GETTLER-RYAN INC.

1/15/98 Elevated benzene levels in soil at 19.5' bgs- up to 1.5ppm benzene. Need addl investigation.

TRANSMITTAL

TO: Mr. Robert Weston
Alameda County Dept. of Envir. Health
1131 Harbor Bay Pkwy., Suite 250
Alameda, California 94502-6577

DATE: January 11, 1999
PROJ. #: 140166.02
SUBJECT: Tosco 76 Branded Facility No. 3538, 411 West Mac Arthur Boulevard, Oakland, California

FROM: David J. Vossler
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	January 11, 1999	Tank and Product Piping Removal Report

THESE ARE TRANSMITTED as checked below:

[ ] For review and comment	[ ] Approved as submitted	[ ] Resubmit __ copies for approval
[X] As requested	[ ] Approved as noted	[ ] Submit __ copies for distribution
[ ] For approval	[ ] Return for corrections	[ ] Return __ corrected prints
[X] For Your Files		

COMMENTS:
At the request of Tosco Marketing Company, we are sending one copy of the above report for your files. If you have any questions or comments, please call me at (510) 551-7555.

cc: Mr. David De Witt, Tosco marketing Company

GETTLER-RYAN INC.

January 11, 1999

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

Subject: **Underground Storage Tanks and Product Piping Removal Report for Former Tosco 76 Branded Facility No. 3538, 411 West Mac Arthur Boulevard, Oakland, California.**

Dear Mr. De Witt:

At the request of Tosco Marketing Company, Gettler-Ryan Inc. (GR) conducted a soil investigation during underground storage tanks (USTs) and product piping removal activities at the subject site. The purpose was to assess if petroleum hydrocarbons have impacted the soil near the former gasoline USTs and beneath the former product lines. The scope of work included: observing removal of the former USTs; collecting soil samples from the UST pit, collecting soil samples from the former product piping trenches, and from the soil stockpiles for disposal characterization; submitting soil samples for analysis; coordinating disposal of selected soil stockpiles; and preparing a report of the field activities and analytical results. UST removal and excavation activities were performed by John's Excavating of Santa Rosa, California.

SITE DESCRIPTION

The subject site is a former service station located on the southwest corner of the intersection of Mac Arthur Boulevard and Webster Street in Oakland, California (Figure 1). The site is currently closed and fenced. The current facilities consist of a vacant building, canopy and two dispenser islands. All petroleum storage and dispensing equipment has been removed (as described below). Pertinent site features are shown on Figure 2.

FIELD WORK

Sampling was performed in accordance with the attached GR Field Methods and Procedures. All soil samples collected during this investigation were submitted under chain-of-custody to Sequoia Analytical Laboratory located in Walnut Creek, California (ELAP #1271). Analytical methods

6747 Sierra Court, Suite J • Dublin, California 94568 • (925) 551-7555

and results are summarized in Table 1. Soil sample locations are shown on Figure 2. Copies of the laboratory analytical reports and chain-of-custody records are attached. Mr. Robert Weston of the Alameda County Health Care Services Agency (ACHCSA) was present at the site to observe former UST removal and sample collection. Groundwater was not encountered during this investigation.

Gasoline UST Removal and Soil Sampling

On September 14, 1998, two 12,000-gallon double-walled steel unleaded gasoline USTs were uncovered and removed from the site. Upon removal, the USTs were visually inspected for evidence of failure. No holes or cracks were observed in the tanks. The USTs were removed from the site and disposed of by Ecology Control Industries (ECI) of Richmond, California.

Limits of the gasoline UST pit is shown on Figure 2. The gasoline UST pit backfill material consisted primarily of pea gravel. Native soil in the vicinity of the gasoline UST pit consisted primarily of sandy silt. Following UST removal, four soil samples, labeled A1(19), A2(18), B1(19.5), and B2(19.5), were collected from beneath the gasoline USTs at depths of approximately 18 to 19.5 feet bgs. All soil samples from the former gasoline UST pit were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tert-butyl ether (MTBE), and total lead.

