared	& Analyz	ed: 04/11/	02			
Gasoline (C6-C12)	2690	50	ug/l	2750		98	65-135	-		
Benzene	40.8	0.50	11	34.0		120	65-135			
Toluene	198	0.50	"	206		96	65-135			
Ethylbenzene	47.2	0.50	*1	48.5		97	65-135			
Xylenes (total)	231	0.50	. "	244		95	65-135			
Methyl tert-butyl ether	65.4	2.5	•	54,5		120	65-135			
Surrogate: a,a,a-Trifluorotoluene	354		#	300		118	65-135			
Surrogate: 4-Bromofluorobenzene	319		#	300		106	65-135			



Gettler-Ryan - Dublin

6747 Sierra Ct, Suite J Dublin CA, 94568 Project: Tosco/Phillips

Project Number: 7124/Oakland, Ca Project Manager: Deanna Harding Reported: 04/23/02 14:41

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2040268 - EPA 5030, waters			00							
LCS (2040268-BS2)	Prepared & Analyzed: 04/12/02									
Gasoline (C6-C12)	2620	50	ug/l	2750	•	95	65-135			
Велгене	38.1	0.50	"	34.0		112	65-135			
Toluene	180	0.50	**	206		87	65-135			
Ethylbenzene	44.6	0.50	#	48.5		92	65-135			
Xylenes (total)	209	0.50	Ħ	244		86	65-135			
Methyl tert-butyl ether	65.8	2.5	**	54.5		121	65-135			
Surrogate: a,a,a-Trifluorotoluene	348		"	300		116	65-135			
Surrogate: 4-Bromofluorobenzene	<i>333</i>		"	300		111	65-135			
Matrix Spike (2040268-MS1)	Source: P204186-02		Prepared & Analyzed: 04/11/02							
Gasoline (C6-C12)	2750	50	ug/l	2750	ND	99	65-135			
Benzene	40.1	0.50	"	34.0	ND	118	65-135			
l'oluene	197	0.50	**	206	ND	96	65-135			
Ethylbenzene	47.4	0.50	**	48.5	ND	98	65-135			
Xylenes (total)	229	0.50		244	ND	94	65-135			
Methyl tert-butyl ether	65.1	2.5	**	54.5	ND	119	65-135			
Surrogate: a,a,a-Trifluorotoluene	344			300		115	65-135			
Surrogate: 4-Bromofluorobenzene	321		ır	300		107	65-135			
Matrix Spike Dup (2040268-MSD1)	Source: P204186-02		Prepared & Analyzed: 04/11/02							
Gasoline (C6-C12)	2770	50	ug/l	2750	ND	99	65-135	0.7	20	
Benzene	39.3	0.50	H	34.0	ND	116	65-135	2	20	
Toluene	198	0.50	п	206	ND	96	65-135	0.5	20	
Ethylbenzene	46.7	0.50	п	48.5	ND	96	65-135	1	20	
Xylenes (total)	224	0.50	11	244	ND	92	65-135	2	20	
Methyl tert-butyl ether	64.0	2.5	н	54.5	ND	117	65-135	2	20	
Surrogate: a,a,a-Trifluorotoluene	343		н	300		114	65-135			
Surrogate: 4-Bromofluorobenzene	328		"	300		109	65-135			



Project: Tosco/Phillips
Project Number: 7124/Oakland, Ca
Project Manager: Deanna Harding

Reported: 04/23/02 14:41

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Lannt	Othits	Level	Result	70KEC	Limits	KPD	Limit	Notes
Batch 2040478 - EPA 5030 waters										
Blank (2040478-BLK1)				Prepared	& Analyze					
Tert-amyl methyl ether	ND	2.0	ug/l							
Tert-butyl alcohol	ND	100	*1							
Di-isopropyl ether	ND	2.0	*							
1,2-Dibromoethane (EDB)	ND	2.0	**							
1,2-Dichloroethane	ND	2.0	н							
Ethanol	ND	500	71							
Ethyl tert-butyl ether	ND	2.0	Ħ							
Methyl tert-butyl ether	ND	2.0	11							
Surrogate: Dibromofluoromethane	4.77		 "	4.20		114	84-122	······································		
Surrogate: 1,2-Dichloroethane-d4	4.66		•	4.20		111	74-135		•	
Surrogate: Toluene-d8	4.60		ff	4.20		110	84-119			
LCS (2040478-BS1)				Prepared	& Analyze	d· 04/19/0	12			
Methyl tert-butyl ether	5.31	2.0	ug/l	5.00	<u> </u>	106	79-118			
Surrogate: Dibromofluoromethane	5.08		<i>n</i>	4.20		121	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.76		n	4.20		113	74-135			
Surrogate: Toluene-d8	4.75		п	4.20		113	84-119			
Matrix Spike (2 <u>040478-MS1)</u>	Source: P204186-03			Prepared & Analyzed: 04/19/02						
Methyl tert-butyl ether	587	40	ug/l	100	490	97	79-118			
Surrogate; Dibromofluoromethane	5.06		"	4.20	······································	120	84-122		- ,,	
Surrogate: 1,2-Dichloroethane-d4	4.90		н	4.20		117	74-135			
Surrogate: Toluene-d8	4.78		"	4.20		114	84-119			
Matrix Spike Dup (2040478-MSD1)	Source: P204186-03		Prepared & Analyzed: 04/19/02							
Methyl tert-butyl ether	572	40	ug/l	100	490	82	79-118	3	20	
Surrogate: Dibromofluoromethane	5.01		"	4.20		119	84-122		·	
Surrogate: 1,2-Dichloroethane-d4	4.88		"	4.20		116	74-135			
Surrogate: Toluene-d8	4.84		"	4.20		115	84-119			

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.



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Gettler-Ryan - Dublin

Project: Tosco/Phillips

Project Number: 7124/Oakland, Ca Project Manager: Deanna Harding

Reported:

04/23/02 14:41

6747 Sierra Ct, Suite J **Dublin CA**, 94568

Notes and Definitions

Primary and confirmation results varied by greater than 40% RPD. The results may still be useful for their intended purpose. QR-04

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference