GETTLER-RYAN INC.

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TRANSMITTAL

TO: Dave DeWitt
ConocoPhillips
76 Broadway
Sacramento, CA 95818

DATE: May 16, 2003
PROJECT NO. 140158.5
SUBJECT: Tosco Station No. 4625, Oakland

FROM: Jed Douglas

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	5/14/03	Soil Boring and Groundwater Monitoring Well Installation Report

THESE ARE TRANSMITTED as checked below:

- ☐ For review and comment
- ☒ As Requested
- ☐ For Approval
- ☐ Approved as submitted
- ☐ Approved as noted
- ☐ Returned for corrections
- ☐ For your files
- ☒ For your use
- ☐ As noted below

COMMENTS:

Signed: _____

COPIES TO: Don Hwang – Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

ConocoPhillips

76 Broadway
Sacramento, CA 95818
phone 916.558.7676
fax 916.558.7639

May 14, 2003

Mr. Don Hwang
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Perjury Statement for the Monitoring Well Installation Report at Tosco Service Station No. 4625, 3070 Fruitvale Avenue, Oakland, California.

Mr. Hwang:

I declare, under penalty of perjury, that the information and/or recommendation contained in the Gettler-Ryan Inc. Monitoring Well Installation Report dated May 14, 2003, are true and correct to the best of my knowledge.

Sincerely,
ConocoPhillips

David B. DeWitt
Environmental Project Manager

GETTLER-RYAN INC.

SOIL BORING AND MONITORING WELL INSTALLATION REPORT

for

Tosco (76) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

Report No. 140158.05

Prepared for:

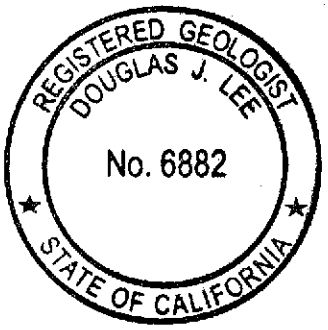
Mr. David B. De Witt
ConocoPhillips
76 Broadway
Sacramento, California 95818

Prepared by:

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

Andrew Smith
Staff Geologist

Douglas J. Lee
Senior Geologist
R.G. No. 6882



May14, 2003

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SOIL BORING AND MONITORING WELL INSTALLATION REPORT

for

Tosco (76) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

Report No. 140158.05

1.0 INTRODUCTION

At the request of ConocoPhillips, Gettler-Ryan Inc. (GR) has prepared this report presenting the observations associated with the installation of two on-site groundwater monitoring wells and the advancement of two on-site soil borings. The purpose of this investigation was to further evaluate soil and groundwater conditions at subject site. This work was originally proposed in GR report # 140158.05, *Work Plan For limited Subsurface Investigation,* dated May 24, 2002 and amended in the *Work Plan Addendum* dated October 14, 2002. The Work Plan was approved by the Alameda County Health Care Services Agency (ACHCSA) in a letter to Tosco dated September 4, 2002.

The scope of work performed included: updating the site safety plan; obtaining the required drilling permits; installing two on-site groundwater monitoring wells and advancing two on-site soil borings; developing the wells; collecting and submitting selected soil and groundwater samples for chemical analyses; surveying the well head elevations; arranging for ConocoPhillips' contractors to dispose of the waste materials and preparing a report presenting the findings of this investigation.

2.0 SITE DESCRIPTION

2.1 General

The site is currently an active service station located on the southeast corner of Fruitvale Avenue and School Street in Oakland, California (Figure 1). Local topography is southwestern sloping at an elevation of approximately 136 to 139 feet above mean sea level (MSL). The current site facilities include a station building with two automotive service bays equipped with hydraulic lifts, four dispenser islands and two canopies, two 12,000-gallon double-wall fiberglass gasoline underground storage tanks (USTs), and one above ground waste-oil tank. Six groundwater monitoring wells are currently present at the site. Locations of the pertinent site features are shown on Figure 2.

2.2 Geology and Hydrogeology

The site is located on the western flank of the Oakland Hills in an area underlain by Holocene age alluvium. The alluvial deposits are composed of unconsolidated, moderately sorted, permeable silt with coarse sand and gravel. The northwest trending Hayward fault is located approximately 1,500 feet northeast of the site (Helley, 1979). The nearest surface waters are Sausal Creek, located approximately 500 feet west of the site, and Peralta Creek, located 2,300 feet southeast of the site. Additionally, East Bay Municipal Utility District's Central Reservoir is located approximately 1,300 feet west of the site.

In general, subsurface soils are composed of clay to depths of approximately 9 to 15 feet below ground surface (bgs), underlain by gravel with varying amounts of clay and sand to depths of approximately 18 to 20 feet bgs, which in turn is underlain by clay and clayey sand to 25 feet bgs, the total depth of the borings. The exception was well boring MW-1, in which only clay was encountered to 25 feet bgs. During drilling, groundwater was typically encountered at approximately 10.5 feet bgs, except for well boring MW-1, where groundwater was not encountered. Groundwater typically first occurred in a gravel or clayey gravel which ranged in depth from approximately 9 to 15 feet bgs, except in well boring MW-2 where groundwater was encountered in the clay several feet above the gravel zone.

The most recent monitoring and sampling event occurred at the site on November 26, 2002. Depth to water in the monitoring wells on that date ranged from 7.78 to 9.89 feet below the top of well casings (TOC). Groundwater during this event was reported to flow toward the west/southwest, at a calculated gradient of 0.007 to 0.04 ft/ft. A potentiometric map is included as Figure 3.

2.3 Previous Environmental Work

In April and May of 1998, the gasoline USTs, product piping and dispensers were removed and replaced. Four soil samples were collected from the sidewalls of the former gasoline UST pit at a depth of approximately 8.5 feet bgs. Concentrations of Total Petroleum Hydrocarbons as gasoline (TPHg) in the soil samples ranged from 44 to 1,700 parts per million (ppm); benzene concentrations ranged from 0.16 to 17 ppm; and methyl tertiary butyl ether (MTBE) concentrations ranged from not detected (ND) to 16 ppm. Eight soil samples were collected from the beneath the former product dispensers at a depth of approximately 4 feet bgs. Concentrations of TPHg in the soil samples ranged from ND to 660 ppm; benzene concentrations ranged from ND to 5.1 ppm; and MTBE concentrations ranged from ND to 150 ppm.

A 550-gallon waste oil UST and associated piping was also removed in May 1998. One soil sample was collected from beneath the former waste oil UST at a depth of approximately 8.5 feet bgs. TPHg were detected in the soil sample at 820 ppm; benzene was detected at 2.7 ppm, Total Petroleum Hydrocarbons as diesel (TPHd) were detected at 200 ppm; Total Oil and Grease (TOG) was detected at 56 ppm; elevated concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were also reported. One soil sample was also collected from beneath the piping at a depth of approximately 2 feet bgs. The sample was reported as all ND except for TPHd at 1.5 ppm, and background concentrations of metals.

A total of approximately 1,166 tons of soil were overexcavated and transported from the site to Allied Waste's Forward Landfill in Manteca, California. Additionally, 40,000 gallons of groundwater were pumped from the UST pit and transported to the Tosco Refinery in Rodeo, California for disposal. A conductor casing was installed in the backfill during installation of the replacement gasoline USTs. The waste oil tank was replaced with an above ground tank.

In April of 2000, four groundwater monitoring wells were installed at the site. MTBE was not detected in any of the soil samples analyzed from the four well borings. TPHg and Benzene, Toluene, Ethylbenzene and xylenes (BTEX) were not detected in any of the soil samples analyzed from well borings MW-1 or MW-4. However, TPHg and BTEX were detected in shallow soil samples collected from well borings MW-2 and MW-3 at the following concentrations: MW-2 contained TPHg at 1,600 ppm and benzene at 5.1 ppm; MW-3 contained TPHg at 79 ppm and benzene at 0.031 ppm. Low concentrations of TPHd were detected in the soil samples analyzed from boring MW-3 at concentrations ranging from 1.3 to 8.4 ppm.

Groundwater samples from wells MW-3 and MW-4 have been ND for TPHg, BTEX and MTBE since quarterly sampling began in May of 2000. Groundwater samples from MW-1 have only contained low concentrations of MTBE ranging from 3.9 to 26 parts per billion (ppb). MW-2 initially contained high concentrations of TPHg and benzene, both of which have recently decreased by up to two orders of magnitude. MTBE has not been identified in MW-2. It is GR's understanding that as of January of 2001, Tosco no longer delivers fuel containing MTBE to service stations in northern California.

3.0 FIELD WORK

Field work was conducted in accordance with GR's Field Methods and Procedures (Appendix A), and the Site Safety Plan dated April 10, 2002. The soil borings were advanced under drilling permit numbers W02-1032, W02-1033 and W02-1034, issued on October 24, 2002 by the Alameda County Public Works Agency (ACPWA).. Copies of the drilling permits are included in Appendix B.

Underground Service Alert (USA) was notified at least 48 hours prior to drilling at the site (confirmation #470654). As a precautionary measure, a private subsurface utility locator was contracted to identify utilities near the proposed boring locations. The borings were hand excavated for the first five feet bgs to further insure that no utilities were disturbed.

3.1 Soil Boring and Monitoring Well Installation

On November 20, 2002, a GR geologist observed Cascade Drilling Incorporated, of Rancho Cordova, California (C57 #717510), advance four on-site soil borings (B-1, B-2, MW-5, and MW-6) at the locations shown on Figure 2. The well borings were drilled to 25 feet bgs and the soil borings were drilled to 12 feet bgs (B-1) and 15 feet bgs (B-2), using 8-inch diameter hollow-stem augers driven by a truck mounted drill rig. Soil samples were collected at approximately 5-foot intervals beginning at 5 feet bgs. The GR geologist prepared logs of the borings and screened the soil samples in the field for the presence of volatile organic compounds (VOC). Screening data are presented on the boring logs (Appendix B).

Groundwater monitoring wells were constructed in two of the borings using 5-feet of two-inch diameter Schedule 40 PVC blank casing and 20-feet of 0.020-inch machine-slotted well screen. Lonestar #3 graded sand was placed in the annular space of the wells across the entire screened interval and extending one foot above the top of the screen. The wells were then sealed with one foot of hydrated bentonite followed by neat cement grout. The top of each well is protected by a traffic-rated water-resistant, vault box, locking well cap, and lock. Well construction details are presented on the boring logs in Appendix B. Borings B-1 and B-2 were backfilled with neat cement grout to approximately one half a foot bgs and finished to surface with cold asphalt patch. Mr. James Yoo of the ACPWA approved the grouting procedures.

Soil cuttings generated during drilling activities were placed on and covered with plastic, and stored at the site pending disposal options. A composite disposal confirmation sample [Comp-1 (A,B,C,D)] was collected from the stockpiled soil cuttings. Stockpile sampling procedures are presented in Appendix A.

3.2 Hydropunch Groundwater Sampling

Depth discrete groundwater sampling was attempted at borings B-1 and B-2 with the use of a hydropunch sampling tool advanced ahead of the drilling auger. After the hydropunch was driven to the target depth, the body of the tool was opened to expose the hydropunch screen. In boring B-1, a depth discrete hydropunch sample was attempted between 8.5 and 10 feet bgs but was unsuccessful due to insufficient groundwater present at this depth interval. Consequently, the boring was advanced to 12 feet bgs and groundwater sample B-1-W(12) was collected directly from the boring without the use of a hydropunch sampling tool. In boring B-2, the boring was advanced to 14.5 feet bgs where grab groundwater sample B-2-W(14.5) was collected directly from the boring.

Water samples were collected with the use of a cleaned teflon bailer place through the auger. GR sample handling methods are presented in the GR Field Methods and Procedures in Appendix A.

3.3 Well Monitoring Development and Sampling

On November 26, 2002, static groundwater levels were measured in the new and preexisting wells. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are summarized in Table 1.

After the static water levels were measured, the new monitoring wells (MW-5 and MW-6) were developed using a 2-inch diameter stainless steel bailer and a submersible pump. Wells MW-1, through MW-4 were sampled in accordance with the quarterly monitoring and sampling program. Copies of the GR Well Development and Groundwater Sampling Field Data Sheets are included in Appendix C. A Potentiometric Map is included with this report on Figure 2.

After development, groundwater samples were collected from the new monitoring wells as specified by GR's Field Methods and Procedures (Appendix A). Water purged during well development and sampling was transported to the ConocoPhillips Refinery in Rodeo, California, for treatment and disposal.

3.4 Wellhead Survey

Following installation, the well casing elevations and horizontal coordinates of the new wells were surveyed by Virgil Chavez Land Surveying of Vallejo, California (Licensed California Land Surveyor No. 6323). Top of casing (TOC) elevations were measured relative to MSL, and the horizontal locations of the wells were measured using the Global Positioning System (GPS). Well casing elevation data are presented in Table 1. A copy of the surveyor's report is included in Appendix D.

3.5 Waste Disposal

Drill cuttings were placed on and covered with plastic sheeting and stored at the site pending disposal. After completion of drilling, one four-point composite disposal characterization sample was collected from the drill cuttings and submitted to the laboratory for compositing and analysis. The analytical results from the composite soil sample were submitted to Allied Waste's Forward Landfill in Manteca, California, for disposal.

On December 20, 2002, 5.54 tons of soil (drill cuttings) were removed from the site and transported to the Allied Waste Inc. (Allied) Forward Landfill in Manteca, California, by Tim Manley Trucking of Sacramento, California, under disposal approval No. 2736. A copy of the Allied soil acceptance letter is included in Appendix D.

3.6 Laboratory Analysis

Selected soil samples were submitted to Sequoia Analytical in Walnut Creek, California (ELAP #1271) and groundwater samples were sent to Severn Trent Services in Pleasanton California (ELAP #2496), for analysis. Soil and groundwater samples were analyzed for TPHg, Benzene, Toluene, Ethyl-Benzene, Total xylenes (BTEX), Ethanol, tert-Butyl alcohol (TBA), MtBE, Di-isopropyl Ether (DIPE), Ethyl tert-butyl ether (ETBE), 1,2-Dichloroethane (DCA), tert-Amyl methyl ether (TAME) and Ethylene dibromide (EDB) by EPA Method 8260B. The drill cuttings composite sample was analyzed for TPHg, BTEX, and MTBE by EPA Methods 8015/8021, and for total lead by EPA Method 6010B. Copies of the laboratory analytical reports and chain-of-custody forms are included in Appendix E.

4.0 RESULTS

4.1 Subsurface Conditions

Groundwater was encountered in the borings during drilling at depths ranging from approximately 11.5 to 19 feet bgs. Soil encountered during drilling consisted primarily of silt and clay from approximately 0.5 feet bgs to approximately 17 feet bgs. In well borings MW-5 and MW-6, clayey gravel and gravelly clay was observed at approximately 17 feet bgs to approximately 22 feet bgs (MW-5) and approximately 13 to 19 feet bgs (MW-6). In boring B-1, silt with sand was observed from approximately 0.5 feet bgs to the total depth of the boring (14 feet bgs). Silt with sand was observed in boring B-2 from approximately 0.5 feet bgs to approximately 4 feet bgs underlain by clay to the total depth of the boring (12 feet bgs). Detailed descriptions of the soil encountered during drilling are presented in the boring logs in Appendix B.

4.2 Soil Analytical Results

Soil sample B-1-S(8), collected from boring B-1 at 8 feet bgs, contained concentrations of benzene at 0.22 ppm, MtBE at 0.93 ppm and TBA at 0.42 ppm. Soil samples B-2-S(11), MW-5-S(10) and MW-6-S(10) contained TPHg and benzene at concentrations ranging from 190 to 1,300 ppm, and 4.2 to 11 ppm, respectively. Soil sample MW-6-S(10) contained MtBE at 0.39 ppm.

The stockpile soil sample, Comp-1 (A,B,C,D), contained concentrations of BTEX and MtBE that were acceptable for disposal at Allied Waste's Forward Landfill. The chemical analytical results for the soil samples are summarized in Table 2.

