



July 26, 2005

Mr. Don Strough
Strough Family Trust of 1983
PO Box 489
Orinda, CA 94563

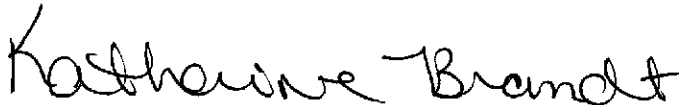
RE: Strough Family Trust-327 34th Street, Oakland, California
Site ID# 3035

Dear Mr. Strough,

ETIC Engineering, Inc. is pleased to submit the enclosed copy of the *Second Quarter 2005 Groundwater Monitoring and Interim Remedial Action Report* for the above-referenced site. We have distributed additional copies of the report as noted below.

ETIC appreciates the opportunity to provide the Strough Family Trust of 1983 with environmental consulting services. If you have any questions or comments, please contact me at (510) 208-1600, extension 11.

Sincerely,
ETIC Engineering, Inc.



Katherine Brandt
Project Manager

Alameda County
JUL 28 2005
Environmental Health

Cc: Mr. Gregory Brandt, Esq., Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607
Mr. Jonathan Redding, Esq., Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607
Mr. Don Hwang, Hazardous Materials Specialist, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, California 94502-6577



**SECOND QUARTER 2005
GROUNDWATER MONITORING
AND INTERIM REMEDIAL ACTION REPORT**

**FORMER VAL STROUGH CHEVROLET
327 34th STREET
OAKLAND, CALIFORNIA**

Prepared For:

Mr. Don Strough
Strough Family Trust of 1983
PO Box 489
Orinda, California 94563

Prepared By:

ETIC Engineering, Inc.
1333 Broadway, Suite 1015
Oakland, California 94612

July 26, 2005

*Alameda County
JUL 28 2005
Environmental Health*



**Second Quarter 2005
Groundwater Monitoring and
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A handwritten signature in cursive script, reading "Katherine Brandt", written over a horizontal line.

Katherine Brandt
Project Manager

A handwritten signature in cursive script, reading "Leslie Pawlak", written over a horizontal line.

Leslie Pawlak
Staff Geologist

A handwritten signature in cursive script, reading "Matthew Janowiak", written over a horizontal line.

Matthew Janowiak, R.G.
Senior Geologist

R.G. #5483

EXP 9/30/2006



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SITE CONTACTS

Site Name: Former Val Strough Chevrolet

Site Address: 327 34th Street
Oakland, California

Consultant: ETIC Engineering, Inc.
1333 Broadway, Suite 1015
Oakland, California 94612
(510) 208-1600

ETIC Project Manager: Katherine A. Brandt

Regulatory Oversight: Don Hwang
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(510) 567-6746



1.0 INTRODUCTION

At the request of the Strough Family Trust of 1983, ETIC Engineering, Inc. has prepared this *Second Quarter 2005 Groundwater Monitoring and Interim Remedial Action Report* for the former Val Strough Chevrolet site located in Oakland, California. This report documents the procedures and findings of the 15 June 2005 groundwater monitoring event. This report summarizes the operation of the temporary High Vacuum Dual Phase Extraction (DPE) system at the site. Groundwater monitoring results, well construction details, and groundwater monitoring plan are provided in the figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the appendices.

1.1 GENERAL SITE INFORMATION

Site name:	Former Val Strough Chevrolet
Site address:	327 34 th Street, Oakland, California
Current property owner:	Strough Family Trust of 1983
Current site use:	Automotive Dealership and Service Center
Current phase of project:	Groundwater monitoring, temporary DPE system operation
Tanks at site:	Two former tanks (1 gasoline, 1 waste-oil) removed in 1993
Number of wells:	7 (all onsite), DPE from wells MW2 and MW3



2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

Site Location and Land Use: The former Val Strough Chevrolet site is an automobile dealership and service center located on the southwest corner of the intersection of Broadway (Auto Row) and 34th Street (see Figure 1). The site is an active Honda dealership. The property is located south of Interstate 580. Land use in the area is primarily commercial.

The site is located at an elevation of approximately 61 feet above mean sea level (Environmental Data Resources, Inc. [EDR], 2003), and topography slopes slightly toward the south. The site is located approximately 2 miles east of the San Francisco Bay. The nearest surface water body is Lake Merritt, which is located approximately 1 mile south of the site (see Figure 1).

Site Features: The site consists of a multi-story building with adjacent parking lot (see Figure 2). The former underground storage tanks (USTs) and fuel dispenser were located near the northwestern portion of the site. Seven monitoring wells and several soil borings are located at the site. Well construction details for the site wells are presented in Table 1.

Underground Utilities: A box culvert for a former tributary of Glen Echo Creek that drains to Lake Merritt is located beneath the parking lot near Broadway (see Figure 2). The box culvert consists of a reinforced concrete box measuring 5 feet by 6 feet. The depth of the top of the culvert is approximately 17 feet below ground surface (bgs). During the winter of 1983, a section of the culvert caved in and was replaced with a 5-foot-diameter pipe.

Other utilities at the site, namely sanitary sewer, electrical, and natural gas, are generally less than two feet bgs. A storm drain flows to the east along the northern border of 34th Street, approximately 40 feet north of the site, and is diverted into the box culvert. A sanitary sewer lateral from the site connects to a sanitary sewer line running beneath 34th Street approximately 40 feet north of the site. A second sanitary sewer line runs beneath the southern portion of the site building. These sanitary sewer lines connect to a main line which runs beneath Broadway. The natural gas service is located on the east side of the property. The water service appears to enter the site from the north.

Water Supply Well Search: The EDR Report (2003) indicated that there are no federal U.S. Geological Survey wells and no public water supply wells located within a 1-mile radius of the site. No water supply wells were identified by the Alameda County Department of Public Works within a ½-mile radius of the site.

2.2 SUMMARY OF PREVIOUS INVESTIGATIONS AND MONITORING ACTIVITIES

As presented in previous reports, the USTs were removed and multiple investigations, including installation of seven monitoring wells, were conducted. In addition, a routine groundwater monitoring program has been in place since 1993. The following summarizes the findings of these activities.

Site Hydrogeology: In general, the site is underlain by silt and clay to depths ranging from 15 to 20 feet bgs. Silty sand and fine-grained sand mixed with thin clay intervals are encountered from approximately 20 feet bgs to the total explored depth of 35 feet bgs.

Groundwater is typically measured at 17 to 23 feet bgs in the site wells. As shown in the modified rose diagram on Figure 2, the historic monitoring data indicate a prevailing groundwater flow direction toward the southwest, with an average hydraulic gradient of approximately 0.02 to 0.03 foot/foot. It should be noted that groundwater flow does not appear to be significantly influenced by underground utilities, including the box culvert (see Figure 2).

Primary Sources: Two USTs (one gasoline and one used oil) were located beneath the sidewalk along 34th Street on the north side of the property. A fuel dispenser was located inside the building (see Figure 2). These primary sources of hydrocarbons were removed from the site in 1993.

Constituents of Potential Concern: Based on the material stored in the USTs and the results of previous subsurface investigations at the site, the constituents of potential concern (COPCs) at the site include Total Petroleum Hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl t-butyl ether (MTBE). TPH as diesel (TPH-d) and TPH as motor oil (TPH-mo) are not routinely reported in groundwater samples and are considered secondary COPCs for the site.

Residual Source Area: Separate phase hydrocarbons (SPH) have been intermittently observed in wells MW2 and MW3, and elevated concentrations of TPH-g, BTEX, and MTBE are limited to the vadose and capillary fringe soils adjacent to the former UST and fuel dispenser, near these wells. These findings indicate that most of the residual hydrocarbon mass is localized near the former USTs and fuel dispenser, herein referred to as the source area.

Hydrocarbon Distribution in Groundwater: The hydrocarbon mass in groundwater within the source area is defined by wells MW2, MW3 and MW4. SPH has been historically observed only in monitoring wells MW2 and MW3 (see Table 2). Due to the SPH presence, groundwater has not been regularly sampled in source area wells MW2 and MW3 during most of the recent monitoring events. SPH has not been measured in nearby monitoring wells MW1 (approximately 50 feet east of MW2 and 50 feet northeast of MW3) and MW4 (approximately 50 feet southeast of MW3) (see Table 2). The relatively low and stable/decreasing dissolved concentration levels reported in well MW4 define the extent of the source area.

The extent of dissolved hydrocarbons in groundwater is largely defined by downgradient and crossgradient monitoring wells MW5, MW6, and MW7, which show stable concentrations of TPH-g, BTEX, and MTBE over the last three years (see Table 2). Fuel oxygenates (Tertiary Amyl Methyl Ether, Ethyl Tertiary Butyl Ether, Di-Isopropyl Ether, and Tertiary Butyl Alcohol and Ethanol) and lead scavengers (Ethylene Dibromide and Ethylene Dichloride) were near or below reporting limits in previously analyzed grab groundwater samples for the site (see Table 3). These data suggest that hydrocarbons in groundwater are largely limited to within the property boundaries and that the plume is stable and has limited potential for offsite migration.

DPE Pilot Test: In March 2004, ETIC performed a DPE pilot test at the site. As summarized in the June 2004 *Dual Phase Extraction Pilot Test and Interim Remedial Action Plan* (DPE Report and IRAP), vacuum was applied to source area wells MW2 and MW3 while water and vacuum levels were observed in nearby monitoring wells. The DPE pilot test induced more than 1 foot of drawdown up to 50 feet from the extraction wells and an estimated radius of vacuum influence of 55 to 70 feet. Based on vapor flowrates and hydrocarbon concentrations in the vapor stream during the short-term pilot test, removal rates of approximately 90 pounds of hydrocarbons per day were estimated. These findings suggest that DPE from wells MW2 and MW3 can successfully remove hydrocarbons from the site subsurface and induce vacuum influence across the source area.

Interim Remedial Action: The DPE Report and IRAP described the planned reduction of residual petroleum hydrocarbon mass in the source area through temporary DPE system installation and operation. In brief, the remediation scheme consists of a liquid ring pump which applies high vacuum to source area wells MW2 and MW3 to extract soil vapor and groundwater simultaneously. A knockout vessel is used to separate the soil vapor and water streams and the extracted vapor is treated using a thermal oxidizer (with propane as a supplemental fuel); extracted water is treated using aqueous-phase granular activated carbon. The DPE system is currently operating and initial field readings indicate successful mass removal from the source area wells.

20 August 2004 ACHCSA Correspondence: In a 20 August 2004 correspondence, the ACHCSA provided general concurrence with the scope of work presented in the DPE Report and IRAP and requested performance of additional activities, including preparation of a work plan for source characterization and shallow soil remediation. In the 26 October 2004 *Technical Memorandum*, ETIC presented a review of site data and concluded that the source area was adequately characterized and that the planned DPE interim remedial action would address the shallow soil remediation requested by the ACHCSA.

4 February 2005 ACHSCA Correspondence: In a 4 February 2005 correspondence, the ACHCSA provided concurrence with initiation of DPE interim remedial activities and requested an Addendum to the Interim Remedial Action Plan for verification monitoring of DPE interim remediation. The following summarizes ETIC's response to this request.



During operation, hydrocarbon concentrations in vapor and water are anticipated to decline, resulting in reduction in mass removal rates. As mass removal rates near asymptotic levels, DPE operations will cease temporarily (2 to 4 weeks) to allow the subsurface to re-equilibrate. Following re-equilibration, the site data will be evaluated and if warranted the system will be restarted and operated until mass removal rates again near asymptotic levels. This process may be repeated. As described in ETIC's 24 June 2004 DPE Report and IRAP, the effectiveness of interim remedial action activities will be evaluated through multiple lines of evidence. The following provides a brief summary:

- Extracted water entering and exiting the carbon vessels will be analyzed on a biweekly basis to comply with EBMUD permit conditions and to evaluate carbon breakthrough. These data will also be used with groundwater extraction rates to evaluate mass removal rates in the aqueous phase.
- Extracted vapors entering and exiting the thermal oxidizer will be monitored using a photoionization detector (PID) on a weekly basis to comply with Bay Area Air Quality Management District (BAAQMD) permit conditions and determine the effectiveness of the treatment system. These data, along with monthly laboratory analyses of vapor samples, will be used with vapor extraction rates to evaluate mass removal rates in the vapor phase.
- Groundwater monitoring at the site, including extraction wells MW2 and MW3, will continue on a quarterly basis. Additional groundwater samples from these extraction wells will be collected intermittently to evaluate the effectiveness of the DPE system. The absence of SPH and declining hydrocarbon concentrations in these wells will also be used to evaluate the system effectiveness.

3.0 PROTOCOLS FOR GROUNDWATER MONITORING

The following sections of this report present information relevant to the methods employed during the collection of groundwater samples from site wells. The scope of work for the quarterly groundwater monitoring event at the site included:

- Checking for SPH in the wells.
- Gauging depth to groundwater in the wells.
- Purging wells to be sampled.
- Collecting and analyzing groundwater samples from scheduled wells with no observed SPH.
- Calculating the groundwater gradient and flow direction.
- Preparing this report summarizing the results of the monitoring event.

3.1 GROUNDWATER GAUGING

The wells were opened prior to gauging to allow the groundwater level to equilibrate with atmospheric pressure. The depth to groundwater and depth to SPH, if present, were then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements were made from a permanent reference point at the top of the well casing.

The groundwater elevation map (see Figure 2) for this monitoring event was constructed using depth-to-groundwater measurements collected during the current sampling event. Depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 2. Field data forms are presented in Appendix B.

3.2 WELL PURGING

Approximately three well casing volumes of water were purged from each well (except MW2 and MW3 due to system operations) using a WaTerra inertial pump. Field parameters including pH, temperature, and electrical conductance were measured during purging. After purging and prior to sampling, the water level was checked to ensure that the well had recharged to at least 80 percent of its pre-purge water level. Field protocols are presented in Appendix A.

3.3 GROUNDWATER SAMPLING

After purging, groundwater in each well was sampled using dedicated tubing and a WaTerra inertial pump or a disposable bailer (MW2 and MW3). The samples were submitted to STL San Francisco of Pleasanton, California (STL), a state-certified laboratory. Groundwater analytical results and chain-of-custody documentation are presented in Appendix C.



4.0 MONITORING RESULTS

4.1 SEPARATE-PHASE HYDROCARBON MONITORING

Wells were monitored for the presence of SPH using a disposable bailer and/or interface probe. SPH was not observed in sampled monitoring wells.

4.2 GROUNDWATER ELEVATION AND GRADIENT

Groundwater elevations in the site wells during this monitoring event ranged from 52.63 feet above mean sea level (amsl) at well MW5 to 42.00 feet amsl at well MW6 (see Figure 2). Based on the depth of the stingers, the groundwater elevations were approximately 44.81 feet amsl and 44.86 feet amsl in extraction wells MW2 and MW3, respectively. Groundwater elevations show the localized influence of the DPE system operation (see Figure 2). The groundwater gradient is approximately 0.02 and flow direction is towards the southwest. At the request of the ACHCSA, a rose diagram depicting historic groundwater gradient and direction is also presented on Figure 2.

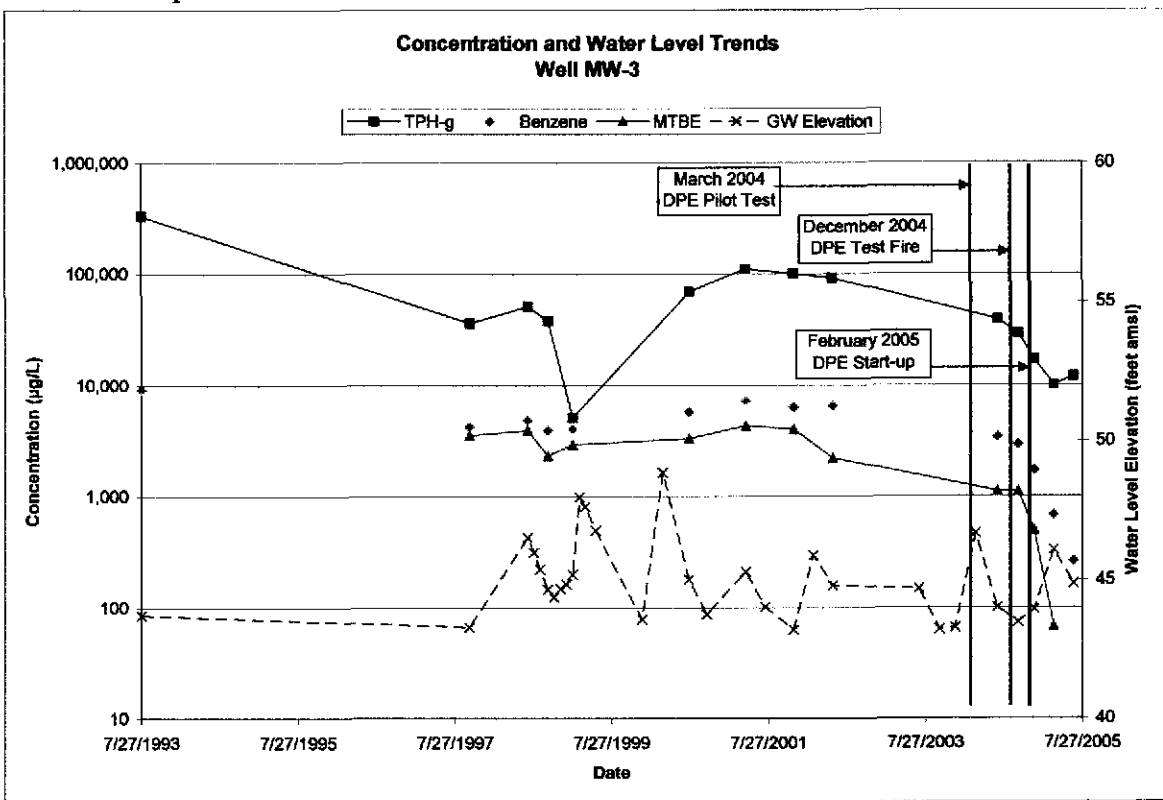
4.3 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from wells MW2, MW3, and MW4. Samples were analyzed by STL for TPH-g, BTEX, and MTBE by EPA Method 8260B. TPH-d with Silica Gel Clean-up and TPH-mo were analyzed by modified EPA Method 8015. Analytical results for this and prior monitoring events are presented in Table 2. Analytical results for this monitoring event are presented on Figure 3.

4.4 FINDINGS OF GROUNDWATER MONITORING

The following observations are made comparing the results of the June 2005 monitoring event with the results of the previous monitoring events. Note that the DPE system was operational from 23 February 2005.

- SPH was not detected in site monitoring wells during the June 2005 monitoring event. The last time that SPH was observed was during the December 2004 monitoring event, when SPH was observed in wells MW2 (1/4-inch thickness) and MW3 (sheen).
- Compared to the previous quarter, concentrations of TPH-g have increased from 43,000 µg/L to 120,000 µg/L in MW2, from 10,000 µg/L to 12,000 µg/L in MW3, and from 930 µg/L to 2,100 µg/L in MW4. BTEX concentrations ranged from 2,400 µg/L to 22,000 µg/L in well MW2 and from 260 µg/L to 1,400 µg/L in well MW3.
- MTBE concentrations ranged from 31 µg/L in well MW3 to 1,100 µg/L in well MW4. These findings indicate that MTBE has increased in MW2 and MW4, but has decreased in MW 3.
- TPH-d concentrations of 13,000 µg/L (MW2), 1,200 µg/L (MW3), and 89 µg/L (MW4) were reported.
- TPH-mo concentrations were below laboratory reporting limits in each of the monitoring wells sampled.





5.0 INTERIM REMEDIAL ACTION SUMMARY

5.1 DPE SYSTEM INSTALLATION AND OPERATIONAL STATUS

Permits: Appropriate BAAQMD and East Bay Municipal Utility District (EBMUD) discharge permits have been acquired. The City of Oakland Building and Fire Departments have inspected and approved the temporary remediation system construction.

System Construction: Wells MW2 and MW3 are connected to the DPE unit via underground piping. The DPE unit consists of a liquid-ring pump, knock-out vessel, and thermal oxidizer. Propane is used as a supplemental fuel for the thermal oxidizer. Temporary system installation was completed in December 2004.

Operational Status: The DPE unit was initially "test fired" in December 2004 once construction was complete. Based on data collected during initial operation, the DPE unit required modifications for more efficient operation. The motor was replaced in February 2005 and the system began operation on 23 February 2005.

5.2 DPE SYSTEM PERFORMANCE

- During the quarter, the system operated for approximately 75 days. The system operated intermittently due to operational and equipment problems. The system shut itself down periodically due to electrical power problems, including low power supply voltage and high amperage conditions. The DPE extraction wells also produced an unexpectedly large amount of silt, which caused problems with the silt filters and carbon filtration vessels, which lead to the system shutdowns.
- Influent concentrations of TPH-g in groundwater decreased from 70,000 $\mu\text{g/L}$ (3/23/05) to 13,000 $\mu\text{g/L}$ (6/09/05) during the quarter (see Table 4).
- The DPE system extracted 333,460 gallons of groundwater during quarter at an average flow rate of 6 gallons per minute (gpm) (see Table 5).
- Approximately 69.6 pounds of TPHg and 1.2 pounds of benzene are estimated to have been removed in the aqueous phase during the operation of the DPE system (see Table 5).
- Influent concentrations of TPH-g in vapor ranged from 14,000 parts per million by volume (ppmv) (4/4/05) to 37 ppmv (4/29/05) during the operation of the DPE system (see Table 6). The average system vapor flow rate was 32 cubic feet per minute (CFM) (see Table 7).

- The thermal oxidizer vapor treatment system has typically removed hydrocarbons at greater than 99% efficiency. The efficiency calculations are summarized in Table 7, and are based on laboratory analytical results of bag samples collected on a monthly basis. The efficiency estimated based on samples collected on 29 April 2005 was less than expected due to anomalously low influent concentrations. Influent vapor concentrations measured in the field during the same site visit with a photo-ionization detector are significantly higher than the laboratory analytical results. The relatively low analytical results were most probably due to sampling or analytical error.
- Approximately 4,582 pounds of TPHg and 57 pounds of benzene are estimated to have been removed in the vapor phase during the operation of the DPE system (see Table 7). These mass removal calculations are based on influent vapor samples typically collected soon after the system was restarted following temporary shutdown events. Because influent concentrations typically decline during system operation (i.e. higher concentrations soon after startup or restart), these estimates likely represent the maximum mass removed.

5.3 DPE SYSTEM PERFORMANCE EVALUATION

Based on the data presented in this report, ETIC recommends the continued operation of the DPE/GWE system to remove hydrocarbons from the subsurface.

Hydrocarbon concentrations of vapor and groundwater influent to the DPE system appear to be declining, but have not dropped significantly since the system was started. Although no SPH has not been observed since December 2004, groundwater concentrations of TPH-g have increased in monitoring wells MW2, MW3, and MW4, while TPH-d concentrations have increased in MW3 and MW4, compared to the previous quarter. Concentrations of BTEX and MTBE have declined in MW3, but have remained stable or increased in MW2 and MW4.



6.0 PLANNED SITE ACTIVITIES

6.1 INTERIM REMEDIAL ACTION

ETIC recommends the following:

- Continue operating the DPE system until influent concentrations approach near asymptotic levels. Sample the system concentrations for water and vapor on a monthly basis to evaluate the effectiveness of the DPE system. These data will be used to calculate mass removal rates and system efficiency.
- Once influent concentrations near asymptotic levels, shut down the system and evaluate rebound concentrations in the extraction wells; and
- When mass removal rates diminish and/or hydrocarbon concentration rebound is limited, submit a request for site closure.

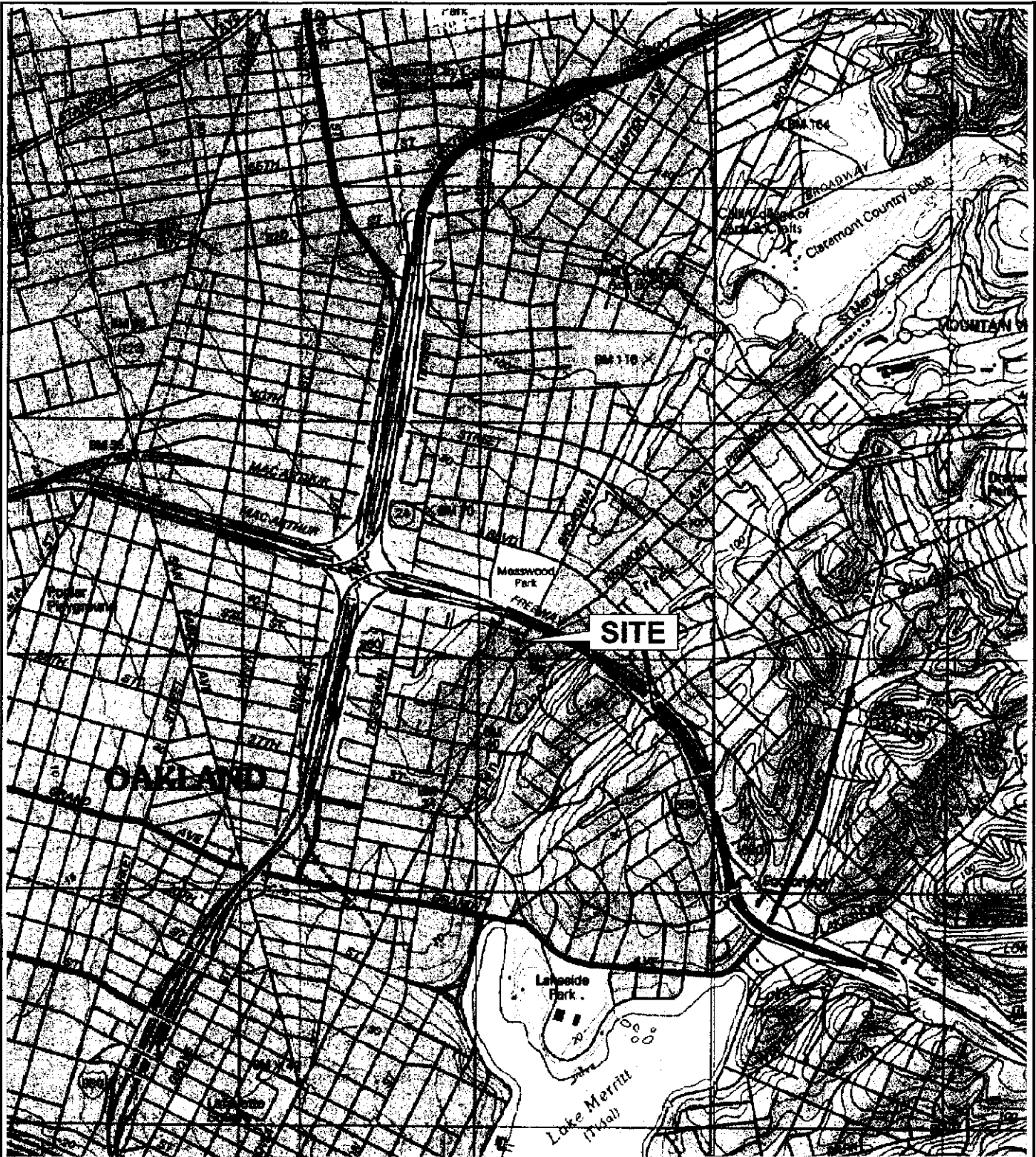
6.2 MONITORING ACTIVITIES

The next quarterly monitoring event is currently scheduled for mid-September 2005. Groundwater will be monitored in accordance with the groundwater monitoring schedule presented in Table 8.

7.0 REFERENCES

- Alameda County Health Cares Services Agency. 2004. Fuel Leak Case No. RO0000134, Val Strough Chevrolet, 327-34th St., Oakland, California. August 20.
- Alameda County Health Cares Services Agency. 2005. Fuel Leak Case No. RO0000134, Val Strough Chevrolet, 327-34th St., Oakland, California. February 4.
- Environmental Data Resources. 2003. EDR Radius Map with GeoCheck, Strough Family Trust, 327 34th Street, Oakland, California. September 10.
- ETIC Engineering, Inc. 2003. Supplemental Site Investigation Workplan, Fuel Case No. RO0000134, Val Strough Chevrolet, 327 34th Street, Oakland, California. September 17.
- ETIC Engineering, Inc. 2003. Third Quarter 2003 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. October.
- ETIC Engineering, Inc. 2004. Supplemental Site Investigation Report and Dual-Phase Extraction Pilot Test Workplan, Strough Family Trust of 1983, 327 34th Street, Oakland, California. February.
- ETIC Engineering, Inc. 2004. First Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. May .
- ETIC Engineering, Inc. 2004. Dual Phase Extraction Pilot Test Report and Interim Remedial Action Plan, Strough Family Trust of 1983, Former Val Strough Chevrolet, 327 34th Street, Oakland, California. June.
- ETIC Engineering, Inc. 2004. Second Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. August.
- ETIC Engineering, Inc. 2004. Response to Technical Comments, Strough Family Trust of 1983, 327 34th Street, Oakland, California. October.
- ETIC Engineering, Inc. 2004. Third Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. October.
- ETIC Engineering, Inc. 2005. Fourth Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. March.

Figures



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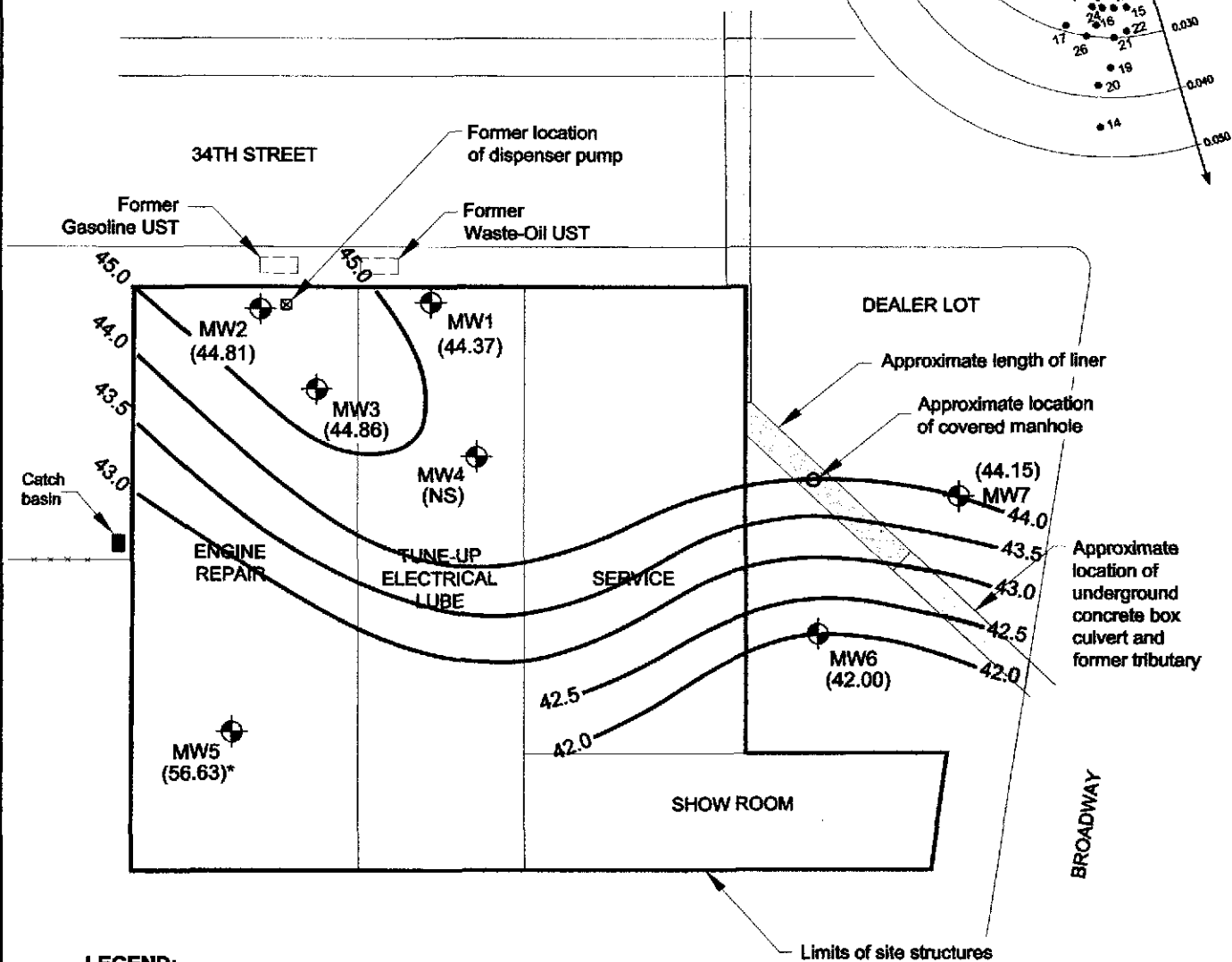
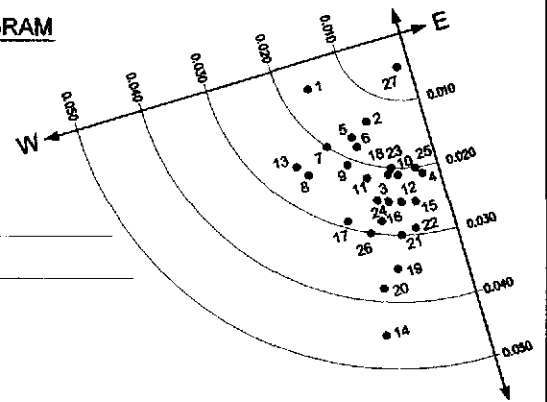
SITE LOCATION MAP
 VAL STROUGH CHEVROLET
 327 34TH STREET
 OAKLAND, CALIFORNIA

FIGURE:

1

ROSE DIAGRAM

• Historical



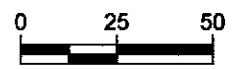
LEGEND:

Groundwater monitoring well

Groundwater elevation contour

NS Not surveyed

* Not used in contouring



Scale (feet)

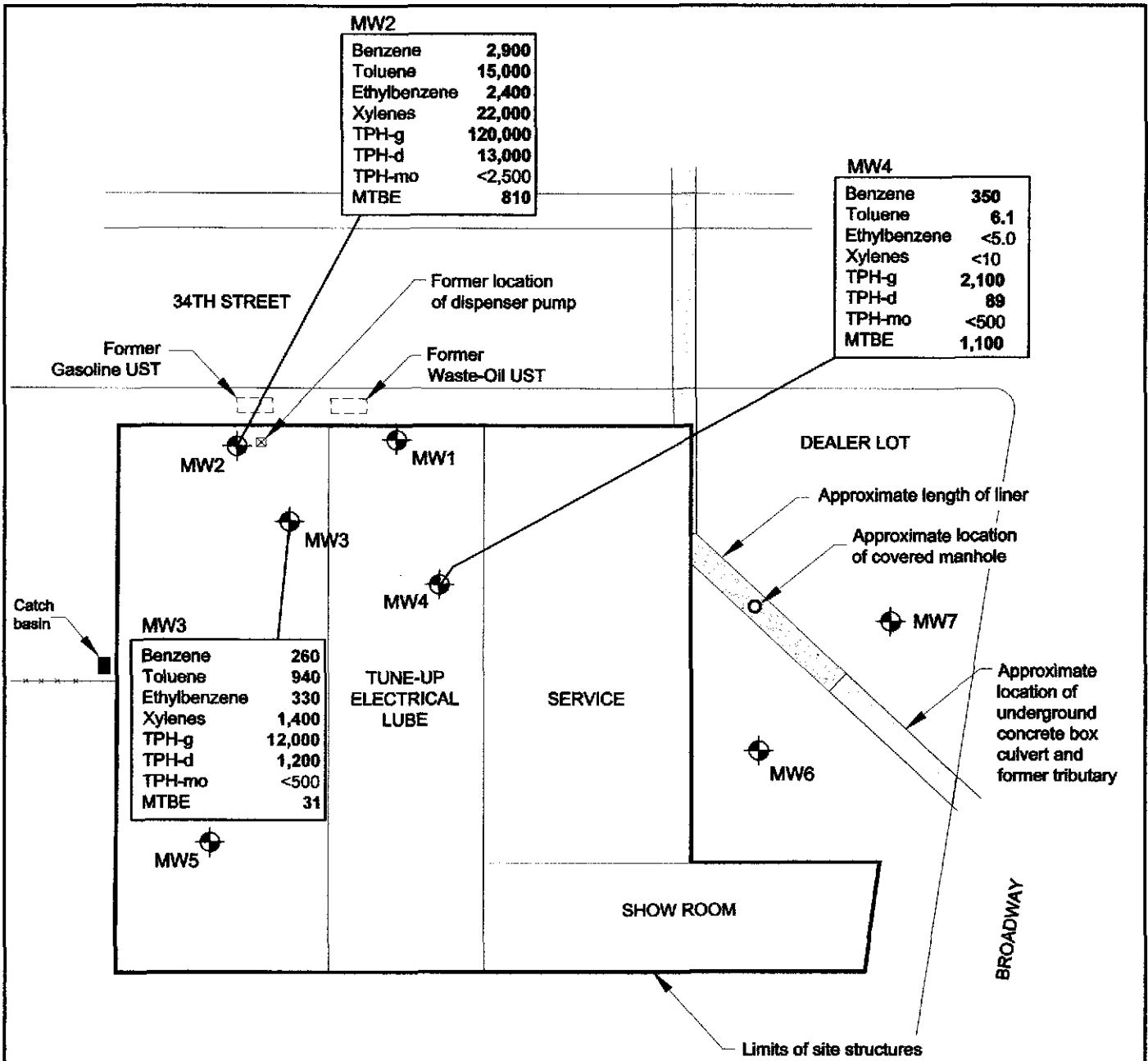
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JUNE 2005 GROUNDWATER CONTOUR MAP AND ROSE DIAGRAM
 FORMER VAL STROUGH CHEVROLET
 327 34TH STREET
 OAKLAND, CALIFORNIA

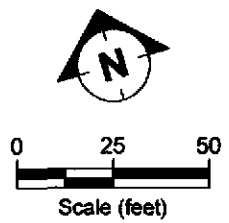
FIGURE:

2



LEGEND:

-  Groundwater monitoring well
- TPH-g** Total Petroleum Hydrocarbons as gasoline
- TPH-d** Total Petroleum Hydrocarbons as diesel
- TPH-mo** Total Petroleum Hydrocarbons as motor oil
- MTBE** Methyl Tertiary Butyl Ether



All concentrations are reported in micrograms per liter (ug/L)



JUNE 2005 GROUNDWATER ANALYTICAL DATA
 FORMER VAL STROUGH CHEVROLET
 327 34TH STREET
 OAKLAND, CALIFORNIA

FIGURE:
3

FILENAME: GM_LUN2005.DWG 7/5/2005

Tables

TABLE 1 WELL CONSTRUCTION DETAILS
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well ID	Well Installation Date	Top-of-Casing Elevation ^a (feet)	Casing Material	Total Depth of Borehole (ft bgs)	Casing Diameter (inches)	Screened Interval (ft bgs)	Slot Size (inches)	Filter Pack Interval (ft bgs)	Filter Pack Material
MW1	07/19/93	64.69	PVC	32	2	17-32	0.020	15-32	Gravel Pack
MW2	07/20/93	65.95	PVC	33	2	18-33	0.020	16-33	Gravel Pack
MW3	07/20/93	65.99	PVC	34	2	18-34	0.020	16-34	Gravel Pack
MW4	06/26/98	63.35	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW5	06/26/98	65.59	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW6	07/17/00	59.60	PVC	31.5	2	10-30	0.020	8-30	Lonestar #3 Sand
MW7	07/17/00	59.47	PVC	36.5	2	15-35	0.020	13-35	Lonestar #3 Sand

a Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.
 PVC Polyvinyl chloride.
 ft bgs Feet below ground surface.