MTBE was not detected in any of the soil samples from the gasoline UST pit. TPHg was detected in soil sample B1(19.5) at a concentration of 360 parts per million (ppm), and in all other three soil samples at concentrations ranging between 3.5 and 12 ppm.

Product Line Removal and Soil Sampling

On September 14, 1998, the product dispensers and 2-inch-diameter single-wall fiberglass product lines were removed. Four soil samples, labeled P1(6) through P4(6), were collected from the base of the product piping trenches at depths of approximately 6.0 feet bgs. Soil in the vicinity of the product line trenches and dispensers consisted of clayey silt. The soil samples collected from the product piping trenches were analyzed for TPHg, BTEX, lead, and MTBE. All soil samples from the product piping trenches contained no detectable concentrations of TPHg, BTEX, and MTBE. Total lead was only detected in two soil samples, P1(6) and P2(6), at concentrations of 11 ppm and 1.3 ppm, respectively.

Stockpile Sampling

On September 14, 1998, four composite soil samples (CompA, CompB, CompC, and CompD) were collected from approximately 380 cubic yards of stockpiled pea gravel backfill generated from the gasoline USTs and piping trench excavations. Stockpile samples were collected for disposal characterization. All stockpile soil samples were analyzed for TPHg, BTEX, total lead, and MTBE. The analytical results for stockpile soil were within limits acceptable to the landfill.

SOIL DISPOSAL

On October 28 and 30, 1998, Denbeste Transportation, Inc. of Windsor, California, removed the soil stockpile represented by samples CompA, CompB, CompC, and CompD from the site and transported a total of 516.44 tons of soil to the Forward, Inc. disposal facility in Manteca, California. A copy of Forward Landfill acceptance documentation is attached.

If you have any questions regarding this report please call us in our Dublin office at (510) 551-7555.

Sincerely,
Gettler-Ryan Inc.

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/00
CIVIL
STATE OF CALIFORNIA

Hagop Kevork
Staff Engineer
P.E. C55734

for

David J. Vossler
Project Manager

Attachments: Table 1. Analytical Results
Figure 1. Vicinity Map
Figure 2. Site Plan/Sample Location Map
GR Field Methods and Procedures
Forward Landfill Acceptance Documentation
Laboratory Analytical Reports and Chain-of-Custody Records

140166.02

Table 1 - Soil Chemical Analytical Data

Former Tosco 76 Branded Facility No. 3538
411 West Mac Arthur Boulevard
Oakland, California

Sample ID	Date Collected	Sample Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-Benzene (ppm)	Xylenes (ppm)	MTBE (ppm)	Lead (ppm)
GASOLINE UST PIT									
A1(19)	9/14/98	19.0	3.5	0.53	0.36	0.069	0.40	ND	26
A2(18)	9/14/98	18.0	12	0.050	0.075	ND	0.026	ND	ND
B1(19.5)	9/14/98	19.5	360	1.5	15	7.0	44	ND	1.7
B2(19.5)	9/14/98	19.5	6.7	0.017	1.8	0.24	1.4	ND	2.7
PRODUCT LINES									
P1(6)	9/14/98	6.0	ND	ND	ND	ND	ND	ND	11
P2(6)	9/14/98	6.0	ND	ND	ND	ND	ND	ND	1.3
P3(6)	9/14/98	6.0	ND	ND	ND	ND	ND	ND	ND
P4(6)	9/14/98	6.0	ND	ND	ND	ND	ND	ND	ND
GASOLINE TANK PIT STOCKPILE									
Comp A	9/14/98	NA	ND	ND	ND	ND	ND	ND	9.5
Comp B	9/14/98	NA	3.7	ND	0.014	0.013	0.040	ND	6.8
Comp C	9/14/98	NA	ND	ND	0.0052	ND	0.011	ND	2.5
Comp D	9/14/98	NA	26	0.13	0.12	0.28	1.1	0.29	3.7

EXPLANATION:
ND = none detected
NA = not applicable
ppm = parts per million

ANALYTICAL LABORATORY;
Sequoia Analytical (ELAP # 1271)

ANALYTICAL METHODS;
TPHg = Total Petroleum Hydrocarbons as gasoline according to EPA Method 8015 Modified.
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes according to EPA Method 8020.
MTBE = Methyl Tert-Butyl Ether according to EPA Method 8020.

