



TRANSMITTAL

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

DATE: October 20, 1998
PROJ. #: 140188.02-1
SUBJECT: Tank Removal Report
Former Tosco 76 Branded
Facility No. 11116
7197 Village Parkway
Dublin, California

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

*Need report of dewatering, GW
pumping, and sampling of soil + GW.*

11/20/98 ASLC B Natche for overex. rpt.

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	October 20, 1998	Underground Storage Tank and Product Piping Removal Report

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

COMMENTS

At the request of Tosco Marketing Company, We are sending one copy of the referenced report for your files. If you have any questions, please call me at (925) 551-7555

cc Ms Tina Berry, Tosco Marketing Company



GETTLER - RYAN Inc.

October 20, 1998

Ms. Tina Berry
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

Subject: Soil and Groundwater Sampling During Underground Storage Tank and Piping Removal and Oil/Water Separator Abandonment at Former Tosco BP Branded Facility No. 11116, 7197 Village Parkway, Dublin, California.

Dear Ms. Berry:

At the request of Tosco Marketing Company, Gettler-Ryan Inc. (GR) conducted a soil investigation during underground storage tank (UST) and piping removal activities performed by Fuller Excavating & Demolition, Inc. (Fuller) of Rancho Cordova, California at the subject site. Construction activities consisted of removing the gasoline and waste oil underground storage tanks (USTs) and all associated piping, and abandoning the oil/water separator. The purpose was to address compliance sampling requirements during removal of the former gasoline USTs, waste oil UST, the former product lines and the oil/water separator. The scope of work included: observing removal of the former USTs; collecting and analyzing soil and groundwater samples from the UST pit excavations, collecting and analyzing soil samples from the former product piping trench excavations, beneath the former oil/water separator, and the soil stockpiles; evaluating soil disposal options; and preparing a report documenting the work.

SITE DESCRIPTION

The subject site (formerly a service station that contained three gasoline USTs and one waste oil UST) is located on the southeast corner of the intersection of Village Parkway and Amador Valley Boulevard in Dublin, California (Figure 1). The site is currently vacant and fenced. It is GR's understanding that some groundwater monitoring wells have been installed, and are monitored and sampled by others. 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 and groundwater samples collected during this investigation were delivered under chain-of-custody to Sequoia Analytical Laboratory located in Walnut Creek, California (ELAP #1271). Analytical methods and results are summarized in Table 1. Copies of the laboratory analytical reports and chain-of-custody records are attached. Mr. Robert Weston of the Alameda County Department of Environmental Health (ACDEH) was present at the site to observe former UST removal and sample collection. Mr. Russell Reid of the Alameda County City of Dublin Fire Department was also present during UST removal operations.

140188 02

Gasoline and Waste Oil UST Removal and Soil Sampling

On July 28, 1998, one 10,000-gallon, one 8,000-gallon and one 6,000-gallon single-wall fiberglass unleaded gasoline USTs, and one 1,000-gallon double-wall fiberglass waste oil UST, 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 ECI of Richmond, California.

Limits of the former gasoline and waste oil UST pits are shown on Figure 2. The former gasoline and waste oil UST pit backfill material consisted of pea gravel. Native soil in the vicinity of the former gasoline and waste oil UST pits consisted primarily of sandy silt. Groundwater was encountered in the gasoline UST pit at a depth of approximately 10.0 feet below ground surface (bgs), and in the waste oil UST pit at a depth of approximately 9.0 feet bgs, thus prohibiting the collection of soil samples from beneath the USTs.

Following UST removal, one groundwater sample (Water-FT) was collected from the gasoline UST pit, and one groundwater sample (Water-WO) was collected from the waste oil UST pit. Four soil samples (SW1 through SW4) were collected from the sidewalls of the gasoline UST pit at depths of approximately 9.5 feet bgs. One soil sample, labeled WOSW1 (8), was collected from the west sidewall of the waste oil UST pit at a depth of approximately 8.0 feet bgs. All soil and groundwater samples from the former UST pits were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), total lead, and Methyl tert-butyl ether (MTBE). In addition, soil and water samples from the former waste oil UST pit were also analyzed for Total Petroleum Hydrocarbons as diesel (TPHd), Oil and Grease (O&G), Halogenated Volatile Organic Compounds (HVOCs), Semi-Volatile Organics (SVOCs), and the metals cadmium, chromium, nickel, and zinc.

All sidewall soil samples from the gasoline and waste oil UST pits were reported as non-detectable for all constituents analyzed, except for lead detected in sidewall soil samples from the gasoline UST pit at concentrations ranging between 5.2 ppm and 8.1 ppm, and chromium, nickel and zinc detected in the sidewall soil sample from the waste oil UST pit at concentrations of 33 ppm, 42 ppm and 38 ppm, respectively. The groundwater sample collected from the former waste oil UST pit was reported as non-detectable for TPHg, BTEX, HVOCs, SVOCs, and lead, with 0.120 ppm of MTBE. The groundwater sample collected from the former gasoline UST pit contained 10,000 ppb of TPHg, 450 ppb of benzene, 16,000 ppb of MTBE, and was non-detectable for lead.

Oil/Water Separator Abandonment and Soil Sampling

On July 30, 1998, the former concrete oil/water separator (located inside the station building) was abandoned by Fuller GR personnel collected one soil sample, labeled OWS (5 5), from beneath the former separator at a depth of approximately 5 5 feet bgs. A hand auger was used to remove soil from the bottom of the excavation. A hand-driven soil sampler, fitted with a brass sample tube, was used to collect the

sample. The soil beneath the former separator consisted of clayey silt. The sample location is shown on Figure 2.

Soil sample OWS (5.5) was analyzed for TPHg, BTEX, TPHd, MTBE, O&G, HVOCs, SVOCs, and the metals cadmium, chromium, lead, nickel, and zinc. The analytical results showed unidentified hydrocarbons >C8 reported by the laboratory as TPHg (260 ppm), unidentified hydrocarbons <C14 & >C16 reported by the laboratory as TPHd (470 ppm), and O&G (2,700 ppm). Benzene, toluene, ethylbenzene, and MTBE were not detected in this sample. Analytical methods and results are summarized in Table 1.

Product Line Removal and Soil Sampling

The product dispensers and 2-inch-diameter product lines were removed. On July 30, 1998, GR personnel collected five soil samples (P-1 through P-5) from the product piping trenches at depths of approximately 4.0 feet to 5.0 feet bgs. Product islands, product line trenches and sample locations are shown on Figure 2. Soil in the vicinity of the product line trenches and dispensers consisted of sandy silt and clayey sandy silt. The soil samples collected from the product piping trenches were analyzed for TPHg, BTEX, lead, and MTBE. All samples were reported as non-detectable for benzene. TPHg was detected in three samples, and ranged between 37 ppm and 130 ppm (reported by the laboratory as unidentified hydrocarbons C6-C12). MTBE was only detected in samples P-2 and P-3 at 0.053 ppm and 0.26 ppm, respectively.

On August 7, 1998, all former generations of 2-inch-diameter product lines were also removed by Fuller. GR personnel collected eight soil samples, labeled OP-1 through OP-8, from beneath the former product lines at depths ranging between 3.0 feet and 4.0 feet bgs. Former product line trenches and sample locations are also shown on the attached Figure 2. The soil samples collected from the former product piping trenches were analyzed for TPHg, BTEX, total lead, and MTBE. TPHg was detected in four samples, and ranged between 2.9 and 13 ppm, benzene was detected in five samples, and ranged between 0.0064 ppm and 0.36 ppm, and MTBE was detected in four samples, ranging between 0.0517 ppm and 0.26 ppm. Analytical methods and results are summarized in Table 1.

Stockpile Sampling

Soil generated during UST and piping removal activities was stockpiled at the site, sampled, and subsequently transported to Forward, Inc. disposal facility in Manteca, California. On July 30, 1998, two composite soil samples, labeled Comp A and Comp B, were collected from approximately 200 cubic yards of stockpiled soil generated from the gasoline UST pit. In addition, one composite soil sample, labeled Comp WO, was collected from approximately 70 cubic yards of stockpiled soil generated from the waste oil UST pit excavation. On August 7, 1998, one additional composite soil sample, labeled Comp C, was collected from approximately 70 cubic yards of stockpiled soil generated from the product piping trench excavations. All stockpile samples were collected from arbitrary locations on the stockpiled soil for disposal characterization.

All stockpile soil samples were analyzed for TPHg, BTEX, total lead, and MTBE. In addition, stockpile soil sample Comp WO was also analyzed for TPHd, O&G, HVOCs, SVOCs, and the metals cadmium, chromium, nickel, and zinc. The analytical results for all four stockpile soil samples were within limits acceptable to the landfill.

SOIL DISPOSAL

On September 11, 1998, Denbeste Transportation, Inc. of Windsor, California, removed the soil stockpiles from the site and transported a total of 436.11 tons of soil to the Forward, Inc. disposal facility in Manteca, California. Copies of the Forward Landfill acceptance documentation are attached.

DISCUSSION

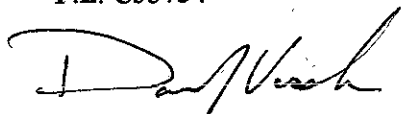
The overexcavation of soils from this site was performed by Alisto Engineering Group under the direction of Mr. Scott Hooton and BP Oil Company. All excavations were backfilled and compacted by Fuller under their contract with Tosco.

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

Sincerely,
Gettler-Ryan Inc.



Hagop Kevork
Staff Engineer
P.E. C55734



David J. Vossler
Project Manager

Attachments: Tables 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

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 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.

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 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.

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 then 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.

Table 1 - Chemical Analytical Data
Former Tosco BP Branded Facility No. 11116
7197 Village Parkway
Dublin, California

Sample ID	Date Collected	Sample Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-Benzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPHd (ppm)	LEAD (ppm)	HVOCs (ppm)	SVOCs (ppm)
<u>GASOLINE UST PIT EXCAVATION (SOIL)</u>												
SW1	7/28/98	9.5	ND	ND	ND	ND	ND	ND	NR	8.1	NR	NR
SW2	7/28/98	9.5	ND	ND	ND	ND	ND	ND	NR	5.2	NR	NR
SW3	7/28/98	9.5	ND	ND	ND	ND	ND	ND	NR	5.4	NR	NR
SW4	7/28/98	9.5	ND	ND	ND	ND	ND	ND	NR	5.7	NR	NR
<u>WASTE OIL UST PIT EXCAVATION (SOIL)</u>												
WOSW1 (8)	7/28/98	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>OIL/WATER SEPARATOR (SOIL)</u>												
OWS (5 5)	7/30/98	5.5	260 ²	ND	ND	ND	0.890	ND	470 ³	8.2	ND ⁴	ND ⁵
<u>PRODUCT PIPING TRENCHES (SOIL)</u>												
P-1	7/30/98	4.5	52 ⁶	ND	0.11	0.16	0.38	ND	NR	5.0	NR	NR
P-2	7/30/98	4.5	ND	ND	ND	ND	ND	0.053	NR	6.7	NR	NR
P-3	7/30/98	4.5	ND	ND	ND	ND	ND	0.26	NR	5.4	NR	NR
P-4	7/30/98	5.0	130 ⁶	ND	ND	0.57	0.26	ND	NR	9.4	NR	NR
P-5	7/30/98	4.0	37 ⁶	ND	0.14	ND	0.27	ND	NR	5.6	NR	NR
<u>FORMER PRODUCT PIPING TRENCHES (SOIL)</u>												
OP-1	8/7/98	4.0	ND	ND	ND	ND	ND	ND	NR	8.9	NR	NR
OP-2	8/7/98	3.0	ND	ND	ND	ND	ND	ND	NR	7.7	NR	NR
OP-3	8/7/98	3.5	ND	ND	ND	ND	ND	0.23	NR	7.5	NR	NR
OP-4	8/7/98	3.0	ND	0.0064	ND	ND	0.035	ND	NR	6.5	NR	NR
OP-5	8/7/98	3.5	6.3	0.18	0.027	0.064	0.13	0.1	NR	10	NR	NR
OP-6	8/7/98	3.5	2.9	0.064	0.017	0.055	0.15	ND	NR	7.9	NR	NR
OP-7	8/7/98	4.0	13	0.36	0.048	1.0	0.42	0.26	NR	550	NR	NR
OP-8	8/7/98	3.0	3.6	0.030	0.013	0.11	0.068	0.0517	NR	6.6	NR	NR

Table 1 - Chemical Analytical Data
 Former Tosco BP Branded Facility No. 11116
 7197 Village Parkway
 Dublin, California

Sample ID	Date Collected	Sample Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-Benzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPHd (ppm)	LEAD (ppm)	HVOCs (ppm)	SVOCs (ppm)
<u>WASTE OIL UST PIT STOCKPILE</u>												
Comp WO	7/30/98	NA	ND	ND	ND	ND	ND	ND	ND	5.6	ND	ND
<u>GASOLINE UST PIT STOCKPILE</u>												
Comp A	7/30/98	NA	ND	ND	0.012	ND	0.024	ND	NR	5.5	NR	NR
Comp B	7/30/98	NA	ND	ND	0.0072	ND	0.015	ND	NR	4.1	NR	NR
<u>PRODUCT LINE STOCKPILE</u>												
Comp C	8/7/98	NA	1.0 ⁷	ND	0.0075	ND	0.24	ND	NR	8.8	NR	NR
<hr/>												
Sample ID	Date Collected	Sample Depth (feet)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)	TPHd (ppb)	LEAD (ppm)	HVOCs (ppb)	SVOCs (ppb)
<u>GASOLINE UST PIT EXCAVATION (WATER)</u>												
Water-FI	7/28/98	NA	10,000	450	2,000	210	1,300	16,000	NR	ND	NR	NR
<u>WASTE OIL UST PIT EXCAVATION (WATER)</u>												
Water-WO	7/28/98	NA	ND	ND	ND	ND	ND	120	270 ¹	ND	ND	ND
<hr/>												
Sample ID	Date Collected	Sample Depth (feet)	O&G (ppm)	Chromium (ppm)	Nickel (ppm)	Zinc (ppm)	Cadmium (ppm)					
WOSW1 (8)	7/28/98	8.0	ND	33	42	38	ND					
Water-WO	7/28/98	NA	8.7	0.12	0.20	0.14	ND					
OWS (5.5)	7/30/98	5.5	2,700	ND	ND	1.5	ND					
Comp WO	7/30/98	NA	ND	6.8	41	28	ND					

Table 1 - Chemical Analytical Data
Former Tosco BP Branded Facility No. 11116
7197 Village Parkway
Dublin, California

EXPLANATION:

ND - none detected
NA - not applicable
ppm - parts per million
ppb - parts per billion
NR - analysis not requested
MTBE - methyl tert-butyl ether

ANALYTICAL LABORATORY:

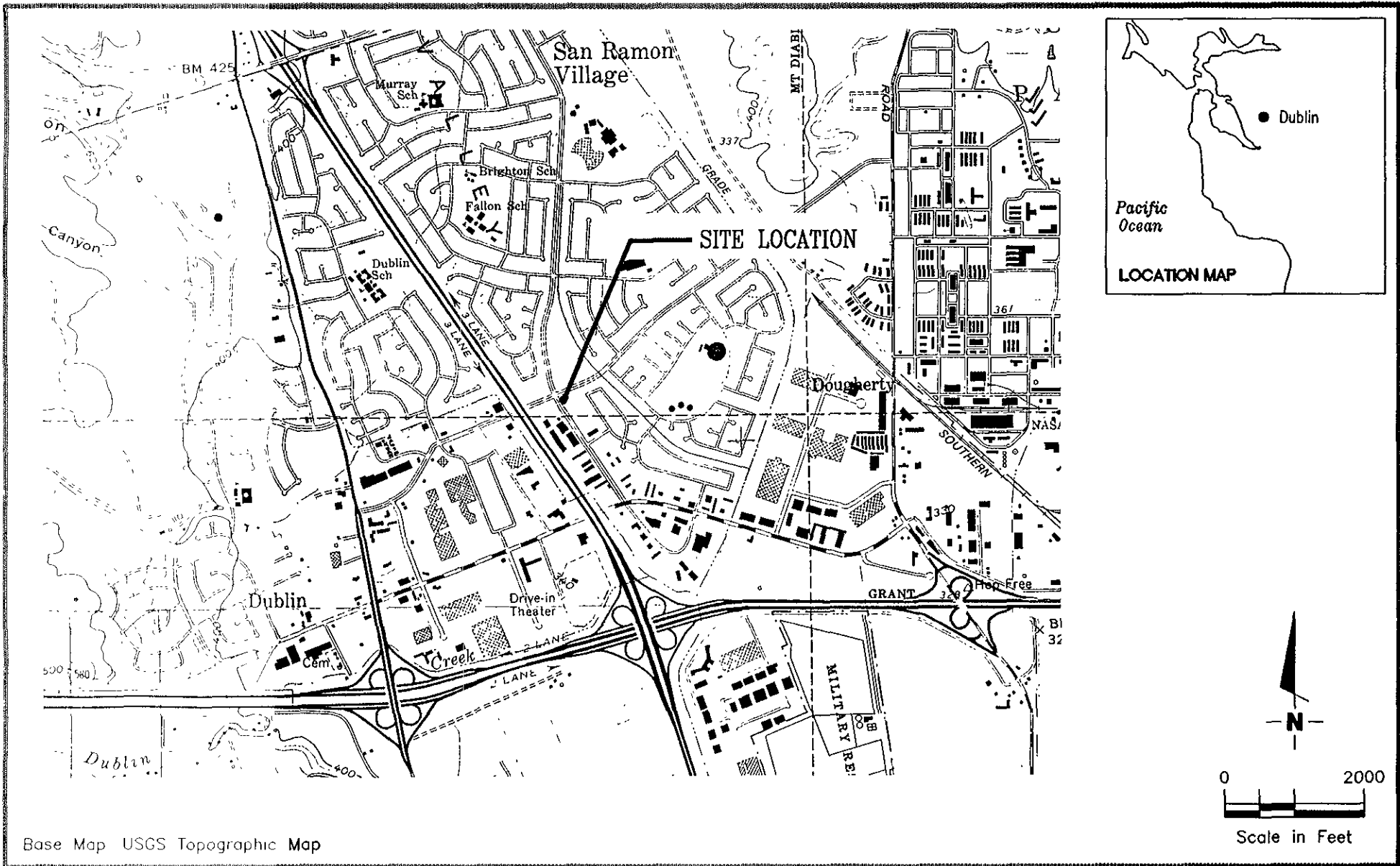
Sequoia Analytical (ELAP # 1271)

NOTES:

- ¹ Laboratory reports indicates **unidentified hydrocarbons >C18**
- ² Laboratory reports indicates **unidentified hydrocarbons >C8**
- ³ Laboratory reports indicates **unidentified hydrocarbons <C14 & >C16**
- ⁴ None of the analytes detected **except chlorobenzene (0.270 ppm), 1,2-dichlorobenzene (1.600 ppm), 1,3-dichlorobenzene (0.032 ppm), and 1,4-dichlorobenzene (0.120 ppm).**
- ⁵ None of the analytes detected **except for 2-methylnaphthalene (0.270 ppm) and naphthalene (0.160 ppm).**
- ⁶ Laboratory reports indicates **gasoline and unidentified hydrocarbons >C8**
- ⁷ Laboratory reports indicates **unidentified hydrocarbons C6-C12**

ANALYTICAL METHODS:

TPH_g - Total Petroleum Hydrocarbons as gasoline according to EPA Method 8015 Modified.
TPH_d - Total Petroleum Hydrocarbons as diesel according to EPA Method 8015 Modified.
TPH_{hf} - Total Petroleum Hydrocarbons as hydraulic fluid according to EPA Method 8015 Modified
O&G - Total recoverable petroleum oil according to Standard Methods 5520 E&F(Gravimetric).
HVOCS - Halogenated volatile organic compounds according to EPA Method 8010.
SVOCs - Semi-volatile organic compounds according to EPA Method 8270.
Metals - EPA Method 6010



Base Map USGS Topographic Map



Gettler - Ryan Inc.

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

VICINITY MAP

Former Tosco BP Branded Facility #11116
7197 Village Parkway
Dublin, California

DATE
September, 1998

REVISED DATE

FIGURE

1

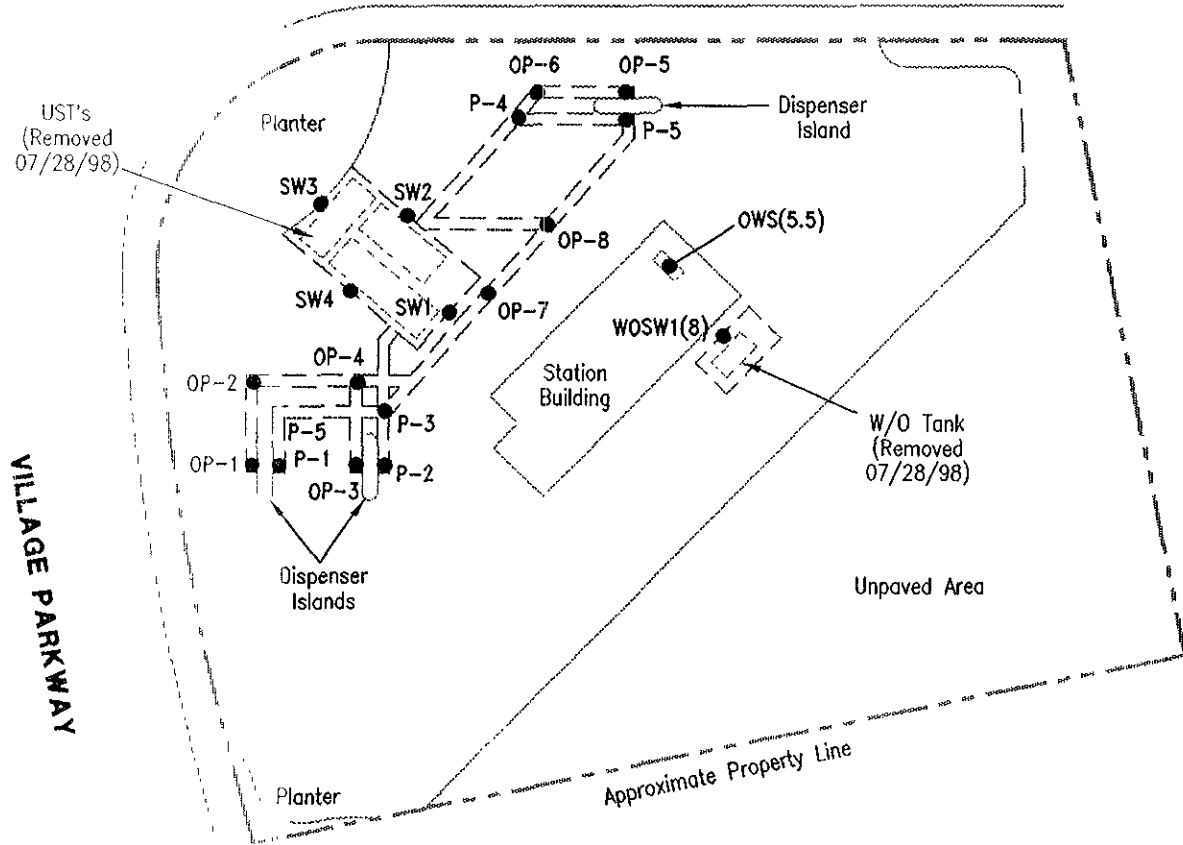
JOB NUMBER
140188

REVIEWED BY

AMADOR VALLEY BOULEVARD

EXPLANATION

- Soil sample location
- Trench/excavation
- OP Former product line sample



Gettler - Ryan Inc.

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

SOIL SAMPLE LOCATION MAP
Former Tosco BP Branded Facility #11116
7197 Village Parkway
Dublin, California

FIGURE
2

JOB NUMBER
140188.02

REVIEWED BY

DATE
September, 1998

REVISED DATE



FORWARD
INCORPORATED

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

August 20, 1998

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

Attn: Doug Lee

Re: Approval No. 737422
Soil from UG Tank pit and piping trench excavation
Tosco-BP #11116-7197 Village Pkw, Dublin, CA

Dear Mr. Lee:

FORWARD INC. is pleased to inform you that the approximately 280 tons of Soil from UG Tank pit and piping trench excavation 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 737422. 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, 1998, 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 J. Bonner
Sales Manager

BJB sr

RECEIVED

SEP 17 1998

GETTLER-RYAN, INC.
GENERAL CONTRACTOR



Date 09/11/98
Time 15:50:39

FORWARD, INC.

Page

MATERIAL ANALYSIS REPORT BY ACCOUNT

For the period / / - 09/11/98
Detailed report for sites 00 - 99

Accounts 737422 - 737422 Customer Types - Z Materials - ~~737422737422~~ Material Types - Z

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	
09/11/98	COV CII T	Q	737422	B	02-042185	0	18	18	22.47	22.47	
09/11/98	COV CII T	Q	737422	B	02-042186	0	18	18	22.78	22.78	
09/11/98	COV CII T	Q	737422	B	02-042187	0	18	18	26.23	26.23	
09/11/98	COV CII T	Q	737422	B	02-042188	0	18	18	18.53	18.53	
09/11/98	COV CII T	Q	737422	B	02-042189	0	18	18	19.89	19.89	
09/11/98	COV CII T	Q	737422	B	02-042190	0	18	18	20.40	20.40	
09/11/98	COV CII T	Q	737422	B	02-042191	0	18	18	24.35	24.35	
09/11/98	COV CII T	Q	737422	B	02-042192	0	18	18	20.40	20.40	
09/11/98	COV CII T	Q	737422	B	02-042194	0	18	18	18.34	18.34	
09/11/98	COV CII T	Q	737422	B	02-042195	0	18	18	18.15	18.15	
09/11/98	COV CII T	Q	737422	B	02-042196	0	18	18	21.50	21.50	
09/11/98	COV CII T	Q	737422	B	02-042197	0	18	18	22.41	22.41	
09/11/98	COV CII T	Q	737422	B	02-042198	0	18	18	21.33	21.33	
09/11/98	COV CII T	Q	737422	B	02-042199	0	18	18	24.41	24.41	
09/11/98	COV CII T	Q	737422	B	02-042200	0	18	18	24.17	24.17	
09/11/98	COV CII T	Q	737422	B	02-042205	0	18	18	23.26	23.26	
TUSCO MARKETING (T.BERRY)						16	0	288	288	348.62	348.62
Average							0	18	18	22.00	22.00
Report Total						16	0	288	288	348.62	348.62
Report Average							0	18	18	22.00	22.00



FORWARD
INCORPORATED

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

August 20, 1998

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

Attn: Doug Lee

Re: Approval No. 737522
Soil from UG Waste Oil Tank pit excavation
Tosco-BP#11116-7197 Village Pkwy, Dublin, CA

RECEIVED

SEP 11 1998

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Dear Mr. Lee:

FORWARD INC. is pleased to inform you that the approximately 90 tons of Soil from UG Waste Oil Tank pit excavation from the referenced site has been approved for acceptance at our Manteca, California Landfill as a 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 737522. 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, 1998, 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 J. Bonner
Sales Manager

BJB:xh



Date 09/11/98
Time 15:52:37

FORWARD, INC.

Pa

MATERIAL ANALYSIS REPORT BY ACCOUNT

For the period / / - 09/11/98
Detailed report for sites 00 - 99

Accounts 737522 - 737522 Customer Types - 2 Materials - ~~XXXXXXXXXX~~ Material Types - 2

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	
09/11/98	COV CII T	Q	737522	B	02-042201	0	18	18	20.80	20.80	
09/11/98	COV CII T	Q	737522	B	02-042202	0	18	18	28.80	28.80	
09/11/98	COV CII T	Q	737522	B	02-042203	0	18	18	16.29	16.29	
09/11/98	COV CII T	Q	737522	B	02-042204	0	18	18	21.60	21.60	
TOSCO MARKETING (T.BERRY)						4	0	72	72	87.49	87.49
Average							0	18	18	22.00	22.00
Report Total						4	0	72	72	87.49	87.49
Report Average							0	18	18	22.00	22.00



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 807-1995

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Reported: Aug 17, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 807-1995 SW1	Sample I.D. 807-1996 SW2	Sample I.D. 807-1997 SW3	Sample I.D. 807-1998 SW4	Sample I.D. 807-2000 WOSW1(8)
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.
MTBE	0.050	N.D.	N.D.	N.D.	N.D.	N.D.

Chromatogram Pattern: -- -- -- -- --

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	92	94	93	87	91

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (916) 921-0100
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco BP #11116, Dublin
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 807-1999

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Reported: Aug 17, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 807-1999 Water-FT	Sample I.D. 807-2001 Water-WO
Purgeable Hydrocarbons	50	10,000	N.D.
Benzene	0.50	450	N.D.
Toluene	0.50	2,000	N.D.
Ethyl Benzene	0.50	210	N.D.
Total Xylenes	0.50	1,300	N.D.
MTBE	2.5	16,000	120
Chromatogram Pattern:		Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	50	1.0
Date Analyzed:	8/6/98	8/5/98
Instrument Identification:	HP-2	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	98	98

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



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680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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

Client Project ID: Tosco BP #11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 807-2000

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Reported: Aug 17, 1998

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 807-2000 WOSW1(8)
Extractable Hydrocarbons	1.0	N.D.

Chromatogram Pattern: --

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	8/11/98
Date Analyzed:	8/12/98
Instrument Identification:	HP-3A

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 807-2001

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Reported: Aug 17, 1998

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 807-2001 Water-WO
Extractable Hydrocarbons	50	270

Chromatogram Pattern: Unidentified Hydrocarbons >C18

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	7/31/98
Date Analyzed:	8/3/98
Instrument Identification:	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
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(707) 792-1865

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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Matrix Descript: Soil
Analysis Method: SM 5520 E&F (Gravimetric)
First Sample #: 807-2000

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Extracted: Jul 30, 1998
Analyzed: Jul 31, 1998
Reported: Aug 17, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
807-2000	WOSW1(8)	N.D.	1.0

Detection Limits:

50

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Matrix Descript: Water
Analysis Method: SM 5520 B&F (Gravimetric)
First Sample #: 807-2001

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Extracted: Aug 6, 1998
Analyzed: Aug 6, 1998
Reported: Aug 17, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/L (ppm)	Detection Limit Multiplication Factor
807-2001	Water-WO	8.7	1.0

Detection Limits:

5.0

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Soil, WOSW1(8)
Analysis Method: EPA 5030/8010
Lab Number: 807-2000

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Analyzed: Jul 31, 1998
Reported: Aug 17, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	10	N.D.
Bromoform.....	10	N.D.
Bromomethane.....	20	N.D.
Carbon tetrachloride.....	10	N.D.
Chlorobenzene.....	10	N.D.
Chloroethane.....	20	N.D.
Chloroform.....	10	N.D.
Chloromethane.....	20	N.D.
Dibromochloromethane.....	10	N.D.
1,2-Dichlorobenzene.....	10	N.D.
1,3-Dichlorobenzene.....	10	N.D.
1,4-Dichlorobenzene.....	10	N.D.
1,1-Dichloroethane.....	10	N.D.
1,2-Dichloroethane.....	10	N.D.
1,1-Dichloroethene.....	10	N.D.
cis-1,2-Dichloroethene.....	10	N.D.
trans-1,2-Dichloroethene.....	10	N.D.
1,2-Dichloropropane.....	10	N.D.
cis-1,3-Dichloropropene.....	10	N.D.
trans-1,3-Dichloropropene.....	10	N.D.
Methylene chloride.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	10	N.D.
Tetrachloroethene.....	10	N.D.
1,1,1-Trichloroethane.....	10	N.D.
1,1,2-Trichloroethane.....	10	N.D.
Trichloroethene.....	10	N.D.
Trichlorofluoromethane.....	10	N.D.
Vinyl chloride.....	20	N.D.
Surrogates	Control Limit %	% Recovery
Dibromodifluoromethane.....	50	150
4-Bromofluorobenzene.....	50	150

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Water, Water-WO
Analysis Method: EPA 5030/8010
Lab Number: 807-2001

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Analyzed: Aug 4, 1998
Reported: Aug 17, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L	
Bromodichloromethane.....	0.50	N.D.	
Bromoform.....	0.50	N.D.	
Bromomethane.....	1.0	N.D.	
Carbon tetrachloride.....	0.50	N.D.	
Chlorobenzene.....	0.50	N.D.	
Chloroethane.....	1.0	N.D.	
Chloroform.....	0.50	N.D.	
Chloromethane.....	1.0	N.D.	
Dibromochloromethane.....	0.50	N.D.	
1,3-Dichlorobenzene.....	0.50	N.D.	
1,4-Dichlorobenzene.....	0.50	N.D.	
1,2-Dichlorobenzene.....	0.50	N.D.	
1,1-Dichloroethane.....	0.50	N.D.	
1,2-Dichloroethane.....	0.50	N.D.	
1,1-Dichloroethene.....	0.50	N.D.	
cis-1,2-Dichloroethene.....	0.50	N.D.	
trans-1,2-Dichloroethene.....	0.50	N.D.	
1,2-Dichloropropane.....	0.50	N.D.	
cis-1,3-Dichloropropene.....	0.50	N.D.	
trans-1,3-Dichloropropene.....	0.50	N.D.	
Methylene chloride.....	5.0	N.D.	
1,1,2,2-Tetrachloroethane.....	0.50	N.D.	
Tetrachloroethene.....	0.50	N.D.	
1,1,1-Trichloroethane.....	0.50	N.D.	
1,1,2-Trichloroethane.....	0.50	N.D.	
Trichloroethene.....	0.50	N.D.	
Trichlorofluoromethane.....	0.50	N.D.	
Vinyl chloride.....	1.0	N.D.	
Surrogates	Control Limit %	% Recovery	
Dibromodifluoromethane.....	50	150.....	88
4-Bromofluorobenzene.....	50	150.....	107

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Soil, WOSW1(8)
Analysis Method: EPA 8270
Lab Number: 807-2000

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Extracted: Jul 30, 1998
Analyzed: Jul 30, 1998
Reported: Aug 17, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzidine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.



Sequoia Analytical

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404 N. Wiget Lane
819 Striker Avenue, Suite 8
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Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
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(916) 921-9600
(707) 792-1865

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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Soil, WOSW1(8)
Analysis Method: EPA 8270
Lab Number: 807-2000

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Extracted: Jul 30, 1998
Analyzed: Jul 30, 1998
Reported: Aug 17, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	100	N.D.
Fluorene.....	100	N.D.
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
Isophorone.....	100	N.D.
2-Methylnaphthalene.....	100	N.D.
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	N.D.
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodimethylamine.....	100	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
Phenanthrene.....	100	N.D.
Phenol.....	100	N.D.
Pyrene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.

Surrogates	Control Limit %	% Recovery
2-Fluorophenol.....	25	121
Phenol-d6.....	24	113
Nitrobenzene-d5.....	23	120
2-Fluorobiphenyl.....	30	115
2,4,6-Tribromophenol.....	19	122
4-Terphenyl-d14.....	18	137

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (707) 792-0342

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

Client Project ID: Tosco BP #111116, Dublin
Sample Descript: Water, Water-WO
Analysis Method: EPA 8270
Lab Number: 807-2001

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Extracted: Jul 30, 1998
Analyzed: Jul 31, 1998
Reported: Aug 17, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene.....	10	N.D.
Acenaphthylene.....	10	N.D.
Aniline.....	10	N.D.
Anthracene.....	10	N.D.
Benzidine.....	10	N.D.
Benzoic Acid.....	20	N.D.
Benzo(a)anthracene.....	10	N.D.
Benzo(b)fluoranthene.....	10	N.D.
Benzo(k)fluoranthene.....	10	N.D.
Benzo(g,h,i)perylene.....	10	N.D.
Benzo(a)pyrene.....	10	N.D.
Benzyl alcohol.....	10	N.D.
Bis(2-chloroethoxy)methane.....	10	N.D.
Bis(2-chloroethyl)ether.....	10	N.D.
Bis(2-chloroisopropyl)ether.....	10	N.D.
Bis(2-ethylhexyl)phthalate.....	20	N.D.
4-Bromophenyl phenyl ether.....	10	N.D.
Butyl benzyl phthalate.....	10	N.D.
4-Chloroaniline.....	20	N.D.
2-Chloronaphthalene.....	10	N.D.
4-Chloro-3-methylphenol.....	10	N.D.
2-Chlorophenol.....	10	N.D.
4-Chlorophenyl phenyl ether.....	10	N.D.
Chrysene.....	10	N.D.
Dibenz(a,h)anthracene.....	10	N.D.
Dibenzofuran.....	10	N.D.
Di-N-butyl phthalate.....	20	N.D.
1,3-Dichlorobenzene.....	10	N.D.
1,4-Dichlorobenzene.....	10	N.D.
1,2-Dichlorobenzene.....	10	N.D.
3,3-Dichlorobenzidine.....	20	N.D.
2,4-Dichlorophenol.....	10	N.D.
Diethyl phthalate.....	10	N.D.
2,4-Dimethylphenol.....	10	N.D.
Dimethyl phthalate.....	10	N.D.
4,6-Dinitro-2-methylphenol.....	20	N.D.
2,4-Dinitrophenol.....	20	N.D.
2,4-Dinitrotoluene.....	10	N.D.
2,6-Dinitrotoluene.....	10	N.D.
Di-N-octyl phthalate.....	10	N.D.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Water, Water-WO
Analysis Method: EPA 8270
Lab Number: 807-2001

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Extracted: Jul 30, 1998
Analyzed: Jul 31, 1998
Reported: Aug 17, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Fluoranthene.....	10	N.D.
Fluorene.....	10	N.D.
Hexachlorobenzene.....	10	N.D.
Hexachlorobutadiene.....	10	N.D.
Hexachlorocyclopentadiene.....	20	N.D.
Hexachloroethane.....	10	N.D.
Indeno(1,2,3-cd)pyrene.....	10	N.D.
Isophorone.....	10	N.D.
2-Methylnaphthalene.....	10	N.D.
2-Methylphenol.....	10	N.D.
4-Methylphenol.....	10	N.D.
Naphthalene.....	10	N.D.
2-Nitroaniline.....	20	N.D.
3-Nitroaniline.....	20	N.D.
4-Nitroaniline.....	20	N.D.
Nitrobenzene.....	10	N.D.
2-Nitrophenol.....	10	N.D.
4-Nitrophenol.....	20	N.D.
N-Nitrosodimethylamine.....	10	N.D.
N-Nitrosodiphenylamine.....	10	N.D.
N-Nitroso-di-N-propylamine.....	10	N.D.
Pentachlorophenol.....	20	N.D.
Phenanthrene.....	10	N.D.
Phenol.....	10	N.D.
Pyrene.....	10	N.D.
1,2,4-Trichlorobenzene.....	10	N.D.
2,4,5-Trichlorophenol.....	20	N.D.
2,4,6-Trichlorophenol.....	10	N.D.

Surrogates	Control Limit %	% Recovery	
2-Fluorophenol.....	21	100.....	55
Phenol-d6.....	10	94.....	50
Nitrobenzene-d5.....	35	114.....	72
2-Fluorobiphenyl.....	43	116.....	76
2,4,6-Tribromophenol	10	123	87
4-Terphenyl-d14	33	141	95

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
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FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Soil
Analysis for: Lead
First Sample #: 807-1995

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Digested: Aug 7, 1998
Analyzed: Aug 10, 1998
Reported: Aug 17, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
807-1995	SW1	1.0	8.1
807-1996	SW2	1.0	5.2
807-1997	SW3	1.0	5.4
807-1998	SW4	1.0	5.7

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

SEQUOIA ANALYTICAL, #1271

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Project Manager



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404 N. Wiget Lane
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Redwood City, CA 94063
Walnut Creek, CA 94598
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Water
Analysis for: Lead
First Sample #: 807-1999

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Digested: Aug 7, 1998
Analyzed: Aug 10, 1998
Reported: Aug 17, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
807-1999	Water-FT	0.020	N.D.

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

SEQUOIA ANALYTICAL. #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600 FAX (650) 364-9233
(925) 988-9600 FAX (925) 988-9673
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(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 BP #11116, Dublin
Sample Descript: Soil, WOSW1(8)
Lab Number: 807-2000

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Digested: Aug 7, 1998
Analyzed: Aug 10, 1998
Reported: Aug 17, 1998

LUFT METALS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	33
Lead.....	1.0	N.D.
Nickel.....	1.0	42
Zinc.....	1.0	38

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
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Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
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1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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(925) 988-9600
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(707) 792-1865

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Water, Water-WO
Lab Number: 807-2001

Sampled: Jul 28, 1998
Received: Jul 28, 1998
Digested: Aug 7, 1998
Analyzed: Aug 10, 1998
Reported: Aug 17, 1998

LUFT METALS

Analyte	Detection Limit mg/L	Sample Results mg/L
Cadmium.....	0.010	N.D.
Chromium.....	0.010	0.12
Lead.....	0.020	N.D.
Nickel.....	0.020	0.20
Zinc.....	0.020	0.14

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

SEQUOIA ANALYTICAL, #1271

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Project Manager



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680 Chesapeake Drive
404 N. Wiget Lane
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco BP #11116, Dublin
Matrix: Solid

QC Sample Group: 8071995-000

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	K. Grubb	L. Diaz

MS/MSD

Batch#:	8071995	8071995	8071995	8071995	BLK081198B	8071778
Date Prepared:	8/10/98	8/10/98	8/10/98	8/10/98	8/11/98	7/28/98
Date Analyzed:	8/10/98	8/10/98	8/10/98	8/10/98	8/12/98	7/28/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	Manual
Conc. Spiked:	0.80 mg/kg	0.80 mg/kg	0.80 mg/kg	2.4 mg/kg	15 mg/kg	5000 mg/kg
Matrix Spike % Recovery:	86	89	91	92	63	104
Matrix Spike Duplicate % Recovery:	89	93	94	100	80	100
Relative % Difference:	2.9	4.1	2.7	8.7	24	2.6

LCS Batch#:	4LCS081098	4LCS081098	4LCS081098	4LCS081098	-	LCS073098
Date Prepared:	8/10/98	8/10/98	8/10/98	8/10/98	-	7/30/98
Date Analyzed:	8/10/98	8/10/98	8/10/98	8/10/98	-	7/31/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	-	Manual
LCS % Recovery:	124	125	125	129	-	104

% Recovery						
Control Limits:	50-150	50-150	50-150	50-150	60-140	60-140

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, #1271

Julianne Fegley
Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Liquid

QC Sample Group: 8071999-001

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	-	L. Diaz

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
Batch#:	8072008	8072008	8072008	8072008	BLK073198	BLK080698B
Date Prepared:	8/5/98	8/5/98	8/5/98	8/5/98	7/31/98	8/6/98
Date Analyzed:	8/5/98	8/5/98	8/5/98	8/5/98	8/3/98	8/6/98
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	GCHP-3A	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L	100 mg/L
Matrix Spike % Recovery:	90	90	90	93	90	97
Matrix Spike Duplicate % Recovery:	95	95	90	95	92	96
Relative % Difference:	5.4	5.4	0.0	1.8	2.2	1.0

LCS Batch#:	2LCS080598	2LCS080598	2LCS080598	2LCS080598	LCS073198	LCS080698B
Date Prepared:	8/5/98	8/5/98	8/5/98	8/5/98	7/31/98	8/6/98
Date Analyzed:	8/5/98	8/5/98	8/5/98	8/5/98	8/3/98	8/6/98
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	Manual
LCS % Recovery:	100	100	105	102	90	96

% Recovery Control Limits:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
	70-130	70-130	70-130	70-130	60-160	60-140

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, #1271

Juianne Fegley
Juianne Fegley
Project Manager



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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Liquid

QC Sample Group: 8071999-001

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb

MS/MSD Batch#:	8072219	8072219	8072219	8072219
Date Prepared:	8/6/98	8/6/98	8/6/98	8/6/98
Date Analyzed:	8/6/98	8/6/98	8/6/98	8/6/98
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	120	115	100	108
Matrix Spike Duplicate % Recovery:	100	95	85	92
Relative % Difference:	18	19	16	17

LCS Batch#:	2LCS080698	2LCS080698	2LCS080698	2LCS080698
Date Prepared:	8/6/98	8/6/98	8/6/98	8/6/98
Date Analyzed:	8/6/98	8/6/98	8/6/98	8/6/98
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	90	90	95	92

% Recovery Control Limits:	70-130	70-130	70-130	70-130
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Please Note
The LCS is a control sample of known intererent 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, #1271
Julianne Fegley
Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Solid

QC Sample Group: 8071995-000

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Copper	Nickel	Lead	Zinc	Lead
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly

MS/MSD Batch#:	8071995	8071995	8071995	8071995	8071995	8071995	8071995
Date Prepared:	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98
Date Analyzed:	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4	MV-4	MV-3
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg
Matrix Spike % Recovery:	98	92	94	94	93	78	94
Matrix Spike Duplicate % Recovery:	100	90	90	90	91	70	94
Relative % Difference:	2.0	1.6	3.2	2.6	2.0	5.3	0.0

LCS Batch#:	LCS080798	LCS080798	LCS080798	LCS080798	LCS080798	LCS080798	LCS080798
Date Prepared:	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98
Date Analyzed:	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4	MV-4	MV-3
LCS % Recovery:	102	102	102	104	98	98	106

% Recovery Control Limits:	80-120	80-120	80-120	80-120	80-120	80-120	80-120
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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, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Liquid

QC Sample Group: 8071995-000

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Copper	Lead	Nickel	Zinc
Method:	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly

MS/MSD	Cadmium	Chromium	Copper	Lead	Nickel	Zinc
Batch#:	8072001	8072001	8072001	8072001	8072001	8072001
Date Prepared:	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98
Date Analyzed:	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4	MV-4
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Matrix Spike % Recovery:	99	98	103	94	90	96
Matrix Spike Duplicate % Recovery:	110	108	113	100	100	106
Relative % Difference:	11	8.7	8.7	6.2	8.7	8.7

LCS Batch#:	LCS080798	LCS080798	LCS080798	LCS080798	LCS080798	LCS080798
Date Prepared:	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98	8/7/98
Date Analyzed:	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98	8/10/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4	MV-4
LCS % Recovery:	100	100	100	100	100	100

% Recovery	Cadmium	Chromium	Copper	Lead	Nickel	Zinc
Control Limits:	80-120	80-120	80-120	80-120	80-120	80-120

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, #1271

Julianne Fegley
Julianne Fegley
Project Manager



Sequoia Analytical

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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Solid

QC Sample Group: 8071995-000

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010
Analyst:	N. Nelson	N. Nelson	N. Nelson	N. Nelson	N. Nelson	N. Nelson

MS/MSD	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Batch#:	8071779	8071779	8071779	-	-	-
Date Prepared:	7/28/98	7/28/98	7/28/98	-	-	-
Date Analyzed:	7/28/98	7/28/98	7/28/98	-	-	-
Instrument I.D.#:	HP-7	HP-7	HP-7	-	-	-
Conc. Spiked:	200 µg/kg	200 µg/kg	200 µg/kg	-	-	-
Matrix Spike % Recovery:	95	100	90	-	-	-
Matrix Spike Duplicate % Recovery:	85	90	80	-	-	-
Relative % Difference:	11	11	12	-	-	-

LCS Batch#:	LCS072898	LCS072898	LCS072898	LCS073098	LCS073098	LCS073098
Date Prepared:	7/28/98	7/28/98	7/28/98	7/30/98	7/30/98	7/30/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
LCS % Recovery:	95	100	85	95	95	90

% Recovery	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Control Limits:	65-135	70-130	70-130	65-135	70-130	70-130

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, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Liquid

QC Sample Group: 8071995-000

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	P. Kosovskaya	P. Kosovskaya	P. Kosovskaya

MS/MSD

Batch#:	8072029	8072029	8072029
Date Prepared:	8/4/98	8/4/98	8/4/98
Date Analyzed:	8/4/98	8/4/98	8/4/98
Instrument I.D.#:	HP-7	HP-7	HP-7
Conc. Spiked:	20 µg/kg	20 µg/kg	20 µg/kg
Matrix Spike % Recovery:	95	88	85
Matrix Spike Duplicate % Recovery:	95	94	90
Relative % Difference:	0.0	4.6	5.7

LCS Batch#:	LCS080498	LCS080498	LCS080498
Date Prepared:	8/4/98	8/4/98	8/4/98
Date Analyzed:	8/4/98	8/4/98	8/4/98
Instrument I.D.#:	HP-7	HP-7	HP-7
LCS % Recovery:	100	105	95

% Recovery Control Limits:			
	65-135	70-130	70-130

Please Note

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SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Solid

QC Sample Group: 8071995-000

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro- benzene	N-Nitroso-Di- N-propylamine	1,2,4-Trichloro- benzene	4-Chloro-3- Methylphenol
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD Batch#:	8071970	8071970	8071970	8071970	8071970	8071970
Date Prepared:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Date Analyzed:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	3300 µg/kg	3300 µg/kg	3300 µg/kg	5000 µg/kg

Matrix Spike % Recovery:	72	78	76	91	85	88
Matrix Spike Duplicate % Recovery:	68	72	70	85	79	80
Relative % Difference:	5.7	8.0	8.3	6.9	7.4	9.5
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	BLK073098	BLK073098	BLK073098	BLK073098	BLK073098	BLK073098
Date Prepared:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Date Analyzed:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	72	78	64	94	85	84

% Recovery Control Limits:	26-90	25-102	28-104	41-126	38-107	26-103
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SEQUOIA ANALYTICAL, #1271

Julianne Fegley

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.



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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Solid

QC Sample Group: 8071995-000

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Batch#:	8071970	8071970	8071970	8071970	8071970
Date Prepared:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Date Analyzed:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	3300 µg/kg	5000 µg/kg	3300 µg/kg	5000 µg/kg	3300 µg/kg

Matrix Spike % Recovery:	85	78	82	98	94
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Matrix Spike Duplicate % Recovery:	79	72	76	90	82
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Relative % Difference:	7.4	8.0	7.7	8.5	14
RPD Limit:	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	BLK073098	BLK073098	BLK073098	BLK073098	BLK073098
Date Prepared:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Date Analyzed:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	85	76	79	82	97

% Recovery	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Control Limits:	31-137	11-114	28-89	17-109	35-142

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SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Liquid

QC Sample Group: 8071999-001

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510	EPA 3510	EPA 3510
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD

Batch#:	BLK073098C	BLK073098C	BLK073098C	BLK073098C	BLK073098C	BLK073098C
Date Prepared:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Date Analyzed:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	150 µg/L	150 µg/L	100 µg/L	100 µg/L	100 µg/L	150 µg/L

Matrix Spike

% Recovery: 24 53 50 73 58 67

Matrix Spike Duplicate % Recovery:

25 57 55 72 62 67

Relative % Difference:

5.4 8.5 9.5 1.4 6.7 0.0

RPD Limit:

0-30 0-30 0-30 0-30 0-30 0-30

LCS Batch#:

- - - - -

Date Prepared:

- - - - -

Date Analyzed:

- - - - -

Instrument I.D.#:

- - - - -

LCS % Recovery:

- - - - -

% Recovery

Control Limits: 12-110 27-123 36-97 41-116 39-98 23-97

SEQUOIA ANALYTICAL. #1271

Julianne Fegley

Julianne Fegley
Project Manager

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680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
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Sacramento, CA 95834
Petaluma, CA 94954

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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Liquid

QC Sample Group: 8071999-001

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510	EPA 3510
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Batch#:	BLK073098C	BLK073098C	BLK073098C	BLK073098C	BLK073098C
Date Prepared:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Date Analyzed:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	100 µg/L	150 µg/L	100 µg/L	150 µg/L	100 µg/L

Matrix Spike % Recovery:	72	33	74	93	87
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Matrix Spike Duplicate % Recovery:	73	29	73	93	91
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Relative % Difference:	1.4	11	1.4	0.0	4.5
RPD Limit:	0-30	0-30	0-30	0-30	0-30

LCS Batch#:	-	-	-	-	-
Date Prepared:	-	-	-	-	-
Date Analyzed:	-	-	-	-	-
Instrument I.D.#:	-	-	-	-	-
LCS % Recovery:	-	-	-	-	-

% Recovery	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Control Limits:	46-118	10-80	24-96	9-103	26-127

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SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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: TOSCO (FORMER BP) NO. 1116		
Address: 6747 Sierra Ct, Suite J			Billing Address (if different): 9807484		
City: DUBLIN	State: CA	Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY		
Telephone: (925) 551-7555 FAX #: 551-7888			P.O. #: 7197 VILLAGE PKWY - DUBLIN, CA		
Report To: HAIG KEVORK Sampler: HAIG KEVORK			QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

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

Drinking Water
 Waste Water
 Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments			
						TPH-G	BTEX	MTBE	TOTAL PB	TPH-D/TOB	EPA 8010	EPA 8210	Ca/Cr	Zn/Ni					
1. SW1	7/28/98	SOIL	1	BRASS TUBE	8071995	✓	✓	✓	✓										
2. SW2	↓	SOIL	1	↓	8071996	✓	✓	✓	✓										
3. SW3		SOIL	1		8071997	✓	✓	✓	✓										
4. SW4		SOIL	1		8071998	✓	✓	✓	✓										
5. Water-FT		water	4		VOA'S	8071999	✓	✓	✓	✓									
6. WOSWI(8)	↓	SOIL		BRASS TUBE	8072000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7. Water-WO		water	3 6	AMBER'S VOA'S	8072001	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8.																			
9.																			
10.																			

Relinquished By:	Date: 7/28/98	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: T Harris	Date: 7/28	Time: 1415

Pink - Client
 Yellow - Sequoia
 White - Sequoia



Sequoia Analytical

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

Client Project ID: Tosco BP #11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 807-2232

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Reported: Aug 17, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX7 MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 807-2232 P-1	Sample I.D. 807-2233 P-2	Sample I.D. 807-2234 P-3	Sample I.D. 807-2235 P-4	Sample I.D. 807-2236 P-5	Sample I.D. 807-2237 OWS (5.5)
Purgeable Hydrocarbons	1.0	52	N.D.	N.D.	130	37	260
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	0.11	N.D.	N.D.	N.D.	0.14	N.D.
Ethyl Benzene	0.0050	0.16	N.D.	N.D.	0.57	N.D.	N.D.
Total Xylenes	0.0050	0.38	N.D.	N.D.	0.26	0.27	0.89
MTBE	0.050	N.D.	0.053	0.26	N.D.	N.D.	N.D.

Chromatogram Pattern: Gasoline & Unidentified Hydrocarbons >C8 -- -- Gasoline & Unidentified Hydrocarbons >C8 Gasoline & Unidentified Hydrocarbons >C8 Unidentified Hydrocarbons >C8

Quality Control Data

Report Limit Multiplication Factor:	20	1.0	1.0	20	20	100
Date Analyzed:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	123	103	96	110	137	*

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

Please Note

* Surrogate recovery below detection limit due to dilution

Julianne Fegley
Project Manager



Sequoia Analytical

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Soil
Analysis for: Lead
First Sample #: 807-2232

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Digested: Aug 11, 1998
Analyzed: Aug 11, 1998
Reported: Aug 17, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
807-2232	P-1	1.0	5.0
807-2233	P-2	1.0	6.7
807-2234	P-3	1.0	5.4
807-2235	P-4	1.0	9.4
807-2236	P-5	1.0	5.6
807-2237	OWS (5.5)	1.0	8.2

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

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

Client Project ID: Tosco BP #11116, Dublin
Matrix: Solid

QC Sample Group: 8072232-237

Reported: Aug 17, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	J. Kelly

MS/MSD

Batch#:	8072231	8072231	8072231	8072231	8072121
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Date Analyzed:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-3
Conc. Spiked:	0.80 mg/kg	0.80 mg/kg	0.80 mg/kg	2.4 mg/kg	50 mg/kg
Matrix Spike % Recovery:	88	93	95	50	93
Matrix Spike Duplicate % Recovery:	88	93	93	50	89
Relative % Difference:	0.0	0.0	2.7	0.0	4.1

LCS Batch#:	4LCS081198	4LCS081198	4LCS081198	4LCS081198	LCS081198
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Date Analyzed:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-3
LCS % Recovery:	98	101	101	104	110

% Recovery Control Limits:	50-150	50-150	50-150	50-150	80-120
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Please Note

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SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager



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: TOSCO (FORMER BP) NO. 11116		
Address: 6747 Sierra Ct, Suite J			Billing Address (if different): 9807538		
City: DUBLIN	State: CA	Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY		
Telephone: (925) 551-7555 FAX #: 551-7888			P.O. #: 7197 VILLAGE PKWY - DUBLIN, CA		
Report To: HAIG-KEVORK		Sampler: HAIG KEVORK	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

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

Drinking Water
 Waste Water
 Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-G	BTEX	MTBE	Total Pb	Comments
1. P-1	7/30/98	SOIL	1	BRASS TUBE	8072232	✓	✓	✓	✓	
2. P-2	↓	↓	1	↓	8072233	✓	✓	✓	✓	
3. P-3	↓	↓	1	↓	8072234	✓	✓	✓	✓	
4. P-4	↓	↓	1	↓	8072235	✓	✓	✓	✓	
5. P-5	↓	↓	1	↓	8072236	✓	✓	✓	✓	
6. OWS(5.5)	↓	↓	1	↓	8072237	✓	✓	✓	✓	
7.										
8.										
9.										
10.										

Relinquished By:	Date: 7/30/98	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: T. HARRIS	Date: 7/30	Time: 1610

Pink - Client
 Yellow - Sequoia
 White - Sequoia



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#111116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 808-1064

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Reported: Aug 25, 1998

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 808-1064 P-1	Sample I.D. 808-1065 P-2	Sample I.D. 808-1066 P-3	Sample I.D. 808-1067 P-4	Sample I.D. 808-1068 P-5	Sample I.D. 808-1069 OWS(5.5)
Extractable Hydrocarbons	1.0	23	N.D.	N.D.	26	N.D.	470
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons <C14	--	--	Diesel & Unidentified Hydrocarbons <C14	--	Unidentified Hydrocarbons <C14 & >C16

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	20
Date Extracted:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98	8/18/98
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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Redwood City, CA 94063
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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#111116, Dublin
Matrix Descript: Soil
Analysis Method: SM 5520 E&F (Gravimetric)
First Sample #: 808-1064

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 17, 1998
Analyzed: Aug 18, 1998
Reported: Aug 25, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
808-1064	P-1	110	1.0
808-1065	P-2	60	1.0
808-1066	P-3	120	1.0
808-1067	P-4	35	1.0
808-1068	P-5	12	1.0
808-1069	OWS(5.5)	2,700	1.0

Detection Limits:

50

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-1
Analysis Method: EPA 5030/8010
Lab Number: 808-1064

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Analyzed: Aug 13, 1998
Reported: Aug 25, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	10	N.D.
Bromoform.....	10	N.D.
Bromomethane.....	20	N.D.
Carbon tetrachloride.....	10	N.D.
Chlorobenzene.....	10	N.D.
Chloroethane.....	20	N.D.
Chloroform.....	10	N.D.
Chloromethane.....	20	N.D.
Dibromochloromethane.....	10	N.D.
1,2-Dichlorobenzene.....	10	N.D.
1,3-Dichlorobenzene.....	10	N.D.
1,4-Dichlorobenzene.....	10	N.D.
1,1-Dichloroethane.....	10	N.D.
1,2-Dichloroethane.....	10	N.D.
1,1-Dichloroethene.....	10	N.D.
cis-1,2-Dichloroethene.....	10	N.D.
trans-1,2-Dichloroethene.....	10	N.D.
1,2-Dichloropropane.....	10	N.D.
cis-1,3-Dichloropropene.....	10	N.D.
trans-1,3-Dichloropropene.....	10	N.D.
Methylene chloride.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	10	N.D.
Tetrachloroethene.....	10	N.D.
1,1,1-Trichloroethane.....	10	N.D.
1,1,2-Trichloroethane.....	10	N.D.
Trichloroethene.....	10	N.D.
Trichlorofluoromethane.....	10	N.D.
Vinyl chloride.....	20	N.D.
Surrogates	Control Limit %	% Recovery
Dibromodifluoromethane.....	50	150
4-Bromofluorobenzene.....	50	150

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

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**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-2
Analysis Method: EPA 5030/8010
Lab Number: 808-1065

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Analyzed: Aug 13, 1998
Reported: Aug 25, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	10	N.D.
Bromoform.....	10	N.D.
Bromomethane.....	20	N.D.
Carbon tetrachloride.....	10	N.D.
Chlorobenzene.....	10	N.D.
Chloroethane.....	20	N.D.
Chloroform.....	10	N.D.
Chloromethane.....	20	N.D.
Dibromochloromethane.....	10	N.D.
1,2-Dichlorobenzene.....	10	N.D.
1,3-Dichlorobenzene.....	10	N.D.
1,4-Dichlorobenzene.....	10	N.D.
1,1-Dichloroethane.....	10	N.D.
1,2-Dichloroethane.....	10	N.D.
1,1-Dichloroethene.....	10	N.D.
cis-1,2-Dichloroethene.....	10	N.D.
trans-1,2-Dichloroethene.....	10	N.D.
1,2-Dichloropropane.....	10	N.D.
cis-1,3-Dichloropropene.....	10	N.D.
trans-1,3-Dichloropropene.....	10	N.D.
Methylene chloride.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	10	N.D.
Tetrachloroethene.....	10	N.D.
1,1,1-Trichloroethane.....	10	N.D.
1,1,2-Trichloroethane.....	10	N.D.
Trichloroethene.....	10	N.D.
Trichlorofluoromethane.....	10	N.D.
Vinyl chloride.....	20	N.D.
Surrogates	Control Limit %	% Recovery
Dibromodifluoromethane.....	50	150.....
4-Bromofluorobenzene.....	50	150.....

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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680 Chesapeake Drive
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Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-3
Analysis Method: EPA 5030/8010
Lab Number: 808-1066

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Analyzed: Aug 13, 1998
Reported: Aug 25, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	10	N.D.
Bromoform.....	10	N.D.
Bromomethane.....	20	N.D.
Carbon tetrachloride.....	10	N.D.
Chlorobenzene.....	10	N.D.
Chloroethane.....	20	N.D.
Chloroform.....	10	N.D.
Chloromethane.....	20	N.D.
Dibromochloromethane.....	10	N.D.
1,2-Dichlorobenzene.....	10	N.D.
1,3-Dichlorobenzene.....	10	N.D.
1,4-Dichlorobenzene.....	10	N.D.
1,1-Dichloroethane.....	10	N.D.
1,2-Dichloroethane.....	10	N.D.
1,1-Dichloroethene.....	10	N.D.
cis-1,2-Dichloroethene.....	10	N.D.
trans-1,2-Dichloroethene.....	10	N.D.
1,2-Dichloropropane.....	10	N.D.
cis-1,3-Dichloropropene.....	10	N.D.
trans-1,3-Dichloropropene.....	10	N.D.
Methylene chloride.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	10	N.D.
Tetrachloroethene.....	10	N.D.
1,1,1-Trichloroethane.....	10	N.D.
1,1,2-Trichloroethane.....	10	N.D.
Trichloroethene.....	10	N.D.
Trichlorofluoromethane.....	10	N.D.
Vinyl chloride.....	20	N.D.
Surrogates	Control Limit %	% Recovery
Dibromodifluoromethane.....	50	150.....
4-Bromofluorobenzene.....	50	150.....

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

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1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-4
Analysis Method: EPA 5030/8010
Lab Number: 808-1067

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Analyzed: Aug 13, 1998
Reported: Aug 25, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	10	N.D.
Bromoform.....	10	N.D.
Bromomethane.....	20	N.D.
Carbon tetrachloride.....	10	N.D.
Chlorobenzene.....	10	N.D.
Chloroethane.....	20	N.D.
Chloroform.....	10	N.D.
Chloromethane.....	20	N.D.
Dibromochloromethane.....	10	N.D.
1,2-Dichlorobenzene.....	10	N.D.
1,3-Dichlorobenzene.....	10	N.D.
1,4-Dichlorobenzene.....	10	N.D.
1,1-Dichloroethane.....	10	N.D.
1,2-Dichloroethane.....	10	N.D.
1,1-Dichloroethene.....	10	N.D.
cis-1,2-Dichloroethene.....	10	N.D.
trans-1,2-Dichloroethene.....	10	N.D.
1,2-Dichloropropane.....	10	N.D.
cis-1,3-Dichloropropene.....	10	N.D.
trans-1,3-Dichloropropene.....	10	N.D.
Methylene chloride.....	100	N.D.
1,1,1,2-Tetrachloroethane.....	10	N.D.
Tetrachloroethene.....	10	N.D.
1,1,1-Trichloroethane.....	10	N.D.
1,1,2-Trichloroethane.....	10	N.D.
Trichloroethene.....	10	N.D.
Trichlorofluoromethane.....	10	N.D.
Vinyl chloride.....	20	N.D.

Surrogates	Control Limit %	% Recovery
Dibromodifluoromethane.....	50	103
4-Bromofluorobenzene.....	50	99

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

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404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA. 94568
Attention: Haig Kevork

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-5
Analysis Method: EPA 5030/8010
Lab Number: 808-1068

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Analyzed: Aug 13, 1998
Reported: Aug 25, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	10	N.D.
Bromoform.....	10	N.D.
Bromomethane.....	20	N.D.
Carbon tetrachloride.....	10	N.D.
Chlorobenzene.....	10	N.D.
Chloroethane.....	20	N.D.
Chloroform.....	10	N.D.
Chloromethane.....	20	N.D.
Dibromochloromethane.....	10	N.D.
1,2-Dichlorobenzene.....	10	N.D.
1,3-Dichlorobenzene.....	10	N.D.
1,4-Dichlorobenzene.....	10	N.D.
1,1-Dichloroethane.....	10	N.D.
1,2-Dichloroethane.....	10	N.D.
1,1-Dichloroethene.....	10	N.D.
cis-1,2-Dichloroethene.....	10	N.D.
trans-1,2-Dichloroethene.....	10	N.D.
1,2-Dichloropropane.....	10	N.D.
cis-1,3-Dichloropropene.....	10	N.D.
trans-1,3-Dichloropropene.....	10	N.D.
Methylene chloride.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	10	N.D.
Tetrachloroethene.....	10	N.D.
1,1,1-Trichloroethane.....	10	N.D.
1,1,2-Trichloroethane.....	10	N.D.
Trichloroethene.....	10	N.D.
Trichlorofluoromethane.....	10	N.D.
Vinyl chloride.....	20	N.D.
Surrogates	Control Limit %	% Recovery
Dibromodifluoromethane.....	50	150
4-Bromofluorobenzene.....	50	150

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Company Name: **GETTLER-RYAN INC.** Project Name: **TOSCO (FORMER BP) NO. 11116**
 Address: **6147 Sierra Ct, Suite D** Billing Address (if different): **9807538**
 City: **DUBLIN** State: **CA** Zip Code: **94568** TOSCO PROJECT MANAGER: **TINA BERRY**
 Telephone: **(925) 551-1555** FAX #: **551-7888** P.O. #: **7197 VILLAGE PKWY - DUBLIN, CA**
 Report To: **HAIG KEVORK** Sampler: **HAIG KEVORK** QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours Drinking Water
 Time: 7 Working Days 2 Working Days Waste Water
 5 Working Days 24 Hours Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-G	BTEX	MTBE	Total Pb	Comments
1. P-1	7/30/98	SOIL	1	BRASS TUBE	8072232	✓	✓	✓	✓	
2. P-2	↓	↓	1	↓	8072233	✓	✓	✓	✓	
3. P-3	↓	↓	1	↓	8072234	✓	✓	✓	✓	
4. P-4	↓	↓	1	↓	8072235	✓	✓	✓	✓	
5. P-5	↓	↓	1	↓	8072236	✓	✓	✓	✓	
6. OWS(5.5)	↓	↓	1	↓	8072237	✓	✓	✓	✓	
7.										
8.										
9.										
10.										

Relinquished By: *[Signature]* Date: **7/30/98** Time: _____ Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By Lab: **J. Hawkins** Date: **7/30** Time: **1510**



Sequoia Analytical

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404 N. Wiget Lane
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA. 94568
Attention: Haig Kevork

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, OWS(5.5)
Analysis Method: EPA 5030/8010
Lab Number: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Analyzed: Aug 13, 1998
Reported: Aug 25, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg	
Bromodichloromethane.....	10	N.D.	
Bromoform.....	10	N.D.	
Bromomethane.....	20	N.D.	
Carbon tetrachloride.....	10	N.D.	
Chlorobenzene.....	10	270	
Chloroethane.....	20	N.D.	
Chloroform.....	10	N.D.	
Chloromethane.....	20	N.D.	
Dibromochloromethane.....	10	N.D.	
1,2-Dichlorobenzene.....	10	1,600	
1,3-Dichlorobenzene.....	10	32	
1,4-Dichlorobenzene.....	10	120	
1,1-Dichloroethane.....	10	N.D.	
1,2-Dichloroethane.....	10	N.D.	
1,1-Dichloroethene.....	10	N.D.	
cis-1,2-Dichloroethene.....	10	N.D.	
trans-1,2-Dichloroethene.....	10	N.D.	
1,2-Dichloropropane.....	10	N.D.	
cis-1,3-Dichloropropene.....	10	N.D.	
trans-1,3-Dichloropropene.....	10	N.D.	
Methylene chloride.....	100	N.D.	
1,1,2,2-Tetrachloroethane.....	10	N.D.	
Tetrachloroethene.....	10	N.D.	
1,1,1-Trichloroethane.....	10	N.D.	
1,1,2-Trichloroethane.....	10	N.D.	
Trichloroethene.....	10	N.D.	
Trichlorofluoromethane.....	10	N.D.	
Vinyl chloride.....	20	N.D.	
Surrogates	Control Limit %	% Recovery	
Dibromodifluoromethane.....	50	150.....	93
4-Bromofluorobenzene.....	50	150.....	112

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-1
Analysis Method: EPA 8270
Lab Number: 808-1064

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzdine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzy phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-1
Analysis Method: EPA 8270
Lab Number: 808-1064

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	100	N.D.
Fluorene.....	100	N.D.
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
Isophorone.....	100	N.D.
2-Methylnaphthalene.....	100	N.D.
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	N.D.
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodimethylamine.....	100	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
Phenanthrene.....	100	N.D.
Phenol.....	100	N.D.
Pyrene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.

Surrogates	Control Limit %	% Recovery	
2-Fluorophenol.....	25	121	44
Phenol-d6.....	24	113	52
Nitrobenzene-d5.....	23	120	47
2-Fluorobiphenyl.....	30	115	54
2,4,6-Tribromophenol.....	19	122	78
4-Terphenyl-d14.....	18	137	74

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-2
Analysis Method: EPA 8270
Lab Number: 808-1065

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzidine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-2
Analysis Method: EPA 8270
Lab Number: 808-1065

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	100	N.D.
Fluorene.....	100	N.D.
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
isophorone.....	100	N.D.
2-Methylnaphthalene.....	100	N.D.
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	N.D.
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodimethylamine.....	100	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
Phenanthrene.....	100	N.D.
Phenol.....	100	N.D.
Pyrene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.

Surrogates	Control Limit %	% Recovery	
2-Fluorophenol.....	25	121	29
Phenol-d6.....	24	113	46
Nitrobenzene-d5.....	23	120	27
2-Fluorobiphenyl.....	30	115	48
2,4,6-Tribromophenol.....	19	122	69
4-Terphenyl-d14.....	18	137	83

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-3
Analysis Method: EPA 8270
Lab Number: 808-1066

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzydine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-3
Analysis Method: EPA 8270
Lab Number: 808-1066

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	100	N.D.
Fluorene.....	100	N.D.
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
Isophorone.....	100	N.D.
2-Methylnaphthalene.....	100	N.D.
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	N.D.
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodimethylamine.....	100	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
Phenanthrene.....	100	N.D.
Phenol.....	100	N.D.
Pyrene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.
Surrogates	Control Limit %	% Recovery
2-Fluorophenol.....	25	121
Phenol-d6.....	24	113
Nitrobenzene-d5.....	23	120
2-Fluorobiphenyl.....	30	115
2,4,6-Tribromophenol.....	19	122
4-Terphenyl-d14.....	18	137

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#111116, Dublin
Sample Descript: Soil, P-4
Analysis Method: EPA 8270
Lab Number: 808-1067

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzidine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd., North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Soil, P-4
Analysis Method: EPA 8270
Lab Number: 808-1067

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	100	N.D.
Fluorene.....	100	N.D.
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
Isophorone.....	100	N.D.
2-Methylnaphthalene.....	100	1,500
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	1,100
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodimethylamine.....	100	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
Phenanthrene.....	100	N.D.
Phenol.....	100	N.D.
Pyrene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.

Surrogates	Control Limit %	% Recovery	
2-Fluorophenol.....	25	121	54
Phenol-d6.....	24	113	64
Nitrobenzene-d5.....	23	120	60
2-Fluorobiphenyl.....	30	115	67
2,4,6-Tribromophenol.....	19	122	84
4-Terphenyl-d14.....	18	137	88

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#111116, Dublin
Sample Descript: Soil, P-5
Analysis Method: EPA 8270
Lab Number: 808-1068

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzidine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-5
Analysis Method: EPA 8270
Lab Number: 808-1068

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	100	N.D.
Fluorene.....	100	N.D.
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
Isophorone.....	100	N.D.
2-Methylnaphthalene.....	100	N.D.
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	N.D.
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodimethylamine.....	100	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
Phenanthrene.....	100	N.D.
Phenol.....	100	N.D.
Pyrene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.