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)											
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	ORP (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄		
MW1	07/27/93	100.00	a 20.79	79.21	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	10/02/97	100.00	a 21.22	78.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--
MW1	06/30/98	100.00	a 18.21	81.79	0.00	<0.50	<0.50	2.1	0.6	84	--	--	2.1	204	5	6.16	0.15	0.046	55	<0.10	<0.10	--	--	--	
MW1	07/29/98	100.00	a 18.74	81.26	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	08/26/98	100.00	a 19.28	80.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	10/01/98	100.00	a 19.93	80.07	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	192	3.6	6.49	--	--	--	--	--	--	--	--	
MW1	10/30/98	100.00	a 20.22	79.78	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	11/30/98	100.00	a 19.99	80.01	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	12/28/98	100.00	a 19.81	80.19	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	01/25/99	100.00	a 19.62	80.38	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	389	3.4	6.72	--	--	--	--	--	--	--	--	
MW1	02/26/99	100.00	a 17.18	82.82	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	03/24/99	100.00	a 17.28	82.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	05/12/99	100.00	a 17.91	82.09	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	12/15/99	100.00	a 21.01	78.99	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--	3.31	6.52	--	--	--	--	--	--	--	--	
MW1	03/20/00	100.00	a 16.25	83.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	07/20/00	100.00	a 19.63	80.37	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	3.4	120	7.37	6.66	0.13	<0.01	54	<0.10	3.4	<0.2	--	--	
MW1	10/11/00	100.00	a 20.80	79.20	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	04/10-11/01	100.00	a 18.81	81.19	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	1.2	117	NR	NR	<0.10	0.045	57	<0.10	6.6	0.15	--	--	
MW1	07/10/01	100.00	a 20.51	79.49	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	11/20/01	64.69	b 21.36	43.33	0.00	<0.50	1.3	<0.50	0.81	<50	<50	<300	<2.0	0.65	6.47	0.32	1.8	63	<0.10	--	--	<0.20	--	--	
MW1	02/19/02	64.69	b 18.95	45.74	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	05/21/02	64.69	b 19.82	44.87	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	120	0.96	6.25	<0.10	0.5	58	<0.10	5.5	<0.20	--	--	
MW1	06/27/03	64.69	b 19.93	44.76	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	09/29/03	64.69	b 21.24	43.45	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	--	--	
MW1	12/12/03	64.69	b 21.27	43.42	0.00	<0.50	<0.50	<0.50	1.1	<50	58	<500	<0.50	--	--	--	--	--	--	--	--	--	--	--	
MW1	03/15/04	64.69	b 18.18	46.51	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	0.14	--	--	--	--	--	--	--	--	--	
MW1	06/24/04	64.69	b 20.48	44.21	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	0.15	--	--	--	--	--	--	--	--	--	
MW1	09/29/04	64.69	b 21.37	43.32	0.00	<0.50	0.51	<0.50	<1.0	<50	<50	<500	<0.50	--	1.01	6.42	--	--	--	--	--	--	--	--	
MW1	12/13/04	64.69	b 20.63	44.06	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW1	03/14/05	64.69	b 18.69	46.00	0.00	<0.50	<0.50	<0.50	<1.0	<50	73	h <500	<0.50	--	1.96	6.04	--	--	--	--	--	--	--	--	
MW1	06/15/05	64.69	b 20.32	44.37	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	07/27/93	101.27	a 22.10	79.17	0.00	10,000	27,000	2,900	20,000	120,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	10/02/97	101.27	a 22.91	78.36	0.43	*	*	*	*	*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	06/30/98	101.27	a 19.69	81.58	0.45	7,300	18,000	2,500	15,600	72,000	--	--	5,500	185	2.2	5.98	--	--	--	--	--	--	--	--	
MW2	07/29/98	101.27	a 20.11	81.16	0.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	08/26/98	101.27	a 20.54	80.73	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	10/01/98	101.27	a 21.52	79.75	0.42	6,400	17,000	2,600	17,000	84,000	--	--	2,000	--	2.7	6.47	--	--	--	--	--	--	--	--	
MW2	10/30/98	101.27	a 21.54	79.73	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	11/30/98	101.27	a 21.21	80.06	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	12/28/98	101.27	a 21.10	80.17	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	01/25/99	101.27	a 20.80	80.47	0.01	9,000	26,000	3,800	27,500	130,000	--	--	5,800	386	0.3	6.69	--	--	--	--	--	--	--	--	
MW2	02/26/99	101.27	a 18.00	83.27	sheen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	03/24/99	101.27	a 18.27	83.00	trace	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	05/12/99	101.27	a 19.08	82.19	trace	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)										
						Ethyl-		Total	TPH			MTBE	CO ₂ (lab)	DO (field)	ORP (field)	pH (field)	Concentration (mg/L)							
						Benzene	Toluene		Xylenes	TPH-g	TPH-d						TPH-mo	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄	
MW2	12/15-16/99	101.27	a 22.42	78.85	0.025	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2	03/20/00	101.27	a 17.09	84.18	0.026	--	--	--	--	--	--	--	--	--	*	*	*	*	*	*	*	*	*	
MW2	07/20/00	101.27	a 20.86	80.41	0.017	*	*	*	*	*	*	*	*	*	0.88	6.37	*	*	*	*	*	*	*	
MW2	10/11/00	101.27	a 22.10	79.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*	
MW2	04/10-11/01	101.27	a 19.98	81.29	0.00	8,000	22,000	2,600	23,500	150,000	1,500	<600	3,600	168	NR	NR	3.1	2.5	16	0.14	0.19	<0.20	--	
MW2	07/10/01	101.27	a 21.85	79.42	0.00	5,900	15,000	2,300	12,100	83,000	5,700	<1,500	2,800	--	--	--	--	--	--	--	--	--	--	
MW2	11/20/01	65.95	b 22.75	43.20	0.00	--	--	--	--	--	--	--	--	120	NR	6.15	1.8	2	16	<0.10	--	<0.20		
MW2	02/19/02	65.95	b 20.12	45.83	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	05/21/02	65.95	b 21.10	44.85	0.00	8,600	25,000	3,500	26,000	150,000	31,000	<3,000	4,800	160	0.88	5.99	3.9	1.7	13	<0.10	0.54	<0.20		
MW2	06/27/03	65.95	b 21.48	44.47	0.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW2	09/29/03	65.95	b 23.04	42.91	0.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^c	12/12/03	65.95	b 22.75	43.31	0.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^f	03/15/04	65.95	b 19.24	46.72	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^e	06/24/04	65.95	b 22.10	44.06	0.31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^e	09/29/04	65.95	b 22.81	43.14	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW2 ^f	12/13/04	65.95	b 22.06	43.95	0.08	3,700	12,000	1,900	10,000	47,000	2,600	<500	1,200	--	0.27	6.63	*	*	*	*	*	*	*	
MW2 ^g	03/14/05	65.95	b 25.00	40.95	0.00	780	3,700	920	6,400	43,000	43,000	h <5,000	<200	--	--	--	--	--	--	--	--	--	--	
MW2	06/15/05	65.95	b 21.14	44.81	0.00	2,900	15,000	2,400	22,000	120,000	13,000	<2,500	810	--	3.05	-147.6	--	--	--	--	--	--	--	
MW3	07/27/93	101.29	a 22.28	79.01	0.02	9,100	24,000	5,300	33,000	330,000	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	10/02/97	101.29	a 22.71	78.58	0.03	4,200	11,000	1,800	10,600	36,000	--	--	3,500	--	--	--	--	--	--	--	--	--	--	
MW3	06/30/98	101.29	a 19.47	81.82	0.00	4,800	11,000	1,200	7,100	51,000	--	--	3,900	300	2	6.03	1.4	9.8	13	1.4	<0.10	2.4		
MW3	07/29/98	101.29	a 20.01	81.28	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	08/26/98	101.29	a 20.62	80.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	10/01/98	101.29	a 21.33	79.96	0.00	3,900	8,500	1,200	6,000	38,000	--	--	2,300	240	2	6.65	--	--	--	--	--	--	--	
MW3	10/30/98	101.29	a 21.62	79.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	11/30/98	101.29	a 21.31	79.98	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	12/28/98	101.29	a 21.15	80.14	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	01/23/99	101.29	a 20.79	80.50	0.00	4,000	10,000	1,200	6,700	5,100	--	--	2,900	238	1	7.01	--	--	--	--	--	--	--	
MW3	02/26/99	101.29	a 18.02	83.27	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	03/24/99	101.29	a 18.37	82.92	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	05/12/99	101.29	a 19.22	82.07	0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	12/15-16/99	101.29	a 22.43	78.86	0.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW3	03/20/00	101.29	a 17.14	84.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	07/20/00	101.29	a 20.98	80.31	0.00	5,700	14,000	1,600	9,300	69,000	2,900	<300	3,300	128	2.05	6.73	3.9	6.6	20	<0.10	0.55	<0.20		
MW3	10/11/00	101.29	a 22.24	79.05	0.00	--	--	--	--	--	--	--	--	--	--	6.73	3.9	6.6	20	<0.10	0.55	<0.20		
MW3	04/10-11/01	101.29	a 20.70	80.59	0.00	7,200	<0.001	2,300	12,900	110,000	4,700	<1,500	4,300	137	NR	NR	1	6	8.2	<0.10	0.13	<0.20		
MW3	07/10/01	101.29	a 21.97	79.32	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	11/20/01	65.99	b 22.80	43.19	0.00	6,300	16,000	2,400	14,900	100,000	5,900	<900	4,000	120	2.93	6.67	0.84	12	31	<0.10	--	<0.20		
MW3	02/19/02	65.99	b 20.11	45.88	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	05/21/02	65.99	b 21.20	44.79	0.00	6,500	17,000	2,200	12,700	91,000	14,000	<3,000	2,200	130	1.01	6.62	4.2	9.6	25	<0.10	0.77	<0.20		
MW3	06/27/03	65.99	b 21.32	44.67	sheen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW3	09/29/03	65.99	b 22.79	43.20	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW3 ^c	12/12/03	65.99	b 22.73	43.27	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MW3 ^e	03/15/04	65.99	b 19.32	46.67	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	ORP (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄
MW3	06/24/04	65.99	b 21.99	44.00	0.00	3,400	7,700	1,000	4,800	39,000	1,700	<500	1,100	--	0.07	--	--	--	--	--	--	--	--
MW3	09/29/04	65.99	b 22.54	43.45	0.00	2,900	6,700	980	4,300	29,000	2,200	<500	1,100	--	0.80	--	6.42	--	--	--	--	--	--
MW3	12/13/04	65.99	b 22.06	43.93	0.00	1,700	2,900	790	3,400	17,000	1,300	<500	490	--	0.16	--	6.7	--	--	--	--	--	--
MW3 ^j	03/14/05	65.99	b 24.00	41.99	0.00	680	1,700	380	1,600	10,000	670	<500	67	--	--	--	--	--	--	--	--	--	--
MW3	06/15/05	65.99	b 21.13	44.86	0.00	260	960	330	1,400	12,000	1,200	<500	31	--	1.93	-150.4	--	--	--	--	--	--	--
MW4	06/30/98	98.65	a 16.93	81.72	0.00	2,200	930	850	2,100	10,000	--	--	1,800	222	2.6	6.18	0.14	4.3	14	0.8	0.8	1.5	
MW4	07/29/98	98.65	a 17.48	81.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	08/26/98	98.65	a 18.65	80.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	10/01/98	98.65	a 18.74	79.91	0.00	570	46	130	36	1,100	--	--	1,300	320	3.4	<0.001	--	--	--	--	--	--	
MW4	10/30/98	98.65	a 19.02	79.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	11/30/98	98.65	a 18.74	79.91	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	12/28/98	98.65	a 18.60	80.05	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	01/25-26/99	98.65	a 18.32	80.33	0.00	230	<8.3	<8.3	<8.3	290	--	--	1,300	475	6.7	7	--	--	--	--	--	--	
MW4	02/26/99	98.65	a 15.81	82.84	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	03/24/99	98.65	a 16.01	82.64	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	05/12/99	98.65	a 17.71	80.94	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	12/15-16/99	98.65	a 19.83	78.82	0.00	5.8	<0.50	<0.50	<0.50	<50	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	03/20/00	98.65	a 14.9	83.75	0.00	--	--	--	--	--	--	--	1,400	--	1.75	7.02	--	--	--	--	--	--	
MW4	07/20/00	98.65	a 18.38	80.27	0.00	91	4.6	19	12.9	210	<50	<300	1,500	126	3.88	6.67	9.5	5.3	11	<0.10	0.04	<0.20	
MW4	10/11/00	98.65	a 19.61	79.04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	04/10-11/01	98.65	a 17.55	81.10	0.00	110	<5.0	<5.0	<5.0	350	<50	<300	1,100	107	NR	NR	0.8	6.3	10	<0.10	<0.05	<0.20	
MW4	07/10/01	98.65	a 19.34	79.31	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	11/20/01	63.35	b 20.16	43.19	0.00	<2.5	4	<2.5	3.7	96	<50	<300	2,500	130	0.83	6.51	1.6	10	11	<0.10	--	<0.20	
MW4	02/19/02	63.35	b 17.34	46.01	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	05/21/02	63.35	b 18.57	44.78	0.00	340	5.7	70	<1.0	940	83	<300	1,600	150	1.65	6.32	3.1	8.4	9	<0.10	0.06	<0.20	
MW4	06/27/03	63.35	b 18.72	44.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW4	09/29/03	63.35	b 20.11	43.24	0.00	<5.0	<5.0	<5.0	<10	1,100	<50	<500	1,700	--	--	--	--	--	--	--	--	--	
MW4	12/12/03	63.35	b 20.06	43.29	0.00	<13	<13	<13	<25	<1,300	<50	<500	1,000	--	--	--	--	--	--	--	--	--	
MW4	03/15/04	63.35	b 16.89	46.46	0.00	1.5	<0.50	<0.50	<1.0	54	d <50	<500	41	--	0.16	--	--	--	--	--	--	--	
MW4	06/24/04	63.35	b 19.31	44.04	0.00	69	<5.0	<5.0	<10	920	d <50	<500	1,100	--	0.15	--	--	--	--	--	--	--	
MW4	09/29/04	63.35	b 20.20	43.15	0.00	<5.0	<5.0	<5.0	<10	940	g <50	<500	1,200	--	0.13	6.63	--	--	--	--	--	--	
MW4	12/13/04	**	b 20.44	0.00	<5.0	<5.0	<5.0	<10	740	g <50	<500	860	--	0.58	6.84	--	--	--	--	--	--	--	
MW4	03/14/05	**	b 18.30	0.00	20	<5.0	<5.0	<10	930	i <50	<500	930	--	0.28	6.34	--	--	--	--	--	--	--	
MW4	06/15/05	**	b 20.03	0.00	350	6.1	<5.0	<10	2100	89	<500	1100	--	0.46	-98.9	--	--	--	--	--	--	--	
MW5	06/30/98	100.9	a 20.60	80.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	23	220	4.3	6.1	--	--	--	--	--	--	
MW5	07/29/98	100.9	a 21.52	79.38	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	08/26/98	100.9	a 22.21	78.69	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	10/01/98	100.9	a 22.95	77.95	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	256	4.8	6.71	--	--	--	--	--	--	
MW5	10/30/98	100.9	a 23.23	77.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	11/30/98	100.9	a 23.12	77.78	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	12/28/98	100.9	a 23.18	77.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	01/25-26/99	100.9	a 22.61	78.29	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	02/26/99	100.9	a 19.78	81.12	0.00	--	--	--	--	--	--	--	<2.0	305	9.7	7.04	--	--	--	--	--	--	
MW5	03/24/99	100.9	a 20.25	80.65	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	05/12/99	100.9	a 21.06	79.84	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW5	12/15-16/99	100.9	a 24.19	76.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--	2.72	7.19	--	--	--	--	--	--	