4.3 Groundwater Analytical Results

Groundwater samples collected from well MW-5 were reported to contain TPHg at 2,500 ppb, benzene at 350 ppb, and MTBE at 470 ppb. Groundwater collected from well MW-6 contained TPHg at 11,000 ppb, Benzene at 1,200 ppb, and MTBE at 490 ppb. Grab groundwater samples collected from the two soil borings were reported to contain elevated concentrations of petroleum hydrocarbons in both samples. In borings B-1 and B-2, respective concentrations of TPHg were reported at 190,000 and 17,000 ppb, benzene at 19,000 and 1,600 ppb, and MtBE at 57,000 and 240 ppb. Groundwater analytical data are summarized in Table 3.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Elevated concentrations of dissolved petroleum hydrocarbons were detected in grab groundwater samples from the two soil borings. Boring B-1, located approximately 12 feet south of monitoring well MW-2, had the highest reported concentrations. Historical groundwater concentrations in well MW-2 have been three orders of magnitude lower than the reported results for grab groundwater from boring B-1. GR requested that the laboratory re-check the results for the samples from B-1, and the laboratory reported that their results were confirmed. It is GR's experience that hydrocarbon concentrations in grab groundwater samples are typically one order of magnitude higher than concentrations in samples collected from monitoring wells at a given site. Grab groundwater results from boring B-2, located near the UST pit, are one order of magnitude lower than results from B-1, and therefore appear to be more representative of actual groundwater conditions at the site.

The two new groundwater monitoring wells are located in the downgradient groundwater flow direction from the UST pit and dispenser islands. Both new wells were reported to contain detectable concentrations of petroleum hydrocarbons. GR recommends that wells MW-5 and MW-6 be added to the quarterly monitoring and sampling program to further assess groundwater conditions at the site. Once additional groundwater data has been received and interpreted, GR will make recommendations for additional subsurface investigation at the site, as warranted.

6.0 REFERENCES

Gettler - Ryan Inc., 2003, Groundwater Monitoring and Sampling Report, Fourth Quarter - Event of November 26, 2002, dated January 14, 2003.

Gettler - Ryan Inc., 2002, Work Plan Addendum, Tosco (76) Service Station No. 4625, 3070 Fruitvale Avenue, Oakland, California dated October 14, 2002,.

Gettler - Ryan Inc., 2002, Work Plan For limited Subsurface Investigation, Tosco (76) Service Station No. 4625, 3070 Fruitvale Avenue, Oakland, California dated May 24, 2002.

Gettler-Ryan Inc., 2002, Groundwater Monitoring and Sampling Report, First Quarter - Event of February 6, 2002, Tosco (76) Service Station #4625, 3070 Fruitvale Avenue, Oakland, California, dated March 18, 2002.

Gettler-Ryan Inc., 2000, Limited Subsurface Investigation Report, Tosco (76) Service Station No. 4625, 3070 Fruitvale Avenue, Oakland, California, dated August 16, 2000.

Gettler-Ryan Inc., 1998, Underground Storage Tank and Product Line Replacement Report for Tosco (Unocal) Service Station No. 4625, 3070 Fruitvale Avenue, Oakland, California, dated August 10, 1998.

Helley, E. J. and K. R. Lajoie, 1979, Flatland Deposits of the San Francisco Bay Region, California - Their Geology and Engineering Properties, and Their Importance to Comprehensive Planning: U.S. Geological Survey Professional Paper 943.

TABLES

TABLE 1- GROUNDWATER MONITORING DATA

Tosco (76) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

Sample No.	Sample Date	Total Well Depth (ft.)	Well[1] Elev. (ft. MSL)	Depth to Water (ft.)	Floating Product (ft.)	Ground Water Elev. (ft. MSL)
MW-1	11/26/2002	25.10	137.57	7.78	0.00	129.79
MW-2	11/26/2002	19.80	139.85	9.81	0.00	130.04
MW-3	11/26/2002	24.70	138.89	8.79	0.00	130.10
MW-4	11/26/2002	24.65	137.81	8.08	0.00	129.73
MW-5	11/26/2002	24.40	137.66	9.89	0.00	127.77
MW-6	11/26/2002	23.60	138.88	9.19	0.00	129.69

EXPLANATION:
ft. = feet
ft. MSL = feet above to Mean Sea Level
[1] = Well elevations reported as top of casing (TOC) surveyed by Virgil Chavez, Licensed California Land Surveyor No. 6323

TABLE 2- SOIL CHEMICAL ANALYTICAL DATA

Tosco (76) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

Sample Location and ID	Date Sampled	Sample Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MtBE (ppm)	TBA (ppm)	DIPE (ppm)	ETBE (ppm)	TAME (ppm)	1,2-DCA (ppm)	EDB (ppm)	Ethanol (ppm)	Lead (ppm)
Soil Borings																
B-1																
B-1-S(8)	11/20/02	8	<2.5	**0.022**	<0.012	<0.012	<0.012	**0.93**[1]	**0.42**	<0.012	<0.012	<0.012	<0.012	<0.012	<0.50	NA
B-2																
B-2-S(11)	11/20/02	11	**1,300**	**11**	**81**	**45**	**220**	<1.2	<12	<1.2	<1.2	<1.2	<1.2	<1.2	<50	NA
Monitoring Wells																
MW-5																
MW-5-S(10)	11/20/02	10	**740**	**2.8**	**18**[2]	**32**[2]	**160**[2]	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<20	NA
MW-6																
MW-6-S(10)	11/20/02	10	**190**	**4.2**	**26**	**5.3**	**41**	**0.39**	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<10	NA
Stockpile Sample																
Comp-(A,B,C,D)	11/20/02	--	<2.5	**0.025**	**0.031**	**0.044**	**0.20**	**0.072**	NA	NA	NA	NA	NA	NA	NA	<10

EXPLANATION:

feet = feet below ground surface
ppm = parts per million
<1.0 = analyte not detected at or above the laboratories listed reported limit.
[1] = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
[2] = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be useful for their intended purpose.
-- = not applicable
NA = not analyzed

ANALYTICAL LABORATORY:

Sequoia Analytical Sacramento, CA (ELAP #1624)

ANALYTICAL METHODS:

TPHg = Total Petroleum Hydrocarbons as gasoline according to EPA Method 8260B
Benzene, Toluene, Ethylbenzene and Xylenes according to EPA Method 8260B
MtBE = methyl tert-butyl ether according to EPA Method 8260B
TBA = tert-butyl alcohol according to EPA Method 8260B
DIPE = di-isopropyl ether according to EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane according to EPA Method 8260B
TAME = tert-amyl methyl ether according to EPA Method 8260B
EDB = ethylene dibromide or 1,2-dibromoethane according to EPA Method 8260B
ETBE = ethyl tert-butyl ether according to EPA Method 8260B
Ethanol according to EPA Method 8260B
Lead according to EPA Method 6010

TABLE 3 - GROUNDWATER CHEMICAL ANALYTICAL DATA

Former Tosco (76) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

Sample No.	Sample Date	Sample Depth (feet)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)	Ethanol (ppb)
Monitoring Wells															
MW-5	11/26/2002	--	**2,500**	**350**	**39**	**32**	**640**	<1,000	**470**	<20	<20	<20	<20	<20	<5,000
MW-6	11/26/2002	--	**11,000**	**1,200**	**2,000**	**400**	**2,300**	<2,000	**490**	<40	<40	<40	<40	<40	<10,000
Soil Borings															
B-1-W (12)	11/20/2002	12.0	**190,000**	**19,000**	**38,000**	**5,900**	**30,000**	<5,000	**57,000**	<500	<500	<500	<500	<500	<50,000
B-2-W (14.5)[1]	11/20/2002	14.5	**17,000**	**1,600**	**2,800**	**590**	**2,500**	<100	**240**	<10	<10	<10	<10	<10	<1,000

EXPLANATIONS:

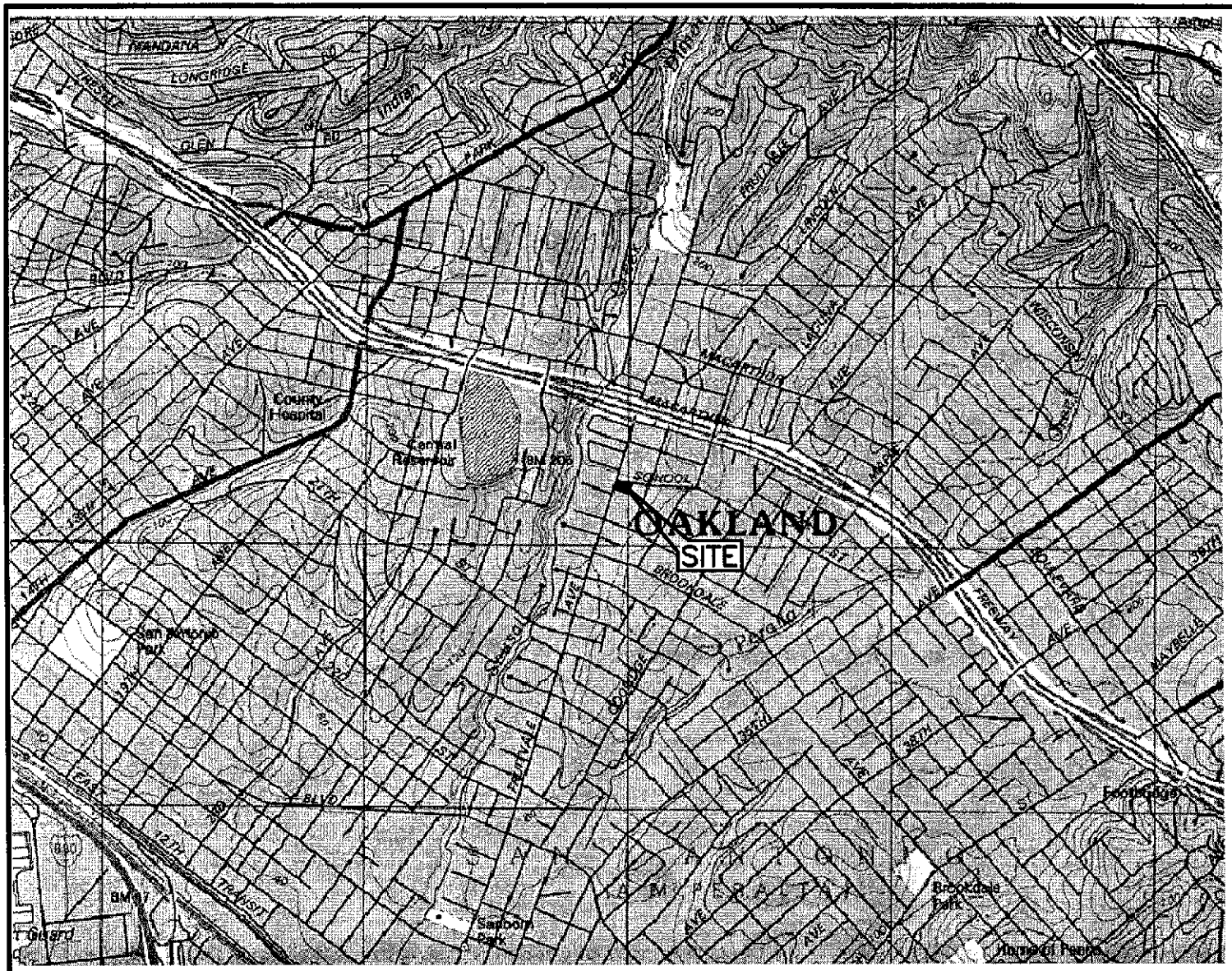
feet = feet below ground surface
ppb = parts per billion
-- = not applicable
<50 = analyte not detected at or above laboratories reporting limit
[1] = This sample was originally analyzed with the EPA recommended holding time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be useful for their intended purpose.

ANALYTICAL METHODS:

TPHg = Total Petroleum Hydrocarbons as gasoline according to EPA Method 8260B
Benzene, Toluene, Ethylbenzene and Xylenes according to EPA Method 8260B
TBA = tert-Butyl alcohol by EPA Method 8260B
MTBE = Methyl tert-butyl ether by EPA Method 8260B
DIPE = Di-isopropyl ether by EPA Method 8260B
ETBE = Ethyl tert-butyl ether by EPA Method 8260B
TAME = tert-Amyl methyl ether by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane by EPA Method 8260B
Ethanol by EPA Method 8260B
EDB = Ethylene dibromide by EPA Method 8260B

ANALYTICAL LABORATORY:

Severn Trent Laboratories Pleasanton, CA (ELAP # 2496)
Sequoia Analytical Sacramento, CA (ELAP #1624)



Source: National Geographic California Seamless USGS Topographic Maps on CD-ROM.

GETTLER - RYAN INC.
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Dublin, CA 94568 (925) 551-7555

VICINITY MAP
Tosco (76) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
140158		12/02	

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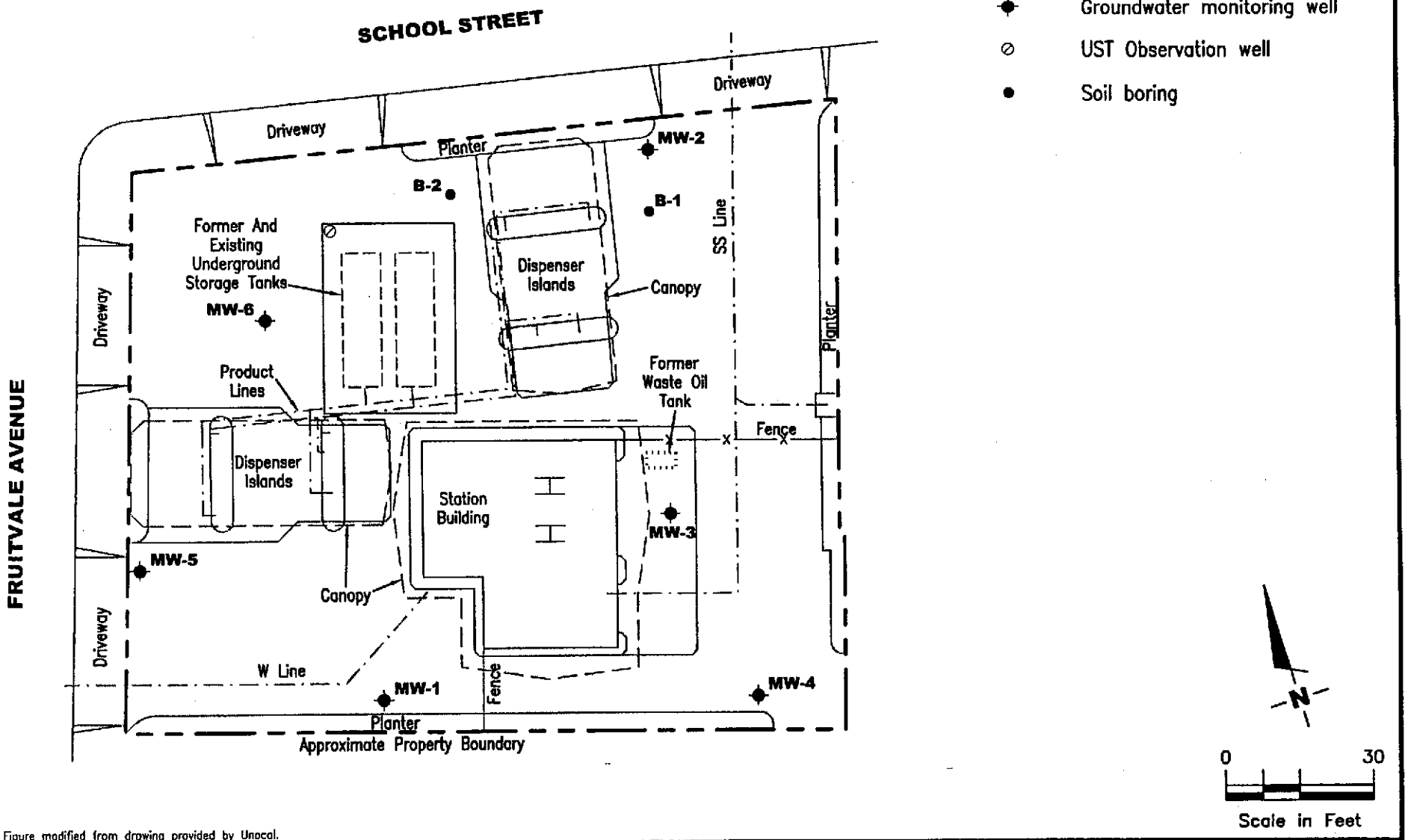

Source: Figure modified from drawing provided by Unocal.

GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
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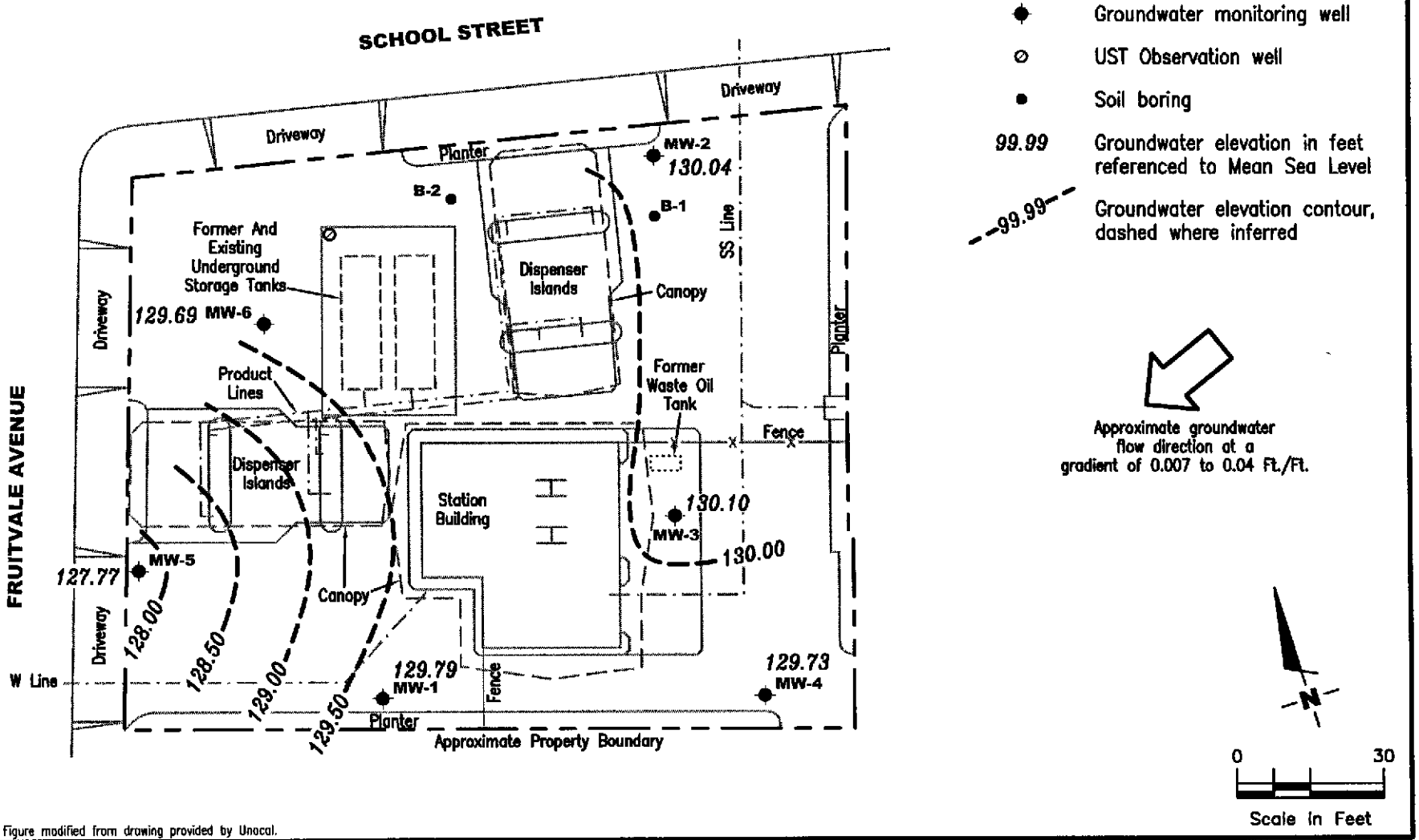
SITE PLAN
Tosco (76) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
140158.05		12/02	

FILE NAME: P:\ENVIRO\TOSCO\4625\A00-4625.DWG | Layout Tab: Well Install 12-02



Source: Figure modified from drawing provided by Unocal.

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

POTENTIOMETRIC MAP
Tosco (76) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

FIGURE
3

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
140158.05		November 26, 2002	

FILE NAME: P:\ENVIRO\TOSCO\4625\A00-4625.DWG | Layout Tab: Plot4 4-03

APPENDIX A

GR FIELD METHODS AND PROCEDURES

GETTLER-RYAN INC.
FIELD METHODS AND PROCEDURES

Site Safety Plan

Field work performed by Gettler-Ryan Inc. (GR) is conducted in accordance with GR's Health and Safety Plan and the Site Safety Plan. GR personnel and subcontractors who perform work at the site are briefed on the of these plans contents prior to initiating site work. The GR geologist or engineer at the site when the work is performed acts as the Site Safety Officer. GR utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Exploratory soil borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples are collected from the exploratory soil boring with a split-barrel sampler or other appropriate sampling device fitted with clean brass or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soil is described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with Teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based on:

a. depth relative to underground storage tanks and existing ground surface
b. depth relative to known or suspected groundwater
c. presence or absence of contaminant migration pathways
d. presence or absence of discoloration or staining
e. presence or absence of obvious gasoline hydrocarbon odors
f. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap. Head-space screening results are recorded on the boring log. Head-space screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Stockpile Sampling

Stockpile samples consist of four individual sample liners collected from each 100 cubic yards (yd^3) of stockpiled soil material. Four arbitrary points on the stockpiled material are chosen, and discrete soil sample is collected at each of these points. Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless steel or brass tube into the stockpiled material with a wooden mallet or hand driven soil sampling device. The sample tubes are then covered on both ends with Teflon sheeting, capped, labeled, placed in the cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

Construction of Monitoring Wells

Monitoring wells are constructed in the exploratory borings with Schedule 40 polyvinyl Chloride (PVC) casing. All joints are thread-joined; no glues, cements, or solvents are used in well construction. The screened interval is constructed of machine-slotted PVC well screen which generally extends from the total well depth to a point above the groundwater. An appropriately-sized sorted sand is placed in the annular space adjacent to the entire screened interval. A bentonite transition seal is placed in the annular space above the sand, and the remaining annular space is sealed with neat cement or cement grout.

Wellheads are protected with water-resistant traffic rated vault boxes placed flush with the ground surface. The top of the well casing is sealed with a locking cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

Storing and Sampling of Drill Cuttings

Drill cuttings are stockpiled on plastic sheeting or stored in drums depending on site conditions and regulatory requirements. Stockpile samples are collected and analyzed on the basis of one composite sample per 50 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless or brass sample tube into the stockpiled material with a hand, mallet, or drive sampler. The sample tubes are then covered on both ends with Teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

Wellhead Survey

The top of the newly-installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (MSL).

Well Development

The purpose of well development is to improve hydraulic communication between the well and surrounding aquifer. Prior to development, each well is monitored for the presence of separate-phase hydrocarbons and the depth-to-water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Groundwater Monitoring and Sampling

Decontamination Procedures

All physical parameter measuring and sampling equipment are decontaminated prior to sample collection using Alconox or equivalent detergent followed by steam cleaning with deionized water. During field sampling, equipment placed in a well are decontaminated before purging or sampling the next well by cleaning with Alconox or equivalent detergent followed by steam cleaning with deionized water.

Water-Level Measurements

Prior to sampling each well, the static water level is measured using an electric sounder and/or calibrated portable oil-water interface probe. Both static water-level and separate-phase product thickness are measured to the nearest ±0.01 foot. The presence of separate-phase product is confirmed using a clean, acrylic or polyvinylchloride (PVC) bailer, measured to the nearest ±0.01 foot with a decimal scale tape. The monofilament line used to lower the bailer is replaced between borings with new line to preclude the possibility of cross-contamination. Field observations (e.g. product color, turbidity, water color, odors, etc.) are noted. Water-levels are measured in wells with known or suspected lowest dissolved chemical concentrations to the highest dissolved concentrations.

Sample Collection and Labeling

A temporary PVC screen is installed in the boring to facilitate a grab groundwater sample collection. Samples of groundwater are collected from the surface of the water in each well or boring using the Teflon bailer or a pump. The water samples are then gently poured into laboratory-cleaned containers and sealed with Teflon-lined caps, and inspected for air bubbles to check for headspace. The samples are then labeled by an adhesive label, noted in permanent ink, and promptly placed in an ice storage. A Chain-of-Custody Record is initiated and updated throughout handling of the samples, and accompanies the samples to the laboratory certified by the State of California for analyses requested.

APPENDIX B

PERMITS AND BORING LOGS

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5654 MARION MACALLANES/FRANK GOBD (510) 670-5785
FAX (510)782-1939 Janice Yon 670-6700-6633

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Tosco Station No. 4625
3070 Fruitvale Ave
Oakland, CA

CLIENT
Name Tosco Corporation
Address 2000 Crow Canyon Pl. Phone 925-277-2384
City San Ramon Zip 94583

APPLICANT
Name Getter Ryan
Fax 925-789-3218
Address 364 N. McDowell #B Phone 707-789-3255
City Petaluma Zip 94954

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☒
Monitoring		Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. 717510

WELL PROJECTS
Drill Hole Diameter ____ ____ in. Maximum
Casing Diameter ____ ____ in. Depth ____ ft.
Surface Seal Depth ____ ____ ft. Number ____

GEOTECHNICAL PROJECTS
Number of Borings 2 Maximum
Hole Diameter 8 in. Depth 10 ft.

ESTIMATED STARTING DATE 11-20-02
ESTIMATED COMPLETION DATE 11-21-02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ DATE 10-22-02

Rev.4-4-00

FOR OFFICE USE

PERMIT NUMBER W02-1032
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources- Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED _____ DATE 10-24-02

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554 ~~MARLON MAGALLANES/FRANK CODD (510) 670-5783~~
FAX (510)782-1939 James You 510 - 670-6633

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Tosco Station No. 4625
3070 Coyote Ave
Oakland, CA

CLIENT
Name Tosco Corporation
Address 2000 Crow Canyon Pl. Phone 925-277-2384
City San Ramon Zip 94583

APPLICANT
Name Getter Ryan
Fax 713-789-3218
Address 1364 N. McDowell Blvd Phone 707-782-3255
City Petaluma Zip 94954

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☒
Monitoring	☒	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. 717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 25 ft.
Surface Seal Depth 4.5 ft. Number MW-5

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum
Hole Diameter ____ in. Depth ____ ft.

ESTIMATED STARTING DATE 11-20-02
ESTIMATED COMPLETION DATE 11-21-02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] DATE 10-22-02

Rev 4-4-00

FOR OFFICE USE

PERMIT NUMBER W02-1033
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources - Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED [signature] DATE 10-24-02

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554 MARLON MAGALLANES/FRANK CODD (510) 670-5783
FAX (510)782-1939 James Yin 510-670-6633

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Tosco Station No. 4625
3070 Fruitvale Ave
Oakland, CA

CLIENT
Name Tosco Corporation
Address 2000 Crow Canyon Pl. Phone 925-277-2384
City San Ramon Zip 94583

APPLICANT
Name Better-Ryan
Soil Analysis Fax 707-794-3248
Address 364 N. McDowell #2 Phone 707-787-3255
City Petaluma Zip 94954

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☒
Monitoring	☒	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. 717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 25 ft.
Surface Seal Depth 4.5 ft. Number

GEOTECHNICAL PROJECTS
Number of Borings
Hole Diameter in. Maximum Depth NA ft.

ESTIMATED STARTING DATE 11-20-02
ESTIMATED COMPLETION DATE 11-21-02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] DATE 10-22-02

Rev.4-4-00

FOR OFFICE USE

PERMIT NUMBER WO2-1034
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources- Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED [signature] DATE 10-24-02

MAJOR DIVISIONS				TYPICAL NAMES
COARSE-GRAINED SOILS (MORE THAN HALF IS COARSER THAN NO. 200 SIEVE)	GRAVELS (MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE)	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	Well graded gravels with or without sand, little or no fines
			GP	Poorly graded gravels with or without sand, little or no fines
		GRAVELS WITH OVER 15% FINES	GM	Silty gravels, silty gravels with sand
			GC	Clayey gravels, clayey gravels with sand
	SANDS (MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE)	CLEAN SANDS WITH LITTLE OR NO FINES	SW	Well graded sands with or without gravel, little or no fines
			SP	Poorly graded sands with or without gravel, little or no fines
		SANDS WITH OVER 15% FINES	SM	Silty sands with or without gravel
			SC	Clayey sands with or without gravel
FINE-GRAINED SOILS (MORE THAN HALF IS FINER THAN NO. 200 SIEVE)	SILTS AND CLAYS (LIQUID LIMIT 50% OR LESS)		ML	Inorganic silts and very fine sands, rock flour, silts with sands and gravels
			CL	Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays
			OL	Organic silts or clays of low plasticity
	SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50%)		MH	Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic silts or clays of medium to high plasticity
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils

PID	Volatile vapors in ppm
bgs	below ground surface
(2.5YR 6/2)	Soil color according to Munsell Soil Color Charts (1993 Edition)
BLOWS/FT.	Sample drive hammer weight – 140 pounds falling 30 inches. Blows required to drive sampler 1 foot are indicated on the logs.

———	Observed contact
– – – –	Inferred contact
⊘	No soil sample recovered
■	"Undisturbed" sample
▽	First encountered groundwater level
▼	Static groundwater level

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

UNIFIED SOIL CLASSIFICATION
ASTM D 2488-85
AND
KEY TO SAMPLING DATA

Gettler-Ryan, Inc.

Log of Boring B-1

PROJECT: *Tosco (76) Service Station No. 4625*	LOCATION: *3070 Fruitvale Avenue, Oakland, California*
GR PROJECT NO. : *140158.05*	SURFACE ELEVATION:
DATE STARTED: *11/20/02*	WL (ft. bgs): *11.5* DATE: *11/20/02* TIME: *12:00*
DATE FINISHED: *11/20/02*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *12 feet*
DRILLING COMPANY: *Cascade Drilling*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Asphalt and baserock.	Boring backfilled with neat cement to ground surface.
	0			ML	SILT WITH SAND (ML) – dark brown (7.5YR 3/3), moist, medium stiff; 70% silt, 20% fine sand, 10% gravel.	
4				CL	CLAY (CL) – dark brown (7.5YR 3/3), moist, stiff; 85–90% clay, 10–15% silt, trace gravel.	
	0	13				
8	28	12	B-1-S (8)		Color changes to grayish green (5G 4/2).	Hydropunch from 8.5 to 10 feet. No water encountered.
12	109		B-1-W (12)		Bottom of boring at 12 feet bgs.	Grab groundwater sample B-1-W (12).
					(* = Converted to equivalent standard penetration blows/foot.)	
16						
20						
24						
28						

JOB NUMBER: *140158.05*

Gettler-Ryan, Inc.

Log of Boring B-2

PROJECT: *Tosco (76) Service Station No. 4625*	LOCATION: *3070 Fruitvale Avenue, Oakland, California*
GR PROJECT NO. : *140158.05*	SURFACE ELEVATION:
DATE STARTED: *11/20/02*	WL (ft. bgs): *14.5* DATE: *11/20/02* TIME: *13:20*
DATE FINISHED: *11/20/02*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *15 feet*
DRILLING COMPANY: *Cascade Drilling*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Asphalt and baserock.	Boring backfilled with neat cement to ground surface.
	1.6			CL	CLAY (CL) – dark gray (10YR 4/1), moist, very stiff; 95% clay, 5% silt, trace gravel.	
4	3.3					
	20					
	78	53			Color changes to greenish gray (5G 5/1), becomes hard; 85–90% clay, 10–15% silt.	
8						
	211	18	B-2-S (11)		Becomes very stiff; 95% clay, 5% silt.	
12	17	30			Color changes to brown (7.5YR 4/3), becomes hard.	
	68		B-2-W (14.5)		▽	Grab groundwater sample B-2-W (14.5).
					Bottom of boring at 15 feet bgs.	
16					(* = Converted to equivalent standard penetration blows/foot.)	
20						
24						
28						

JOB NUMBER: *140158.05*

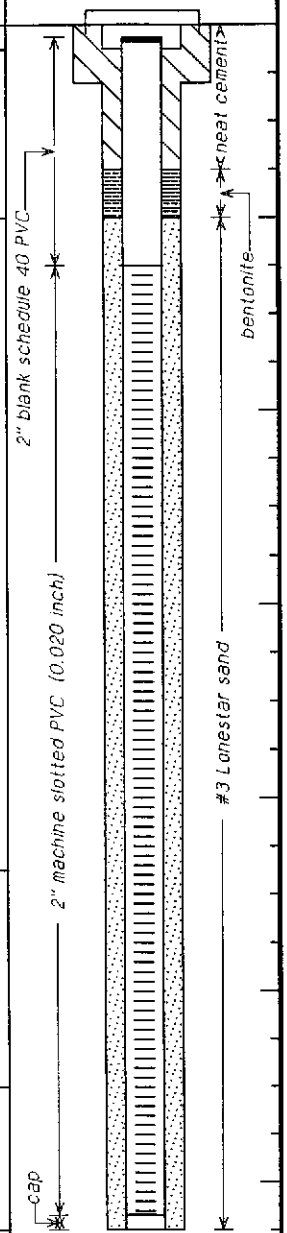
Gettler-Ryan, Inc.