Surrogates	Control Limit %	% Recovery	
2-Fluorophenol.....	25	121	43
Phenol-d6.....	24	113	56
Nitrobenzene-d5.....	23	120	49
2-Fluorobiphenyl.....	30	115	62
2,4,6-Tribromophenol.....	19	122	80
4-Terphenyl-d14.....	18	137	87

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, OWS(5.5)
Analysis Method: EPA 8270
Lab Number: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzidine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate	100	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	100	N.D.
2,6-Dinitrotoluene	100	N.D.
Di-N-octyl phthalate	100	N.D.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, OWS(5.5)
Analysis Method: EPA 8270
Lab Number: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg	
Fluoranthene.....	100	N.D.	
Fluorene.....	100	N.D.	
Hexachlorobenzene.....	100	N.D.	
Hexachlorobutadiene.....	100	N.D.	
Hexachlorocyclopentadiene.....	100	N.D.	
Hexachloroethane.....	100	N.D.	
Indeno(1,2,3-cd)pyrene.....	100	N.D.	
Isophorone.....	100	N.D.	
2-Methylnaphthalene.....	100	270	
2-Methylphenol.....	100	N.D.	
4-Methylphenol.....	100	N.D.	
Naphthalene.....	100	160	
2-Nitroaniline.....	500	N.D.	
3-Nitroaniline.....	500	N.D.	
4-Nitroaniline.....	500	N.D.	
Nitrobenzene.....	100	N.D.	
2-Nitrophenol.....	100	N.D.	
4-Nitrophenol.....	500	N.D.	
N-Nitrosodimethylamine.....	100	N.D.	
N-Nitrosodiphenylamine.....	100	N.D.	
N-Nitroso-di-N-propylamine.....	100	N.D.	
Pentachlorophenol.....	500	N.D.	
Phenanthrene.....	100	N.D.	
Phenol.....	100	N.D.	
Pyrene.....	100	N.D.	
1,2,4-Trichlorobenzene.....	100	N.D.	
2,4,5-Trichlorophenol.....	500	N.D.	
2,4,6-Trichlorophenol.....	100	N.D.	
Surrogates			
2-Fluorophenol.....	25	121	36
Phenol-d6.....	24	113	50
Nitrobenzene-d5.....	23	120	51
2-Fluorobiphenyl.....	30	115	67
2,4,6-Tribromophenol.....	19	122	82
4-Terphenyl-d14.....	18	137	73

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600 FAX (650) 364-9233
(925) 988-9600 FAX (925) 988-9673
(916) 921-9600 FAX (916) 921-0100
(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 BP #11116, Dublin
Sample Descript: Soil, P-1
Lab Number: 808-1064

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Digested: Aug 11, 1998
Analyzed: Aug 20, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	19
Nickel.....	0.50	25
Zinc.....	1.0	26

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-2
Lab Number: 808-1065

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Digested: Aug 11, 1998
Analyzed: Aug 20, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	26
Nickel.....	0.50	37
Zinc.....	1.0	40

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-3
Lab Number: 808-1066

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Digested: Aug 11, 1998
Analyzed: Aug 20, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	17
Nickel.....	0.50	25
Zinc.....	1.0	28

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-4
Lab Number: 808-1067

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Digested: Aug 11, 1998
Analyzed: Aug 20, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	27
Nickel.....	0.50	36
Zinc.....	1.0	36

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, P-5
Lab Number: 808-1068

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Digested: Aug 11, 1998
Analyzed: Aug 20, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	17
Nickel.....	0.50	22
Zinc.....	1.0	26

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, OWS(5.5)
Lab Number: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Digested: Aug 11, 1998
Analyzed: Aug 21, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	N.D.
Nickel.....	0.50	N.D.
Zinc.....	1.0	1.5

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8081064-069

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Nickel	Zinc	Diesel	Oil & Grease
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 8015	SM 5520
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	K. Grubb	L. Diaz

MS/MSD Batch#:	8072121	8072121	8072121	8072121	8081065	8081066
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/13/98	8/17/98
Date Analyzed:	8/20/98	8/20/98	8/20/98	8/20/98	8/14/98	8/18/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	HP-3A	Manual
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	15 mg/kg	5000 mg/kg
Matrix Spike % Recovery:	92	*	*	84	93	108
Matrix Spike Duplicate % Recovery:	90	*	*	82	100	106
Relative % Difference:	2.2	30	0.0	1.5	6.9	1.8

LCS Batch#:	LCS081198	LCS081198	LCS081198	LCS081198	LCS081398	LCS081798C
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/13/98	8/17/98
Date Analyzed:	8/20/98	8/20/98	8/20/98	8/20/98	8/14/98	8/18/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	HP-3A	Manual
LCS % Recovery:	104	104	106	102	93	102

% Recovery Control Limits:	80-120	80-120	80-120	80-120	60-140	70-130
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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.

** MS=Matrix Spike MSD=MS Duplicate, RPD=Relative % Difference

* Value undeterminable due to matrix interference and/or concentration in sample

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8081064-069

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	N. Nelson	N. Nelson	N. Nelson

MS/MSD			
Batch#:	8081065	8081065	8081065
Date Prepared:	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/13/98	8/13/98	8/13/98
Instrument I.D.#:	HP-7	HP-7	HP-7
Conc. Spiked:	200 µg/kg	200 µg/kg	200 µg/kg
Matrix Spike			
% Recovery:	90	95	90
Matrix Spike Duplicate %			
Recovery:	95	95	95
Relative % Difference:	0.0	0.0	0.0

LCS Batch#:	LCS081398	LCS081398	LCS081398
Date Prepared:	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/13/98	8/13/98	8/13/98
Instrument I.D.#:	HP-7	HP-7	HP-7
LCS % Recovery:	75	75	75

% Recovery Control Limits:	65-135	70-130	70-130
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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, #1271

Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8081064-069

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro- benzene	N-Nitroso-Di- N-propylamine	1,2,4-Trichloro- benzene	4-Chloro-3- Methylphenol
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD	Phenol	2-Chlorophenol	1,4-Dichloro- benzene	N-Nitroso-Di- N-propylamine	1,2,4-Trichloro- benzene	4-Chloro-3- Methylphenol
Batch#:	8081066	8081066	8081066	8081066	8081066	8081066
Date Prepared:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	3300 µg/kg	3300 µg/kg	3300 µg/kg	5000 µg/kg
Matrix Spike						
% Recovery:	54	60	58	70	67	68
Matrix Spike Duplicate %						
Recovery:	54	58	52	70	64	64
Relative % Difference:	0.0	3.4	11	0.0	4.7	6.1
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	Phenol	2-Chlorophenol	1,4-Dichloro- benzene	N-Nitroso-Di- N-propylamine	1,2,4-Trichloro- benzene	4-Chloro-3- Methylphenol
BLK081398	BLK081398	BLK081398	BLK081398	BLK081398	BLK081398	BLK081398
Date Prepared:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	58	64	61	73	70	70

% Recovery Control Limits:	Phenol	2-Chlorophenol	1,4-Dichloro- benzene	N-Nitroso-Di- N-propylamine	1,2,4-Trichloro- benzene	4-Chloro-3- Methylphenol
	26-90	25-102	28-104	41-126	38-107	26-103

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, #1271

Julianne Fegley

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8081064-069

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Batch#:	8081066	8081066	8081066	8081066	8081066
Date Prepared:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	3300 µg/kg	5000 µg/kg	3300 µg/kg	5000 µg/kg	3300 µg/kg

Matrix Spike % Recovery:	70	56	67	70	94
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Matrix Spike Duplicate % Recovery:	67	58	67	76	79
------------------------------------	----	----	----	----	----

Relative % Difference:	4.4	3.5	0.0	8.2	18
RPD Limit:	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	BLK081398	BLK081398	BLK081398	BLK081398	BLK081398
Date Prepared:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	70	66	73	84	82

% Recovery Control Limits:	31-137	11-114	28-89	17-109	35-142
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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, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063 (650) 364-9600 FAX (650) 364-9233
Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673
Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100
Petaluma, CA 94954 (707) 792-1865 FAX (707) 792-0342

REQUEST TO RELOG SAMPLES

(Please submit to sample control with a copy of the COC)

CLIENT: Gettler Ryan

MATRIX:

Soil

9808275

PREVIOUSLY LOGGED SAMPLES

TAT Change status to: 10 days
Change status as of Day: 8/7/98 Time: 5:30 PM

CHANGE ANALYSES

Add Analyses

Cancel Analyses

Sequoia Project ID: 9807538

Sample Number

Analyses

8081064 8072232	TPH-Diesel ,TOG , 8010 , 8270 , Cd , Cr , Ni , Zn
8081065 8072233	TPH-Diesel ,TOG , 8010 , 8270 , Cd , Cr , Ni , Zn
8081066 8072234	TPH-Diesel ,TOG , 8010 , 8270 , Cd , Cr , Ni , Zn
8081067 8072235	TPH-Diesel ,TOG , 8010 , 8270 , Cd , Cr , Ni , Zn
8081068 8072236	TPH-Diesel ,TOG , 8010 , 8270 , Cd , Cr , Ni , Zn
8081069 8072237	TPH-Diesel ,TOG , 8010 , 8270 , Cd , Cr , Ni , Zn
NA	NA

SAMPLES ON HOLD

Sample Description

Analyses

NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

Client Authorization (Person/Date/Time) Haig Kevork 8/7/98 5:30 PM

Project Manager JCF



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
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Sacramento, CA 95834
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco BP#11116, Dublin
Matrix Descript: Soil
Analysis Method: SM 5520 E&F (Gravimetric)
First Sample #: 808-2084

Sampled: Jul 30, 1998
Relogged: Aug 20, 1998
Extracted: Aug 26, 1998
Analyzed: Aug 27, 1998
Reported: Sep 1, 1998

RECEIVED
SEP 07 1998
GETTLER-RYAN
GENERAL CONTRACTORS

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor	QC Batch Number
808-2084	OWS(5.5)	94	1.0	SP0826985520EXA

Detection Limits:

50

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 808-2084

Reported: Sep 1, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Oil & Grease
QC Batch#:	SP082698
	5520EXA
Analy. Method:	SM 5520
Prep. Method:	SM 5520
Analyst:	L. Diaz
MS/MSD #:	8082002
Sample Conc.:	N.D.
Prepared Date:	8/26/98
Analyzed Date:	8/27/98
Instrument I.D.#:	Manual
Conc. Spiked:	5000 mg/kg
Result:	4,800
MS % Recovery:	96
Dup. Result:	4,800
MSD % Recov.:	96
RPD:	0.0
RPD Limit:	0-30

LCS #:	LCS082698
Prepared Date:	8/26/98
Analyzed Date:	8/27/98
Instrument I.D.#:	Manual
Conc. Spiked:	5000 mg/kg
LCS Result:	4,300
LCS % Recov.:	86

MS/MSD	
LCS	70-130
Control Limits	

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
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Redwood City, CA 94063
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REQUEST TO RELOG SAMPLES

9808452 (Please submit to sample control with a copy of the COC)

CLIENT: Gettler Ryan

MATRIX: Soil

PREVIOUSLY LOGGED SAMPLES

TAT Change status to: 10 days
Change status as of Day: 8/20/98 Time: 3:19 PM

CHANGE ANALYSES

Add Analyses

Cancel Analyses

Sequoia Project ID: 9807538

Sample Number Analyses

8072237

total Oil and Grease

8082084

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

SAMPLES ON HOLD

Sample Description

Analyses

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

Client Authorization (Person/Date/Time) Haig Kevork 8/20/98 3.19 PM

Project Manager: JCF



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: TOSCO (FORMER BP) NO. 11116		
Address: 6747 Sierra Ct, Suite J			Billing Address (if different): 9807538		
City: DUBLIN	State: CA	Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY		
Telephone: (925) 551-7555 FAX #: 551-7888			P.O. #: 7197 VILLAGE PKWY - DUBLIN, CA		
Report To: HAIG KEVORK		Sampler: HAIG KEVORK	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

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

Analyses Requested
 Drinking Water Waste Water Other
 TPH-G BTEX MTBE Total Pb

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-G	BTEX	MTBE	Total Pb	Comments
1. P-1	7/30/98	SOIL	1	BRASS TUBE	8072232	✓	✓	✓	✓	
2. P-2	↓	↓	1	↓	8072233	✓	✓	✓	✓	
3. P-3	↓	↓	1	↓	8072234	✓	✓	✓	✓	
4. P-4	↓	↓	1	↓	8072235	✓	✓	✓	✓	
5. P-5	↓	↓	1	↓	8072236	✓	✓	✓	✓	
6. OWS(5.5)	↓	↓	1	↓	8072237	✓	✓	✓	✓	
7.										
8.										
9.										
10.										

Relinquished By:	Date: 7/30/98	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: J. HICKS	Date: 7/30	Time: 1615

Pink - Client
Yellow - Sequoia
White - Sequoia

Client: Gettler-Ryan, Inc.

Work Order #: 9808452

Project: Tosco (Former BP) No. 11116

Date: 8/20/98

Turnaround Time: 10 DAY

Due Date: 9/1/98

Sample No.	Client I.D.	Analysis	Collect Date	Receive Date	Matrix	Comments
8082084	*Relog	5520-ef ✓	7/30/98	8/20/98	soil	

Reviewed By: AS Date: 8/20/98 Date Verbal: _____ Time Verbal: _____ To: _____
Reviewed By: SM Date: 8/27/98 Date Faxed: 9/1/98 Time Faxed: _____ To: Henry Kivirk
Reviewed By: _____ Date: _____

Comments: Typing 8/31/98 13:00



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
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FAX (707) 792-0342

REQUEST TO RELOG SAMPLES

9808452 (Please submit to sample control with a copy of the COC)

CLIENT: Gettler Ryan

MATRIX: Soil

PREVIOUSLY LOGGED SAMPLES

TAT Change status to: 10 days
Change status as of Day: 8/20/98 Time: 3:19 PM

CHANGE ANALYSES

Add Analyses

Cancel Analyses

Sequoia Project ID: 9807538

Sample Number

Analyses

8072237

total Oil and Grease

8082084

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

SAMPLES ON HOLD

Sample Description

Analyses

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

Client Authorization (Person/Date/Time) Haig Kevork 8/20/98 3:19 PM

Project Manager JCF



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
 104 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: GETTLER-RYAN INC.			Project Name: TOSCO (FORMER BP) NO. 11116		
Address: 6147 Sierra Ct, Suite J			Billing Address (if different): 9807538		
City: DUBLIN	State: CA	Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY		
Telephone: (925) 551-7555		FAX #: 551-7888	P.O. #: 7197 VILLAGE PKWY - DUBLIN, CA		
Report To: HAIG KEVORK	Sampler: HAIG KEVORK		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround Time:	<input checked="" type="checkbox"/> 10 Working Days	<input type="checkbox"/> 3 Working Days	<input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Drinking Water	Analyses Requested
	<input type="checkbox"/> 7 Working Days	<input type="checkbox"/> 2 Working Days	<input type="checkbox"/> Other	<input type="checkbox"/> Waste Water	
	<input type="checkbox"/> 5 Working Days	<input type="checkbox"/> 24 Hours			

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-G	BTEX	MTBE	Total Pb	Comments
1. P-1	7/30/98	SOIL	1	BRASS TUBE	8072232	✓	✓	✓	✓	
2. P-2	↓	↓	1	↓	8072233	✓	✓	✓	✓	
3. P-3	↓	↓	1	↓	8072234	✓	✓	✓	✓	
4. P-4	↓	↓	1	↓	8072235	✓	✓	✓	✓	
5. P-5	↓	↓	1	↓	8072236	✓	✓	✓	✓	
6. OWS(5.5)	↓	↓	1	↓	8072237	✓	✓	✓	✓	
7.										
8.										
9.										
10.										

Relinquished By:	Date: 7/30/98	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: J Harris	Date: 7/30	Time: 1:30

Pink - Client
 Yellow - Sequoia
 White - Sequoia



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Matrix Descript: Soil
Analysis Method: SM 5520 E&F (Gravimetric)
First Sample #: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 17, 1998
Analyzed: Aug 18, 1998
Reported: Aug 25, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
808-1069	OWS(5.5)	2,700	1.0

Detection Limits:

50

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
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Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#111116, Dublin
Sample Descript: Soil, OWS(5.5)
Analysis Method: EPA 5030/8010
Lab Number: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Analyzed: Aug 13, 1998
Reported: Aug 25, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg	
Bromodichloromethane.....	10	N.D.	
Bromoform.....	10	N.D.	
Bromomethane.....	20	N.D.	
Carbon tetrachloride.....	10	N.D.	
Chlorobenzene.....	10	270	
Chloroethane.....	20	N.D.	
Chloroform.....	10	N.D.	
Chloromethane.....	20	N.D.	
Dibromochloromethane.....	10	N.D.	
1,2-Dichlorobenzene.....	10	1,600	
1,3-Dichlorobenzene.....	10	32	
1,4-Dichlorobenzene.....	10	120	
1,1-Dichloroethane.....	10	N.D.	
1,2-Dichloroethane.....	10	N.D.	
1,1-Dichloroethene.....	10	N.D.	
cis-1,2-Dichloroethene.....	10	N.D.	
trans-1,2-Dichloroethene.....	10	N.D.	
1,2-Dichloropropane.....	10	N.D.	
cis-1,3-Dichloropropene.....	10	N.D.	
trans-1,3-Dichloropropene.....	10	N.D.	
Methylene chloride.....	100	N.D.	
1,1,2,2-Tetrachloroethane.....	10	N.D.	
Tetrachloroethene.....	10	N.D.	
1,1,1-Trichloroethane.....	10	N.D.	
1,1,2-Trichloroethane.....	10	N.D.	
Trichloroethene.....	10	N.D.	
Trichlorofluoromethane.....	10	N.D.	
Vinyl chloride.....	20	N.D.	
Surrogates	Control Limit %	% Recovery	
Dibromodifluoromethane.....	50	150.....	93
4-Bromofluorobenzene.....	50	150.....	112

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, OWS(5.5)
Analysis Method: EPA 8270
Lab Number: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzidine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.