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)								
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	ORP (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃
MW5	03/20/00	100.9	a 19.15	81.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	07/20/00	100.9	a 21.84	79.06	0.00	<0.50	0.98	<0.50	<0.50	<50	<50	<300	1.9	134	5.58	--	--	--	--	--	--	--
MW5	10/11/00	100.9	a 23.4	77.50	0.00	--	--	--	--	--	--	--	--	--	--	6.35	0.11	0.017	49	<0.10	3.9	<0.20
MW5	04/10-11/01	100.9	a 22.3	78.60	0.00	<0.50	2.6	<0.50	0.6	<50	<50	<300	1.5	183	66	NR	<0.10	0.042	45	<0.10	2.9	0.11
MW5	07/10/01	100.9	a 23.64	77.26	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	11/20/01	65.59	b 24.65	40.94	0.00	0.83	12	1.2	11	140	860	2,500	10	5	66	6.01	0.2	2.5	42	<0.10	--	<0.20
MW5	02/19/02	65.59	b 22.37	43.22	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	05/21/02	65.59	b 23.10	42.49	0.00	<0.50	<0.50	<0.50	<0.50	<50	2,200	<300	<2.0	140	66	6.3	<0.1	0.22	44	<0.10	3	<0.20
MW5	06/27/03	65.59	b 23.07	42.52	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/29/03	65.59	b 24.38	41.21	0.00	<0.50	0.52	7.1	35	100	<50	d <500	1.4	--	--	--	--	--	--	--	--	--
MW5	12/12/03	65.59	b 23.90	41.69	0.00	<0.50	<0.50	<0.50	<1	<50	<50	<500	1.5	--	--	--	--	--	--	--	--	--
MW5	03/15/04	65.59	b 20.82	44.77	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	6.4	--	--	--	--	--	--	--
MW5	06/24/04	65.59	b 23.57	42.02	0.00	<0.50	<0.50	<0.50	<1.0	<50	130	f <500	0.79	--	5.56	--	--	--	--	--	--	--
MW5	09/29/04	65.59	b 24.44	41.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/13/04	65.59	b 23.87	41.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/14/05	65.59	b 20.18	45.41	0.00	<0.50	1.3	1.5	8.6	82	<50	<500	<0.50	--	3.91	5.57	--	--	--	--	--	--
MW5	06/15/05	65.59	b 12.96	52.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	07/20/00	96.60	a 18.30	78.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	160	122	2.72	6.66	120	1.9	53	6	0.05	<0.20
MW6	10/11/00	96.60	a 18.69	77.91	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	04/10-11/01	96.60	a 17.85	78.75	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	180	142	NR	NR	22	2.2	0.69	5.2	<0.05	<0.20
MW6	07/10/01	96.60	a 18.43	78.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	11/20/01	59.60	b 18.67	40.93	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	450	100	2.03	6.44	29	5.2	1.1	3.4	--	<0.20
MW6	02/19/02	59.60	b 17.40	42.20	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	05/21/02	59.60	b 17.68	41.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	170	100	0.76	6.6	11	3.4	1.4	8.9	0.65	<0.20
MW6	06/27/03	59.60	b 17.73	41.87	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/29/03	59.60	b 18.48	41.12	0.00	<1.0	<1.0	<1.0	<2.0	230	d <50	<500	340	--	--	--	--	--	--	--	--	--
MW6	12/12/03	59.60	b 17.89	41.71	0.00	<2.5	<2.5	<2.5	<5.0	<250	51	<500	190	--	--	--	--	--	--	--	--	--
MW6	03/15/04	59.60	b 16.46	43.14	0.00	<1.0	<1.0	<1.0	<2.0	200	<50	<500	220	--	0.11	--	--	--	--	--	--	--
MW6	06/24/04	59.60	b 17.97	41.63	0.00	<1.0	<1.0	<1.0	<2.0	130	<50	<500	190	--	0.05	--	--	--	--	--	--	--
MW6	09/29/04	59.60	b 18.55	41.05	0.00	<0.50	0.61	<0.50	1.2	210	g <50	<500	190	--	0.37	6.60	--	--	--	--	--	--
MW6	12/13/04	59.60	b 17.88	41.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	03/14/05	59.60	b 16.82	42.78	0.00	<0.50	<0.50	<0.50	1.8	160	<50	<500	190	--	0.08	5.65	--	--	--	--	--	--
MW6	06/15/05	59.60	b 17.60	42.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	07/20/00	96.75	a 15.93	80.82	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	32.2	7.15	7.43	<0.1	0.002	7.5	<0.10	2.6	0.13
MW7	10/11/00	96.75	a 16.90	79.85	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	04/10-11/01	96.75	a 15.80	80.95	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	77.6	NR	NR	0.18	0.048	49	<0.10	2.7	0.31
MW7	07/10/01	96.75	a 16.71	80.04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	11/20/01	59.47	b 16.17	43.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	62	0.96	7.11	0.16	1.8	63	<0.10	--	<0.20
MW7	02/19/02	59.47	b 14.92	44.55	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	05/21/02	59.47	b 15.18	44.29	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	68	1.03	7.57	0.11	0.35	51	<0.10	2.8	0.11

TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	ORP (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-PO ₄
MW7	06/27/03	59.47	b 16.28	43.19	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/29/03	59.47	b 16.88	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	0.62	--	--	--	--	--	--	--	--	--	--
MW7	12/12/03	59.47	b 14.95	44.52	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	--
MW7	03/15/04	59.47	b 14.77	44.70	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	--
MW7	06/24/04	59.47	b 16.33	43.14	0.00	<0.50	<0.50	<0.50	<1.0	<50	300	f <500	<0.50	--	0.54	--	--	--	--	--	--	--	--
MW7	09/29/04	59.47	b 16.88	42.59	0.00	--	--	--	--	--	--	--	--	--	0.20	--	--	--	--	--	--	--	--
MW7	12/13/04	59.47	b 15.26	44.21	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/14/05	59.47	b 15.00	44.47	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	--
MW7	06/15/05	59.47	b 15.32	44.15	0.00	--	--	--	--	--	--	--	--	--	0.47	--	6.15	--	--	--	--	--	--

SPH Separate-phase hydrocarbons.

CO₂ Carbon dioxide.

DO Dissolved oxygen.

ORP Oxygen reduction potential

Fe(II) Ferrous iron.

Mn Manganese.

SO₄ Sulfate.

N-NH₃ Ammonia.

N-NO₃ Nitrate.

o-PO₄ Ortho-Phosphate.

GW Groundwater.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-mo Total Petroleum Hydrocarbons as motor oil.

MTBE Methyl tertiary butyl ether.

NR Not reported.

µg/L Micrograms per liter.

mg/L Milligrams per liter.

* SPH present; not sampled.

** Well MW4 elevation modified due to site renovation activities. Not Surveyed.

-- Not analyzed or not sampled.

< Less than the laboratory reporting limits.

a Elevations are referenced to monitoring well MW1, with assumed datum of 100.00 feet.

b Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.

c Analysis not conducted due to broken sample containers.

d Hydrocarbon reported in the gasoline range does not match laboratory gasoline standard.

e Groundwater elevation in wells with LPH are corrected by multiplying the specific gravity of gasoline (0.69) by the LPH thickness and adding this value to the water elevation.

f Hydrocarbon reported is in the early diesel range, and does not match the laboratory diesel standard.

g Sample contained discrete peak in gasoline range and identified by lab as MTBE.

h Quantity of unknown hydrocarbon(s) in sample based on diesel.

i The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

j Depth to groundwater is based on the depth of the stingers.

TABLE 3 HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Boring ID	Date	Depth (feet)	Concentrations (µg/L)													
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
HP1	12/18/2003	26-30	<5.0	<5.0	<5.0	11	410	180	<500	<50	480	<10	<5.0	<5.0	<5.0	<5.0
HP3	12/18/2003	32-36	<0.50	<0.50	<0.50	<1.0	<50	75	<500	<5.0	0.55	<1.0	<0.50	<0.50	1.3	<0.50

TPH-g Total Petroleum Hydrocarbons as gasoline.
 TPH-d Total Petroleum Hydrocarbons as diesel.
 TPH-mo Total Petroleum Hydrocarbons as motor oil.
 TBA t-butyl alcohol.
 MTBE Methyl tertiary butyl ether.
 DIPE di-isopropyl ether.
 ETBE ethyl t-butyl ether.
 TAME t-amyl methyl ether.
 1,2-DCA 1,2-dichloroethane.
 EDB ethylene dibromide.
 < less than the laboratory reporting limits.

TABLE 4 DPE SYSTEM - GROUNDWATER ANALYTICAL RESULTS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Sample Location	Sample Date	Concentrations (µg/L)					
		TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes
Influent	12/20/04	2,100		440	110	77	340
	02/28/05		1,700	550	2,500	410	4,300
	03/23/05	70,000	4,000	360	2,300	740	6,300
	03/28/05	7,900	1,100	240	1,100	150	1,900
	04/04/05	16,000	2,900	150	890	150	2,200
	04/18/05	17,000	990	610	2,300	300	3,500
	04/29/05	7,600	1,000	190	870	95	1,800
	05/13/05	15,000	4,200	130	530	78	2,000
	05/20/05	9,700	660	210	930	81	2,400
	06/09/05	13,000	1,200	360	1,700	150	2,900
	07/11/05	19,000	1,300	760	2,800	220	3,700
Midfluent	02/28/05	NA	<50	<0.50	<0.50	<0.50	<1
	03/23/05	<50	<50	<0.50	<0.50	<0.50	<1
	03/28/05	<50	<50	<0.50	<0.50	<0.50	<0.50
	04/04/05	<50	<50	<0.50	<0.50	<0.50	<1
	04/18/05	<50	<50	<0.50	<0.50	<0.50	<1
	04/29/05	<50	<50	<0.50	<0.50	<0.50	<1
	05/13/05	<50	<50	<0.50	<0.50	<0.50	<1
	05/20/05	<50	<50	<0.50	<0.50	<0.50	<1
06/09/05	<50	<50	<0.50	<0.50	<0.50	<1	
Effluent	12/20/04	NA	NA	<0.50	<0.50	<0.50	<1
	02/28/05	NA	<50	<0.50	<0.50	<0.50	<1
	03/23/05	<50	<50	<0.50	<0.50	<0.50	<1
	03/28/05	<50	<50	<0.50	<0.50	<0.50	<0.50
	04/04/05	<50	<50	<0.50	<0.50	<0.50	<1
	04/18/05	<50	<50	<0.50	<0.50	<0.50	<1
	04/29/05	<50	<50	<0.50	<0.50	<0.50	<1
	05/13/05	<50	<50	<0.50	<0.50	<0.50	<1
	05/20/05	<50	<50	<0.50	<0.50	<0.50	<1
06/09/05	<50	<50	<0.50	<0.50	<0.50	<1	

µg/L - micrograms per liter

TPH-g - Total Petroleum Hydrocarbons as gasoline

TPH-d - Total Petroleum Hydrocarbons as diesel

MTBE - Methyl tert-butyl ether

TABLE 5 DPE SYSTEM - VAPOR ANALYTICAL RESULTS
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Sample Location	Date	Concentration (ppmv) by EPA Method 8015M/8020					POC Abatement Efficiency Based on Lab results
		TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	
Influent	02/28/05	5,400	77	260	45	270	
	03/23/05	6,100	92	340	54	340	
	03/28/05	3,300	40	170	25	140	
	04/04/05	14,000	150	730	120	730	
	04/18/05	3,100	46	160	27	170	
	04/29/05	37.0	0.77	2.50	0.34	2.2	
	05/13/05	4,800	72	300	62	380	
	05/20/05	5,600	61	310	60	450	
	06/09/05	3,121	34	138	18	144	
	07/11/05	1,300	15	50	6	52	
Effluent	02/28/05	<14	<0.15	<0.13	<0.11	<0.23	99.7%
	03/23/05	<14	<0.15	<0.13	<0.11	<0.23	99.8%
	03/28/05	<14	<0.15	<0.13	<0.11	<0.23	99.6%
	04/04/05	<14	<0.15	<0.13	<0.11	<0.23	99.9%
	04/18/05	<14	<0.15	<0.13	<0.11	<0.23	99.5%
	04/29/05	<14	<0.15	<0.13	<0.11	<0.23	62.2%
	05/13/05	<14	<0.15	1.40	0.54	4.60	99.7%
	05/20/05	<14	<0.15	<0.13	<0.11	0.41	99.8%
	06/09/05	<14	<0.15	<0.13	<0.11	<0.23	99.6%

TPHg - Total petroleum hydrocarbons as gasoline

ppmv- Parts Per Million by Volume

POC- Precursor Organic Compound

TABLE 6 OPERATION AND PERFORMANCE DATA - GROUNDWATER EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) Total TPH	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* Total TPH	Cumulative Pounds Removed Total TPH	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
12/20/04	0.0	0%	0	0.0	2,100	440	0.00	0.00	0.00	0.00
02/23/05	0.0	0%	19,148	0.0	0	0	5.75	5.75	0.08	0.08
02/25/05	2.0	99%	25,840	2.3	NA	0	2.01	7.77	0.03	0.11
02/28/05	3.0	100%	51,770	5.9	NA	550	7.79	15.56	0.12	0.23
03/04/05	1.5	38%	63,010	5.1	NA	0	3.38	18.94	0.04	0.27
03/07/05	1.4	48%	73,950	5.3	NA	0	3.29	22.23	0.04	0.31
03/11/05	4.0	98%	92,050	3.2	NA	0	5.44	27.67	0.07	0.38
03/14/05	3.1	100%	93,080	0.2	NA	0	0.31	27.98	0.00	0.38
03/21/05	5.1	73%	128,800	4.9	NA	0	10.74	38.71	0.14	0.52
03/21/05	0.0	0%	128,810	0.0	NA	0	0.00	38.71	0.00	0.52
03/23/05	0.6	30%	133,270	5.3	70,000	360	2.60	41.32	0.01	0.53
03/25/05	0.6	26%	137,720	5.4	NA	0	1.45	42.76	0.01	0.54
03/28/05	2.6	94%	156,980	5.2	7,900	240	1.27	44.03	0.04	0.58
03/30/05	2.2	98%	172,040	4.8	NA	0	1.50	45.53	0.02	0.61
04/01/05	1.7	95%	177,610	2.3	NA	NA	0.55	46.09	0.01	0.61
04/04/05	1.3	45%	186,830	4.8	16,000	150	1.23	47.32	0.01	0.63
04/05/05	0.5	51%	190,620	5.1	NA	0	0.52	47.84	0.01	0.64
04/07/05	1.3	64%	199,220	4.7	NA	0	1.18	49.02	0.03	0.67
04/08/05	0.5	53%	203,140	5.0	NA	0	0.54	49.56	0.01	0.68
04/11/05	0.5	18%	206,960	4.9	NA	NA	0.53	50.08	0.01	0.69
04/12/05	0.9	96%	213,660	4.9	NA	NA	0.92	51.01	0.02	0.71
04/14/05	2.1	100%	222,830	3.1	NA	NA	1.26	52.27	0.03	0.74
04/15/05	0.1	14%	223,760	4.7	NA	NA	0.13	52.40	0.00	0.74
04/18/05	0.0	1%	223,960	6.7	17,000	610	0.03	52.42	0.00	0.74
04/18/05	0.0	0%	223,960	0.0	NA	NA	0.00	52.42	0.00	0.74
04/20/05	1.5	76%	234,520	4.9	NA	NA	1.08	53.51	0.04	0.78
04/22/05	2.0	99%	244,950	7.4	NA	NA	1.07	54.58	0.03	0.81
04/27/05	0.7	13%	249,050	15.2	NA	NA	0.42	55.00	0.01	0.83
04/29/05	1.5	76%	257,120	5.6	7,600	190	0.51	55.51	0.01	0.84

**TABLE 6 OPERATION AND PERFORMANCE DATA - GROUNDWATER EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA**

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) Total TPH	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* Total TPH	Cumulative Pounds Removed Total TPH	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
05/02/05	1.3	44%	265,580	8.6	NA	NA	0.80	56.30	0.01	0.85
05/04/05	0.8	41%	270,850	11.8	NA	NA	0.50	56.80	0.01	0.86
05/06/05	1.9	99%	273,650	2.9	NA	NA	0.26	57.07	0.00	0.86
05/09/05	1.5	47%	273,980	1.5	NA	NA	0.03	57.10	0.00	0.86
05/11/05	0.0	1%	274,000	19.4	NA	NA	0.00	57.10	0.00	0.86
05/13/05	1.0	59%	278,000	2.8	15,000	130	0.50	57.60	0.00	0.87
05/18/05	2.5	47%	285,030	3.1	NA	NA	0.72	58.32	0.01	0.88
05/20/05	1.0	61%	291,370	8.8	9,700	210	0.51	58.83	0.01	0.89
05/26/05	3.4	57%	299,570	2.9	NA	NA	0.78	59.61	0.02	0.91
05/31/05	5.2	99%	325,600	4.5	NA	NA	2.46	62.07	0.06	0.97
06/03/05	1.8	65%	334,930	13.8	NA	NA	0.88	62.96	0.02	0.99
06/09/05	4.2	70%	347,080	3.5	13,000	360	1.32	64.27	0.04	1.03
06/10/05	1.1	100%	353,340	11.2	NA	NA	0.68	64.95	0.02	1.05
06/13/05	1.9	63%	363,280	5.9	NA	NA	1.08	66.03	0.03	1.08
06/17/05	0.3	7%	363,650	24.5	NA	NA	0.04	66.07	0.00	1.08
06/20/05	1.8	62%	374,370	4.2	NA	NA	1.16	67.23	0.03	1.11
06/23/05	2.2	77%	384,660	6.5	NA	NA	1.12	68.35	0.03	1.14
06/27/05	1.2	30%	389,010	8.6	NA	NA	0.47	68.82	0.01	1.15
06/30/05	1.3	45%	396,470	6.2	NA	NA	0.81	69.63	0.02	1.18
Total	75	60%	396,470	6.0			69.63		1.18	

* Est. Mass TPH Removed (pounds) = Average influent conc. (µg/L) * period flow total (gallons) * 1 lb/454 g * 1/1,000,000 * 3.785 L/gallon

µg/L - Micrograms per liter.

TPH - Total Petroleum Hydrocarbons (measured as Total Petroleum Hydrocarbons as both gasoline and diesel as analyzed by EPA Method 8015 modified).

gpm - Gallons per minute.

NM - Not Measured.