Log of Boring MW-5

PROJECT: *Tosco (76) Service Station No. 4625*	LOCATION: *3070 Fruitvale Avenue, Oakland, California*
GR PROJECT NO. : *140158.05*	CASING ELEVATION:
DATE STARTED: *11/20/02*	WL (ft. bgs): *19.0* DATE: *11/20/02* TIME: *14:40*
DATE FINISHED: *11/20/02*	WL (ft. bgs): *9.5* DATE: *11/20/02* TIME: *17:00*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *25 feet*
DRILLING COMPANY: *Cascade Drilling*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
					Asphalt and baserock.
				CL	CLAY (CL) – dark greenish gray (7.5YR 2.5/1), moist, medium stiff; 100% clay, trace silt and gravel.
	0				
					Color changes to dark greenish gray (5GY 4/1), becomes stiff; 95% clay, 5% silt, trace plant roots.
4	0			ML	SILT (ML) – grayish green (5G 4/2), moist, hard; 80% clay, 20% silt, trace gravel.
	6.5	49	MW-5-S (5.5)		
8					Color changes to dark brown (7.5YR 3/3), becomes medium stiff; 90–95% silt, 5–10% fine sand.
	488	24	MW-5-S (10)		Color changes to grayish green (5G 4/2), becomes 80–90% silt, 10–20% fine sand.
12					Becomes 75–80% silt, 10–25% fine sand.
	1.7	45	MW-5-S (15)		Becomes hard.
16				CL	GRAVELLY CLAY (CL) – grayish green (5G 4/2), wet, hard; 60% clay, 40% gravel.
20	3.8	>100			
				ML	SILT (ML) – strong brown (7.5YR 4/6), moist, hard; 80–90% silt, 10–20% clay.
24	0	>100			
					Bottom of boring at 25 feet bgs.
					(* = Converted to equivalent standard penetration blows/foot.)
28					

WELL DIAGRAM



JOB NUMBER: *140158.05*

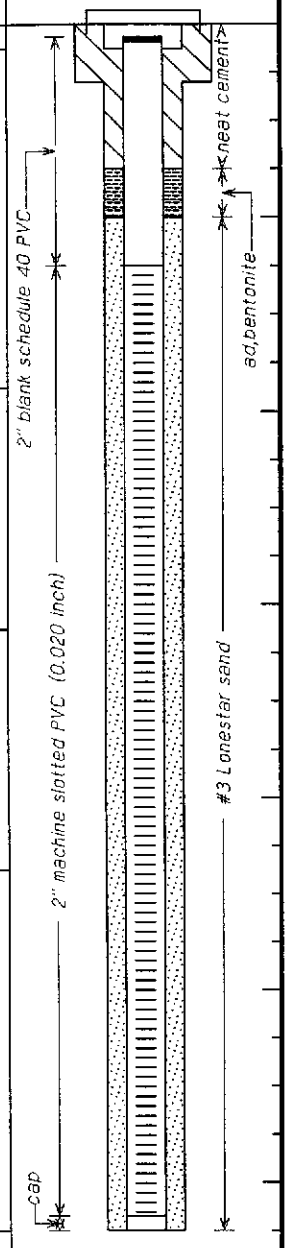
Gettler-Ryan, Inc.

Log of Boring MW-6

PROJECT: *Tosco (76) Service Station No. 4625*	LOCATION: *3070 Fruitvale Avenue, Oakland, California*
GR PROJECT NO. : *140158.05*	CASING ELEVATION:
DATE STARTED: *11/20/02*	WL (ft. bgs): *15.0* DATE: *11/20/02* TIME: *11:20*
DATE FINISHED: *11/20/02*	WL (ft. bgs): *8.6* DATE: *11/20/02* TIME: *16:00*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *25 feet*
DRILLING COMPANY: *Cascade Drilling*	GEOLOGIST: *Andrew Smith*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
					Asphalt and baserock.
				CL	CLAY (CL) – black (10YR 2/1), moist, medium stiff; 95% clay, 5% silt, trace gravel.
	1.7				
4					trace roots.
	107	63			Color changes to dark brown (7.5YR 3/2), becomes hard; 90–95% clay, 5–10% silt.
8				ML	SILT (ML) – grayish brown (7.5YR 4/3), moist, very stiff; 85–90% silt, 10–15% clay.
	111	17	MW-6-S (10)		
12				GC	CLAYEY GRAVEL (GC) – light brown (7.5YR 6/3), wet, very dense; 60% medium to coarse gravel, 30% clay, 10% fine sand.
	8.7	>100	MW-6-S (15)		
16				CL	CLAY (CL) – strong brown (7.5YR 5/6), wet, hard; 85–90% clay, 10–15% silt.
20	2.0	>100			
24					Bottom of boring at 25 feet bgs.
					(* = Converted to equivalent standard penetration blows/foot.)
28					

WELL DIAGRAM



JOB NUMBER: *140158.05*

APPENDIX C

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD DATA SHEETS

GETTLER-RYAN INC.

GROUNDWATER MONITORING SUMMARY SHEET

CLIENT/
FACILITY: **Tosco #4625** JOB #: **180255**

ADDRESS: **3070 Fruitvale Avenue** DATE: 11-26-02 (inclusive)

CITY: **Oakland, CA** SAMPLER: G.R.

Well ID	Total Well Depth	Depth to Water	Product Thickness (ft)	List Item IN Well	Additional Comments Purge Vol
MW-1	25.10	7.78	0		9
MW-2	19.80	9.81			5
MW-3	24.70	8.79			8.5
MW-4	24.65	8.08			8.5
MW-5	24.40	9.89			24
MW-6	23.60	9.19			21
USTW	15.20	9.16			m. oney

Comments: New well depths

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/Facility #: **Tosco #4625** Job Number: **180255**

Site Address: **3070 Fruitvale Avenue** Event Date: 11-26-07

City: **Oakland, CA** Sampler: G.R

Well ID **MW-5** Well Condition: OK

Well Diameter **2** in.

Initial Total Depth 24.00 ft.

Final Total Depth 24.40 ft.

Depth to Water 9.89 ft.

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

14.11 xVF 0.17 = 2.39 x3 (case volume) = Estimated Purge Volume: 24 gal.

Purge Equipment:

Disposable Bailer
Stainless Steel Bailer ✓
Stack Pump
Suction Pump
Grundfos
Other:

Sampling Equipment:

Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 0840 Weather Conditions: Clear

Sample Time/Date: 0930 / 11-26-07 Water Color: Light Brown Odor: NO

Purging Flow Rate: — gpm. Sediment Description:

Did well de-water? NO If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
	2					
0850	4	7.56	785	29.8		
	6					
0855	8	7.36	517	29.7		
	10					
0900	12	7.38	511	29.8		
	14					
0905	16	7.35	514	29.7		
	18					
0910	24	7.38	516	30.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	5 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/8 Oxy's(8260)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/Facility #: **Tosco #4625** Job Number: **180255**

Site Address: **3070 Fruitvale Avenue** Event Date: 11-26-02

City: **Oakland, CA** Sampler: G. R

Well ID **MW-6** Well Condition: OK

Well Diameter **2** in.

Initial Total Depth 21.60 ft.

Final Total Depth 23.60 ft.

Depth to Water 9.19 ft.

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

12.41' xVF 0.17 = 2.11 x 10 (case volume) = Estimated Purge Volume: 21 gal.

Purge Equipment:

Disposable Bailer ____

Stainless Steel Bailer ✓

Stack Pump ____

Suction Pump ____

Grundfos ____

Other: ____

Sampling Equipment:

Disposable Bailer ✓

Pressure Bailer ____

Discrete Bailer ____

Other: ____

Time Started: ____ (2400 hrs)

Time Bailed: ____ (2400 hrs)

Depth to Product: ____ ft

Depth to Water: ____ ft

Hydrocarbon Thickness: ⊖ ft

Visual Confirmation/Description: ____

Skimmer / Absorbant Sock (circle one)

Amt Removed from Skimmer: ____ gal

Amt Removed from Well: ____ gal

Product Transferred to: ____

Start Time (purge): 0730 Weather Conditions: Clear

Sample Time/Date: 0825 / 11-26-02 ✓ Water Color: Brown Odor: NO

Purging Flow Rate: ____ gpm. Sediment Description: ____

Did well de-water? NO If yes, Time: ____ Volume: ____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
	2					
0740	4	7.25	544	29.3		
	6					
0745	8	7.18	503	30.4		
	10					
0750	12	7.26	499	28.9		
	14					
0755	16	7.35	440	29.7		
	18					
0800	21	7.31	436	29.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	5 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE/8 Oxy's(8260)

COMMENTS: ____

Add/Replaced Lock: X Add/Replaced Plug: ____ Size: ____

APPENDIX D

SURVEYOR'S REPORT AND LANDFILL ACCEPTANCE LETTER

Virgil Chavez Land Surveying
312 Georgia Street, Suite 225
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

January 13, 2003
Project No.: 1824-08

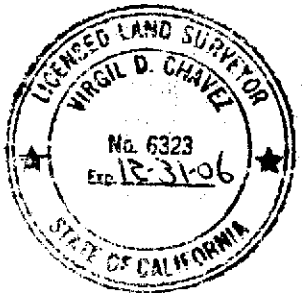
Jed Douglas
Gettler-Ryan Inc.
1364 N. McDowell Blvd., Suite B2
Petaluma, CA 94954

Subject: Monitoring Well Survey
Tosco Service Station No. 4625
3070 Fruitvale Avenue
Oakland, CA

Dear Jed:

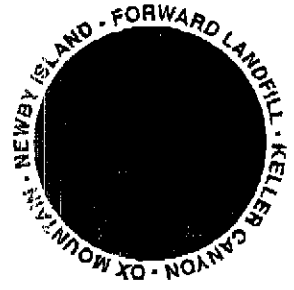
This is to confirm that we have proceeded at your request to survey the ground water monitoring wells located at the above referenced location. The survey was completed on January 6, 2003. The benchmark for this survey was a City of Oakland Benchmark, being a disk monument at approximate centerline of easterly southwest of Fruitvale and Montana Streets. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83).
Benchmark Elevation = 157.127 feet (NGVD 29).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				137.84	RIM MW-1
37.7953954	-122.2177974	2116638.52	6065350.61	137.57	TOC MW-1
				140.15	RIM MW-2
37.7956463	-122.2175145	2116728.36	6065434.01	139.85	TOC MW-2
				139.14	RIM MW-3
37.7954345	-122.2175787	2116651.61	6065414.05	138.89	TOC MW-3
				138.13	RIM MW-4
37.7953361	-122.2175613	2116615.70	6065418.43	137.81	TOC MW-4
				138.01	RIM MW-5
37.7955058	-122.2179381	2116679.46	6065310.69	137.66	TOC MW-5
				139.31	RIM MW-6
37.7956132	-122.2178094	2116717.89	6065348.61	138.88	TOC MW-6



Sincerely,

Virgil D. Chavez, PLS 6323



NORTHERN CALIFORNIA SALES OFFICE • SPECIAL WASTE

Forward • Keller Canyon • Newby Island • Ox Mountain

ALLIED WASTE COMPANIES BFI

June 10, 2003

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

Attn: Mr. Smith

Re: Approval No. 2736
Gasoline Contaminated Soil
3070 Fruitvale Ave. / Station# 4625, OAKLAND

Dear Mr. Smith:

FORWARD INC. is pleased to inform you that the approximately 1 tons of Gasoline Contaminated Soil from the referenced site has been approved for acceptance at our Manteca, California Landfill as a Class 2 waste. This approval has been based on the information provided in the waste profile and associated materials submitted on behalf of Tosco Marketing Company (Generator). Acceptance of the waste is subject to regulatory requirements, and is also subject to the "Terms and Conditions" agreed to and signed by Generator in the waste profile.

Your approval number for this project will be 2736. This number should be used in all scheduling and correspondence with ***FORWARD, INC.*** regarding this waste profile.

This profile shall remain in effect until December 10, 2002, or until any significant changes in the waste stream occur. At that time, ***FORWARD, INC.*** will re-evaluate the profile, and current analytical data and requirements will be reviewed.

Please schedule all waste shipments with the Landfill (209-982-4298) at least 24 hours in advance. The landfills hours of operation are Monday through Friday 6:00 am to 6:00 pm for soil, 6:00 am to 3:00 pm for asbestos, 6:00 am to 5:00 pm for all other waste types.

Thank you for the opportunity to be of service. Should you have any questions, please do not hesitate to contact me or our Customer Service at (800) 204-4242.

Sincerely,

Allied Waste Industries

Brad Bonner / ss

Brad J. Bonner
Special Waste Sales Manager
Northern, CA

BJB/ss

F:\FORWARD\MERGE FORMS\ACCEPT.DOC

TIM A. MANLEY TRUCKING, INC.
9151 GERBER ROAD
SACRAMENTO, CA 95829
916-689-4464 Fax 681-0924

SOIL CONFIRMATION

LOCATION	# 4625 3070 FRUITVALE AVE - OAKLAND, CA
DATE OF PICK UP	12/20/2002
ESTIMATED YARDAGE	2 YARDS
ACTUAL YARDAGE	5.54 TONS
DISPOSAL FACILITY	FORWARD LANDFILL
CONSULTANT \ CONTACT	JED DOUGLAS \ GETTLER-RYAN
PHONE \ FAX	707-789-3255 707-789-3218

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

Sequoia Analytical

819 Striker Ave Ste 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

9 December, 2002

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

RE: Tosco 4625, Oakland, CA
Sequoia Work Order: S211629

Enclosed are the results of analyses for samples received by the laboratory on 11/22/02 12:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Client Services Representative

CA ELAP Certificate #1624

Sequoia Analytical

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Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954	Project: Tosco 4625, Oakland, CA Project Number: N/A Project Manager: Jed Douglas	S211629 **Reported:** 12/09/02 18:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-S(8)	S211629-01	Soil	11/20/02 09:50	11/22/02 12:45
B-2-S(11)	S211629-02	Soil	11/20/02 13:10	11/22/02 12:45
MW-5-S(10)	S211629-03	Soil	11/20/02 14:30	11/22/02 12:45
MW-6-S(10)	S211629-04	Soil	11/20/02 11:20	11/22/02 12:45

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Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954	Project: Tosco 4625, Oakland, CA Project Number: N/A Project Manager: Jed Douglas	S211629 **Reported:** 12/09/02 18:50

Gasoline\BTEX\Oxygenates by EPA method 8260B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1-S(8) (S211629-01) Soil Sampled: 11/20/02 09:50 Received: 11/22/02 12:45									
Ethanol	ND	0.50	mg/kg	2.5	2120040	12/03/02	12/03/02	EPA 8260B	
Tert-butyl alcohol	**0.42**	0.12	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.93**	0.012	"	"	"	"	"	"	E
Di-isopropyl ether	ND	0.012	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.012	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.012	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.012	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.012	"	"	"	"	"	"	
Benzene	**0.022**	0.012	"	"	"	"	"	"	
Ethylbenzene	ND	0.012	"	"	"	"	"	"	
Toluene	ND	0.012	"	"	"	"	"	"	
Xylenes (total)	ND	0.012	"	"	"	"	"	"	
Gasoline (C6-C10)	ND	2.5	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*103 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*113 %*	*60-140*		"	"	"	"	
B-2-S(11) (S211629-02) Soil Sampled: 11/20/02 13:10 Received: 11/22/02 12:45									
Ethanol	ND	50	mg/kg	5	2120041	12/03/02	12/04/02	EPA 8260B	
Tert-butyl alcohol	ND	12	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.2	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.2	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.2	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.2	"	"	"	"	"	"	
Benzene	**11**	1.2	"	"	"	"	"	"	
Gasoline (C6-C10)	**1300**	250	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*97 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*102 %*	*60-140*		"	"	"	"	

Sequoia Analytical

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Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954	Project: Tosco 4625, Oakland, CA Project Number: N/A Project Manager: Jed Douglas	S211629 **Reported:** 12/09/02 18:50

Gasoline\BTEX\Oxygenates by EPA method 8260B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2-S(11) (S211629-02RE1) Soil Sampled: 11/20/02 13:10 Received: 11/22/02 12:45									
Ethylbenzene	**45**	12	mg/kg	50	2120041	12/03/02	12/04/02	EPA 8260B	
Toluene	**81**	12	"	"	"	"	"	"	
Xylenes (total)	**220**	12	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*103 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*109 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*118 %*	*60-140*		"	"	"	"	
MW-5-S(10) (S211629-03) Soil Sampled: 11/20/02 14:30 Received: 11/22/02 12:45									
Ethanol	ND	20	mg/kg	2	2120041	12/03/02	12/04/02	EPA 8260B	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	**2.8**	0.50	"	"	"	"	"	"	
Gasoline (C6-C10)	**740**	100	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*92 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*98 %*	*60-140*		"	"	"	"	
MW-5-S(10) (S211629-03RE1) Soil Sampled: 11/20/02 14:30 Received: 11/22/02 12:45									**HT-RS**
Ethylbenzene	**32**	5.0	mg/kg	20	2120041	12/03/02	12/05/02	EPA 8260B	
Toluene	**18**	5.0	"	"	"	"	"	"	
Xylenes (total)	**160**	5.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*122 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*136 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*166 %*	*60-140*		"	"	"	"	*S-01*