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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, OWS(5.5)
Analysis Method: EPA 8270
Lab Number: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Extracted: Aug 13, 1998
Analyzed: Aug 14, 1998
Reported: Aug 25, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	100	N.D.
Fluorene.....	100	N.D.
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
Isophorone.....	100	N.D.
2-Methylnaphthalene.....	100	270
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	160
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodimethylamine.....	100	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
Phenanthrene.....	100	N.D.
Phenol.....	100	N.D.
Pyrene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.

Surrogates	Control Limit %	% Recovery	
2-Fluorophenol.....	25	121	36
Phenol-d6.....	24	113	50
Nitrobenzene-d5.....	23	120	51
2-Fluorobiphenyl.....	30	115	67
2,4,6-Tribromophenol.....	19	122	82
4-Terphenyl-d14.....	18	137	73

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, OWS(5.5)
Lab Number: 808-1069

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Digested: Aug 11, 1998
Analyzed: Aug 21, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	N.D.
Nickel.....	0.50	N.D.
Zinc.....	1.0	1.5

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager





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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 808-1069

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Nickel	Zinc	Diesel	Oil & Grease
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 8015	SM 5520
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	K. Grubb	L. Diaz

MS/MSD	Cadmium	Chromium	Nickel	Zinc	Diesel	Oil & Grease
Batch#:	8072121	8072121	8072121	8072121	8081065	8081066
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/13/98	8/17/98
Date Analyzed:	8/20/98	8/20/98	8/20/98	8/20/98	8/14/98	8/18/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	HP-3A	Manual
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	15 mg/kg	5000 mg/kg
Matrix Spike						
% Recovery:	92	*	*	84	93	108
Matrix Spike Duplicate %						
Recovery:	90	*	*	82	100	106
Relative %						
Difference:	2.2	30	0.0	1.5	6.9	1.8

LCS Batch#:	LCS081198	LCS081198	LCS081198	LCS081198	LCS081398	LCS081798C
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/13/98	8/17/98
Date Analyzed:	8/20/98	8/20/98	8/20/98	8/20/98	8/14/98	8/18/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	HP-3A	Manual
LCS %						
Recovery:	104	104	106	102	93	102

% Recovery	Cadmium	Chromium	Nickel	Zinc	Diesel	Oil & Grease
Control Limits:	80-120	80-120	80-120	80-120	60-140	70-130

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

* Value undeterminable due to matrix interference and/or concentration in sample



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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 808-1069

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	N. Nelson	N. Nelson	N. Nelson

MS/MSD			
Batch#:	8081065	8081065	8081065
Date Prepared:	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/13/98	8/13/98	8/13/98
Instrument I.D.#:	HP-7	HP-7	HP-7
Conc. Spiked:	200 µg/kg	200 µg/kg	200 µg/kg
Matrix Spike			
% Recovery:	90	95	90
Matrix Spike Duplicate %			
Recovery:	95	95	95
Relative % Difference:	0.0	0.0	0.0

LCS Batch#:	LCS081398	LCS081398	LCS081398
Date Prepared:	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/13/98	8/13/98	8/13/98
Instrument I.D.#:	HP-7	HP-7	HP-7
LCS % Recovery:	75	75	75

% Recovery			
Control Limits:	65-135	70-130	70-130

Please Note

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SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 808-1069

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Batch#:	8081066	8081066	8081066	8081066	8081066	8081066
Date Prepared:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	3300 µg/kg	3300 µg/kg	3300 µg/kg	5000 µg/kg
Matrix Spike % Recovery:	54	60	58	70	67	68
Matrix Spike Duplicate % Recovery:	54	58	52	70	64	64
Relative % Difference:	0.0	3.4	11	0.0	4.7	6.1
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	BLK081398	BLK081398	BLK081398	BLK081398	BLK081398	BLK081398
Date Prepared:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	58	64	61	73	70	70

% Recovery Control Limits:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Control Limits:	26-90	25-102	28-104	41-126	38-107	26-103

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, #1271
Julianne Fegley
Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 808-1069

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Batch#:	8081066	8081066	8081066	8081066	8081066
Date Prepared:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	3300 µg/kg	5000 µg/kg	3300 µg/kg	5000 µg/kg	3300 µg/kg

Matrix Spike % Recovery:	70	56	67	70	94
--------------------------	----	----	----	----	----

Matrix Spike Duplicate % Recovery:	67	58	67	76	79
------------------------------------	----	----	----	----	----

Relative % Difference:	4.4	3.5	0.0	8.2	18
RPD Limit:	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	BLK081398	BLK081398	BLK081398	BLK081398	BLK081398
Date Prepared:	8/13/98	8/13/98	8/13/98	8/13/98	8/13/98
Date Analyzed:	8/14/98	8/14/98	8/14/98	8/14/98	8/14/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	70	66	73	84	82

% Recovery Control Limits:	31-137	11-114	28-89	17-109	35-142
----------------------------	--------	--------	-------	--------	--------

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, #1271

Julianne Fegley
Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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REQUEST TO RELOG SAMPLES

(Please submit to sample control with a copy of the COC)

CLIENT: **Gettler Ryan**

MATRIX: **Soil**

9808275

PREVIOUSLY LOGGED SAMPLES

TAT Change status to: 10 days
Change status as of Day: 8/7/98 Time: 5:30 PM

CHANGE ANALYSES

Add Analyses

Cancel Analyses

Sequoia Project ID: 9807538

Sample Number	Analyses
8081064 8072232	TPH-Diesel, TOG, 8010, 8270, Cd, Cr, Ni, Zn
8081065 8072233	TPH-Diesel, TOG, 8010, 8270, Cd, Cr, Ni, Zn
8081066 8072234	TPH-Diesel, TOG, 8010, 8270, Cd, Cr, Ni, Zn
8081067 8072235	TPH-Diesel, TOG, 8010, 8270, Cd, Cr, Ni, Zn
8081068 8072236	TPH-Diesel, TOG, 8010, 8270, Cd, Cr, Ni, Zn
8081069 8072237	TPH-Diesel, TOG, 8010, 8270, Cd, Cr, Ni, Zn
NA	NA

Relog only on sample 8081064 w p- Haig Kevork 9/9/98

SAMPLES ON HOLD

Sample Description	Analyses
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

Client Authorization (Person/Date/Time): Haig Kevork 8/7/98 5:30 PM

Project Manager: JCF

Company Name: **GETTLER-RYAN INC.** Project Name: **TOSCO (FORMER BP) NO. 11116**
 Address: **6147 Sierra Ct, Suite J** Billing Address (if different): **9807538**
 City: **DUBLIN** State: **CA** Zip Code: **94568** **TOSCO PROJECT MANAGER: TINA BERRY**
 Telephone: **(925) 551-7555** FAX #: **551-7888** P.O. #: **7197 VILLAGE PKWY - DUBLIN, CA**
 Report To: **HAIG-KEVORK** Sample: **HAIG-KEVORK** QC Data: Level D (Standard) Level C Level B Level A

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

Analyses Requested
 Drinking Water
 Waste Water
 Other
TPH-G
BTEX
MTBE
Total Pb

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-G	BTEX	MTBE	Total Pb	Comments
1. P-1	7/30/98	SOIL	1	BRASS TUBE	8072232	✓	✓	✓	✓	
2. P-2	↓	↓	1	↓	8072233	✓	✓	✓	✓	
3. P-3	↓	↓	1	↓	8072234	✓	✓	✓	✓	
4. P-4	↓	↓	1	↓	8072235	✓	✓	✓	✓	
5. P-5	↓	↓	1	↓	8072236	✓	✓	✓	✓	
6. OWS(5.5)	↓	↓	1	↓	8072237	✓	✓	✓	✓	
7.										
8.										
9.										
10.										

Relinquished By: *[Signature]* Date: **7/30/98** Time: _____ Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By Lab: **T. Hawkins** Date: **7/30** Time: **1510**



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
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Redwood City, CA 94063
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Sacramento, CA 95834
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco BP#11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 808-0844

Sampled: Aug 7, 1998
Received: Aug 7, 1998
Reported: Aug 25, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 808-0844 OP-1	Sample I.D. 808-0845 OP-2	Sample I.D. 808-0846 OP-3	Sample I.D. 808-0847 OP-4	Sample I.D. 808-0848 OP-5	Sample I.D. 808-0849 OP-6
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	6.3	2.9
Benzene	0.0050	N.D.	N.D.	N.D.	0.0064	0.18	0.064
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.	0.027	0.017
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	0.064	0.055
Total Xylenes	0.0050	N.D.	N.D.	N.D.	0.035	0.13	0.15
MTBE	0.050	N.D.	N.D.	0.23	N.D.	0.10	N.D.
Chromatogram Pattern:		--	--	--	--	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	8/17/98	8/17/98	8/17/98	8/17/98	8/17/98	8/17/98
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	99	101	108	107	120	100

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



Sequoia Analytical

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

Client Project ID: Tosco BP#11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 808-0850

Sampled: Aug 7, 1998
Received: Aug 7, 1998
Reported: Aug 25, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 808-0850 OP-7	Sample I.D. 808-0851 OP-8
Purgeable Hydrocarbons	1.0	13	3.6
Benzene	0.0050	0.36	0.030
Toluene	0.0050	0.048	0.013
Ethyl Benzene	0.0050	1.0	0.11
Total Xylenes	0.0050	0.42	0.068
MTBE	0.050	0.26	0.051
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	8/17/98	8/17/98
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	83	102

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



Sequoia Analytical

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil
Analysis for: Lead
First Sample #: 808-0844

Sampled: Aug 7, 1998
Received: Aug 7, 1998
Digested: Aug 19, 1998
Analyzed: Aug 20, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
808-0844	OP-1	1.0	8.9
808-0845	OP-2	1.0	7.7
808-0846	OP-3	1.0	7.5
808-0847	OP-4	1.0	6.5
808-0848	OP-5	1.0	10
808-0849	OP-6	1.0	7.9
808-0850	OP-7	1.0	550
808-0851	OP-8	1.0	6.6

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8080844-851

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010
Analyst:	A. Kemp	A. Kemp	A. Kemp	A. Kemp	J. Kelly

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Batch#:	8081354	8081354	8081354	8081354	8081713
Date Prepared:	8/17/98	8/17/98	8/17/98	8/17/98	8/19/98
Date Analyzed:	8/17/98	8/17/98	8/17/98	8/17/98	8/20/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-3
Conc. Spiked:	0.80 mg/kg	0.80 mg/kg	0.80 mg/kg	2.4 mg/kg	50 mg/kg
Matrix Spike % Recovery:	103	106	108	108	88
Matrix Spike Duplicate % Recovery:	104	108	109	113	84
Relative % Difference:	1.2	1.2	1.2	3.8	3.6

LCS Batch#:	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
LCS Batch#:	4LCS081898	4LCS081898	4LCS081898	4LCS081898	LCS081898
Date Prepared:	8/18/98	8/18/98	8/18/98	8/18/98	8/19/98
Date Analyzed:	8/18/98	8/18/98	8/18/98	8/18/98	8/20/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-3
LCS % Recovery:	105	109	108	113	104

% Recovery Control Limits:	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
% Recovery Control Limits:	50-150	50-150	50-150	50-150	80-120

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, #1271

Julianne Fegley
Project Manager



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: TOSCO (FORMER BP) # 11116	
Address: 6747 Sierra Ct., Suite J		Billing Address (if different): 9808211	
City: DUBLIN	State: CA	Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY
Telephone: (925) 551-7555		P.O. #: 7197 VILLAGE PKWY - DUBLIN, CA	
FAX #: 551-7888		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	
Report To: HAIG KEVORK	Sampler: HAIG KEVORK		

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

Drinking Water Waste Water Other
 Analyses Requested:

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-G	BTEX	MTBE	TOTAL Pb	Comments
1. OP-1	8/7/98	SOIL	1	BRASS TUBE	8080844	✓	✓	✓	✓	
2. OP-2			1		8080845	✓	✓	✓	✓	
3. OP-3			1		8080846	✓	✓	✓	✓	
4. OP-4			1		8080847	✓	✓	✓	✓	
5. OP-5			1		8080848	✓	✓	✓	✓	
6. OP-6			1		8080849	✓	✓	✓	✓	
7. OP-7			1		8080850	✓	✓	✓	✓	
8. OP-8			1		8080851	✓	✓	✓	✓	
9.										
10.										

Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <i>[Signature]</i>	Date: <i>8/7</i>	Time: <i>12:00</i>

Pink - Client
 Yellow - Sequoia
 White - Sequoia



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 807-2229

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Reported: Aug 20, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 807-2229 Comp A	Sample I.D. 807-2230 Comp B
Purgeable Hydrocarbons	1.0	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.
Toluene	0.0050	0.012	0.0072
Ethyl Benzene	0.0050	N.D.	N.D.
Total Xylenes	0.0050	0.024	0.015
MTBE	0.050	N.D.	N.D.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	8/11/98	8/11/98
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	112	108

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
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(707) 792-1865

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FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod.
First Sample #: 807-2231

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Reported: Aug 20, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 807-2231 Comp WO
Purgeable Hydrocarbons	1.0	N.D.

Chromatogram Pattern: --

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	8/11/98
Instrument Identification:	HP-4
Surrogate Recovery: (QC Limits = 40-140%)	105

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 807-2231

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Reported: Aug 20, 1998

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 807-2231 Comp WO
Extractable Hydrocarbons	1.0	N.D.