TABLE 7 OPERATION AND PERFORMANCE DATA - DUAL PHASE EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
02/23/05	0.0	0%	0	55	4,000	NA	77	0.0	1.54	0.00	0.00
02/25/05	2.0	99%	149,448	52	4,000	NA	NA	211.7	1.46	2.56	0.00
02/28/05	3.0	100%	257,712	59	3,996	5,400	NA	365.0	0.11	4.42	0.00
03/04/05	1.5	38%	85,878	39	NM	NA	NA	129.5	0.00	1.47	0.00
03/07/05	1.4	48%	65,583	32	3,996	NA	NA	98.9	0.12	1.12	0.00
03/11/05	4.0	98%	176,347	31	NM	NA	NA	265.9	0.00	3.02	0.00
03/14/05	3.1	100%	144,576	32	4,026	NA	NA	218.0	0.12	2.48	0.00
03/21/05	5.1	73%	233,645	32	NM	NA	NA	352.4	0.00	4.01	0.00
03/21/05	0.0	0%	0	0	0	NA	NA	0.0	0.00	0.00	0.00
03/23/05	0.6	30%	38,493	46	4,000	6,100	92	61.6	2.12	0.72	0.00
03/25/05	0.6	26%	26,082	32	4,000	NA	NA	32.2	2.47	0.35	0.00
03/28/05	2.6	94%	117,558	32	4,000	3,300	40	101.7	3.00	0.95	0.00
03/30/05	2.2	98%	185,496	59	NM	NA	150	155.7	0.00	5.65	0.00
04/01/05	1.7	95%	76,923	32	4,000	NA	NA	64.6	2.29	1.53	0.00
04/04/05	1.3	45%	60,480	32	4,000	NA	NA	50.8	2.29	1.20	0.00
04/05/05	0.5	51%	23,247	32	4,000	NA	NA	19.5	2.29	0.46	0.00
04/07/05	1.3	64%	57,834	32	4,000	NA	NA	48.5	2.88	1.15	0.00
04/08/05	0.5	53%	24,759	32	4,000	NA	NA	20.8	3.06	0.49	0.00
04/11/05	0.5	18%	24,759	32	4,000	NA	NA	20.8	2.29	0.49	0.00
04/12/05	0.9	96%	43,092	32	4,000	NA	NA	36.2	2.29	0.86	0.00
04/14/05	2.1	100%	196,812	66	4,000	NA	NA	165.2	9.37	3.91	0.00
04/15/05	0.1	14%	6,237	32	4,000	NA	NA	5.2	1.82	0.12	0.00
04/18/05	0.0	1%	945	32	4,000	3,100	46	0.8	10.59	0.01	0.00
04/18/05	0.0	0%	0	32	4,000	NA	NA	0.0	4.06	0.00	0.00
04/20/05	1.5	76%	69,312	32	4,000	NA	NA	28.5	4.06	0.33	0.00
04/22/05	2.0	99%	91,008	32	1,978	NA	NA	37.4	4.06	0.43	0.00
04/27/05	0.7	13%	30,051	32	4,000	NA	NA	12.4	1.18	0.14	0.00
04/29/05	1.5	76%	68,418	32	3,984	37	1	0.7	2.47	0.01	0.00
05/02/05	1.3	44%	60,480	32	4,000	NA	NA	38.4	10.59	0.45	0.00
05/04/05	0.8	41%	36,666	32	NM	NA	NA	23.3	0.00	0.27	0.00
05/06/05	1.9	99%	163,548	59	3,982	NA	NA	103.7	2.75	1.21	0.00
05/09/05	1.5	47%	123,900	59	NM	NA	NA	78.6	0.00	0.91	0.00
05/11/05	0.0	1%	567	32	904	NA	NA	0.4	0.00	0.00	0.00
05/12/05	0.7	100%	70,092	66	NM	NA	NA	44.5	0.00	0.52	0.00
05/13/05	1.0	59%	45,927	32	824	4,800	72	57.8	0.35	0.67	0.00
05/18/05	2.5	47%	185,016	52	789	NA	NA	252.3	1.55	2.50	0.00
05/20/05	1.0	61%	47,628	32	884	5,600	61	70.0	0.00	0.59	0.00

TABLE 7 OPERATION AND PERFORMANCE DATA - DUAL PHASE EXTRACTION SYSTEM
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
05/26/05	3.4	57%	156,114	32	816	NA	NA	178.5	0.00	1.51	0.00
05/31/05	5.2	99%	237,195	32	920	NA	NA	271.3	0.00	2.30	0.00
06/03/05	1.8	65%	80,514	32	782	NA	NA	92.1	0.35	0.78	0.00
06/09/05	4.2	70%	360,018	59	1,059	3,121	34	294.7	0.00	2.52	0.01
06/10/05	1.1	100%	97,350	59	971	NA	NA	79.7	0.00	0.68	0.00
06/13/05	1.9	63%	160,716	59	NM	NA	NA	131.5	0.00	1.12	0.00
06/17/05	0.3	7%	13,230	32	1,126	NA	NA	10.8	0.35	0.09	0.00
06/20/05	1.8	62%	63,504	24	1,218	NA	NA	52.0	0.27	0.44	0.00
06/23/05	2.2	77%	211,860	66	598	NA	NA	173.4	3.45	1.48	0.00
06/27/05	1.2	30%	53,487	32	741	NA	NA	43.8	0.94	0.37	0.00
06/30/05	1.3	45%	99,247	52	621	NA	NA	81.2	0.00	0.69	0.00
Total/Average			4,521,754	32				4,582		57.0	

^a Est. pounds/day removed/emitted TPH-g = Average Combined well conc.(ppm.) * 4.2(µg/L/ppm.) * Average combined well flowrate (CFM) * 1440 min/day * 1 g/1,000,000 µg * 0.002205 lbs/g * 28.32 L/ft³

^b Est. pounds/day removed/emitted Benzene = Average Combined well conc.(ppm.) * 3.25(µg/L/ppm.) * Average combined well flowrate (CFM) * 1440 min/day * 1 g/1,000,000 µg * 0.002205 lbs/g * 28.32 L/ft³

Cumulative Total - Total as measured since system start-up.

CFM - Cubic feet per minute.

TPH-g - Total Petroleum Hydrocarbons as gasoline.

ppmv - Parts Per Million by Volume.

TABLE 8 GROUNDWATER MONITORING SCHEDULE
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		BTEX and TPH-g	MTBE	TEPH
MW1	Q	S	S	S
MW2	Q	Q	Q	Q
MW3	Q	Q	Q	Q
MW4	Q	Q	Q	Q
MW5	Q	A	A	A
MW6	Q	S	S	S
MW7	Q	A	A	A

Q = Quarterly.

S = Semiannual.

A = Annual.

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

MTBE = Methyl tertiary butyl ether.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TEPH = Total Extractable Petroleum Hydrocarbons, includes TPH-diesel and TPH-motor oil.

Appendix A

Protocols for Groundwater Monitoring

PROTOCOLS FOR GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix B
Field Documents



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST

Well No: MW4

Date: 6/15/05

Project No: TMSFT.6

Personnel: C. Mitchell

GAUGING DATA

Water Level Measuring Method: WLM / IP

WELL PURSE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
				1	2	4	6		
	27.50	20.03	7.47	0.04	0.16	0.64	1.44	120	359

PURGING DATA

Purge Method: WATERBA / BAILER / SUB

PURGE RATE

GPM

Time	10:59	11:00	11:01			
Flow Rate (GPM)	1	2	3			
Temperature (°C)	18.32°C	18.32°C	18.33°C			
Flow Rate (GPM)	6.99	6.97	6.96			
Flow Rate (GPM)	787.5/1000	784.5/1000	782.5/1000			
Flow Rate (GPM)	5.8/53	5.2/48	5.0/46			
Flow Rate (GPM)	-102.1	-98.9	-98.9			
Flow Rate (GPM)	S.H./Bin	S.H./Bin	S.H./Bin			
Flow Rate (GPM)	N	N	N			
Flow Rate (GPM)	N	N	N			

Alkalinity:

Comments/Observations:

SAMPLING DATA

Time Sampled: 1105

Approximate Depth to Water During Sampling: 21 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
MW4	3	VOA	HCL	40 ml		HVOCs by 8260B
MW4	2	AMBER	HCL	1L		TPH-D, TEHO

Total Purge Volume: 3 (gallons)

Disposal:

System

Weather Conditions:

BOLTS Y / I / N

Condition of Well Box and Casing at Time of Sampling: No Bolts

CAP & LOCK Y / I / N

Well Head Conditions Requiring Correction:

GROUT Y / I / N

Problems Encountered During Purging and Sampling: None

WELL BOX Y / I / N

Comments:

SECURED Y / I / N



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST Well No: MW3 Date: 6/15/05
 Project No: TMSFT.6 Personnel: C. M. F. h y (1)

GAUGING DATA

Water Level Measuring Method: WLM / (P)

WELL PURGE VOLUME CALCULATION	Total Depth (ft)	Depth to Water (ft)	Water Column (ft)	Multiplier Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
				1	2	4	6		
	32.19	21.13	11.06	0.04	0.16	0.64	1.44	1.77	5.31

PURGING DATA

Purge Method: WATERRA / BAILED / SUB PURGE RATE GPM

Time	12:29	12:34	12:39			
Flow Rate (GPM)	2	4	6			
Temperature	18.51°C	18.58°C	18.62°C			
Flow Rate	7.06	7.10	7.09			
Static Pressure	786 psi/cm	787 psi/cm	787 psi/cm			
Depth	18.8 / 1.76	19.1 / 1.78	20.4 / 1.93			
DP	-155.8	-154.4	-150.4			
Flow	5.1 ft ³ /min	5.1 ft ³ /min	5.1 ft ³ /min			
Depth	4	4	4			
Flow	N	N	N			

Alkalinity:

Comments/Observations: Green & Odor Found 1 Amber broken at office.

SAMPLING DATA

Time Sampled: 12:45 Approximate Depth to Water During Sampling: 22 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or L)	Turbidity/Color	Analysis Method
MW3	3	VOA	HCL	40 ml		HVOCs by 8260B
MW3	1	AMBER	HCL	1L		TPH-D, TEHO

Total Purge Volume: 6 (gallons) Disposal: System

Weather Conditions: 04 BOLTS (Y) (N) - 2 missing

Condition of Well Box and Casing at Time of Sampling: 2x Bolts Missing CAP & LOCK (Y) (N)

Well Head Conditions Requiring Correction: GROUT (Y) (N)

Problems Encountered During Purging and Sampling: None WELL BOX (Y) (N)

Comments: SECURED (Y) (N)

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST Well No: MW2 Date: 6/15/05
Project No: TMSFT.6 Personnel: C. M. Feltner

GAUGING DATA

Water Level Measuring Method: WLM / IP

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
	31.85	21.14	10.71	1	2	4	6	1.71	5.14
			0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATER / BAILER / SUB PURGE RATE GPM

Time	11:42	11:48	11:54			
Volume Purged (gal)	2	4	6			
Temperature (°C)	18.51°C	18.47°C	18.48°C			
Flow Rate (gpm)	7.07	7.07	7.07			
Water Column (feet)	28.0/5.6m	26.8/5.6m	25.9/5.6m			
Water Column (feet)	31.8/2.9m	4.0/2.13	31.9/3.05			
Water Column (feet)	-175.5	-160.7	-147.6			
Water Column (feet)	Silty/Brown	Silty/Brown	Silty/Brown			
Water Column (feet)	Y	Y	Y			
Water Column (feet)	N	N	N			

Alkalinity:

Comments/Observations: *Shoes and odor*

SAMPLING DATA

Time Sampled: 12:05 Approximate Depth to Water During Sampling: 22 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/Color	Analysis Method
MW2	3	VOA	HCL	40 ml		HVOCs by 8260B
MW2	2	AMBER	HCL	1L		TPH-D, TEHO

Total Purge Volume: 6 (gallons) Disposal: System

Weather Conditions: BOLTS (X) / N - *missing*

Condition of Well Box and Casing at Time of Sampling: *OK* CAP & LOCK (X) / N

Well Head Conditions Requiring Correction: GROUT (X) / N

Problems Encountered During Purging and Sampling: *None* WELL BOX (X) / N

Comments: SECURED (X) / N

Appendix C

Laboratory Analytical Reports

O & M
Laboratory Analytical Results

ETIC Oakland

April 12, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Eric Zickler

Project#: TMSFT1

Project: Strough Family Trust

Attached is our report for your samples received on 03/23/2005 15:47

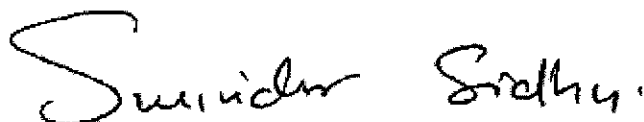
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/07/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,



Surinder Sidhu
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	03/23/2005 10:00	Water	1
MIDFLUENT	03/23/2005 10:10	Water	2
INFLUENT	03/23/2005 10:20	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

03/30/2005 16:05

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	EFFLUENT	Lab ID:	2005-03-0734 - 1
Sampled:	03/23/2005 10:00	Extracted:	3/29/2005 08:34
Matrix:	Water	QC Batch#:	2005/03/29-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	03/29/2005 16:47	
<i>Surrogate(s)</i> o-Terphenyl	82.4	60-130	%	1.00	03/29/2005 16:47	

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03/30/2005 16:05

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MIDFLUENT	Lab ID:	2005-03-0734 - 2
Sampled:	03/23/2005 10:10	Extracted:	3/29/2005 08:34
Matrix:	Water	QC Batch#:	2005/03/29-01_10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	03/29/2005 18:08	
Surrogate(s)						
o-Terphenyl	60.1	60-130	%	1.00	03/29/2005 18:08	

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03/30/2005 16:05

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: INFLUENT	Lab ID: 2005-03-0734 - 3
Sampled: 03/23/2005 10:20	Extracted: 3/29/2005 08:34
Matrix: Water	QC Batch#: 2005/03/29-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	4000	50	ug/L	1.00	03/29/2005 18:35	Q2
Surrogate(s) o-Terphenyl	62.1	60-130	%	1.00	03/29/2005 18:35	

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report					
Prep(s): 3510/8015M				Test(s): 8015M	
Method Blank		Water		QC Batch # 2005/03/29-01.10	
MB: 2005/03/29-01.10-001				Date Extracted: 03/29/2005 08:34	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	03/29/2005 15:26	
Surrogates(s) o-Terphenyl	81.5	60-130	%	03/29/2005 15:26	

Diesel

ETIC Oakland

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report										
Prep(s): 3510/8015M						Test(s): 8015M				
Laboratory Control Spike			Water			QC Batch # 2005/03/29-01.10				
LCS	2005/03/29-01.10-002		Extracted: 03/29/2005			Analyzed: 03/29/2005 15:53				
LCSD	2005/03/29-01.10-003		Extracted: 03/29/2005			Analyzed: 03/29/2005 16:20				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	820	742	1000	82.0	74.2	10.0	60-130	25		
Surrogates(s) o-Terphenyl	18.3	17.1	20.0	91.4	85.3		60-130	0		

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03/30/2005 16:05

Diesel

ETIC Oakland

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report			
Prep(s): 3510/8015M			Test(s): 8015M
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/03/29-01.10	
MIDFLUENT >> MS		Lab ID:	2005-03-0734 - 002
MS: 2005/03/29-01.10-004	Extracted: 03/29/2005	Analyzed:	03/29/2005 17:14
		Dilution:	1.00
MSD: 2005/03/29-01.10-005	Extracted: 03/29/2005	Analyzed:	03/29/2005 17:41
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Diesel	597	742	ND	1000	59.7	74.2	21.7	60-130	30	M5	
Surrogate(s) o-Terphenyl	14.8	17.5		20.0	74.2	87.5		60-130	0		

Diesel

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Legend and Notes

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

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03/30/2005 16:05

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	03/23/2005 10:00	Water	1
MIDFLUENT	03/23/2005 10:10	Water	2
INFLUENT	03/23/2005 10:20	Water	3

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04/11/2005 17:33

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFLUENT	Lab ID:	2005-03-0734 - 1
Sampled:	03/23/2005 10:00	Extracted:	4/2/2005 12:01
Matrix:	Water	QC Batch#:	2005/04/02-01.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	04/02/2005 12:01	
Toluene	ND	0.50	ug/L	1.00	04/02/2005 12:01	
Ethylbenzene	ND	0.50	ug/L	1.00	04/02/2005 12:01	
Total xylenes	ND	1.0	ug/L	1.00	04/02/2005 12:01	
Surrogate(s)						
1,2-Dichloroethane-d4	113.1	73-130	%	1.00	04/02/2005 12:01	
Toluene-d8	102.9	81-114	%	1.00	04/02/2005 12:01	

Fuel Oxygenates by 8260B

ETIC Oakland

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1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MIDFLUENT	Lab ID:	2005-03-0734 - 2
Sampled:	03/23/2005 10:10	Extracted:	4/2/2005 04:46
Matrix:	Water	QC Batch#:	2005/04/01-02.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	ND	0.50	ug/L	1.00	04/02/2005 04:46	
Toluene	ND	0.50	ug/L	1.00	04/02/2005 04:46	
Ethylbenzene	ND	0.50	ug/L	1.00	04/02/2005 04:46	
Total xylenes	ND	1.0	ug/L	1.00	04/02/2005 04:46	
Surrogate(s)						
1,2-Dichloroethane-d4	103.9	73-130	%	1.00	04/02/2005 04:46	
Toluene-d8	102.6	81-114	%	1.00	04/02/2005 04:46	

Fuel Oxygenates by 8260B

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFLUENT	Lab ID: 2005-03-0734 - 3
Sampled: 03/23/2005 10:20	Extracted: 4/6/2005 16:40
Matrix: Water	QC Batch#: 2005/04/06-01.69
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene	360	25	ug/L	50.00	04/06/2005 16:40	
Toluene	2300	25	ug/L	50.00	04/06/2005 16:40	
Ethylbenzene	740	25	ug/L	50.00	04/06/2005 16:40	
Total xylenes	6300	50	ug/L	50.00	04/06/2005 16:40	
Surrogate(s)						
1,2-Dichloroethane-d4	99.6	73-130	%	50.00	04/06/2005 16:40	
Toluene-d8	88.3	81-114	%	50.00	04/06/2005 16:40	

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04/11/2005 17:33

Fuel Oxygenates by 8260B

ETIC Oakland

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/04/01-02.66	
MB: 2005/04/01-02.66-043				Date Extracted: 04/01/2005 19:43	

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzene	ND	0.5	ug/L	04/01/2005 19:43	
Toluene	ND	0.5	ug/L	04/01/2005 19:43	
Ethylbenzene	ND	0.5	ug/L	04/01/2005 19:43	
Total xylenes	ND	1.0	ug/L	04/01/2005 19:43	
Surrogates(s)					
1,2-Dichloroethane-d4	100.2	73-130	%	04/01/2005 19:43	
Toluene-d8	103.8	81-114	%	04/01/2005 19:43	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank		Water	QC Batch # 2005/04/02-01.68
MB: 2005/04/02-01.68-034			Date Extracted: 04/02/2005 11:34

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzene	ND	0.5	ug/L	04/02/2005 11:34	
Toluene	ND	0.5	ug/L	04/02/2005 11:34	
Ethylbenzene	ND	0.5	ug/L	04/02/2005 11:34	
Total xylenes	ND	1.0	ug/L	04/02/2005 11:34	
Surrogates(s)					
1,2-Dichloroethane-d4	90.6	73-130	%	04/02/2005 11:34	
Toluene-d8	102.8	81-114	%	04/02/2005 11:34	

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04/11/2005 17:33

Fuel Oxygenates by 8260B

ETIC Oakland

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/04/06-01.69
MB: 2005/04/06-01.69-007		Date Extracted: 04/06/2005 09:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzene	ND	0.5	ug/L	04/06/2005 09:07	
Toluene	ND	0.5	ug/L	04/06/2005 09:07	
Ethylbenzene	ND	0.5	ug/L	04/06/2005 09:07	
Total xylenes	ND	1.0	ug/L	04/06/2005 09:07	
Surrogates(s)					
1,2-Dichloroethane-d4	92.0	73-130	%	04/06/2005 09:07	
Toluene-d8	93.2	81-114	%	04/06/2005 09:07	

Fuel Oxygenates by 8260B

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/04/01-02.66			
LCS		2005/04/01-02.66-017			Extracted: 04/01/2005		Analyzed: 04/01/2005 19:17		
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.2		25.0	92.8			69-129	20		
Toluene	26.5		25.0	106.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	485		500	97.0			73-130			
Toluene-d8	518		500	103.6			81-114			

Fuel Oxygenates by 8260B

ETIC Oakland

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/04/02-01.68			
LCS	2005/04/02-01.68-017		Extracted: 04/02/2005			Analyzed: 04/02/2005 11:17			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	25.8		25.0	103.2			69-129	20		
Toluene	28.2		25.0	112.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	366		500	73.2			73-130			
Toluene-d8	531		500	106.2			81-114			

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/04/06-01.69			
LCS	2005/04/06-01.69-047		Extracted: 04/06/2005			Analyzed: 04/06/2005 08:47			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.7		25.0	98.8			69-129	20		
Toluene	26.1		25.0	104.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	443		500	88.6			73-130			
Toluene-d8	463		500	92.6			81-114			

Fuel Oxygenates by 8260B

ETIC Oakland

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/04/01-02.66	
MS/MSD		Lab ID:	2005-03-0771 - 001
MS: 2005/04/01-02.66-034	Extracted: 04/01/2005	Analyzed:	04/01/2005 21:34
		Dilution:	1.00
MSD: 2005/04/01-02.66-059	Extracted: 04/01/2005	Analyzed:	04/01/2005 21:59
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	24.9	20.3	ND	25.0	99.6	81.2	20.4	69-129	20		R4
Toluene	28.2	22.6	ND	25.0	112.8	90.4	22.0	70-130	20		R4
Surrogate(s)											
1,2-Dichloroethane-d4	461	486		500	92.2	97.2		73-130			
Toluene-d8	510	506		500	101.9	101.2		81-114			

Fuel Oxygenates by 8260B

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Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/02-01.68

EFFLUENT >> MS

Lab ID: 2005-03-0734 - 001

MS: 2005/04/02-01.68-035

Extracted: 04/02/2005

Analyzed: 04/02/2005 12:18

Dilution: 1.00

MSD: 2005/04/02-01.68-036

Extracted: 04/02/2005

Analyzed: 04/02/2005 12:36

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	26.7	29.0	ND	25.0	106.8	116.0	8.3	69-129	20		
Toluene	27.4	30.8	ND	25.0	109.6	123.2	11.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	357	479		500	71.4	95.8		73-130	0	S6	
Toluene-d8	519	529		500	103.8	105.8		81-114	0		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/11/2005 17:33

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/04/06-01.69
MS/MSD		Lab ID:	2005-03-0884 - 014
MS:	2005/04/06-01.69-025	Extracted:	04/06/2005
		Analyzed:	04/06/2005 13:25
		Dilution:	1.00
MSD:	2005/04/06-01.69-044	Extracted:	04/06/2005
		Analyzed:	04/06/2005 13:44
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	22.6	23.7	ND	25.0	90.4	94.8	4.8	69-129	20		
Toluene	24.0	24.8	ND	25.0	96.0	99.2	3.3	70-130	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	438	441		500	87.6	88.2		73-130			
Toluene-d8	453	453		500	90.6	90.6		81-114			

Fuel Oxygenates by 8260B

ETIC Oakland
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Oakland, CA 94612
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Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present
in the sample.