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Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954	Project: Tosco 4625, Oakland, CA Project Number: N/A Project Manager: Jed Douglas	S211629 **Reported:** 12/09/02 18:50

Gasoline\BTEX\Oxygenates by EPA method 8260B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6-S(10) (S211629-04) Soil Sampled: 11/20/02 11:20 Received: 11/22/02 12:45									
Ethanol	ND	10	mg/kg	1	2120041	12/03/02	12/04/02	EPA 8260B	
Tert-butyl alcohol	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.39**	0.25	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.25	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.25	"	"	"	"	"	"	
Benzene	**4.2**	0.25	"	"	"	"	"	"	
Ethylbenzene	**5.3**	0.25	"	"	"	"	"	"	
Gasoline (C6-C10)	**190**	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*98 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*108 %*	*60-140*		"	"	"	"	
MW-6-S(10) (S211629-04RE1) Soil Sampled: 11/20/02 11:20 Received: 11/22/02 12:45									
Toluene	**26**	2.5	mg/kg	10	2120041	12/03/02	12/04/02	EPA 8260B	
Xylenes (total)	**41**	2.5	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		*117 %*	*60-140*		"	"	"	"	
Surrogate: Toluene-d8		*117 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*130 %*	*60-140*		"	"	"	"	

Sequoia Analytical

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211629
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/09/02 18:50

Gasoline\BTEX\Oxygenates by EPA method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120040 - EPA 5030B [P/T]										
Blank (2120040-BLK1)				Prepared & Analyzed: 12/03/02						
Ethanol	ND	0.20	mg/kg							
Tert-butyl alcohol	ND	0.050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Di-isopropyl ether	ND	0.0050	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Tert-amyl methyl ether	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Benzene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline (C6-C10)	ND	1.0	"							
Surrogate: 1,2-DCA-d4	*0.0520*		"	*0.0500*		*104*	*60-140*			
Surrogate: Toluene-d8	*0.0538*		"	*0.0500*		*108*	*60-140*			
Surrogate: 4-BFB	*0.0567*		"	*0.0500*		*113*	*60-140*			
Laboratory Control Sample (2120040-BS1)				Prepared & Analyzed: 12/03/02						
Methyl tert-butyl ether	0.0438	0.0050	mg/kg	0.0436		100	60-140			
Benzene	0.0280	0.0050	"	0.0268		104	70-130			
Toluene	0.168	0.0050	"	0.162		104	70-130			
Gasoline (C6-C10)	1.82	1.0	"	2.20		83	70-130			
Surrogate: 1,2-DCA-d4	*0.0511*		"	*0.0500*		*102*	*60-140*			
Surrogate: Toluene-d8	*0.0514*		"	*0.0500*		*103*	*60-140*			
Surrogate: 4-BFB	*0.0539*		"	*0.0500*		*108*	*60-140*			
Matrix Spike (2120040-MS1)		**Source: S211705-15**		Prepared & Analyzed: 12/03/02						
Methyl tert-butyl ether	0.0501	0.0050	mg/kg	0.0436	ND	114	60-140			
Benzene	0.0285	0.0050	"	0.0268	ND	106	60-140			
Toluene	0.152	0.0050	"	0.162	ND	93	60-140			
Gasoline (C6-C10)	1.64	1.0	"	2.20	ND	75	60-140			
Surrogate: 1,2-DCA-d4	*0.0608*		"	*0.0500*		*122*	*60-140*			

Sequoia Analytical

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211629
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/09/02 18:50

Gasoline\BTEX\Oxygenates by EPA method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120040 - EPA 5030B [P/T]										
Matrix Spike (2120040-MS1)		**Source: S211705-15**		Prepared & Analyzed: 12/03/02						
Surrogate: Toluene-d8	*0.0496*		*mg/kg*	*0.0500*		*99*	*60-140*			
Surrogate: 4-BFB	*0.0534*		*"*	*0.0500*		*107*	*60-140*			
Matrix Spike Dup (2120040-MSD1)		**Source: S211705-15**		Prepared & Analyzed: 12/03/02						
Methyl tert-butyl ether	0.0423	0.0050	mg/kg	0.0436	ND	96	60-140	17	25	
Benzene	0.0256	0.0050	"	0.0268	ND	96	60-140	11	25	
Toluene	0.154	0.0050	"	0.162	ND	95	60-140	1	25	
Gasoline (C6-C10)	1.70	1.0	"	2.20	ND	77	60-140	4	25	
Surrogate: 1,2-DCA-d4	*0.0570*		*"*	*0.0500*		*114*	*60-140*			
Surrogate: Toluene-d8	*0.0542*		*"*	*0.0500*		*108*	*60-140*			
Surrogate: 4-BFB	*0.0552*		*"*	*0.0500*		*110*	*60-140*			
Batch 2120041 - EPA 5030B [MeOH]										
Blank (2120041-BLK1)				Prepared: 12/03/02 Analyzed: 12/04/02						
Ethanol	ND	10	mg/kg							
Tert-butyl alcohol	ND	2.5	"							
Methyl tert-butyl ether	ND	0.25	"							
Di-isopropyl ether	ND	0.25	"							
Ethyl tert-butyl ether	ND	0.25	"							
Tert-amyl methyl ether	ND	0.25	"							
1,2-Dichloroethane	ND	0.25	"							
1,2-Dibromoethane (EDB)	ND	0.25	"							
Benzene	ND	0.25	"							
Ethylbenzene	ND	0.25	"							
Toluene	ND	0.25	"							
Xylenes (total)	ND	0.25	"							
Gasoline (C6-C10)	ND	50	"							
Surrogate: 1,2-DCA-d4	*1.24*		*"*	*1.25*		*99*	*60-140*			
Surrogate: Toluene-d8	*1.35*		*"*	*1.25*		*108*	*60-140*			
Surrogate: 4-BFB	*1.28*		*"*	*1.25*		*102*	*60-140*			

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Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954	Project: Tosco 4625, Oakland, CA Project Number: N/A Project Manager: Jed Douglas	S211629 **Reported:** 12/09/02 18:50

Gasoline\BTEX\Oxygenates by EPA method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120041 - EPA 5030B [MeOH]										
Blank (2120041-BLK2)				Prepared: 12/03/02 Analyzed: 12/04/02						
Ethanol	ND	10	mg/kg							
Tert-butyl alcohol	ND	2.5	"							
Methyl tert-butyl ether	ND	0.25	"							
Di-isopropyl ether	ND	0.25	"							
Ethyl tert-butyl ether	ND	0.25	"							
Tert-amyl methyl ether	ND	0.25	"							
1,2-Dichloroethane	ND	0.25	"							
1,2-Dibromoethane (EDB)	ND	0.25	"							
Benzene	ND	0.25	"							
Ethylbenzene	ND	0.25	"							
Toluene	ND	0.25	"							
Xylenes (total)	ND	0.25	"							
Gasoline (C6-C10)	ND	50	"							
Surrogate: 1,2-DCA-d4	*1.28*		"	*1.25*		*102*	*60-140*			
Surrogate: Toluene-d8	*1.34*		"	*1.25*		*107*	*60-140*			
Surrogate: 4-BFB	*1.47*		"	*1.25*		*118*	*60-140*			
Blank (2120041-BLK3)				Prepared: 12/04/02 Analyzed: 12/05/02						
Ethanol	ND	10	mg/kg							
Tert-butyl alcohol	ND	2.5	"							
Methyl tert-butyl ether	ND	0.25	"							
Di-isopropyl ether	ND	0.25	"							
Ethyl tert-butyl ether	ND	0.25	"							
Tert-amyl methyl ether	ND	0.25	"							
1,2-Dichloroethane	ND	0.25	"							
1,2-Dibromoethane (EDB)	ND	0.25	"							
Benzene	ND	0.25	"							
Ethylbenzene	ND	0.25	"							
Toluene	ND	0.25	"							
Xylenes (total)	ND	0.25	"							
Gasoline (C6-C10)	ND	50	"							
Surrogate: 1,2-DCA-d4	*1.25*		"	*1.25*		*100*	*60-140*			
Surrogate: Toluene-d8	*1.27*		"	*1.25*		*102*	*60-140*			
Surrogate: 4-BFB	*1.42*		"	*1.25*		*114*	*60-140*			

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Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954	Project: Tosco 4625, Oakland, CA Project Number: N/A Project Manager: Jed Douglas	S211629 **Reported:** 12/09/02 18:50

Gasoline\BTEX\Oxygenates by EPA method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120041 - EPA 5030B [MeOH]										
Blank (2120041-BLK3)				Prepared: 12/04/02 Analyzed: 12/05/02						
Laboratory Control Sample (2120041-BS1)				Prepared & Analyzed: 12/03/02						
Methyl tert-butyl ether	1.55	0.25	mg/kg	1.64		95	60-140			
Benzene	1.08	0.25	"	1.00		108	70-130			
Toluene	6.07	0.25	"	6.08		100	70-130			
Gasoline (C6-C10)	60.7	50	"	82.5		74	70-130			
Surrogate: 1,2-DCA-d4	*1.26*		"	*1.25*		*101*	*60-140*			
Surrogate: Toluene-d8	*1.36*		"	*1.25*		*109*	*60-140*			
Surrogate: 4-BFB	*1.31*		"	*1.25*		*105*	*60-140*			
Laboratory Control Sample (2120041-BS2)				Prepared: 12/03/02 Analyzed: 12/04/02						
Methyl tert-butyl ether	0.552	0.25	mg/kg	0.545		101	60-140			
Benzene	0.366	0.25	"	0.335		109	70-130			
Toluene	1.96	0.25	"	2.02		97	70-130			
Surrogate: 1,2-DCA-d4	*1.26*		"	*1.25*		*101*	*60-140*			
Surrogate: Toluene-d8	*1.31*		"	*1.25*		*105*	*60-140*			
Surrogate: 4-BFB	*1.43*		"	*1.25*		*114*	*60-140*			
Laboratory Control Sample (2120041-BS3)				Prepared: 12/04/02 Analyzed: 12/05/02						
Methyl tert-butyl ether	1.57	0.25	mg/kg	1.64		96	60-140			
Benzene	1.19	0.25	"	1.00		119	70-130			
Toluene	5.94	0.25	"	6.08		98	70-130			
Gasoline (C6-C10)	61.1	50	"	82.5		74	70-130			
Surrogate: 1,2-DCA-d4	*1.29*		"	*1.25*		*103*	*60-140*			
Surrogate: Toluene-d8	*1.32*		"	*1.25*		*106*	*60-140*			
Surrogate: 4-BFB	*1.49*		"	*1.25*		*119*	*60-140*			
Laboratory Control Sample Dup (2120041-BSD1)				Prepared & Analyzed: 12/03/02						
Methyl tert-butyl ether	1.57	0.25	mg/kg	1.64		96	60-140	1	25	
Benzene	1.09	0.25	"	1.00		109	70-130	0.9	25	
Toluene	6.40	0.25	"	6.08		105	70-130	5	25	
Gasoline (C6-C10)	64.5	50	"	82.5		78	70-130	6	25	

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211629
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/09/02 18:50

Gasoline\BTEX\Oxygenates by EPA method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120041 - EPA 5030B [MeOH]										
Laboratory Control Sample Dup (2120041-BSD1)			Prepared & Analyzed: 12/03/02							
Surrogate: 1,2-DCA-d4	*1.26*		*mg/kg*	*1.25*		*101*	*60-140*			
Surrogate: Toluene-d8	*1.41*		*"*	*1.25*		*113*	*60-140*			
Surrogate: 4-BFB	*1.32*		*"*	*1.25*		*106*	*60-140*			

№ 007647

TOSCO

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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

Consultant Company: Getler-Ryan Inc. 140158.05	Tosco Engineer: David B. De Witt
Address: 1364 North McDowell Blvd, Suite B2	Site #: 4625, GID T0600102156
City: Petaluma State: CA Zip Code: 94954	Site Address: 3070 Fruitvale Ave.
Telephone: 707-789-3255 Fax #: 707-789-3218	City, State: Oakland, CA
Report To: Jed Douglas Sampler: Andrew Smith	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

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

☐ Drinking Water ☐ Waste Water ☒ Other

Project Coding:

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPHg/BTEX/MTBE ✱	TPH Diesel (8015)	TOG (418.1)	Oxygenates (6) 8260	Oxygenates (5)+ EDB 1,2 DCA (8260)	Comments
1. B-1-S(8)	11/20/02 950	Soil	1	6" core	SQ11629-01	X			X		TPHg &
2. B-2-S(11)	1310		1		-02	X			X		BTEX By
3. MW-5-S(10)	1430		1		-03	X			X		EPA Method
4. MW-6-S(10)	11/20		1		-04	X			X		8260B.
5.											
6.											
7.											
8.											
9.											Rush
10.											

Relinquished By:	Date: 11/21/02	Time: 1710	Received By: Michael Gonin	Date: 11/21/02	Time: 1710
Relinquished By:	Date: 11-22-02	Time: 1100	Received By:	Date: 11-22-02	Time: 1100
Relinquished By:	Date: 11-22-02	Time: 1245	Received By: Monica Gregan	Date: 11/22/02	Time: 1245

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ____ of ____

To be completed upon receipt of report:

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

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

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Cetter Ryan
REC. BY (PRINT): Mbruce
WORKORDER: 9211629

DATE Received at Lab: 11/22/02
TIME Received at Lab: 1245
LOG IN DATE: 11/22/02

(Drinking water) for regulatory purposes: YES/NO
(Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*							
2. Chain-of-Custody	Present / Absent*							
3. Traffic Reports or Packing List:	Present / Absent							
4. Airbill:	Airbill / Sticker Present / Absent							
5. Airbill #:								
6. Sample Labels:	Present / Absent							
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody			see COC				
8. Sample Condition:	Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	Yes / No*							
10. Sample received within hold time:	Yes / No*							
11. Proper Preservatives used:	Yes / No*							
12. Temp Rec. at Lab: (Acceptance range for samples requiring thermal pres.:4+/-2°C)	11 °C Yes / No*							

*If Circled, contact Project Manager and attach record of resolution.

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December 16, 2002

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

RE: S211785 / Tosco 4625

Enclosed are the results of analyses for sample(s) received by the laboratory on 11/20/02.

Please note the analysis requested for the samples were performed at ETS.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Project Manager

CA ELAP Certificate Number 1624

Sequoia Analytical

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Gettler-Ryan Petaluma	Project:	Tosco 4625	
1364 N McDowell Blvd. Ste B2	Project Number:	n/a	
Petaluma, CA 94954	Project Manager:	Jed Douglas	Reported: 12/16/02

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW - 5 - S (5.5)	S211785 -01	Soil	11/20/02
MW - 5 - S (15)	S211785 -02	Soil	11/20/02
MW - 6 - S (15)	S211785 -03	Soil	11/20/02

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CLIENT:	Sequoia Analytical, 918 Striker Avenue, Suite 8, Sacramento				ANALYST(S)	SUPERVISOR
ATTN:	Ron Chew	DATE	DATE	DATE of	G. Hundt	D. Jacobson
JOB/SITE:	Tosco, Oakland, California	COLLECTED	RECEIVED	COMPLETION	W. Zuo	LAB DIRECTOR
PROJ. NO.:	S211785	11/20/02	12/2/02	12/12/02		G. Conrad PhD

LAB SAMPLE NUMBER	SAMPLE ID	AREA/TYPE of SAMPLE	MOISTURE CONTENT %	DRY BULK DENSITY lbs/cuft	SPECIFIC GRAVITY gm/cc	POROSITY (Volume) %	AIR/WATER (Vol/Vol) %/%	GROSS (USGS) SOIL/SED TEXTURE
02-12-0001	211785-01	MW-5-S(5.5)	**24.2**	**99**	**2.76**	42.6	**18.4/24.2**	Sandy Mud
02-12-0002	211785-02	MW-5-S(15)	**21.3**	**104**	**2.70**	38.2	**16.9/21.3**	Sandy Mud
02-12-0003	211785-03	MW-6-S(15)	**20.6**	**109**	**2.78**	37.0	**16.4/20.6**	Sandy Mud (w/ gravel)

LAB SAMPLE NUMBER	SAMPLE ID	AREA/TYPE of SAMPLE	GRAVEL TOTAL %	SAND TOTAL %	FINES TOTAL %	SOLUTE DIFFUSIVITY sqcm/sec	INFILTRATION RATE cm/sec	HYDRAULIC CONDUCTIVITY cm/sec
02-12-0001	211785-01	MW-5-S(5.5)	<1	17.0	83.0	-	-	-
02-12-0002	211785-02	MW-5-S(15)	Ø	38.0	62.0	-	-	-
02-12-0003	211785-03	MW-6-S(15)	19.5	39.0	41.5	-	-	-

COMMENTS

These soils are mostly silt and clay, however there is some considerable variability in actual percentages of each major textural component present. Fines content varies from 40 to 85% with sand being the balance in two of the samples. However, in one sample (-03) gravel content is significant; in the other two gravel was zero to less than 1%; (in the -01 sample gravel was one stone in the measured portion of sample). Due to minimal material, one sample (-03) was done as a -200 test with gravel so that all analyses could be completed. In any event, all materials classify as clays. Porosities are accordingly high to very high as a result of the high clay content. But also consistent with the percentages of clay (and densities, silt, etc.) are their very low permeabilities. Specific gravities are above average (i.e., 2.65), but bulk densities are pretty typical and do correlate nicely with depth.