140166.02

Source: Street Atlas USA, Delorme (1995).

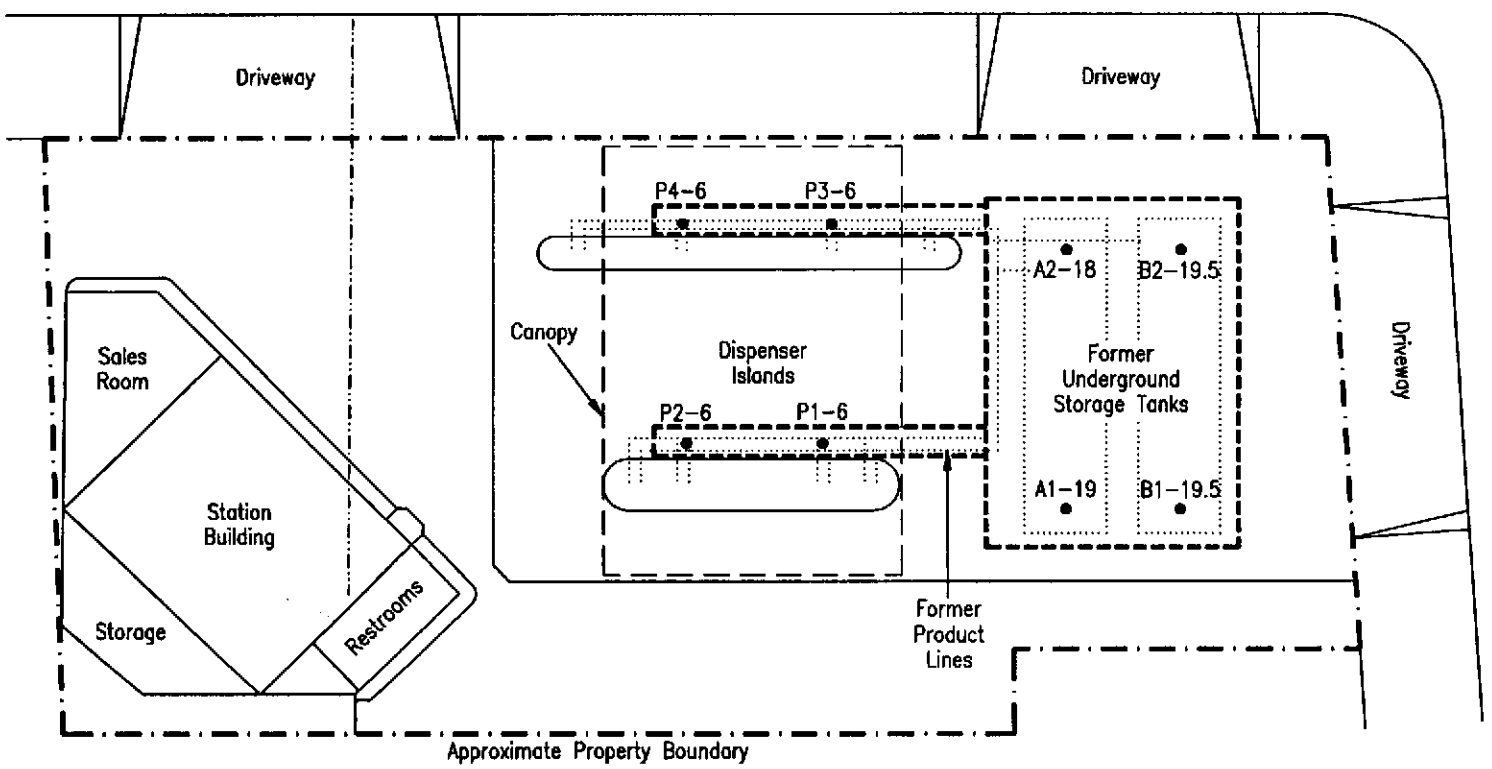
Gettler - Ryan Inc.