Result Flag

R4

RPD exceeded method control limit; % recoveries within limits.

S6

Surrogate recoveries lower than acceptance limits.
Matrix interference suspected

STL San Francisco

Sample Receipt Checklist

Submission #: 2005-03-0724

Checklist completed by: (initials) JMM Date: 3/25/05

Courier name: STL San Francisco Client

Custody seals intact on shipping container/samples Yes No Not Present /

Chain of custody present? Yes / No

Chain of custody signed when relinquished and received? Yes / No

Chain of custody agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance (4°C ± 2)? Temp: 2°C Yes / No

Potential reason for > 6°C - Ice melted Ice in bags Not enough ice Not enough blue ice Samples in boxes

Sampled < 4hr. ago? Ice not required (e.g. air or bulk sample)

Ice Present Yes / No

Water - VOA vials have zero headspace? No VOA vials submitted Yes / No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO3 HCl H2SO4 NaOH ZnOAc - Lot #(s)

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) Date: / /04 Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	03/23/2005 11:00	Air	4
INLET	03/23/2005 11:10	Air	5

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

03/30/2005 11:06

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Prep(s):	5030B	Test(s):	8260B
Sample ID:	OUTLET	Lab ID:	2005-03-0734 - 4
Sampled:	03/23/2005 11:00	Extracted:	3/25/2005 01:55
Matrix:	Air	QC Batch#:	2005/03/24-02:65

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	03/25/2005 01:55	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	03/25/2005 01:55	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	03/25/2005 01:55	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	03/25/2005 01:55	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	03/25/2005 01:55	
<i>Surrogate(s)</i>									
1,2-Dichloroethane-d4	113.2	72-128	%			%	1	03/25/2005 01:55	
Toluene-d8	103.4	80-113	%			%	1	03/25/2005 01:55	

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03/30/2005 11:06

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Prep(s): 5030B	Test(s): 8260B
Sample ID: INLET	Lab ID: 2005-03-0734 - 5
Sampled: 03/23/2005 11:10	Extracted: 3/25/2005 12:20
Matrix: Air	QC Batch#: 2005/03/25-01.64
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	22000	500	mg/m3	6100	140	ppmv	10	03/25/2005 12:20	
Benzene	300	5.0	mg/m3	92	1.5	ppmv	10	03/25/2005 12:20	
Toluene	1300	5.0	mg/m3	340	1.3	ppmv	10	03/25/2005 12:20	
Ethylbenzene	240	5.0	mg/m3	54	1.1	ppmv	10	03/25/2005 12:20	
Total xylenes	1500	10	mg/m3	340	2.3	ppmv	10	03/25/2005 12:20	
Surrogate(s)									
1,2-Dichloroethane-d4	98.7	72-128	%			%	10	03/25/2005 12:20	
Toluene-d8	108.6	80-113	%			%	10	03/25/2005 12:20	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/03/24-02.65
MB: 2005/03/24-02.65-038		Date Extracted: 03/24/2005 19:38

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/24/2005 19:38	
Benzene	ND	0.5	ug/L	03/24/2005 19:38	
Toluene	ND	0.5	ug/L	03/24/2005 19:38	
Ethylbenzene	ND	0.5	ug/L	03/24/2005 19:38	
Total xylenes	ND	1.0	ug/L	03/24/2005 19:38	
Surrogates(s)					
1,2-Dichloroethane-d4	117.2	73-130	%	03/24/2005 19:38	
Toluene-d8	104.1	81-114	%	03/24/2005 19:38	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/03/25-01.64	
MB: 2005/03/25-01.64-022				Date Extracted: 03/25/2005 08:22	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/25/2005 08:22	
Benzene	ND	0.5	ug/L	03/25/2005 08:22	
Toluene	ND	0.5	ug/L	03/25/2005 08:22	
Ethylbenzene	ND	0.5	ug/L	03/25/2005 08:22	
Total xylenes	ND	1.0	ug/L	03/25/2005 08:22	
Surrogates(s)					
1,2-Dichloroethane-d4	97.8	73-130	%	03/25/2005 08:22	
Toluene-d8	105.0	81-114	%	03/25/2005 08:22	

Severn Trent Laboratories, Inc.

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03/30/2005 11:06

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/03/24-02.65			
LCS		2005/03/24-02.65-013		Extracted: 03/24/2005		Analyzed: 03/24/2005 19:13			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	26.8		25.0	107.2			69-129	20		
Toluene	28.6		25.0	114.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	491		500	98.2			73-130			
Toluene-d8	540		500	108.0			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/03/25-01.64			
LCS	2005/03/25-01.64-000		Extracted: 03/25/2005			Analyzed: 03/25/2005 08:00			
LCSD									

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.6		25.0	94.4			69-129	20		
Toluene	27.1		25.0	108.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	475		500	95.0			73-130			
Toluene-d8	520		500	104.0			81-114			

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03/30/2005 11:06

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/03/24-02.65	
MS/MSD		Lab ID:	2005-03-0487 - 007
MS: 2005/03/24-02.65-036	Extracted: 03/24/2005	Analyzed:	03/24/2005 21:36
		Dilution:	1.00
MSD: 2005/03/24-02.65-002	Extracted: 03/24/2005	Analyzed:	03/24/2005 22:02
		Dilution:	1.00

Compound	Conc. ug/L			Spk. Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	26.7	26.4	ND	25.0	106.8	105.6	1.1	69-129	20		
Toluene	28.2	26.8	ND	25.0	112.8	107.2	5.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	458	453		500	91.7	90.6		73-130			
Toluene-d8	479	480		500	95.8	95.9		81-114			

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

03/30/2005 11:06

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/03/25-01.64

MS/MSD

Lab ID: 2005-03-0492 - 001

MS: 2005/03/25-01.64-026

Extracted: 03/25/2005

Analyzed: 03/25/2005 13:26

Dilution: 1.00

MSD: 2005/03/25-01.64-049

Extracted: 03/25/2005

Analyzed: 03/25/2005 13:49

Dilution: 1.00

Compound	Conc. ug/L		Spk. Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	25.8	27.3	ND	25.0	103.2	109.2	5.6	69-129	20		
Toluene	27.7	29.5	ND	25.0	110.8	118.0	6.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	484	495		500	96.8	99.0		73-130			
Toluene-d8	521	537		500	104.2	107.4		81-114			

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03/30/2005 11:06

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/23/2005 15:47

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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03/30/2005 11:06

Page 10 of 10

2005-03-0734

Report To

Attn: Eric Zickler
 Company: ETIC Engineering
 Address: 1333 Broadway, Oakland, CA 94612
 Phone: 510-208-1600 Email: ezickler@eticeng.com
 x18
 Billed To: ETIC Engineering
 Attn: Katherine Brandt
 Phone: 208-1600 x11

Analysis Request

Sample ID	Date	Time	Matrix	Pre Ser. V.	TPH EPA - <input type="checkbox"/> 8016/8021 <input type="checkbox"/> 8090/8100 <input type="checkbox"/> Gas W <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Flammable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8068	TERP EPA 8015M <input type="checkbox"/> Siles Gel EST Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8010B <input type="checkbox"/> Gas <input type="checkbox"/> BTEX Cryolase <input type="checkbox"/> DCA <input type="checkbox"/> EPR <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HAPs) EPA 8021	Volatile Organics SCIMS (VOCs) EPA 8260B <input type="checkbox"/> 824	Semivolatiles SCIMS EPA 8270 <input type="checkbox"/> 825	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides - EPA 8081 <input type="checkbox"/> 808 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 805	PAHs by <input type="checkbox"/> 8276 <input type="checkbox"/> 8310	CAM17 Metals (EPA 8010/8070/871)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RORR <input type="checkbox"/> Other	W:ET (STLC) TCLP	Hexavalent Chromium ppb (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers
Effluent	3-23-05	1000	H ₂ O		X																3
		↓	H ₂ O				X														2
Midfluent		1010	H ₂ O		X																3
		↓	H ₂ O				X														2
Influent		1020	H ₂ O		X																3
		↓	H ₂ O				X														2
Outlet		1100	Air					X													2
Inlet		1110	Air					X													2

Please report with both units
ppmv and ug/L

Project Info.
 Project Name: Slough Family Trust
 Project#: TMSFT1
 PO#: _____
 Credit Card#: _____

Sample Receipt
 # of Containers: _____
 Head Space: _____
 Temp: 6/17°
 Conforms to record: _____

A 5 Day 72h 48h 24h Other: _____

Report: Routine Level 3 Level 4 EDD State Tank Farm EDF Global ID
 Special Instructions / Comments: _____

1) Relinquished by:
 Signature: S. McNew 1547
 Printed Name: S. McNew 3/23/05
 Company: ETIC

1) Received by:
 Signature: [Signature] 1547
 Printed Name: [Name] 3-23-05
 Company: STL-SF

2) Relinquished by:
 Signature: _____
 Printed Name: _____
 Company: _____

2) Received by:
 Signature: _____
 Printed Name: _____
 Company: _____

3) Relinquished by:
 Signature: _____
 Printed Name: _____
 Company: _____

3) Received by:
 Signature: _____
 Printed Name: _____
 Company: _____

ETIC Oakland

April 12, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Eric Zickler

Project#: TMSFT1

Project: Strough Family Trust

RECEIVED

APR 26 2005

ETIC ENGINEERING

Attached is our report for your samples received on 03/28/2005 16:30

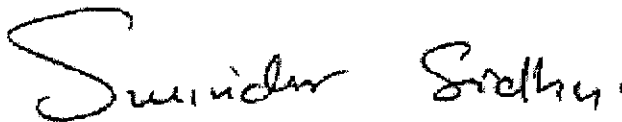
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/12/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,



Surinder Sidhu
Project Manager

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	03/28/2005 11:00	Water	1
MIDFLUENT	03/28/2005 11:10	Water	2
INFLUENT	03/28/2005 11:20	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.st-inc.com * CA DHS ELAP# 2496

04/12/2005 14:21

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Prep(s): 5030
5030
Test(s): 8015M
8021B
Sample ID: EFFLUENT
Lab ID: 2005-03-0888 - 1
Sampled: 03/28/2005 11:00
Extracted: 4/8/2005 15:37
Matrix: Water
QC Batch#: 2005/04/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/08/2005 15:37	
Benzene	ND	0.50	ug/L	1.00	04/08/2005 15:37	
Toluene	ND	0.50	ug/L	1.00	04/08/2005 15:37	
Ethyl benzene	ND	0.50	ug/L	1.00	04/08/2005 15:37	
Xylene(s)	ND	0.50	ug/L	1.00	04/08/2005 15:37	
Surrogate(s)						
Trifluorotoluene	104.0	58-124	%	1.00	04/08/2005 15:37	
4-Bromofluorobenzene-FID	92.9	50-150	%	1.00	04/08/2005 15:37	

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Prep(s): 5030	Test(s): 8015M
5030	8021B
Sample ID: MIDFLUENT	Lab ID: 2005-03-0888 - 2
Sampled: 03/28/2005 11:10	Extracted: 4/8/2005 16:11
Matrix: Water	QC Batch#: 2005/04/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/08/2005 16:11	
Benzene	ND	0.50	ug/L	1.00	04/08/2005 16:11	
Toluene	ND	0.50	ug/L	1.00	04/08/2005 16:11	
Ethyl benzene	ND	0.50	ug/L	1.00	04/08/2005 16:11	
Xylyene(s)	ND	0.50	ug/L	1.00	04/08/2005 16:11	
Surrogate(s)						
Trifluorotoluene	108.4	58-124	%	1.00	04/08/2005 16:11	
4-Bromofluorobenzene-FID	94.8	50-150	%	1.00	04/08/2005 16:11	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/12/2005 14:21

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Prep(s): 5030	Test(s): 8015M
5030	8021B
Sample ID: INFLUENT	Lab ID: 2005-03-0888 - 3
Sampled: 03/28/2005 11:20	Extracted: 4/9/2005 15:49
Matrix: Water	QC Batch#: 2005/04/09-1A.05
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	7900	1000	ug/L	20.00	04/09/2005 15:49	
Benzene	240	10	ug/L	20.00	04/09/2005 15:49	
Toluene	1100	10	ug/L	20.00	04/09/2005 15:49	
Ethyl benzene	150	10	ug/L	20.00	04/09/2005 15:49	
Xylene(s)	1900	10	ug/L	20.00	04/09/2005 15:49	
Surrogate(s)						
Trifluorotoluene	103.2	58-124	%	20.00	04/09/2005 15:49	
4-Bromofluorobenzene-FID	92.2	50-150	%	20.00	04/09/2005 15:49	

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

5030

Method Blank

MB: 2005/04/08-01.05-003

Test(s): 8015M

8021B

QC Batch # 2005/04/08-01.05

Date Extracted: 04/08/2005 08:29

Water

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/08/2005 08:29	
Benzene	ND	0.5	ug/L	04/08/2005 08:29	
Toluene	ND	0.5	ug/L	04/08/2005 08:29	
Ethyl benzene	ND	0.5	ug/L	04/08/2005 08:29	
Xylene(s)	ND	0.5	ug/L	04/08/2005 08:29	
Surrogates(s)					
Trifluorotoluene	113.4	58-124	%	04/08/2005 08:29	
4-Bromofluorobenzene-FID	101.3	50-150	%	04/08/2005 08:29	

Sewer Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/12/2005 14:21

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030
5030

Test(s): 8015M
8021B

Method Blank

Water

QC Batch # 2005/04/09-1A.05

MB: 2005/04/09-1A.05-003

Date Extracted: 04/09/2005 11:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/09/2005 11:48	
Benzene	ND	0.5	ug/L	04/09/2005 11:48	
Toluene	ND	0.5	ug/L	04/09/2005 11:48	
Ethyl benzene	ND	0.5	ug/L	04/09/2005 11:48	
Xylene(s)	ND	0.5	ug/L	04/09/2005 11:48	
Surrogates(s)					
Trifluorotoluene	114.0	58-124	%	04/09/2005 11:48	
4-Bromofluorobenzene-FID	93.0	50-150	%	04/09/2005 11:48	

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2005/04/08-01.05

LCS 2005/04/08-01.05-004

Extracted: 04/08/2005

Analyzed: 04/08/2005 09:02

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	54.3		50.0	108.6			77-123	20		
Toluene	55.0		50.0	110.0			78-122	20		
Ethyl benzene	53.9		50.0	107.8			70-130	20		
Xylene(s)	161		150	107.3			75-125	20		
Surrogates(s)										
Trifluorotoluene	572		500	114.4			58-124			

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/12/2005 14:21

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/04/08-01.05

LCS 2005/04/08-01.05-005

Extracted: 04/08/2005

Analyzed: 04/08/2005 09:36

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	241		250	96.4			75-125	20		
<i>Surrogates(s)</i>										
4-Bromofluorobenzene-FID	502		500	100.4			50-150			

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/12/2005 14:21

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2005/04/09-1A.05

LCS 2005/04/09-1A.05-004

Extracted: 04/09/2005

Analyzed: 04/09/2005 12:21

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	51.9		50	103.8			77-123	20		
Toluene	52.9		50	105.8			78-122	20		
Ethyl benzene	52.4		50	104.8			70-130	20		
Xylene(s)	158		150	105.3			75-125	20		
Surrogates(s)										
Trifluorotoluene	581		500	116.2			58-124			

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04/12/2005 14:21

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/04/09-1A.05

LCS 2005/04/09-1A.05-005
LCSD

Extracted: 04/09/2005

Analyzed: 04/09/2005 12:55

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	224		250	89.6			75-125	20		
<i>Surrogates(s)</i>										
4-Bromofluorobenzene-FID	480		500	96.0			50-150			

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04/12/2005 14:21

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/08-01.05

MS/MSD

Lab ID: 2005-03-0911 - 003

MS: 2005/04/08-01.05-018

Extracted: 04/08/2005

Analyzed: 04/08/2005 17:18

Dilution: 1.00

MSD: 2005/04/08-01.05-019

Extracted: 04/08/2005

Analyzed: 04/08/2005 17:51

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	50.0	53.6	ND	50.0	100.0	107.2	6.9	65-135	20		
Toluene	50.0	54.8	ND	50.0	100.0	109.6	9.2	65-135	20		
Ethyl benzene	48.3	53.6	ND	50.0	96.6	107.2	10.4	65-135	20		
Xylene(s)	149	163	ND	150	99.3	108.7	9.0	65-135	20		
Surrogate(s)											
Trifluorotoluene	531	548		500	106.2	109.6		58-124			

Sewer Trent Laboratories, Inc.

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04/12/2005 14:21

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/08-01.05

MS/MSD

Lab ID: 2005-03-0911 - 004

MS: 2005/04/08-01.05-020

Extracted: 04/08/2005

Analyzed: 04/08/2005 18:25

Dilution: 1.00

MSD: 2005/04/08-01.05-021

Extracted: 04/08/2005

Analyzed: 04/08/2005 18:58

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Gasoline	212	218	ND	250	84.8	87.2	2.8	65-135	20		
Surrogate(s) 4-Bromofluorobenzene-FID	453	470		500	90.5	94.0		50-150			

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/09-1A.05

MS/MSD

Lab ID: 2005-04-0021 - 004

MS: 2005/04/09-1A.05-021

Extracted: 04/09/2005

Analyzed: 04/09/2005 21:57

Dilution: 1.00

MSD: 2005/04/09-1A.05-022

Extracted: 04/09/2005

Analyzed: 04/09/2005 22:30

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	54.3	52.7	ND	50	108.6	105.4	3.0	65-135	20		
Toluene	55.4	52.5	ND	50	110.8	105.0	5.4	65-135	20		
Ethyl benzene	55.1	50.9	ND	50	110.2	101.8	7.9	65-135	20		
Xylene(s)	168	154	ND	150	112.0	102.7	8.7	65-135	20		
Surrogate(s)											
Trifluorotoluene	532	519		500	106.4	103.7		58-124			

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/09-1A.05

MS/MSD

Lab ID: 2005-04-0021 - 007

MS: 2005/04/09-1A.05-023

Extracted: 04/09/2005

Analyzed: 04/09/2005 23:04

Dilution: 1.00

MSD: 2005/04/09-1A.05-024

Extracted: 04/09/2005

Analyzed: 04/09/2005 23:37

Dilution: 1.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Gasoline	296	303	136	250	64.0	66.8	4.3	65-135	20	M5	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	478	501		500	95.6	100.2		50-150			

Gas/BTEX Compounds by 8015M/8021

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits. See blank spike (LCS).