\\ NOTES: Samples are prepared according to appropriate methods as required, requested, and/or found in one of the following references: American Society for Testing and Materials (ASTM), and/or Methods of Soil Analysis (ASA/SSSA), ç 1986, 2nd ed., or other appropriate and/or acceptable methodologies (eg. USGS, EPA, USDA, etc.): density - ASTM D 2937; specific Gravity - ASTM D 854; Capillary Moisture - ASTM D 3152/D 2325; Hydraulic Conductivity - ASTM D 5084; Sand Equivalent - ASTM D 2419; Fines Total - ASTM D 422; fluid penetration measures - Methods of Soil Analysis

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CLIENT:	Sequoia Analytical, 918 Striker Avenue, Suite 8, Sacramento				ANALYST(S)	SUPERVISOR
ATTN:	Ron Chew	DATE	DATE	DATE of	G. Hundt	D. Jacobson
JOB/SITE:	Tosco, Oakland, California	COLLECTED	RECEIVED	COMPLETION	R. Conrad	LAB DIRECTOR
PROJ. NO.:	S211785	11/20/02	12/2/02	12/13/02	S. Banwait	G. Conrad PhD

LAB SAMPLE NUMBER	SAMPLE ID	AREA/TYPE of SAMPLE	PARTICLE SIZE ANALYSIS % SAND	% SILT	% CLAY	% GRAVEL	A S T M SOIL & SEDIMENT CLASS
02-12-0001	211785-01	MW-5-S(5.5)	17.0	35.8	47.2	<1	Brown Fat Clay (CH)
02-12-0002	211785-02	MW-5-S(15)	38.0	33.8	28.2	Ø	Brown Sandy Lean Clay (CL)
02-12-0003	211785-03	MW-6-S(15)	-	-	-	-	Grey Brown Sandy Fat Clay w/ Gravel (CH)

LAB SAMPLE NUMBER	SAMPLE ID	AREA/TYPE of SAMPLE	MOISTURE CONTENT %	FINES TOTAL (-200) %	SAND CONTENT %	GRAVEL CONTENT %	SOIL pH -log[H+]	FRACTION ORG. CAR. mg/kg
02-12-0001	211785-01	MW-5-S(5.5)	24.2	83.0	17.0	<1	7.16	3053
02-12-0002	211785-02	MW-5-S(15)	21.3	62.0	38.0	Ø	7.08	2316
02-12-0003	211785-03	MW-6-S(15)	20.6	41.5	39.0	19.5	7.15	1579

COMMENTS

The ASTM classification of these three samples is based on the permeability data, results & observations, and were not analytically determined (i.e., from Atterbergs). As a result, it is possible for there to be some differences. For example, the middle sample (-02) could be a CL-ML, i.e., a sandy silty clay. Nevertheless, the estimated classifications seem to be the best "fit" for now. Considering sample size and all the testing requesting, sieving was not practical, especially for the third sample (-03). But more than that, it would be unnecessary especially for the first two samples (-01 & -02) which were well accommodated as PSAs by hydrometer. In any event, fines are in the 40-85% range with clay in the 25-50% range. Clay content is analytically determined for two samples at about 28% and 47%; the third (-03) is most likely to be in the 20-30% range which would be similar to the middle sample (-02). This sample (-03) was run as a -200 w/ gravel test due to its especially small size. Despite this, it is clear from perm & other data (as well as general observations), this is a clay dominated material; this is also despite its significant gravel content as well. By observation, in the first two samples (-01 & -02), sand content was mostly fine and to very fine with very little medium and virtually no coarse sand. By contrast, the coarse sand fraction in the third sample (-03) was minor but obvious; all gravel was in the fine category.

\\\\ NOTES: Sample are dried, disaggregated, and screen through a nested set of sieves. The standard set for sand fractions is #10, #20, #40, #60, #140, and #200, or #10, #20, #35, #60, #120 and #230 plus the pan. Fines are analyzed by hydrometer; 2 to 12 point depending on requirement as per ASTM D 422, D 1140, etc. The various physical methods represented above are done mostly according to ASTM or CalTrans protocols, although other appropriate methodologies are used rarely.

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CLIENT: Sequoia Analytical, 918 Striker Avenue, Suite 8, Sacramento			
ATTN: Ron Chew			
PROJECT NO.: S211785 JOB/SITE: Tosco, Oakland, California	DATE COLLECTED 11/20/02	DATE RECEIVED 12/2/02	DATE of REPORT 12/12/02

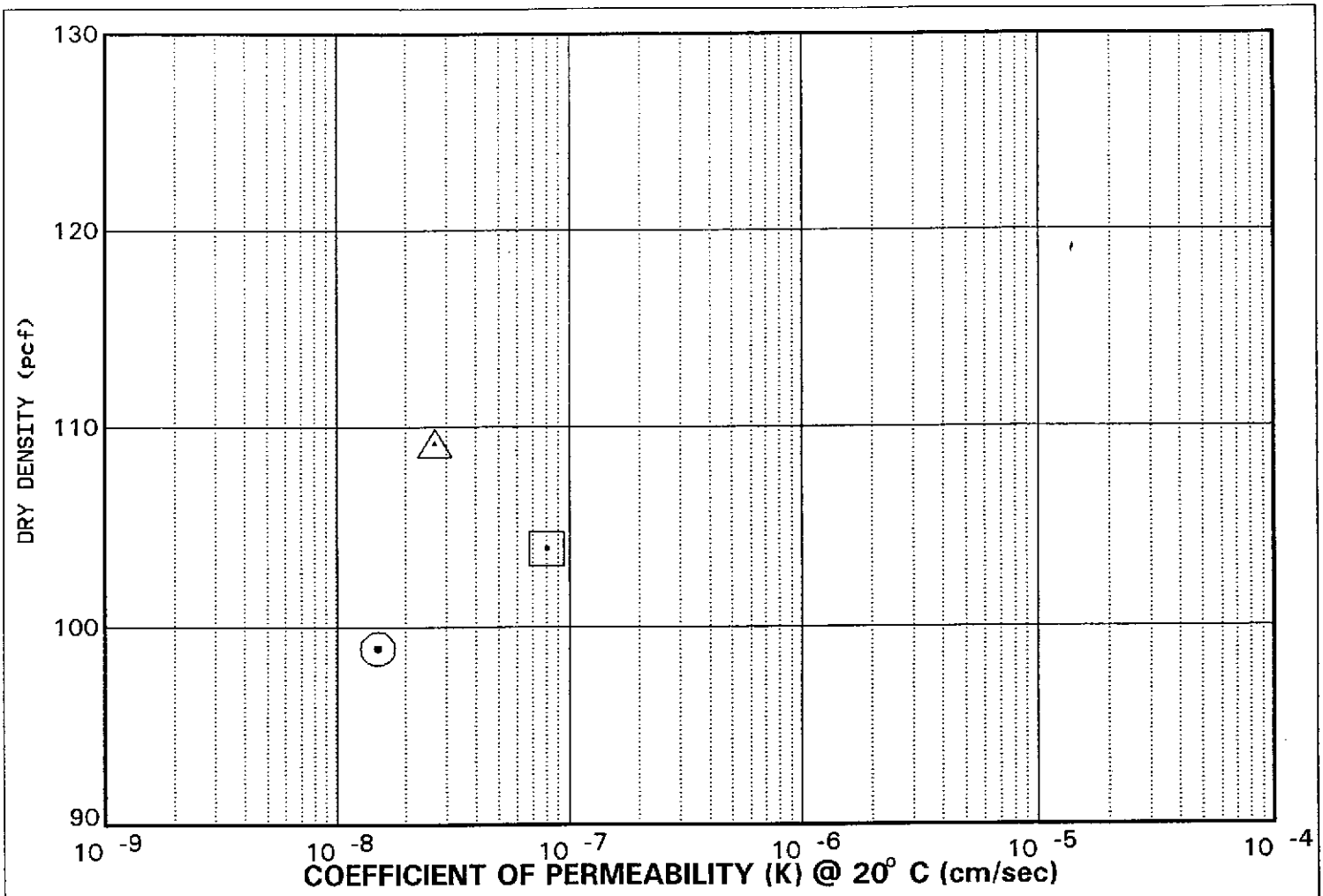
PERMEABILITY AND HYDRAULIC CONDUCTIVITY TEST RESULTS

SAMPLE ID	SAMPLE ID	AREA/TYPE of SAMPLE	DRY DENSITY lbs/cuft	PERCENT WATER CONTENT	SPECIFIC GRAVITY gm/cc	CONSOLIDATION PRESSURE lbs/sqin	PERMEABILITY (triax/falling head) cm/sec	VOID RATIO (initial)	SATURATION PERCENT (initial)
02-12-0001	211785-01	MW-5-S(5.5)	**99**	**24.2**	**2.76**	**4.0**	1.5 x E-08	**0.743**	**90**
02-12-0002	211785-02	MW-5-S(15)	**104**	**21.3**	**2.70**	**4.0**	8.0 x E-08	**0.622**	**92**
02-12-0003	211785-03	MW-6-S(15)	**109**	**20.6**	**2.78**	**4.0**	2.7 x E-08	**0.589**	**97**

COMMENTS/NOTES:

Notice that all threee samples have very low permeabilities. These low rates are a consequence of the high silt and clay content with some sand (and a smaller but significant percentage of gravel in one sample [-03]). While there was more than adequate column to run perms on two of these samples, one (-03) was barely enough (considering other testing). As result, it was felt that there would not be enough ("unaltered") sample to execute all other tests, thus the textural analysis was confined to a -200 test with gravel separation (since significant gravel was present in this particular sample). Nevertheless, all three samples "behave" as clay materials do despite a 20-25% difference in clay content.

\\\\\ NOTES: Testing follows methodology as per the Association of Testing Materials (ASTM) protocols as follows: ASTM D-2434 Test Method for Permeability of Granular Soils (Constant Head); or ASTM D-5084 Standard Test Method for Measuring Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter.



Test Type: FALLING HEAD *Saturation Method: BACKPRESSURE*

Symbol		⊙	⊡	△
INITIAL	Diameter (mm)	48.90	48.90	48.90
	Height (mm)	57.15	67.31	41.28
	Moisture Content (%)	24.2	21.3	20.6
	Dry Density (pcf)	99	104	109
	Void Ratio	0.743	0.622	0.589
	Saturation (%)	90	92	97
FINAL	Consol. Pressure (psi)	4.00	4.00	4.00
	Water Content (%)	27.5	20.8	17.8
	Dry Density (pcf)	98	108	116
	Void Ratio	0.758	0.560	0.495
	Saturation (%)	100	100	100
Permeability (cm/sec)		1.5E-08	8.0E-08	2.7E-08
Sample Source:		01A @ 5.5'	02A @ 15.0'	03A @ 15.0'
Classification:		Brown Fat Clay (CH)	Brown Sandy Lean Clay (CL)	Grey Brown Sandy Fat Clay W/Gravel (CH)
Specimen Type:		Undisturbed	Undisturbed	Undisturbed

Permeability Test Resutls

Environmental Technical Services

LOCATION: Oakland, Calif.
PROJECT: Tosco (S211785)
DATE: December 2002

SAMPLE IDs
01A = MW-5-S(5.5)
02A = MW-5-S(15)
03A = MW-6-S(15)

PLATE

1

SUBCONTRACT ORDER

Sequoia Analytical - Sacramento

S211785

SENDING LABORATORY:

Sequoia Analytical - Sacramento
819 Striker Avenue, Ste. 8
Sacramento, CA 95834
Phone: (916) 921-9600
Fax: (916) 921-0100
Project Manager: Ron Chew
Sending lab received dat 11/26/02 12:50

RECEIVING LABORATORY:

ETS
1343 Redwood Road
Petaluma, CA 94954
Phone: 707-795-9605
Fax: 707-795-9384

☐ Drinking Water
☐ Waste Water
☐ Other

Please use standard TAT unless specific due date is requested -> Due date: **Initials:**

Analysis	SLD Date	Expires	Laboratory ID	Comments
Sample ID: S211785-01 (Soil sampled on 11/20/02 00:00)				
Frac. Org. Content	12/05/02 16:00	12/18/02 00:00		ETS - Fractional Organic Carbon
Misc. Subcontract	12/05/02 16:00	05/19/03 00:00		ETS - Permeability, Porosity and Sieve Analysis
pH-9045C	12/05/02 16:00	11/21/02 00:00		ETS
Containers Supplied:				
Metal Core (A)				
Sample ID: S211785-02 (Soil sampled on 11/20/02 00:00)				
Frac. Org. Content	12/05/02 16:00	12/18/02 00:00		ETS - Fractional Organic Carbon
Misc. Subcontract	12/05/02 16:00	05/19/03 00:00		ETS - Permeability, Porosity and Sieve Analysis
pH-9045C	12/05/02 16:00	11/21/02 00:00		ETS
Containers Supplied:				
Metal Core (A)				
Sample ID: S211785-03 (Soil sampled on 11/20/02 00:00)				**May not be sufficient sample for all analyses**
Frac. Org. Content	12/05/02 16:00	12/18/02 00:00		ETS - Fractional Organic Carbon
Misc. Subcontract	12/05/02 16:00	05/19/03 00:00		ETS - Permeability, Porosity and Sieve Analysis
pH-9045C	12/05/02 16:00	11/21/02 00:00		ETS
Containers Supplied:				
Metal Core (A)				

COOLER CUSTODY SEALS INTACT ☐
NOT INTACT ☐
COOLER TEMPERATURE 4.8 °c

Released By	Date	Time	Received By	Date	Time
Michael Gravin	12/02/02			12-2-02	1200
	12-02-02			12/2/02	1330
Released By	Date	Time	Received By	Date	Time
	12/2/02			12-02-02	2:55 p.m.