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

VICINITY MAP
Former Tosco 76 Branded Facility No. 3538
411 West Mac Arthur Boulevard
Oakland, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140166		10/98	



Source: Figure Modified From Drawing Provided By Unocal.

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

SITE PLAN/SOIL SAMPLE LOCATION MAP
Former Tosco 76 Branded Facility No. 3538
411 West Mac Arthur Boulevard
Oakland, California

FIGURE 2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140166		10/98	

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 contents of these plans 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 Samples

Soil samples are collected from the wall or base of the excavation with a hand-driven sampling device fitted with a 2-inch-diameter, clean brass tube or stainless steel liner. If safety considerations preclude collection of the samples with the drive sampler, the excavating equipment is used to bring soil from the pit wall to the surface, where a sample tube is filled by driving it into the soil in the excavator's bucket. After removal from the sampling device, sample tubes are covered on both ends with teflon sheeting, capped, labeled, and place 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.

If it is necessary to collect a sample of groundwater standing in the UST pit, the sample is collected by lowering a new, clean teflon bailer into the pit from a safe position along the pit wall. Once filled and retrieved, the groundwater in the bailer is carefully decanted into the appropriate containers supplied by the analytical laboratory. If required, preservative is added to the sample bottles by the laboratory prior to delivery. The samples are then labeled and place 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.

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from soil samples. This test procedure involves placing a small amount of the soil to be screened in a sealable plastic bag. The bag is warmed in the sun to allow organic compounds in the soil sample to volatilize. The PID probe is inserted through the wall of the bag and into the headspace inside, and the meter reading is recorded in the field notes. An alternative method involves placing a plastic cap over the end of the sample tube. The PID probe is placed through a hole in the plastic cap, and vapors with the covered tube measured. Head-space screening is performed and results recorded as reconnaissance data only. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Storing and Sampling of Soil Stockpiles

Excavated material is stockpiled on and covered with plastic sheeting. Stockpile samples are collected and analyzed for disposal classification on the basis of one composite sample per 100 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 12 to 18 inches of soil, and them driving the stainless steel or brass sample tube into the stockpiled material with a 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.

FORWARD
INCORPORATED

P.O. Box 6336
1145 W. Charter Way • Stockton, CA 95206
(209) 466-4482 • (800) 204-4242 • FAX (209) 466-1067

October 6, 1998

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

Attn: Doug Lee

Re: Approval No. 757022
Gasoline contaminated soil
Former Tosco 76 #3538 - 411 West MacArthur Blvd

Dear Mr. Lee:

FORWARD INC. is pleased to inform you that the approximately 513 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 757022. This number should be used in all scheduling and correspondence with ***FORWARD, INC.*** regarding this waste profile.

This profile shall remain in effect until February 28, 1999, 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 4:30 pm for soil, 6:00 am to 3:00 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,

FORWARD, INC.

Brad Bonner JR
Brad J. Bonner
Sales Manager

BJB/sr

F:\FORWARD\MERGE FORMS\ACCEPT.DOC

Date 12/07/98
Time 08:59:09

FORWARD. INC.

MATERIAL ANALYSIS REPORT BY ACCOUNT

For the period / / - 12/06/98
Detailed report for sites 00 - 99
Accounts 757022 - 757022 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - Z