Chromatogram Pattern: --

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	8/10/98
Date Analyzed:	8/11/98
Instrument Identification:	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Matrix Descript: Soil
Analysis Method: SM 5520 E&F (Gravimetric)
First Sample #: 807-2231

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Extracted: Aug 5, 1998
Analyzed: Aug 6, 1998
Reported: Aug 20, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
807-2231	Comp WO	N.D.	1.0

Detection Limits:

50

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, Comp WO
Analysis Method: EPA 5030/8010
Lab Number: 807-2231

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Analyzed: Aug 5, 1998
Reported: Aug 20, 1998

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg	
Bromodichloromethane.....	10	N.D.	
Bromoform.....	10	N.D.	
Bromomethane.....	20	N.D.	
Carbon tetrachloride.....	10	N.D.	
Chlorobenzene.....	10	N.D.	
Chloroethane.....	20	N.D.	
Chloroform.....	10	N.D.	
Chloromethane.....	20	N.D.	
Dibromochloromethane.....	10	N.D.	
1,2-Dichlorobenzene.....	10	N.D.	
1,3-Dichlorobenzene.....	10	N.D.	
1,4-Dichlorobenzene.....	10	N.D.	
1,1-Dichloroethane.....	10	N.D.	
1,2-Dichloroethane.....	10	N.D.	
1,1-Dichloroethene.....	10	N.D.	
cis-1,2-Dichloroethene.....	10	N.D.	
trans-1,2-Dichloroethene.....	10	N.D.	
1,2-Dichloropropane.....	10	N.D.	
cis-1,3-Dichloropropene.....	10	N.D.	
trans-1,3-Dichloropropene.....	10	N.D.	
Methylene chloride.....	150 *	N.D.	
1,1,2,2-Tetrachloroethane.....	10	N.D.	
Tetrachloroethene.....	10	N.D.	
1,1,1-Trichloroethane.....	10	N.D.	
1,1,2-Trichloroethane.....	10	N.D.	
Trichloroethene.....	10	N.D.	
Trichlorofluoromethane.....	10	N.D.	
Vinyl chloride.....	20	N.D.	
Surrogates	Control Limit %	% Recovery	
Dibromodifluoromethane.....	50	150.....	74
4-Bromofluorobenzene.....	50	150.....	85

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager

Please Note
* Methylene Chloride was detected in the method blank at 140 µg/kg



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, Comp WO
Analysis Method: EPA 8270
Lab Number: 807-2231

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Extracted: Aug 6, 1998
Analyzed: Aug 6, 1998
Reported: Aug 20, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzidine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
Benzo(g,h,i)perylene.....	100	N.D.
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, Comp WO
Analysis Method: EPA 8270
Lab Number: 807-2231

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Extracted: Aug 6, 1998
Analyzed: Aug 6, 1998
Reported: Aug 20, 1998

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	100	N.D.
Fluorene.....	100	N.D.
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
Isophorone.....	100	N.D.
2-Methylnaphthalene.....	100	N.D.
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	N.D.
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodimethylamine.....	100	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
Phenanthrene.....	100	N.D.
Phenol.....	100	N.D.
Pyrene.....	100	N.D.
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.

Surrogates	Control Limit %	% Recovery
2-Fluorophenol.....	25	121
Phenol-d6.....	24	113
Nitrobenzene-d5.....	23	120
2-Fluorobiphenyl.....	30	115
2,4,6-Tribromophenol.....	19	122
4-Terphenyl-d14.....	18	137

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
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Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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(707) 792-1865

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FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil
Analysis for: Lead
First Sample #: 807-2229

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Digested: Aug 11, 1998
Analyzed: Aug 11, 1998
Reported: Aug 20, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
807-2229	Comp A	1.0	5.5
807-2230	Comp B	1.0	4.1

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
404 N. Wiget Lane
819 Striker Avenue, Suite 8
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Redwood City, CA 94063
Walnut Creek, CA 94598
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Petaluma, CA 94954

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

Client Project ID: Tosco BP#11116, Dublin
Sample Descript: Soil, Comp WO
Lab Number: 807-2231

Sampled: Jul 30, 1998
Received: Jul 30, 1998
Digested: Aug 11, 1998
Analyzed: Aug 11, 1998
Reported: Aug 20, 1998

LUFT METALS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.50	N.D.
Chromium.....	0.50	6.8
Lead.....	1.0	5.6
Nickel.....	1.0	41
Zinc.....	1.0	28

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8072229-231

Reported: Aug 20, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	K. Grubb	L. Diaz

MS/MSD Batch#:	8072231	8072231	8072231	8072231	BLK081098	8080199
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/10/98	8/5/98
Date Analyzed:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98	8/5/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	Manual
Conc. Spiked:	0.80 mg/kg	0.80 mg/kg	0.80 mg/kg	2.4 mg/kg	15 mg/kg	5000 mg/kg
Matrix Spike % Recovery:	88	93	95	50	80	112
Matrix Spike Duplicate % Recovery:	88	93	93	50	87	110
Relative % Difference:	0.0	0.0	2.7	0.0	8.0	1.8

LCS Batch#:	4LCS081198	4LCS081198	4LCS081198	4LCS081198	-	LCS080598B
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	-	8/5/98
Date Analyzed:	8/11/98	8/11/98	8/11/98	8/11/98	-	8/5/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	-	Manual
LCS % Recovery:	98	101	101	104	-	92

% Recovery Control Limits:	50-150	50-150	50-150	50-150	60-140	60-140
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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, #1271

Julianne Fegley

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8072229-231

Reported: Aug 20, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Lead	Nickel	Zinc
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly

MS/MSD	Cadmium	Chromium	Lead	Nickel	Zinc
Batch#:	8072121	8072121	8072121	8072121	8072121
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Date Analyzed:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Instrument I.D.#:	MV-3	MV-3	MV-3	MV-3	MV-3
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg
Matrix Spike					
% Recovery:	94	40	93	0	86
Matrix Spike Duplicate %					
Recovery:	88	*	89	0	84
Relative % Difference:	6.6	31	4.1	0.0	1.6

LCS Batch#:	LCS081198	LCS081198	LCS081198	LCS081198	LCS081198
Date Prepared:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Date Analyzed:	8/11/98	8/11/98	8/11/98	8/11/98	8/11/98
Instrument I.D.#:	MV-3	MV-3	MV-3	MV-3	MV-3
LCS % Recovery:	106	104	110	102	104

% Recovery Control Limits:	Cadmium	Chromium	Lead	Nickel	Zinc
	80-120	80-120	80-120	80-120	80-120

Please Note

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** MS= Matrix Spike, MSD= MS Duplicate RPD= Relative % Difference

* Value undeterminable due to matrix interference and/or concentration in sample

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8072229-231

Reported: Aug 20, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8020	EPA 8020	EPA 8020
Analyst:	P. Kosovskaya	P. Kosovskaya	P. Kosovskaya	P. Kosovskaya	P. Kosovskaya	P. Kosovskaya

MS/MSD	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Batch#:	8072231	8072231	8072231	8072231	8072231	8072231
Date Prepared:	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98
Date Analyzed:	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
Conc. Spiked:	200 µg/kg	200 µg/kg	200 µg/kg	200 µg/kg	200 µg/kg	200 µg/kg
Matrix Spike % Recovery:	95	95	85	80	80	70
Matrix Spike Duplicate % Recovery:	95	95	85	80	80	75
Relative % Difference:	0.0	0.0	0.0	0.0	0.0	6.9

LCS Batch#:	LCS080598	LCS080598	LCS080598	LCS080598	LCS080598	LCS080598
Date Prepared:	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98
Date Analyzed:	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
LCS % Recovery:	95	100	90	85	80	75

% Recovery Control Limits:	65-135	70-130	70-130	70-130	70-130	70-130
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Please Note
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SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager



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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8072229-231

Reported: Aug 20, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Batch#:	8080110	8080110	8080110	8080110	8080110	8080110
Date Prepared:	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98
Date Analyzed:	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	3300 µg/kg	3300 µg/kg	3300 µg/kg	5000 µg/kg
Matrix Spike % Recovery:	64	72	67	85	76	78
Matrix Spike Duplicate % Recovery:	64	70	67	82	76	74
Relative % Difference:	0.0	2.8	0.0	3.6	0.0	5.3
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
BLK080698	BLK080698	BLK080698	BLK080698	BLK080698	BLK080698	BLK080698
Date Prepared:	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98
Date Analyzed:	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	66	72	73	88	79	80

% Recovery Control Limits:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
	26-90	25-102	28-104	41-126	38-107	25-103

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager

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

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 8072229-231

Reported: Aug 20, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz

MS/MSD	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Batch#:	8080110	8080110	8080110	8080110	8080110
Date Prepared:	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98
Date Analyzed:	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	3300 µg/kg	5000 µg/kg	3300 µg/kg	5000 µg/kg	3300 µg/kg

Matrix Spike % Recovery:	79	74	79	96	94
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Matrix Spike Duplicate % Recovery:	76	74	76	96	88
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Relative % Difference:	3.9	0.0	3.9	0.0	6.7
RPD Limit:	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	BLK080698	BLK080698	BLK080698	BLK080698	BLK080698
Date Prepared:	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98
Date Analyzed:	8/6/98	8/6/98	8/6/98	8/6/98	8/6/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1

LCS % Recovery:	82	80	79	98	88
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% Recovery Control Limits:	31-137	11-114	28-89	17-109	35-142
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SEQUOIA ANALYTICAL, #1271
Julianne Fegley
Julianne Fegley
Project Manager



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: TOSCO (FORMER BP) NO. 1116		
Address: 6747 Sierra Ct., Suite J			Billing Address (if different): 9807537		
City: DUBLIN	State: CA	Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY		
Telephone: (925) 551-7555 FAX #: 551-7888			P.O. #:		
Report To: HAIG KEVORK Sampler: HAIG KEVORK			QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours

Time: 7 Working Days 2 Working Days

5 Working Days 24 Hours

Analyses Requested

Drinking Water Waste Water Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-G	BTEX	Total Pb	TPH-D/IOG	8010	8210	Cd/Cr/Zn	Comments
1. Comp A	7/30/98	SOIL	4	BRASS TUBES		✓	✓	✓					8072229 AD
2. Comp B	↓	↓	4	↓		✓	✓	✓					8072230 ↓
3. Comp WO	↓	↓	4	↓		✓	✓	✓	✓	✓	✓	✓	8072231 ↓
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <i>[Signature]</i>	Date: 7/30	Time: 1415

Pink - Client
Yellow - Sequoia
White - Sequoia



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (707) 792-0342

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

Client Project ID: Tosco BP#11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 808-1070

Sampled: Jul 30, 1998
Relogged: Aug 7, 1998
Reported: Aug 27, 1998

MTBE DETERMINATION

Analyte	Reporting Limit mg/kg	Sample I.D. 808-1070 Comp A	Sample I.D. 808-1071 Comp B	Sample I.D. 808-1072 Comp WO
MTBE	0.050	N.D.	N.D.	N.D.

Chromatogram Pattern: -- -- --

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	8/11/98	8/11/98	8/11/98
Instrument Identification:	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	112	108	105

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (707) 792-0342

REQUEST TO RELOG SAMPLES

(Please submit to sample control with a copy of the COC)

9808276

CLIENT: Gettler Ryan

MATRIX: Soil

PREVIOUSLY LOGGED SAMPLES

TAT Change status to: 10 days
Change status as of Day: 8/7/98 Time: 5:30 PM

CHANGE ANALYSES

Add Analyses

Cancel Analyses

Sequoia Project ID: 9807537

8081070

Sample Number 8072229 Analyses MTBE (8020)

8081071

Sample Number 8072230 Analyses MTBE (8020)

8081072

Sample Number 8072231 Analyses MTBE (8020)

NA NA

NA NA

NA NA

NA NA

SAMPLES ON HOLD

Sample Description NA Analyses NA

NA NA

NA NA

NA NA

NA NA

NA NA

NA NA

NA NA

NA NA

NA NA

Client Authorization (Person/Date/Time) Haig Kevork 8/7/98 5:30 PM

Project Manager. JCF



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-1200
 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) 988-9613

9808276

Company Name: GETTLER-RYAN INC.	Project Name: TOSCO (FORMER BP) NO. 11116
Address: 6147 Sierra Ct., Suite J	Billing Address (if different): 9807537
City: DUBLIN State: CA Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY
Telephone: (925) 551-7555 FAX #: 551-7888	P.O. #:
Report To: HAIG-KEVORK Sampler: HAIG-KEVORK	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A

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

Drinking Water
 Waste Water
 Other

Analyses Requested

TPH-G
 BTEX
 Total Pb
 TPH-D/TOG
 8010
 8210
 Cd/Cr/
 Ni/
 Zn

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-G	BTEX	Total Pb	TPH-D/TOG	8010	8210	Cd/Cr/ Ni/ Zn	Comments
1. Comp A	7/30/98	SOIL	4	BRASS TUBES		✓	✓	✓					8072229 AD
2. Comp B	↓	↓	4	↓		✓	✓	✓					8072230
3. Comp WO	↓	↓	4	↓		✓		✓	✓	✓	✓	✓	8072231
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <i>[Signature]</i>	Date: 11/10	Time: 1615

Print - Client
Value - Sequoia
Write - Sequoia



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
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Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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

Client Project ID: Tosco BP#11116, Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 808-0825

Sampled: Aug 7, 1998
Received: Aug 7, 1998
Reported: Aug 25, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 808-0825 Comp C
Purgeable Hydrocarbons	1.0	1.0
Benzene	0.0050	N.D.
Toluene	0.0050	0.0075
Ethyl Benzene	0.0050	N.D.
Total Xylenes	0.0050	0.24
MTBE	0.050	N.D.

Chromatogram Pattern: Unidentified Hydrocarbons C6 - C12

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	8/17/98
Instrument Identification:	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	101

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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

Client Project ID: Tosco BP #11116, Dublin
Sample Descript: Soil
Analysis for: Lead
First Sample #: 808-0825

Sampled: Aug 7, 1998
Received: Aug 7, 1998
Digested: Aug 19, 1998
Analyzed: Aug 20, 1998
Reported: Aug 25, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
808-0825	Comp C	1.0	8.8

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
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Redwood City, CA 94063
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Haig Kevork

Client Project ID: Tosco BP#11116, Dublin
Matrix: Solid

QC Sample Group: 808-0825

Reported: Aug 25, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010
Analyst:	A. Kemp	A. Kemp	A. Kemp	A. Kemp	J. Kelly

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Batch#:	8081354	8081354	8081354	8081354	8081713
Date Prepared:	8/17/98	8/17/98	8/17/98	8/17/98	8/19/98
Date Analyzed:	8/17/98	8/17/98	8/17/98	8/17/98	8/20/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-3
Conc. Spiked:	0.80 mg/kg	0.80 mg/kg	0.80 mg/kg	2.4 mg/kg	50 mg/kg
Matrix Spike % Recovery:	103	106	108	108	88
Matrix Spike Duplicate % Recovery:	104	108	109	113	84
Relative % Difference:	1.2	1.2	1.2	3.8	3.6

LCS Batch#:	4LCS081798	4LCS081798	4LCS081798	4LCS081798	LCS081898
Date Prepared:	8/17/98	8/17/98	8/17/98	8/17/98	8/19/98
Date Analyzed:	8/17/98	8/17/98	8/17/98	8/17/98	8/20/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-3
LCS % Recovery:	101	104	103	104	104

% Recovery Control Limits:	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
	50-150	50-150	50-150	50-150	80-120

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, #1271

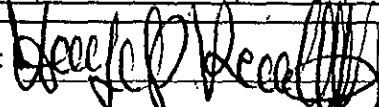

Julianne Fegley
Project Manager

Company Name: GETTLER-RYAN INC.			Project Name: TOSCO (FORMER BP) #11116		
Address: 6747 Sierra Ct, Suite J			Billing Address (if different): 9808198		
City: DUBLIN	State: CA	Zip Code: 94568	TOSCO PROJECT MANAGER: TINA BERRY		
Telephone: (925) 551-7555 FAX #: 551-7888			P.O. #: 7197 VILLAGE PKWY - DUBLIN, CA		
Report To: HAIG KEVORK		Sampler: HAIG KEVORK		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

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

Drinking Water Waste Water Other
 Analyses Requested:

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested				Comments
						TPH-G	BIEX	MTBE	TOTAL Pb	
1. Comp C	8/7/98	SOIL	4	BRASS TUBES	8080825	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By: 	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: 	Date: 8/7	Time: 1720

Pink - Client
 Yellow - Sequoia
 White - Sequoia