№ 007660

TOSCO

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

Consultant Company: Getter-Ryan Inc. 140158.05	Tosco Engineer: David B. DeWitt
Address: 1364 North McDowell Boulevard, Suite B2	Site #: 4625, GID T0600102156
City: Petaluma State: CA Zip Code: 94954	Site Address: 3070 Fruitvale Ave
Telephone: 707-789-3255 Fax #: 707-789-3218	City, State: Oakland, CA
Report To: Jed Douglas Sampler: Andrew Smith	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ ~~10 Work Days~~ AS ☒ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☒ Other

Project Coding:

Analyses Requested S211785

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPHg/BTEX/MTBE	TPH Diesel (8015)	TOG (418.1)	Oxygenates (6) 8260	Oxygenates (6)+ EDB 1,2 DCA (8260)	Sieve analysis, pH	Fraction Organic Carbon	Permeability	Porosity	Comments
1. MW-5-5(5.5)	11/20/02	Soil	1	6" core	01						X	X	X	X	
2. MW-5-S(15)	11/20/02	↓	1	6" core	02						X	X	X	X	
3. MW-6-5(15)	11/20/02	↓	1	2" core	03						X	X	X	X	
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: [signature]	Date: 11/26/02	Time: 1250	Received By: Michael Gorin	Date: 11/26/02	Time: 1250
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page _____ of _____

To be completed upon receipt of report:

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

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

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical

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3 December, 2002

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

RE: Tosco 4625, Oakland, CA
Sequoia Work Order: S211627

Enclosed are the results of analyses for samples received by the laboratory on 11/22/02 12:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Client Services Representative

CA ELAP Certificate #1624

Sequoia Analytical

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211627
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/03/02 17:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Comp-1 (A,B,C,D)	S211627-01	Soil	11/20/02 16:20	11/22/02 12:45

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211627
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/03/02 17:02

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Comp-1 (A,B,C,D) (S211627-01) Soil Sampled: 11/20/02 16:20 Received: 11/22/02 12:45									
Purgeable Hydrocarbons	ND	2.5	mg/kg	1	2110395	11/25/02	11/25/02	DHS LUFT	
Benzene	**0.025**	0.025	"	"	"	"	"	"	
Toluene	**0.031**	0.025	"	"	"	"	"	"	
Ethylbenzene	**0.044**	0.025	"	"	"	"	"	"	
Xylenes (total)	**0.20**	0.025	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.072**	0.025	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96 %*	*60-140*		"	"	"	"	

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211627
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/03/02 17:02

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Comp-1 (A,B,C,D) (S211627-01) Soil Sampled: 11/20/02 16:20 Received: 11/22/02 12:45									
Lead	ND	10	mg/kg	4	2110371	11/25/02	11/25/02	EPA 6010B	

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211627
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/03/02 17:02

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2110395 - EPA 5030B (MeOH)										
Blank (2110395-BLK1)				Prepared & Analyzed: 11/25/02						
Purgeable Hydrocarbons	ND	0.50	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.0201*		"	*0.0200*		*100*	*60-140*			
Laboratory Control Sample (2110395-BS1)				Prepared & Analyzed: 11/25/02						
Benzene	0.0144	0.0050	mg/kg	0.0200		72	70-130			
Toluene	0.0182	0.0050	"	0.0200		91	70-130			
Ethylbenzene	0.0207	0.0050	"	0.0200		104	70-130			
Xylenes (total)	0.0639	0.0050	"	0.0600		106	70-130			
Methyl tert-butyl ether	0.0153	0.0050	"	0.0200		76	70-130			
Surrogate: a,a,a-Trifluorotoluene	*0.0206*		"	*0.0200*		*103*	*60-140*			

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211627
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/03/02 17:02

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2110371 - EPA 3050B										
Blank (2110371-BLK1)				Prepared & Analyzed: 11/25/02						
Lead	ND	10	mg/kg							
Laboratory Control Sample (2110371-BS1)				Prepared & Analyzed: 11/25/02						
Lead	44.0	10	mg/kg	50.0		88	80-120			
Matrix Spike (2110371-MS1)		**Source: S211656-01**		Prepared & Analyzed: 11/25/02						
Lead	45.5	10	mg/kg	50.0	ND	91	80-120			
Matrix Spike Dup (2110371-MSD1)		**Source: S211656-01**		Prepared & Analyzed: 11/25/02						
Lead	46.3	10	mg/kg	50.0	ND	93	80-120	2	20	

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211627
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/03/02 17:02

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

№ 007643

TOSCO

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

Consultant Company: Gettler-Ryan Inc. 146158.05	Tosco Engineer: David B. De Witt
Address: 1364 N. McDowell Blvd, Suite B2	Site #: GTD T0600102156, 4625
City: Petaluma State: CA Zip Code: 94954	Site Address: 3070 Fruitvale Ave
Telephone: (707) 789-3255 Fax #: (707) 789-3218	City, State: Oakland, CA
Report To: Jed Douglas Sampler: Andrew Smith	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ~~☒ 10 Work Days~~ ☒ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☒ Other

Project Coding:

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPHg/BTEX/MTBE	TPH Diesel (8015)	TOG (418.1)	Oxygenates (6) 8260	Oxygenates (6)+ EDB, 1,2 DCA (8260)	Total Lead EPA 6010	Comments
1. Comp-1 (A,B,C,D)	11/20/02/1520	Soil	4	6" Cores	SQ11627-01	X					X	
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Relinquished By:	Date: 11/4/02	Time: 1710	Received By: Michael Larkin	Date: 11/21/02	Time: 1710
Relinquished By:	Date: 11-22-02	Time: 1100	Received By:	Date: 11-22-02	Time: 1100
Relinquished By:	Date: 11-22-02	Time: 1245	Received By: Monica Greggs	Date: 11/22/02	Time: 1245

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ____ of ____

To be completed upon receipt of report:

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

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

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Getler Ryan
REC. BY (PRINT): Monica
WORKORDER: 211627

DATE Received at Lab: 11/22/02
TIME Received at Lab: 1245
LOG IN DATE: 11/23/02

(Drinking water) for regulatory purposes: YES/NO
(Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*							
2. Chain-of-Custody	Present / Absent*							
3. Traffic Reports or Packing List:	Present / Absent							
4. Airbill:	Airbill / Sticker Present / Absent							
5. Airbill #:				See COC				
6. Sample Labels:	Present / Absent							
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody							
8. Sample Condition:	Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	Yes / No*							
10. Sample received within hold time:	Yes / No*							
11. Proper Preservatives used:	Yes / No*							
12. Temp Rec. at Lab:	11°C							
(Acceptance range for samples requiring thermal pres.:4+/-2°C)	Yes / No*							

NA

*If Circled, contact Project Manager and attach record of resolution.

Sequoia
Analytical

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10 December, 2002

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

RE: Tosco 4625, Oakland, CA
Sequoia Work Order: S211628

Enclosed are the results of analyses for samples received by the laboratory on 11/22/02 12:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Client Services Representative

CA ELAP Certificate #1624

Sequoia Analytical

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211628
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/10/02 18:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-W (12)	S211628-01	Water	11/20/02 12:00	11/22/02 12:45
B-2-W (14.5)	S211628-02	Water	11/20/02 13:20	11/22/02 12:45

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211628
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/10/02 18:43

BTEX by EPA Method 8260B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1-W (12) (S211628-01) Water Sampled: 11/20/02 12:00 Received: 11/22/02 12:45									
Ethanol	ND	50000	ug/l	1000	2120057	12/04/02	12/04/02	EPA 8260B	
Tert-butyl alcohol	ND	5000	"	"	"	"	"	"	
Methyl tert-butyl ether	**57000**	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	500	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	
Benzene	**19000**	500	"	"	"	"	"	"	
Ethylbenzene	**5900**	500	"	"	"	"	"	"	
Toluene	**38000**	500	"	"	"	"	"	"	
Xylenes (total)	**30000**	500	"	"	"	"	"	"	
Gasoline (C6-C10)	**190000**	50000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*60-140*		"	"	"	"	
Surrogate: 4-BFB		*102 %*	*60-140*		"	"	"	"	
Surrogate: 1,2-DCA-d4		*123 %*	*60-140*		"	"	"	"	
B-2-W (14.5) (S211628-02) Water Sampled: 11/20/02 13:20 Received: 11/22/02 12:45									
Ethanol	ND	1000	ug/l	20	2120135	12/09/02	12/09/02	EPA 8260B	HT-RS
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	HT-RS
Methyl tert-butyl ether	**240**	10	"	"	"	"	"	"	HT-RS
Di-isopropyl ether	ND	10	"	"	"	"	"	"	HT-RS
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	HT-RS
Tert-amyl methyl ether	ND	10	"	"	"	"	"	"	HT-RS
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	HT-RS
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	HT-RS
Benzene	**1600**	10	"	"	"	"	"	"	HT-RS
Ethylbenzene	**590**	10	"	"	"	"	"	"	HT-RS
Toluene	**2800**	10	"	"	"	"	"	"	HT-RS
Xylenes (total)	**2500**	20	"	"	"	"	"	"	HT-RS
Gasoline (C6-C10)	**17000**	1000	"	"	"	"	"	"	HT-RS
Surrogate: Toluene-d8		*104 %*	*60-140*		"	"	"	"	*HT-RS*
Surrogate: 4-BFB		*108 %*	*60-140*		"	"	"	"	*HT-RS*
Surrogate: 1,2-DCA-d4		*128 %*	*60-140*		"	"	"	"	*HT-RS*

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Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954	Project: Tosco 4625, Oakland, CA Project Number: N/A Project Manager: Jed Douglas	S211628 **Reported:** 12/10/02 18:43

BTEX by EPA Method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120057 - EPA 5030B [P/T]										
Blank (2120057-BLK1)				Prepared & Analyzed: 12/04/02						
Ethanol	ND	50	ug/l							
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline (C6-C10)	ND	50	"							
Surrogate: Toluene-d8	*25.8*		"	*25.0*		*103*	*60-140*			
Surrogate: 4-BFB	*25.9*		"	*25.0*		*104*	*60-140*			
Surrogate: 1,2-DCA-d4	*30.5*		"	*25.0*		*122*	*60-140*			
Laboratory Control Sample (2120057-BS1)				Prepared & Analyzed: 12/04/02						
Methyl tert-butyl ether	21.0	0.50	ug/l	21.8		96	60-140			
Benzene	12.2	0.50	"	13.4		91	70-130			
Toluene	76.4	0.50	"	81.0		94	70-130			
Gasoline (C6-C10)	816	50	"	1100		74	70-130			
Surrogate: Toluene-d8	*26.1*		"	*25.0*		*104*	*60-140*			
Surrogate: 4-BFB	*26.7*		"	*25.0*		*107*	*60-140*			
Surrogate: 1,2-DCA-d4	*31.3*		"	*25.0*		*125*	*60-140*			
Batch 2120135 - EPA 5030B [P/T]										
Blank (2120135-BLK1)				Prepared & Analyzed: 12/09/02						
Ethanol	ND	50	ug/l							
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							

Sequoia Analytical

819 Striker Ave Ste 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211628
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/10/02 18:43

BTEX by EPA Method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120135 - EPA 5030B [P/T]										
Blank (2120135-BLK1)				Prepared & Analyzed: 12/09/02						
Tert-amyl methyl ether	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline (C6-C10)	ND	50	"							
Surrogate: Toluene-d8	*25.4*		"	*25.0*		*102*	*60-140*			
Surrogate: 4-BFB	*25.6*		"	*25.0*		*102*	*60-140*			
Surrogate: 1,2-DCA-d4	*28.2*		"	*25.0*		*113*	*60-140*			
Laboratory Control Sample (2120135-BS1)				Prepared & Analyzed: 12/09/02						
Methyl tert-butyl ether	18.0	0.50	ug/l	21.8		83	60-140			
Benzene	12.6	0.50	"	13.4		94	70-130			
Toluene	70.8	0.50	"	81.0		87	70-130			
Gasoline (C6-C10)	825	50	"	1100		75	70-130			
Surrogate: Toluene-d8	*26.9*		"	*25.0*		*108*	*60-140*			
Surrogate: 4-BFB	*27.9*		"	*25.0*		*112*	*60-140*			
Surrogate: 1,2-DCA-d4	*31.7*		"	*25.0*		*127*	*60-140*			
Matrix Spike (2120135-MS1)	**Source: S211772-03**			Prepared & Analyzed: 12/09/02						
Methyl tert-butyl ether	16.0	0.50	ug/l	21.8	ND	73	60-140			
Benzene	11.2	0.50	"	13.4	ND	80	70-130			
Toluene	64.1	0.50	"	81.0	0.51	79	70-130			
Gasoline (C6-C10)	857	50	"	1100	240	56	60-140			QM-07
Surrogate: Toluene-d8	*26.0*		"	*25.0*		*104*	*60-140*			
Surrogate: 4-BFB	*27.3*		"	*25.0*		*109*	*60-140*			
Surrogate: 1,2-DCA-d4	*31.5*		"	*25.0*		*126*	*60-140*			

Sequoia Analytical

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Sacramento, CA 95834
(916) 921-9600
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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211628
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/10/02 18:43

BTEX by EPA Method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120135 - EPA 5030B [P/T]										
Matrix Spike Dup (2120135-MSD1)	**Source: S211772-03**			Prepared & Analyzed: 12/09/02						
Methyl tert-butyl ether	18.7	0.50	ug/l	21.8	ND	86	60-140	16	25	
Benzene	12.4	0.50	"	13.4	ND	89	70-130	10	25	
Toluene	74.7	0.50	"	81.0	0.51	92	70-130	15	25	
Gasoline (C6-C10)	994	50	"	1100	240	69	60-140	15	25	
Surrogate: Toluene-d8	*25.7*		"	*25.0*		*103*	*60-140*			
Surrogate: 4-BFB	*26.6*		"	*25.0*		*106*	*60-140*			
Surrogate: 1,2-DCA-d4	*31.2*		"	*25.0*		*125*	*60-140*			

Sequoia Analytical

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Gettler-Ryan - Petaluma	Project: Tosco 4625, Oakland, CA	S211628
1364 N McDowell Blvd. Ste B2	Project Number: N/A	**Reported:**
Petaluma CA, 94954	Project Manager: Jed Douglas	12/10/02 18:43

Notes and Definitions

HT-RS	This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be useful for their intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

№ 007649

TOSCO

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

Consultant Company: Gettler-Ryan Inc. 140158.05
Address: 1364 N. McDowell BLVD, Suite B2
City: Petaluma State: CA Zip Code: 94954
Telephone: 707-789-3255 Fax #: 707-789-3218
Report To: Jeff Douglas Sampler: Andrew Smith

Tosco Engineer: David B. DeWitt
Site #: 4625, GID T0600102156
Site Address: 3070 Fruitvale Ave.
City, State: Oakland, CA
QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ~~☐ 10 Work Days~~ ☒ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☒ Other

Project Coding:

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPHg/BTEX/MTBE *	TPH Diesel (8015)	TOG (418.1)	Oxygenates (6) 8260	Oxygenates (6)+ EDB 1,2 DCA (8260)					Comments
1. B-1-W (12)	11/20/02 1200	H2O	6	VOAs	211628-01	X			X						* TPHg & BTEX by EPA Method 8260B
2. B-2-W (14.5)	11/20/02 1320	H2O	6	VOAs	-02	X			X						
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															Rad 1.9K

Relinquished By:	Date: 11/21/02	Time: 1710	Received By: Michael Gorum	Date: 11/21/02	Time: 1710
Relinquished By:	Date: 11/22/02	Time: 1100	Received By:	Date: 11-22-02	Time: 1100
Relinquished By:	Date: 11-22-02	Time: 1245	Received By: Monica Gregson	Date: 11/22/02	Time: 1248

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page _____ of _____

To be completed upon receipt of report:

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

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

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Rettler Ryan
REC. BY (PRINT): Monroe
WORKORDER: 9211628

DATE Received at Lab: 11/25/09
TIME Received at Lab: 1248
LOG IN DATE: 11/25/09

(Drinking water) for regulatory purposes: YES/NO
(Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*							
2. Chain-of-Custody	Present / Absent*							
3. Traffic Reports or Packing List:	Present / Absent							
4. Airbill:	Airbill / Sticker Present / Absent							
5. Airbill #:								
6. Sample Labels:	Present / Absent							
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody			See COC				
8. Sample Condition:	Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	Yes / No*							
10. Sample received within hold time:	Yes / No*							
11. Proper Preservatives used:	Yes / No*							
12. Temp Rec. at Lab: 7.8°C (Acceptance range for samples requiring thermal pres.:4+/-2°C)	Yes / No*							

*If Circled, contact Project Manager and attach record of resolution.

Nº 007649

TOSCO

☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
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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

Consultant Company: Gettler-Ryan Inc. 140158.05
Address: 1364 N. McDowell BLVD, Suite B2
City: Petaluma State: CA Zip Code: 94954
Telephone: 707-789-3255 Fax #: 707-789-3218
Report To: Jed Douglas Sampler: Andrew Smith

Tosco Engineer: David B. De Witt
Site #: 4625, GID T0600102156
Site Address: 3070 Fruitvale Ave.
City, State: Oakland, CA
QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ~~☐ 10 Work Days~~ AS ☒ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☒ Other

Project Coding:

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH/g/BTEX/MTBE *	TPH Diesel (8015)	TOG (418.1)	Oxygenates (6) 8260	Oxygenates (6)+ EDB 1,2 DCA (8260)					Comments
1. B-1-W (12)	11/20/02 1200	H2O	6	VOAs	211628-01	X			X						* TPHg & BTEX by EPA Method 8260B
2. B-2-W (14.5)	11/20/02 1320	H2O	6	VOAs	-02	X			X						
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															Rad 1.9°C

Relinquished By:	Date: 11/20/02	Time: 1710	Received By: Michael Ygarin	Date: 11/21/02	Time: 1710
Relinquished By:	Date: 11-22-02	Time: 1130	Received By:	Date: 11-22-02	Time: 1101
Relinquished By:	Date: 11-22-02	Time: 1248	Received By: Monica Gregson	Date: 11/22/02	Time: 1218

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page _____ of _____

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

Pink - Client
Yellow - Sequoia
White - Sequoia

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Bettler Ryan
REC. BY (PRINT): Monica
WORKORDER: 9211628

DATE Received at Lab: 11/22/02
TIME Received at Lab: 1248
LOG IN DATE: 11/22/02

(Drinking water) for regulatory purposes: YES/NO
(Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*							
2. Chain-of-Custody	Present / Absent*							
3. Traffic Reports or Packing List:	Present / Absent*							
4. Airbill:	Airbill / Sticker Present / Absent							
5. Airbill #:								
6. Sample Labels:	Present / Absent							
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody			See COC				
8. Sample Condition:	Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	Yes / No*							
10. Sample received within hold time:	Yes / No*							
11. Proper Preservatives used:	Yes / No*							
12. Temp Rec. at Lab: (Acceptance range for samples requiring thermal pres.:4+/-2°C)	1.8°C Yes / No*							

*If Circled, contact Project Manager and attach record of resolution.