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.
10/28/98	CII SOIL T	C	757022	B	01-107950	0	18	18	27.13	27.13
10/28/98	CII SOIL T	C	757022	B	01-107969	0	18	18	23.60	23.60
10/28/98	CII SOIL T	C	757022	B	01-108054	0	18	18	22.15	22.15
10/28/98	CII SOIL T	C	757022	B	01-107992	0	18	18	23.93	23.93
10/28/98	CII SOIL T	C	757022	B	01-108087	0	18	18	25.56	25.56
10/28/98	CII SOIL T	C	757022	B	01-108092	0	18	18	37.44	37.44
10/28/98	CII SOIL T	C	757022	B	01-107849	0	18	18	25.68	25.68
10/28/98	CII SOIL T	C	757022	B	01-107851	0	18	18	23.04	23.04
10/28/98	CII SOIL T	C	757022	B	01-107864	0	18	18	20.88	20.88
10/28/98	CII SOIL T	C	757022	B	01-107871	0	18	18	24.03	24.03
10/28/98	CII SOIL T	C	757022	B	01-107884	0	18	18	29.86	29.86
10/28/98	CII SOIL T	C	757022	B	01-107886	0	18	18	22.36	22.36
10/28/98	CII SOIL T	C	757022	B	01-107890	0	18	18	24.00	24.00
10/28/98	CII SOIL T	C	757022	B	01-107910	0	18	18	27.17	27.17
10/28/98	CII SOIL T	C	757022	B	01-107915	0	18	18	27.15	27.15
10/28/98	CII SOIL T	C	757022	B	01-107916	0	18	18	32.68	32.68
10/28/98	CII SOIL T	C	757022	B	01-107919	0	108	108	30.23	30.23
10/28/98	CII SOIL T	C	757022	B	01-107930	0	18	18	25.65	25.65
10/30/98	CII SOIL T	C	757022	B	02-045945	0	18	18	19.26	19.26
10/30/98	CII SOIL T	C	757022	B	02-045946	0	18	18	24.64	24.64
	TOSCO MARKETING (T.BERRY)				20	0	450	450	516.44	516.44
	Average					0	23	23	26.00	26.00
	Report Total				20	0	450	450	516.44	516.44
	Report Average					0	23	23	26.00	26.00

FORWARD
INCORPORATED

P.O. Box 6336
1145 W. Charter Way • Stockton, CA 95206
(209) 466-4482 • (800) 204-4242 • FAX (209) 466-1067

December 9, 1998

Gettler-Ryan, Inc
Attention: Haig Kevork
6747 Sierra court, Ste J
Dublin, California 94568

Re: ***FORWARD, INC.*** Approval No. 757022
Contaminated Soil from
Former Tosco 76 #3538 – 411 West MacArthur Blvd, Oakland

Dear Mr. Kevork:

FORWARD, INC. is pleased to confirm the disposal of 516.44 of material as referenced above. The material was received at our Manteca, California facility for disposal on 10/28/98 and 10/30/98. The material was placed in a Class 2 waste management unit.

Approval for this material was 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 the "Terms and Conditions" agreed to and signed by the Generator on the Waste Profile Form.

Thank you for the opportunity to be of service. Should you have any questions regarding this matter, please contact me or Customer Service at (800) 204-4242.

Sincerely,

FORWARD, INC.

Brad Bonner
Brad J. Bonner
Sales Manager

BB/sr

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Tosco-76 #3538, Oakland	Sampled:	Sep 14, 1998
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received:	Sep 14, 1998
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Sep 29, 1998
Attention: Haig Kevork	First Sample #:	809-1298		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 809-1298 A1(19)	Sample I.D. 809-1299 A2(18)	Sample I.D. 809-1300 B1(19.5)	Sample I.D. 809-1301 B2(19.5)	Sample I.D. 809-1302 P1(6)	Sample I.D. 809-1303 P2(6)
Purgeable Hydrocarbons	1.0	3.5	12	360	6.7	N.D.	N.D.
Benzene	0.0050	0.53	0.050	1.5	0.017	N.D.	N.D.
Toluene	0.0050	0.36	0.075	15	1.8	N.D.	N.D.
Ethyl Benzene	0.0050	0.069	N.D.	7.0	0.24	N.D.	N.D.
Total Xylenes	0.0050	0.40	0.026	44	1.4	N.D.	N.D.
MTBE	0.050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	5.0	100	1.0	1.0	1.0
Date Analyzed:	9/16/98	9/16/98	9/16/98	9/16/98	9/16/98	9/16/98
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	76	76	**	74	84	82