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/12/2005 14:21

Diesel

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	03/28/2005 11:00	Water	1
MIDFLUENT	03/28/2005 11:10	Water	2
INFLUENT	03/28/2005 11:20	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/04/2005 16:41

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Prep(s): 3510/8015M

Test(s): 8015M

Sample ID: EFFLUENT

Lab ID: 2005-03-0888 - 1

Sampled: 03/28/2005 11:00

Extracted: 3/31/2005 15:11

Matrix: Water

QC Batch#: 2005/03/31-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/01/2005 23:53	
<i>Surrogate(s)</i> o-Terphenyl	107.6	60-130	%	1.00	04/01/2005 23:53	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/04/2005 16:41

Diesel

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: MIDFLUENT Lab ID: 2005-03-0888 - 2
Sampled: 03/28/2005 11:10 Extracted: 3/31/2005 15:11
Matrix: Water QC Batch#: 2005/03/31-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/02/2005 00:20	
<i>Surrogate(s)</i>						
o-Terphenyl	98.7	60-130	%	1.00	04/02/2005 00:20	

Diesel

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: INFLUENT	Lab ID: 2005-03-0888 - 3
Sampled: 03/28/2005 11:20	Extracted: 3/31/2005 15:11
Matrix: Water	QC Batch#: 2005/03/31-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1100	50	ug/L	1.00	04/04/2005 11:51	Q2
Surrogate(s) o-Terphenyl	60.3	60-130	%	1.00	04/04/2005 11:51	

Diesel

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2005/03/31-06.10-001

Water

Test(s): 8015M

QC Batch # 2005/03/31-06.10

Date Extracted: 03/31/2005 15:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/01/2005 22:32	
Surrogates(s) o-Terphenyl	100.1	60-130	%	04/01/2005 22:32	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/04/2005 16:41

Diesel

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/03/31-06.10

LCS 2005/03/31-06.10-002

Extracted: 03/31/2005

Analyzed: 04/01/2005 22:59

LCSD 2005/03/31-06.10-003

Extracted: 03/31/2005

Analyzed: 04/01/2005 23:26

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	926	881	1000	92.6	88.1	5.0	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	19.2	18.6	20.0	95.9	92.9		60-130	0		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/04/2005 16:41

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

SEVERN
TRENT

STL

STL San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: www.stl-inc.com

Reference #: 113680

2005-03-0888

Date 3/28/05 Page 1 of 1

Report To Attn: Eric Zickler Analysis Request

Company: ETIC Engineering
Address: 1333 Broadway, Oakland, CA 94612
Phone: 510-208-1600 Email: ezickler@eticeng.com
Bill To: ETIC Engineering
Attn: Katherine Brandt
Sampled By: S. Mcneir
Phone: 208-1600 x11

Sample ID	Date	Time	Matrix	Pre ser v.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8260B: <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> Five Oxyanides <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCS) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 60107/4707/471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers		
1	3-28-05	1100	H ₂ O	1/2	X																		
		L	H ₂ O	no			X																3
Midfluent		1110	H ₂ O	1/2	X																		2
			H ₂ O	no			X																3
Influent		1120	H ₂ O	1/2	X																		2
			H ₂ O	no			X																3
Outlet		1030	Air	no				X															2
Inlet		1050	Air	no				X															2

Please report with both units
ppmv and µg/L

Project Info.
Project Name: Strough Family Trust
Project#: TMSFT1
Credit Card#: _____
Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
Special Instructions / Comments: _____

Sample Receipt
of Containers: _____
Head Space: _____
Temp: 6°C
Conforms to record: _____
Other: _____

AT 5 Day 72h 48h 24h

1) Relinquished by:
Signature: S. Mcneir 16:30
Printed Name: S. Mcneir 3/28/05
Company: Etic Engineering

2) Relinquished by:
Signature: _____
Printed Name: _____
Company: _____

3) Relinquished by:
Signature: _____
Printed Name: _____
Company: _____

1) Received by:
Signature: T. Bullock 16:30
Printed Name: T. Bullock 3/28/05
Company: STL-SF

2) Received by:
Signature: _____
Printed Name: _____
Company: _____

3) Received by:
Signature: _____
Printed Name: _____
Company: _____

STL San Francisco

Sample Receipt Checklist

Submission #: 2005-03-0888

Checklist completed by: (initials) BT Date: 3, 29 /05

Courier name: STL San Francisco Client

Custody seals intact on shipping container/samples

Yes ___ No ___ Not Present

Chain of custody present?

Yes No ___

Chain of custody signed when relinquished and received?

Yes No ___

Chain of custody agrees with sample labels?

Yes No ___

Samples in proper container/bottle?

Yes No ___

Sample containers intact?

Yes No ___

Sufficient sample volume for indicated test?

Yes No ___

All samples received within holding time?

Yes No ___

Container/Temp Blank temperature in compliance (4° C ± 2)?

Air 20°
Temp: 6 °C Yes No ___

Potential reason for > 6°C - Ice melted Ice in bags Not enough ice Not enough blue ice Samples in boxes

Sampled < 4hr. ago? Ice not required (e.g. air or bulk sample)

Ice Present Yes No ___

Water - VOA vials have zero headspace?

No VOA vials submitted Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO3 HCl H2SO4 NaOH ZnOAc -Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/04 Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	03/28/2005 10:30	Air	4
INLET	03/28/2005 10:50	Air	5

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/07/2005 16:43

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Prep(s):	5030B	Test(s):	8260B
Sample ID:	OUTLET	Lab ID:	2005-03-0888 - 4
Sampled:	03/28/2005 10:30	Extracted:	3/31/2005 11:13
Matrix:	Air	QC Batch#:	2005/03/31-1A:68
Analysis Flag: H1 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	03/31/2005 11:13	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	03/31/2005 11:13	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	03/31/2005 11:13	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	03/31/2005 11:13	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	03/31/2005 11:13	
Surrogate(s)									
1,2-Dichloroethane-d4	94.5	72-128	%			%	1	03/31/2005 11:13	
Toluene-d8	102.0	80-113	%			%	1	03/31/2005 11:13	

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04/07/2005 16:43

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INLET	Lab ID:	2005-03-0888 - 5
Sampled:	03/28/2005 10:50	Extracted:	3/31/2005 11:06
Matrix:	Air	QC Batch#:	2005/03/31-1C.66
Analysis Flag: H1,L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	12000	500	mg/m3	3300	140	ppmv	10	03/31/2005 11:06	
Benzene	130	5.0	mg/m3	40	1.5	ppmv	10	03/31/2005 11:06	
Toluene	660	5.0	mg/m3	170	1.3	ppmv	10	03/31/2005 11:06	
Ethylbenzene	110	5.0	mg/m3	25	1.1	ppmv	10	03/31/2005 11:06	
Total xylenes	640	10	mg/m3	140	2.3	ppmv	10	03/31/2005 11:06	
Surrogate(s)									
1,2-Dichloroethane-d4	96.7	72-128	%			%	10	03/31/2005 11:06	
Toluene-d8	97.9	80-113	%			%	10	03/31/2005 11:06	

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04/07/2005 16:43

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report					
Prep(s): 5030B		Test(s): 8260B			
Method Blank		Water		QC Batch # 2005/03/31-1A.68	
MB: 2005/03/31-1A.68-043		Date Extracted: 03/31/2005 08:43			

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/31/2005 08:43	
Benzene	ND	0.5	ug/L	03/31/2005 08:43	
Toluene	ND	0.5	ug/L	03/31/2005 08:43	
Ethylbenzene	ND	0.5	ug/L	03/31/2005 08:43	
Total xylenes	ND	1.0	ug/L	03/31/2005 08:43	
Surrogates(s)					
1,2-Dichloroethane-d4	87.2	73-130	%	03/31/2005 08:43	
Toluene-d8	97.2	81-114	%	03/31/2005 08:43	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Received: 03/28/2005 16:30

Strough Family Trust

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/03/31-1C.66	
MB: 2005/03/31-1C.66-025				Date Extracted: 03/31/2005 08:25	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/31/2005 08:25	
Benzene	ND	0.5	ug/L	03/31/2005 08:25	
Toluene	ND	0.5	ug/L	03/31/2005 08:25	
Ethylbenzene	ND	0.5	ug/L	03/31/2005 08:25	
Total xylenes	ND	1.0	ug/L	03/31/2005 08:25	
Surrogates(s)					
1,2-Dichloroethane-d4	100.6	73-130	%	03/31/2005 08:25	
Toluene-d8	97.6	81-114	%	03/31/2005 08:25	

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/03/31-1A.68			
LCS		2005/03/31-1A.68-017		Extracted: 03/31/2005		Analyzed: 03/31/2005 09:17			
LCSD									

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	24.3		25	97.2			69-129	20		
Toluene	24.7		25	98.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	372		500	74.4			73-130			
Toluene-d8	518		500	103.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Attn.: Eric Zickler

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/03/31-1C.66			
LCS		2005/03/31-1C.66-059		Extracted: 03/31/2005		Analyzed: 03/31/2005 07:59			
LCSD									

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.7		25	98.8			69-129	20		
Toluene	29.0		25	116.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	470		500	94.0			73-130			
Toluene-d8	506		500	101.2			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/03/31-1A.68
MS/MSD			Lab ID: 2005-03-0741 - 001
MS: 2005/03/31-1A.68-004		Extracted: 03/31/2005	Analyzed: 03/31/2005 10:04
			Dilution: 1.00
MSD: 2005/03/31-1A.68-021		Extracted: 03/31/2005	Analyzed: 03/31/2005 10:21
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	20.9	23.2	ND	25	83.6	92.8	10.4	69-129	20		
Toluene	21.0	23.7	ND	25	84.0	94.8	12.1	70-130	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	374	374		500	74.8	74.8		73-130			
Toluene-d8	496	505		500	99.2	101.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/03/31-1C.66
MS/MSD		Lab ID:	2005-03-0674 - 001
MS:	2005/03/31-1C.66-032	Extracted:	03/31/2005
		Analyzed:	03/31/2005 11:32
		Dilution:	1.00
MSD:	2005/03/31-1C.66-057	Extracted:	03/31/2005
		Analyzed:	03/31/2005 11:57
		Dilution:	1.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	28.2	27.1	ND	25	112.8	108.4	4.0	69-129	20		
Toluene	31.2	31.1	ND	25	124.8	124.4	0.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	504	503		500	100.8	100.6		73-130			
Toluene-d8	545	538		500	109.0	107.6		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Project: TMSFT1
Strough Family Trust

Received: 03/28/2005 16:30

Legend and Notes

Analysis Flag

H1

Extracted out of holding time.

L2

Reporting limits were raised due to high level of analyte present in the sample.

Severn Trent Laboratories, Inc.

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04/07/2005 16:43

Page 10 of 10

ETIC Oakland

April 12, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Eric Zickler

Project#: TMSFT1

Project: Strough Family Trust

Attached is our report for your samples received on 04/04/2005 16:30

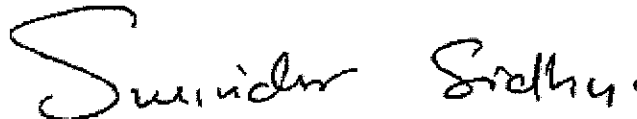
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/19/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,



Surinder Sidhu
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	04/04/2005 10:30	Water	1
MIDFLUENT	04/04/2005 10:35	Water	2
INFLUENT	04/04/2005 10:40	Water	3

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFLUENT	Lab ID:	2005-04-0082 - 1
Sampled:	04/04/2005 10:30	Extracted:	4/6/2005 23:52
Matrix:	Water	QC Batch#:	2005/04/06-02.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/06/2005 23:52	
Benzene	ND	0.50	ug/L	1.00	04/06/2005 23:52	
Toluene	ND	0.50	ug/L	1.00	04/06/2005 23:52	
Ethylbenzene	ND	0.50	ug/L	1.00	04/06/2005 23:52	
Total xylenes	ND	1.0	ug/L	1.00	04/06/2005 23:52	
Surrogate(s)						
1,2-Dichloroethane-d4	104.4	73-130	%	1.00	04/06/2005 23:52	
Toluene-d8	100.4	81-114	%	1.00	04/06/2005 23:52	

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04/29/2005 09:01

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

Prep(s): 5030B	Test(s): 8260B
Sample ID: MIDFLUENT	Lab ID: 2005-04-0082 - 2
Sampled: 04/04/2005 10:35	Extracted: 4/7/2005 00:19
Matrix: Water	QC Batch#: 2005/04/06-02.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/07/2005 00:19	
Benzene	ND	0.50	ug/L	1.00	04/07/2005 00:19	
Toluene	ND	0.50	ug/L	1.00	04/07/2005 00:19	
Ethylbenzene	ND	0.50	ug/L	1.00	04/07/2005 00:19	
Total xylenes	ND	1.0	ug/L	1.00	04/07/2005 00:19	
Surrogate(s)						
1,2-Dichloroethane-d4	116.0	73-130	%	1.00	04/07/2005 00:19	
Toluene-d8	94.7	81-114	%	1.00	04/07/2005 00:19	

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04/29/2005 09:01

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFLUENT	Lab ID: 2005-04-0082 - 3
Sampled: 04/04/2005 10:40	Extracted: 4/7/2005 00:44
Matrix: Water	QC Batch#: 2005/04/06-02.65
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	16000	1000	ug/L	20.00	04/07/2005 00:44	
Benzene	150	0.50	ug/L	20.00	04/07/2005 00:44	
Toluene	890	0.50	ug/L	20.00	04/07/2005 00:44	
Ethylbenzene	150	0.50	ug/L	20.00	04/07/2005 00:44	
Total xylenes	2200	1.0	ug/L	20.00	04/07/2005 00:44	
Surrogate(s)						
1,2-Dichloroethane-d4	101.1	73-130	%	20.00	04/07/2005 00:44	
Toluene-d8	99.2	81-114	%	20.00	04/07/2005 00:44	

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04/29/2005 09:01

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

Batch QC Report

Prep(s): 5030B

Method: Blank

MB: 2005/04/06-02.65-050

Water

Test(s): 8260B

QC Batch # 2005/04/06-02.65

Date Extracted: 04/06/2005 20:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/06/2005 20:14	
Benzene	ND	0.5	ug/L	04/06/2005 20:14	
Toluene	ND	0.5	ug/L	04/06/2005 20:14	
Ethylbenzene	ND	0.5	ug/L	04/06/2005 20:14	
Total xylenes	ND	1.0	ug/L	04/06/2005 20:14	
Surrogates(s)					
1,2-Dichloroethane-d4	102.4	73-130	%	04/06/2005 20:14	
Toluene-d8	97.6	81-114	%	04/06/2005 20:14	

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04/29/2005 09:01

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/04/06-02.65			
LCS		2005/04/06-02.65-049		Extracted: 04/06/2005		Analyzed: 04/06/2005 19:49			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.4		25.0	85.6			69-129	20		
Toluene	21.3		25.0	85.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	432		500	86.4			73-130			
Toluene-d8	487		500	97.4			81-114			

Fuel Oxygenates by 8260B

ETIC Oakland
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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/04/06-02.65
MS/MSD		Lab ID:	2005-04-0057 - 001
MS: 2005/04/06-02.65-014		Extracted:	04/06/2005
MSD: 2005/04/06-02.65-040		Extracted:	04/06/2005
		Analyzed:	04/06/2005 21:14
		Dilution:	1.00
		Analyzed:	04/06/2005 21:40
		Dilution:	1.00

Compound	Conc. ug/L			Spk. Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	22.1	24.1	ND	25.0	88.4	96.4	8.7	69-129	20		
Toluene	22.1	27.2	ND	25.0	88.4	108.8	20.7	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	457	424		500	91.3	84.9		73-130			
Toluene-d8	498	558		500	99.6	111.7		81-114			

Fuel Oxygenates by 8260B

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

R1

Analyte RPD was out of QC limits.

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	04/04/2005 10:30	Water	1
MIDFLUENT	04/04/2005 10:35	Water	2
INFLUENT	04/04/2005 10:40	Water	3

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04/12/2005 17:09

Page 1 of 7

Diesel

ETIC Oakland
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1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: EFFLUENT	Lab ID: 2005-04-0082 - 1
Sampled: 04/04/2005 10:30	Extracted: 4/7/2005 12:26
Matrix: Water	QC Batch#: 2005/04/07-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/08/2005 16:20	
<i>Surrogate(s)</i> o-Terphenyl	88.1	60-130	%	1.00	04/08/2005 16:20	

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MIDFLUENT	Lab ID: 2005-04-0082 - 2
Sampled: 04/04/2005 10:35	Extracted: 4/7/2005 12:26
Matrix: Water	QC Batch#: 2005/04/07-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/08/2005 16:47	
Surrogate(s) o-Terphenyl	75.7	60-130	%	1.00	04/08/2005 16:47	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/12/2005 17:09

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: INFLUENT	Lab ID: 2005-04-0082 - 3
Sampled: 04/04/2005 10:40	Extracted: 4/7/2005 12:26
Matrix: Water	QC Batch#: 2005/04/07-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2900	50	ug/L	1.00	04/08/2005 17:15	Q2
<i>Surrogate(s)</i> o-Terphenyl	49.2	60-130	%	1.00	04/08/2005 17:15	S6

Diesel

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2005/04/07-05.10-001

Water

Test(s): 8015M

QC Batch # 2005/04/07-05.10

Date Extracted: 04/07/2005 12:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/08/2005 16:20	
Surrogates(s) o-Terphenyl	92.8	60-130	%	04/08/2005 16:20	

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/12/2005 17:09

Diesel

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/04/07-05.10

LCS 2005/04/07-05.10-002

Extracted: 04/07/2005

Analyzed: 04/08/2005 16:47

LCSD 2005/04/07-05.10-003

Extracted: 04/07/2005

Analyzed: 04/08/2005 17:15

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	804	834	1000	80.4	83.4	3.7	60-130	25		
Surrogates(s) o-Terphenyl	18.0	18.4	20.0	90.1	92.1		60-130	0		

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STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/12/2005 17:09

Diesel

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

S6

Surrogate recoveries lower than acceptance limits.
Matrix interference suspected

Severn Trent Laboratories, Inc.