SEVERN TRENT STL

Submission#: 2002-11-0628

December 19, 2002

Gettler Ryan

6747 Sierra Court Suite J
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180255.80
Project: Tosco #4625
Site: 3070 Fruitvale Ave.
Oakland, CA

Dear Ms. Harding,

Attached is our report for your samples received on 11/27/2002 13:25
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/11/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,

Tod Granicher
Project Manager

SEVERN TRENT STL

Submission #: 2002-11-0628

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
Attn.: Deanna Harding

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

Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	11/26/2002	Water	1
MW-1	11/26/2002 06:35	Water	2
MW-2	11/26/2002 07:20	Water	3
MW-3	11/26/2002 11:10	Water	4
MW-4	11/26/2002 10:25	Water	5
MW-5	11/26/2002 09:30	Water	6
MW-6	11/26/2002 08:25	Water	7

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

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

Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2002-11-0628 - 1
Sampled:	11/26/2002	Extracted:	12/6/2002 20:42
Matrix:	Water	QC Batch#:	2002/12/06-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/06/2002 20:42	
Benzene	ND	0.50	ug/L	1.00	12/06/2002 20:42	
Toluene	ND	0.50	ug/L	1.00	12/06/2002 20:42	
Ethylbenzene	ND	0.50	ug/L	1.00	12/06/2002 20:42	
Total xylenes	ND	1.0	ug/L	1.00	12/06/2002 20:42	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/06/2002 20:42	
Surrogates(s)						
1,2-Dichloroethane-d4	92.4	76-114	%	1.00	12/06/2002 20:42	
Toluene-d8	96.8	88-110	%	1.00	12/06/2002 20:42	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

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

Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-1**	Lab ID:	2002-11-0628 - 2
Sampled:	11/26/2002 06:35	Extracted:	12/6/2002 21:03
Matrix:	Water	QC Batch#:	2002/12/06-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/06/2002 21:03	
Benzene	ND	0.50	ug/L	1.00	12/06/2002 21:03	
Toluene	ND	0.50	ug/L	1.00	12/06/2002 21:03	
Ethylbenzene	ND	0.50	ug/L	1.00	12/06/2002 21:03	
Total xylenes	ND	1.0	ug/L	1.00	12/06/2002 21:03	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	12/06/2002 21:03	
Methyl tert-butyl ether (MTBE)	23	2.0	ug/L	1.00	12/06/2002 21:03	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/06/2002 21:03	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/06/2002 21:03	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/06/2002 21:03	
1,2-DCA	ND	2.0	ug/L	1.00	12/06/2002 21:03	
EDB	ND	2.0	ug/L	1.00	12/06/2002 21:03	
Ethanol	ND	500	ug/L	1.00	12/06/2002 21:03	
Surrogates(s)						
1,2-Dichloroethane-d4	93.7	76-114	%	1.00	12/06/2002 21:03	
Toluene-d8	100.1	88-110	%	1.00	12/06/2002 21:03	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

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

Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-2**	Lab ID:	2002-11-0628 - 3
Sampled:	11/26/2002 07:20	Extracted:	12/9/2002 13:51
Matrix:	Water	QC Batch#:	2002/12/09-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	340	50	ug/L	1.00	12/09/2002 13:51	
Benzene	87	0.50	ug/L	1.00	12/09/2002 13:51	
Toluene	ND	0.50	ug/L	1.00	12/09/2002 13:51	
Ethylbenzene	33	0.50	ug/L	1.00	12/09/2002 13:51	
Total xylenes	23	1.0	ug/L	1.00	12/09/2002 13:51	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/09/2002 13:51	
Surrogates(s)						
1,2-Dichloroethane-d4	89.9	76-114	%	1.00	12/09/2002 13:51	
Toluene-d8	99.0	88-110	%	1.00	12/09/2002 13:51	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

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

Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-3**	Lab ID:	2002-11-0628 - 4
Sampled:	11/26/2002 11:10	Extracted:	12/9/2002 14:13
Matrix:	Water	QC Batch#:	2002/12/09-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/09/2002 14:13	
Benzene	ND	0.50	ug/L	1.00	12/09/2002 14:13	
Toluene	ND	0.50	ug/L	1.00	12/09/2002 14:13	
Ethylbenzene	ND	0.50	ug/L	1.00	12/09/2002 14:13	
Total xylenes	ND	1.0	ug/L	1.00	12/09/2002 14:13	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/09/2002 14:13	
Surrogates(s)						
1,2-Dichloroethane-d4	90.3	76-114	%	1.00	12/09/2002 14:13	
Toluene-d8	99.9	88-110	%	1.00	12/09/2002 14:13	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

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

Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-4**	Lab ID:	2002-11-0628 - 5
Sampled:	11/26/2002 10:25	Extracted:	12/9/2002 14:35
Matrix:	Water	QC Batch#:	2002/12/09-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/09/2002 14:35	
Benzene	ND	0.50	ug/L	1.00	12/09/2002 14:35	
Toluene	ND	0.50	ug/L	1.00	12/09/2002 14:35	
Ethylbenzene	ND	0.50	ug/L	1.00	12/09/2002 14:35	
Total xylenes	ND	1.0	ug/L	1.00	12/09/2002 14:35	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/09/2002 14:35	
Surrogates(s)						
1,2-Dichloroethane-d4	89.0	76-114	%	1.00	12/09/2002 14:35	
Toluene-d8	99.2	88-110	%	1.00	12/09/2002 14:35	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

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

Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-5**	Lab ID:	2002-11-0628 - 6
Sampled:	11/26/2002 09:30	Extracted:	12/10/2002 13:21
Matrix:	Water	QC Batch#:	2002/12/10-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2500	500	ug/L	10.00	12/10/2002 13:21	
Benzene	350	5.0	ug/L	10.00	12/10/2002 13:21	
Toluene	39	5.0	ug/L	10.00	12/10/2002 13:21	
Ethylbenzene	32	5.0	ug/L	10.00	12/10/2002 13:21	
Total xylenes	640	10	ug/L	10.00	12/10/2002 13:21	
tert-Butyl alcohol (TBA)	ND	1000	ug/L	10.00	12/10/2002 13:21	
Methyl tert-butyl ether (MTBE)	470	20	ug/L	10.00	12/10/2002 13:21	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	10.00	12/10/2002 13:21	
Ethyl tert-butyl ether (ETBE)	ND	20	ug/L	10.00	12/10/2002 13:21	
tert-Amyl methyl ether (TAME)	ND	20	ug/L	10.00	12/10/2002 13:21	
1,2-DCA	ND	20	ug/L	10.00	12/10/2002 13:21	
EDB	ND	20	ug/L	10.00	12/10/2002 13:21	
Ethanol	ND	5000	ug/L	10.00	12/10/2002 13:21	
Surrogates(s)						
1,2-Dichloroethane-d4	85.1	76-114	%	10.00	12/10/2002 13:21	
Toluene-d8	95.8	88-110	%	10.00	12/10/2002 13:21	

Gas/BTEX Fuel Oxygenates by 8260B

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

Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-6**	Lab ID:	2002-11-0628 - 7
Sampled:	11/26/2002 08:25	Extracted:	12/10/2002 13:48
Matrix:	Water	QC Batch#:	2002/12/10-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	11000	1000	ug/L	20.00	12/10/2002 13:48	
Benzene	1200	10	ug/L	20.00	12/10/2002 13:48	
Toluene	2000	10	ug/L	20.00	12/10/2002 13:48	
Ethylbenzene	400	10	ug/L	20.00	12/10/2002 13:48	
Total xylenes	2300	20	ug/L	20.00	12/10/2002 13:48	
tert-Butyl alcohol (TBA)	ND	2000	ug/L	20.00	12/10/2002 13:48	
Methyl tert-butyl ether (MTBE)	490	40	ug/L	20.00	12/10/2002 13:48	
Di-isopropyl Ether (DIPE)	ND	40	ug/L	20.00	12/10/2002 13:48	
Ethyl tert-butyl ether (ETBE)	ND	40	ug/L	20.00	12/10/2002 13:48	
tert-Amyl methyl ether (TAME)	ND	40	ug/L	20.00	12/10/2002 13:48	
1,2-DCA	ND	40	ug/L	20.00	12/10/2002 13:48	
EDB	ND	40	ug/L	20.00	12/10/2002 13:48	
Ethanol	ND	10000	ug/L	20.00	12/10/2002 13:48	
Surrogates(s)						
1,2-Dichloroethane-d4	87.0	76-114	%	20.00	12/10/2002 13:48	
Toluene-d8	99.4	88-110	%	20.00	12/10/2002 13:48	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2002/12/06-01.27-008

Water

Test(s): 8260FAB
QC Batch # 2002/12/06-01.27
Date Extracted: 12/06/2002 11:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/06/2002 11:53	
Benzene	ND	0.5	ug/L	12/06/2002 11:53	
Toluene	ND	0.5	ug/L	12/06/2002 11:53	
Ethylbenzene	ND	0.5	ug/L	12/06/2002 11:53	
Total xylenes	ND	1.0	ug/L	12/06/2002 11:53	
tert-Butyl alcohol (TBA)	ND	100	ug/L	12/06/2002 11:53	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/06/2002 11:53	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	12/06/2002 11:53	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	12/06/2002 11:53	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	12/06/2002 11:53	
1,2-DCA	ND	2.0	ug/L	12/06/2002 11:53	
EDB	ND	2.0	ug/L	12/06/2002 11:53	
Ethanol	ND	500	ug/L	12/06/2002 11:53	
Surrogates(s)					
1,2-Dichloroethane-d4	86.0	76-114	%	12/06/2002 11:53	
Toluene-d8	98.8	88-110	%	12/06/2002 11:53	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
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Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2002/12/09-01.27-017

Water

Test(s): 8260FAB
QC Batch # 2002/12/09-01.27
Date Extracted: 12/09/2002 12:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/09/2002 12:15	
Benzene	ND	0.5	ug/L	12/09/2002 12:15	
Toluene	ND	0.5	ug/L	12/09/2002 12:15	
Ethylbenzene	ND	0.5	ug/L	12/09/2002 12:15	
Total xylenes	ND	1.0	ug/L	12/09/2002 12:15	
tert-Butyl alcohol (TBA)	ND	100	ug/L	12/09/2002 12:15	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/09/2002 12:15	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	12/09/2002 12:15	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	12/09/2002 12:15	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	12/09/2002 12:15	
1,2-DCA	ND	2.0	ug/L	12/09/2002 12:15	
EDB	ND	2.0	ug/L	12/09/2002 12:15	
Ethanol	ND	500	ug/L	12/09/2002 12:15	
Surrogates(s)					
1,2-Dichloroethane-d4	83.4	76-114	%	12/09/2002 12:15	
Toluene-d8	98.0	88-110	%	12/09/2002 12:15	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2002/12/10-01.27-006

Water

Test(s): 8260FAB
QC Batch # 2002/12/10-01.27
Date Extracted: 12/10/2002 12:54

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/10/2002 12:54	
Benzene	ND	0.5	ug/L	12/10/2002 12:54	
Toluene	ND	0.5	ug/L	12/10/2002 12:54	
Ethylbenzene	ND	0.5	ug/L	12/10/2002 12:54	
Total xylenes	ND	1.0	ug/L	12/10/2002 12:54	
tert-Butyl alcohol (TBA)	ND	100	ug/L	12/10/2002 12:54	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/10/2002 12:54	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	12/10/2002 12:54	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	12/10/2002 12:54	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	12/10/2002 12:54	
1,2-DCA	ND	2.0	ug/L	12/10/2002 12:54	
EDB	ND	2.0	ug/L	12/10/2002 12:54	
Ethanol	ND	500	ug/L	12/10/2002 12:54	
Surrogates(s)					
1,2-Dichloroethane-d4	85.4	76-114	%	12/10/2002 12:54	
Toluene-d8	96.9	88-110	%	12/10/2002 12:54	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2002/12/06-01.27

LCS 2002/12/06-01.27-004 Extracted: 12/06/2002 Analyzed: 12/06/2002 11:04

LCSD 2002/12/06-01.27-005 Extracted: 12/06/2002 Analyzed: 12/06/2002 11:30

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	25.4	25.3	25.0	101.6	101.2	0.4	69-129	20		
Toluene	24.8	25.1	25.0	99.2	100.4	1.2	70-130	20		
Methyl tert-butyl ether (MTBE)	23.3	24.4	25.0	93.2	97.6	4.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	428	420	500	85.6	84.0		76-114			
Toluene-d8	501	504	500	100.2	100.8		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2002/12/09-01.27**

LCS 2002/12/09-01.27-004 Extracted: 12/09/2002 Analyzed: 12/09/2002 11:25

LCSD 2002/12/09-01.27-005 Extracted: 12/09/2002 Analyzed: 12/09/2002 11:54

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	24.9	25.4	25.0	99.6	101.6	2.0	69-129	20		
Toluene	24.5	24.7	25.0	98.0	98.8	0.8	70-130	20		
Methyl tert-butyl ether (MTBE)	23.9	27.3	25.0	95.6	109.2	13.3	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424	431	500	84.8	86.2		76-114			
Toluene-d8	481	476	500	96.2	95.2		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2002/12/10-01.27**

LCS 2002/12/10-01.27-004 Extracted: 12/10/2002 Analyzed: 12/10/2002 12:11

LCSD 2002/12/10-01.27-005 Extracted: 12/10/2002 Analyzed: 12/10/2002 12:37

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	25.1	26.0	25.0	100.4	104.0	3.5	69-129	20		
Toluene	24.4	25.0	25.0	97.6	100.0	2.4	70-130	20		
Methyl tert-butyl ether (MTBE)	26.0	29.1	25.0	104.0	116.4	11.3	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	446	454	500	89.2	90.8		76-114			
Toluene-d8	481	492	500	96.2	98.4		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Dublin, CA 94568
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Project: 180255.80
Tosco #4625

Received: 11/27/2002 13:25

Site: 3070 Fruitvale Ave.
Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Matrix Spike (MS / MSD) **Water** **QC Batch # 2002/12/09-01.27**

MW-6 >> MS

Lab ID: 2002-11-0628 - 007

MS: 2002/12/09-01.27-015 Extracted: 12/09/2002 Analyzed: 12/09/2002 15:39

Dilution: 1.00

MSD: 2002/12/09-01.27-016 Extracted: 12/09/2002 Analyzed: 12/09/2002 16:01

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	31000	0.1	ND	25.0	12400	0.4	200.	69-129	20	msl	msl
Toluene	ND		0.500	25.0	*			70-130	20	msl	
Methyl tert-butyl ether	442	38.7	403	25.0	156.0	-1457.	-248	65-165	20		msl
Surrogate(s)											
1,2-Dichloroethane-d4	410	413		500	82.1	82.7		76-114			
Toluene-d8	489	487		500	97.8	97.3		88-110			

2002-11-0628

7050

Gettler-Ryan Inc., Chain-of-Custod

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

Facility Number #4625
Facility Address 3070 FRUITVALE AVE., OAKLAND, CA
Global ID T0600102156 Project 180255.80
Client Contact MR. DAVID B. DEWITT
Phone (925) 277-2384

Laboratory Name STL - PLEASANTON, CA
Consultant GETTLER-RYAN, INC. DEANNA L. HARDING
Address 6747 SIERRA CT., SUITE J, DUBLIN CA 94568
Phone (925) 551-7555 Fax (925) 551-7899
Samples Collected by G. Rogers

SAMPLE ID	Number of Containers / Matrix (S = Soil A = Air W = Water C = Charcoal)	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	8 OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Total Chromium				Remarks
QA	1 W	HCL	11-26-02					✓													
MW-1	3 W	HCL	0635					✓													Running 8 Oxy's
MW-2	3 W	HCL	0720					✓													
MW-3	11 W		1110		✓			✓			✓				✓	✓	✓				
MW-4	3 W	HCL	1225					✓													
MW-5	3 W	HCL	0930					✓	✓												
MW-6	3 W	HCL	0825					✓	✓												

Run 8 Oxy's by 8260 on all 826 MTBE hits. Unless not

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

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
	Gettler	11/26/02 1330				
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N
					11-27-02	1325

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
72 Hrs.
5 Days
10 Days
As Contracted