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
** Surrogate recovery below detection limit due to dilution.
* Revised 9/30/98. Purgeable Hydrocarbons were originally reported at water sample (1,000 x) concentrations. Technician reporting error.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Tosco-76 #3538, Oakland	Sampled:	Sep 14, 1998
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received:	Sep 14, 1998
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Sep 29, 1998
Attention: Haig Kevork	First Sample #:	809-1304		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 809-1304 P3(6)	Sample I.D. 809-1305 P4(6)
Purgeable Hydrocarbons	1.0	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.
MTBE	0.050	N.D.	N.D.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	9/16/98	9/16/98
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	76	84

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager

8091298.GET <2>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Tosco-76 #3538, Oakland	Sampled:	Sep 14, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil	Received:	Sep 14, 1998
Dublin, CA 94568	Analysis for:	Lead	Extracted:	Sep 21, 1998
Attention: Haig Kevork	First Sample #:	809-1298	Analyzed:	Sep 25, 1998
			Reported:	Sep 29, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
809-1298	A1(19)	1.0	26
809-1299	A2(18)	1.0	N.D.
809-1300	B1(19.5)	1.0	1.7
809-1301	B2(19.5)	1.0	2.7
809-1302	P1(6)	1.0	11
809-1303	P2(6)	1.0	1.3
809-1304	P3(6)	1.0	N.D.
809-1305	P4(6)	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco-76 #3538, Oakland
Matrix: Solid
QC Sample Group: 8091298-305

Reported: Sep 29, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Kelly
MS/MSD Batch#:	8091373	8091373	8091373	8091373	8091298
Date Prepared:	9/16/98	9/16/98	9/16/98	9/16/98	9/21/98
Date Analyzed:	9/16/98	9/16/98	9/16/98	9/16/98	9/25/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-4
Conc. Spiked:	0.80 mg/kg	0.80 mg/kg	0.80 mg/kg	2.4 mg/kg	50 mg/kg
Matrix Spike % Recovery:	75	81	84	88	6.0
Matrix Spike Duplicate % Recovery:	74	80	83	88	6.0
Relative % Difference:	1.7	1.6	1.5	0.0	0.0
LCS Batch#:	4LCS091698	4LCS091698	4LCS091698	4LCS091698	LCS092198
Date Prepared:	9/16/98	9/16/98	9/16/98	9/16/98	9/21/98
Date Analyzed:	9/16/98	9/16/98	9/16/98	9/16/98	9/25/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-4
LCS % Recovery:	85	90	90	92	86
% Recovery Control Limits:	50-150	50-150	50-150	50-150	80-120

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

☐ 680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: GETTLER-RYAN INC.	Project Name: FORMER TOSCO-76 #3538
Address: 6747 Sierra Ct, Suite J	Billing Address (if different): 9809282
City: DUBLIN State: CA Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY
Telephone: (925) 551-7555 FAX #: 551-7888	P.O. #: 411 W. MACARTHUR BLVD., OAKLAND, CA
Report To: HAIG KEVORK Sampler: HAIG KEVORK	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours ☐ 7 Working Days ☐ 2 Working Days ☐ 5 Working Days ☐ 24 Hours

☐ Drinking Water ☐ Waste Water ☒ Other

Analyses Requested: TPH-G, BTEX, MTBE, Total Pb

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Comments
1. A1(19)	9/14/98	SOIL	1	BRASS TUBE	8091298	
2. A2(18)			1		8091299	
3. B1(19.5)			1		8091300	
4. B2(19.5)			1		8091301	
5. P1(6)			1		8091302	
6. P2(6)			1		8091303	
7. P3(6)			1		8091304	
8. P4(6)			1		8091305	
9.						
10.						

Relinquished By: [signature]	Date: 9/14/98	Time:	Received By:	Date: / Time:
Relinquished By:	Date:	Time:	Received By:	Date: / Time:
Relinquished By:	Date:	Time:	Received By Lab: [signature]	Date: 9/14 Time: 1830

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment_____ Page ___ of ___

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Tosco-76#3538, Oakland	Sampled:	Sep 14, 1998
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received:	Sep 14, 1998
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Sep 29, 1998
Attention: Haig Kevork	First Sample #:	809-1306		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 809-1306 Comp A	Sample I.D. 809-1307 Comp B	Sample I.D. 809-1308 Comp C	Sample I.D. 809-1309 Comp D
Purgeable Hydrocarbons	1.0	N.D.	3.7	N.D.	26
Benzene	0.0050	N.D.	N.D.	N.D.	0.13
Toluene	0.0050	N.D.	0.014	0.0052	0.12
Ethyl Benzene	0.0050	N.D.	0.013	N.D.	0.28
Total Xylenes	0.0050	N.D.	0.040	0.011	1.1
MTBE	0.050	N.D.	N.D.	N.D.	0.29
Chromatogram Pattern:		--	Gasoline	--	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0
Date Analyzed:	9/17/98	9/17/98	9/17/98	9/17/98
Instrument Identification:	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	90	86	87	74

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
* Revised 10/1/98.

8091306.GET <1>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Tosco-76#3538, Oakland	Sampled:	Sep 14, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil	Received:	Sep 14, 1998
Dublin, CA 94568	Analysis for:	Lead	Digested:	Sep 21, 1998
Attention: Haig Kevork	First Sample #:	809-1306	Analyzed:	Sep 25, 1998
			Reported:	Sep 29, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
809-1306	Comp A	1.0	9.5
809-1307	Comp B	1.0	6.8
809-1308	Comp C	1.0	2.5
809-1309	Comp D	1.0	3.7

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco-76#3538, Oakland
Matrix: Solid
QC Sample Group: 8091306-309

Reported: Sep 29, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Kelly
MS/MSD Batch#:	8091306	8091306	8091306	8091306	8091298
Date Prepared:	9/17/98	9/17/98	9/17/98	9/17/98	9/21/98
Date Analyzed:	9/17/98	9/17/98	9/17/98	9/17/98	9/25/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-4
Conc. Spiked:	0.80 mg/kg	0.80 mg/kg	0.80 mg/kg	2.4 mg/kg	50 mg/kg
Matrix Spike % Recovery:	79	84	84	88	6.0
Matrix Spike Duplicate % Recovery:	80	85	86	88	6.0
Relative % Difference:	1.6	1.5	2.9	0.0	0.0
LCS Batch#:	4LCS091798	4LCS091798	4LCS091798	4LCS091798	LCS092198
Date Prepared:	9/17/98	9/17/98	9/17/98	9/17/98	9/21/98
Date Analyzed:	9/17/98	9/17/98	9/17/98	9/17/98	9/25/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-4
LCS % Recovery:	79	85	86	88	86
% Recovery Control Limits:	50-150	50-150	50-150	50-150	80-120

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

☐ 680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
☐ 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

Company Name: GETTLER-RYAN INC.	Project Name: FORMER TOSCO-76 #3538
Mailing Address: 6747 Sierra Ct., Suite J	Billing Address (if different): 9809283
City: DUBLIN State: CA Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY
Telephone: (925) 557-7555 FAX #: 551-7888	P.O. #: 411 W. MACARTHUR BLVD., OAKLAND, CA
Report To: HAIG KEVORK Sampler: HAIG KEVORK	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time:
☒ 10 Working Days ☐ 7 Working Days ☐ 5 Working Days ☐ 3 Working Days ☐ 2 Working Days ☐ 24 Hours ☐ 2 - 8 Hours

☐ Drinking Water ☐ Waste Water ☒ Other

Analyses Requested: TPH-G, BTEX, MTBE, Pb

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Comments
1. Comp A	9/14/98	SOIL	4	BRASS TUBE	8091306 AD	
2. Comp B			4		8091307	
3. Comp C			4		8091308	
4. Comp D			4		8091309	
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished By: [signature]	Date: 9/14/98	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: [signature]	Date: 9/14	Time: 1630

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

Pink - Client
Yellow - Sequoia
White - Sequoia