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04/12/2005 17:09

Page 7 of 7

Submission #: 2005-04-0082

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

SEVERN

TRENT

LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	04/04/2005 11:00	Air	4
INLET	04/04/2005 11:20	Air	5

Submission #: 2005-04-0082

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler
1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

SEVERN
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LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8260B
Sample ID: OUTLET Lab ID: 2005-04-0082 - 4
Sampled: 04/04/2005 11:00 Extracted: 4/5/2005 08:22
Matrix: Air QC Batch#: 2005/04/05-1F.65

Compound	Conc.	MDL	RL	Unit	Conc.	MDL	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	34	50	mg/m3	ND	9.8	14	ppmv	1.00	04/05/2005 08:22	
Benzene	ND	0.16	0.50	mg/m3	ND	0.0495	0.15	ppmv	1.00	04/05/2005 08:22	
Toluene	ND	0.14	0.50	mg/m3	ND	0.0368	0.13	ppmv	1.00	04/05/2005 08:22	
Ethylbenzene	ND	0.15	0.50	mg/m3	ND	0.0342	0.11	ppmv	1.00	04/05/2005 08:22	
Total xylenes	ND	0.30	1.0	mg/m3	ND	0.0670	0.23	ppmv	1.00	04/05/2005 08:22	
Surrogates(s)											
1,2-Dichloroethane-d4	97.1		72-128	%				%	1.00	04/05/2005 08:22	
Toluene-d8	100.0		80-113	%				%	1.00	04/05/2005 08:22	

Submission #: 2005-04-0082

SEVERN

Gas/BTEX Fuel Oxygenates by 8260B

TRENT

LABORATORY

ETIC Oakland

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Attn.: Eric Zickler
1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INLET	Lab ID:	2005-04-0082 - 5
Sampled:	04/04/2005 11:20	Extracted:	4/5/2005 08:48
Matrix:	Air	QC Batch#:	2005/04/05-1F.65
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	MDL	RL	Unit	Conc.	MDL	RL	Unit	Dilution	Analyzed	Flag
Gasoline	14000	340	500	mg/m3	3900	98	140	ppmv	10.00	04/05/2005 08:48	
Benzene	150	1.6	5.0	mg/m3	46	0.495	1.5	ppmv	10.00	04/05/2005 08:48	
Toluene	730	1.4	5.0	mg/m3	190	0.368	1.3	ppmv	10.00	04/05/2005 08:48	
Ethylbenzene	120	1.5	5.0	mg/m3	27	0.342	1.1	ppmv	10.00	04/05/2005 08:48	
Total xylenes	730	3.0	10	mg/m3	170	0.670	2.3	ppmv	10.00	04/05/2005 08:48	
Surrogates(s)											
1,2-Dichloroethane-d4	102.1		72-128	%				%	10.00	04/05/2005 08:48	
Toluene-d8	96.8		80-113	%				%	10.00	04/05/2005 08:48	

Submission #: 2005-04-0082

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

SEVERN

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LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/04/05-1F.65-041

Water

Test(s): 8260B

QC Batch # 2005/04/05-1F.65

Date Extracted: 04/05/2005 07:41

Compound	Conc.	MDL	RL	Unit	Analyzed	Flag
Gasoline	ND	33.5	50	ug/L	04/05/2005 07:41	
Benzene	ND	0.161	0.5	ug/L	04/05/2005 07:41	
Toluene	ND	0.141	0.5	ug/L	04/05/2005 07:41	
Ethylbenzene	ND	0.151	0.5	ug/L	04/05/2005 07:41	
Total xylenes	ND	0.296	1.0	ug/L	04/05/2005 07:41	
Surrogates(s)						
1,2-Dichloroethane-d4	93.0		73-130	%	04/05/2005 07:41	
Toluene-d8	99.8		81-114	%	04/05/2005 07:41	

Submission #: 2005-04-0082

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler
1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

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STL San Francisco
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Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/05-1F.65

LCS 2005/04/05-1F.65-015

Extracted: 04/05/2005

Analyzed: 04/05/2005 07:15

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %			Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS	LCSD
Benzene	20.6		25	82.4			69-129	20			
Toluene	22.3		25	89.2			70-130	20			
Surrogates(s)											
1,2-Dichloroethane-d4	428		500	85.6			73-130				
Toluene-d8	543		500	108.6			81-114				

Submission #: 2005-04-0082

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler
1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1
Strough Family Trust

Received: 04/04/2005 16:30

SEVERN
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LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/05-1F.65

MS/MSD

Lab ID: 2005-03-0891 - 001

MS: 2005/04/05-1F.65-059

Extracted: 04/05/2005

Analyzed: 04/05/2005 10:59

Dilution: 1.00

MSD: 2005/04/05-1F.65-025

Extracted: 04/05/2005

Analyzed: 04/05/2005 11:25

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	18.5	21.2	ND	25	74.0	84.8	13.6	69-129	20		
Toluene	20.5	21.7	ND	25	82.0	86.8	5.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	438	469		500	87.6	93.8		73-130			
Toluene-d8	492	508		500	98.4	101.6		81-114			

Submission #: 2005-04-0082

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1

Strough Family Trust

Received: 04/04/2005 16:30

SEVERN

TRENT

LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

2005-04-0082

Report To Analysis Request

Attn: Eric Zickler
Company: ETIC Engineering
Address: 1333 Broadway, Oakland, CA 94612
Phone: 510-208-1600 Email: ezickler@eticeng.com
Bill To: ETIC Engineering Sampled By: J. McNeir
Attn: Katherine Brandt Phone: 208-1600 x11

TPH EPA - 8151021 82609
 Gas W. BTX MTBE
Purgeable Organics
BTX EPA - 8021 82606
TEPH EPA 8015M Silica Gel
 Diesel Motor Oil Other
Fuel Tests EPA 8260B Gas BTX Fin.
Oxygens DCA EOB Ethanol
Purgeable Halocarbons
(HVOCs) EPA 8021
Volatile Organics GC/MS (VOCs)
 EPA 8260B 524
Semi-Volatiles GC/MS
 EPA 8270 625
Oil and Grease Petroleum
(EPA 1604) Total
Pesticides EPA 8061 606
PCBs EPA 8082 606
PbAs by 8270 8310
CAM17 Metals
(EPA 9910/7470/7471)
Metals: Lead LUFT RCRA
 Other
WET (STLC)
TCLP
Hexavalent Chromium
pH (24h Hold time for H₂O)
Spec Cond. Alkalinity
TSS TDS
Anions: Cl SO₄ NO₃ F
 Br NO₂ PO₄

Sample ID	Date	Time	Matl	Pre ser	TPH EPA	Purgeable Organics	TEPH EPA	Fuel Tests	Purgeable Halocarbons	Volatile Organics	Semi-Volatiles	Oil and Grease	Pesticides	PCBs	PbAs by	CAM17 Metals	Metals	WET (STLC)	TCLP	Hexavalent Chromium	pH	Spec Cond.	Alkalinity	TSS	IDS	Anions	Number of Containers
Effluent	4-4-05	1030	H ₂ O	161	X																						1
			H ₂ O	161						X																	2
Midfluent		1035	H ₂ O	161	X																						2
			H ₂ O	161					X																		3
Influent		1040	H ₂ O	161	X																						2
			H ₂ O	161					X																		3
Outlet		1100	Air	160																							2
Inlet		1120	Air	160					X																		2

Please report with both units ppmv and µg/L

Project Info.				Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: Strought Family Trust				# of Containers:		Signature: J. McNeir		Signature:		Signature:	
Project#: TMSFT1				Head Space:		Time: 16:30		Time:		Time:	
PO#:				Temp: 4°C / 45-20°C		Printed Name: J. McNeir		Printed Name:		Printed Name:	
Credit Card#:				Confirms to record:		Date: 4/4/05		Date:		Date:	
Company: Etic						Company: Etic		Company:		Company:	
<input type="checkbox"/> 5 Day <input type="checkbox"/> 72h <input type="checkbox"/> 48h <input type="checkbox"/> 24h Other:						1) Received by: [Signature]		2) Received by:		3) Received by:	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF Special Instructions / Comments:						Signature: T. Bullock		Signature:		Signature:	
						Time: 16:30		Time:		Time:	
						Date: 4/4/05		Date:		Date:	
						Company: STL-SF		Company:		Company:	

ETIC Oakland

May 03, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Eric Zickler

Project#: TMSFT1 Task 10.8

Project: Stough Family Trust

Attached is our report for your samples received on 04/19/2005 15:55

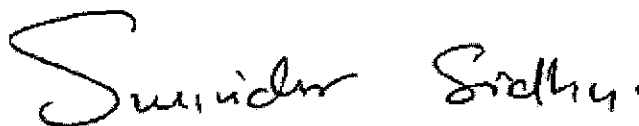
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/03/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,



Surinder Sidhu
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	04/18/2005 05:30	Water	1

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/27/2005 17:56

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: EFFLUENT	Lab ID: 2005-04-0557 - 1
Sampled: 04/18/2005 05:30	Extracted: 4/21/2005 13:38
Matrix: Water	QC Batch#: 2005/04/21-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/22/2005 23:54	
<i>Surrogate(s)</i>						
o-Terphenyl	76.3	60-130	%	1.00	04/22/2005 23:54	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/27/2005 17:56

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report		
Prep(s): 3510/8015M		Test(s): 8015M
Method Blank	Water	QC Batch # 2005/04/21-04.10
MB: 2005/04/21-04.10-001		Date Extracted: 04/21/2005 13:38

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	82.5	50	ug/L	04/23/2005 08:49	A1
<i>Surrogates(s)</i> o-Terphenyl	82.4	60-130	%	04/23/2005 08:49	

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report										
Prep(s): 3510/8015M					Test(s): 8015M					
Laboratory Control Spike			Water			QC Batch # 2005/04/21-04.10				
LCS	2005/04/21-04.10-002		Extracted: 04/21/2005			Analyzed: 04/23/2005 08:22				
LCSD	2005/04/21-04.10-003		Extracted: 04/21/2005			Analyzed: 04/23/2005 07:55				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	658	634	1000	65.8	63.4	3.7	60-130	25		
Surrogates(s) o-Terphenyl	15.9	15.8	20.0	79.6	79.2		60-130	0		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/27/2005 17:56

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	04/18/2005 05:30	Water	1
MIDFLUENT	04/18/2005 05:40	Water	2
INFLUENT	04/18/2005 05:50	Water	3

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Prep(s): 5030B	Test(s): 8260B
Sample ID: EFFLUENT	Lab ID: 2005-04-0557 - 1
Sampled: 04/18/2005 05:30	Extracted: 4/24/2005 21:06
Matrix: Water	QC Batch#: 2005/04/24-02.65
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/24/2005 21:06	
Benzene	ND	0.50	ug/L	1.00	04/24/2005 21:06	
Toluene	ND	0.50	ug/L	1.00	04/24/2005 21:06	
Ethylbenzene	ND	0.50	ug/L	1.00	04/24/2005 21:06	
Total xylenes	ND	1.0	ug/L	1.00	04/24/2005 21:06	
Surrogate(s)						
1,2-Dichloroethane-d4	100.7	73-130	%	1.00	04/24/2005 21:06	
Toluene-d8	102.2	81-114	%	1.00	04/24/2005 21:06	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MIDFLUENT	Lab ID:	2005-04-0557 - 2
Sampled:	04/18/2005 05:40	Extracted:	4/24/2005 22:34
Matrix:	Water	QC Batch#:	2005/04/24-02.65
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/24/2005 22:34	
Benzene	ND	0.50	ug/L	1.00	04/24/2005 22:34	
Toluene	ND	0.50	ug/L	1.00	04/24/2005 22:34	
Ethylbenzene	ND	0.50	ug/L	1.00	04/24/2005 22:34	
Total xylenes	ND	1.0	ug/L	1.00	04/24/2005 22:34	
Surrogate(s)						
1,2-Dichloroethane-d4	98.0	73-130	%	1.00	04/24/2005 22:34	
Toluene-d8	103.8	81-114	%	1.00	04/24/2005 22:34	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INFLUENT	Lab ID:	2005-04-0557 - 3
Sampled:	04/18/2005 05:50	Extracted:	4/24/2005 23:04
Matrix:	Water	QC Batch#:	2005/04/24-02.65
Analysis Flag: L2, pH: <2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	17000	1000	ug/L	20.00	04/24/2005 23:04	
Benzene	610	10	ug/L	20.00	04/24/2005 23:04	
Toluene	2300	10	ug/L	20.00	04/24/2005 23:04	
Ethylbenzene	300	10	ug/L	20.00	04/24/2005 23:04	
Total xylenes	3500	20	ug/L	20.00	04/24/2005 23:04	
Surrogate(s)						
1,2-Dichloroethane-d4	96.9	73-130	%	20.00	04/24/2005 23:04	
Toluene-d8	97.5	81-114	%	20.00	04/24/2005 23:04	

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04/27/2005 14:51

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/04/24-02.65
MB: 2005/04/24-02.65-011		Date Extracted: 04/24/2005 19:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/24/2005 19:11	
Benzene	ND	0.5	ug/L	04/24/2005 19:11	
Toluene	ND	0.5	ug/L	04/24/2005 19:11	
Ethylbenzene	ND	0.5	ug/L	04/24/2005 19:11	
Total xylenes	ND	1.0	ug/L	04/24/2005 19:11	
Surrogates(s)					
1,2-Dichloroethane-d4	93.4	73-130	%	04/24/2005 19:11	
Toluene-d8	94.0	81-114	%	04/24/2005 19:11	

Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
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Received: 04/19/2005 15:55

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/04/24-02.65				
LCS	2005/04/24-02.65-016		Extracted: 04/24/2005			Analyzed: 04/24/2005 18:16				
LCSD	2005/04/24-02.65-044		Extracted: 04/24/2005			Analyzed: 04/24/2005 18:44				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	27.6	26.9	25.0	110.4	107.6	2.6	69-129	20		
Toluene	25.9	26.9	25.0	103.6	107.6	3.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	420	374	500	84.0	74.8		73-130			
Toluene-d8	485	504	500	97.0	100.8		81-114			

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Fuel Oxygenates by 8260B

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/04/24-02.65	
EFFLUENT >> MS		Lab ID:	2005-04-0557 - 001
MS: 2005/04/24-02.65-036	Extracted: 04/24/2005	Analyzed:	04/24/2005 21:36
		Dilution:	1.00
MSD: 2005/04/24-02.65-005	Extracted: 04/24/2005	Analyzed:	04/24/2005 22:05
		Dilution:	1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	32.6	30.3	ND	25.0	130.4	121.2	7.3	69-129	20	M4	
Toluene	31.2	27.5	ND	25.0	124.8	110.0	12.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	404	401		500	80.8	80.2		73-130			
Toluene-d8	503	463		500	100.6	92.6		81-114			

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Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

M4

MS/MSD spike recoveries were above acceptance limits. See blank spike (LCS).

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Diesel with Silica Gel Clean-up

ETIC Oakland

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1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MIDFLUENT	04/18/2005 05:40	Water	2
INFLUENT	04/18/2005 05:50	Water	3

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05/02/2005 15:04

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

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Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MIDFLUENT	Lab ID:	2005-04-0557 - 2
Sampled:	04/18/2005 05:40	Extracted:	4/28/2005 07:22
Matrix:	Water	QC Batch#:	2005/04/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/29/2005 13:28	
<i>Surrogate(s)</i> o-Terphenyl	69.3	60-130	%	1.00	04/29/2005 13:28	

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Diesel with Silica Gel Clean-up

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Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	INFLUENT	Lab ID:	2005-04-0557 - 3
Sampled:	04/18/2005 05:50	Extracted:	4/28/2005 07:22
Matrix:	Water	QC Batch#:	2005/04/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	990	50	ug/L	1.00	04/29/2005 13:55	Q2
Surrogate(s) o-Terphenyl	30.8	60-130	%	1.00	04/29/2005 13:55	S6

Diesel with Silica Gel Clean-up

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Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report					
Prep(s): 3510/8015M				Test(s): 8015M	
Method Blank		Water		QC Batch # 2005/04/28-01.10	
MB: 2005/04/28-01.10-001				Date Extracted: 04/28/2005 07:22	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/28/2005 11:46	
<i>Surrogates(s)</i> o-Terphenyl	77.0	60-130	%	04/28/2005 11:46	

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Diesel with Silica Gel Clean-up

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Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report										
Prep(s): 3510/8015M						Test(s): 8015M				
Laboratory Control Spike				Water			QC Batch # 2005/04/28-01.10			
LCS	2005/04/28-01.10-002			Extracted: 04/28/2005			Analyzed: 04/28/2005 11:46			
LCSD	2005/04/28-01.10-003			Extracted: 04/28/2005			Analyzed: 04/28/2005 12:40			
Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	822	792	1000	82.2	79.2	3.7	60-130	25		
Surrogates(s) o-Terphenyl	16.5	16.7	20.0	82.5	83.7		60-130	0		

Diesel with Silica Gel Clean-up

ETIC Oakland

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Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

S6

Surrogate recoveries lower than acceptance limits.
Matrix interference suspected

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05/02/2005 15:04

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	04/18/2005 06:15	Air	4
INLET	04/18/2005 06:30	Air	5

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05/03/2005 11:55

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Stough Family Trust

Received: 04/19/2005 15:55

Prep(s):	5030B	Test(s):	8260B
Sample ID:	OUTLET	Lab ID:	2005-04-0557 - 4
Sampled:	04/18/2005 06:15	Extracted:	4/21/2005 01:42
Matrix:	Air	QC Batch#:	2005/04/20-2E.64

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	04/21/2005 01:42	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	04/21/2005 01:42	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	04/21/2005 01:42	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	04/21/2005 01:42	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	04/21/2005 01:42	
Surrogate(s)									
1,2-Dichloroethane-d4	128.1	72-128	%			%	1	04/21/2005 01:42	S7
Toluene-d8	94.7	80-113	%			%	1	04/21/2005 01:42	

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Prep(s): 5030B	Test(s): 8260B
Sample ID: INLET	Lab ID: 2005-04-0557 - 5
Sampled: 04/18/2005 06:30	Extracted: 4/21/2005 02:25
Matrix: Air	QC Batch#: 2005/04/20-2E.64
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	11000	500	mg/m3	3100	140	ppmv	10	04/21/2005 02:25	
Benzene	150	5.0	mg/m3	46	1.5	ppmv	10	04/21/2005 02:25	
Toluene	630	5.0	mg/m3	160	1.3	ppmv	10	04/21/2005 02:25	
Ethylbenzene	120	5.0	mg/m3	27	1.1	ppmv	10	04/21/2005 02:25	
Total xylenes	730	10	mg/m3	170	2.3	ppmv	10	04/21/2005 02:25	
<i>Surrogate(s)</i>									
1,2-Dichloroethane-d4	110.0	72-128	%			%	10	04/21/2005 02:25	
Toluene-d8	105.6	80-113	%			%	10	04/21/2005 02:25	

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2005/04/20-2E.64
MB: 2005/04/20-2E.64-029			Date Extracted: 04/20/2005 18:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/20/2005 18:29	
Benzene	ND	0.5	ug/L	04/20/2005 18:29	
Toluene	ND	0.5	ug/L	04/20/2005 18:29	
Ethylbenzene	ND	0.5	ug/L	04/20/2005 18:29	
Total xylenes	ND	1.0	ug/L	04/20/2005 18:29	
Surrogates(s)					
1,2-Dichloroethane-d4	105.3	73-130	%	04/20/2005 18:29	
Toluene-d8	102.1	81-114	%	04/20/2005 18:29	

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Water	
LCS 2005/04/20-2E.64-051		QC Batch # 2005/04/20-2E.64	
LCSD		Extracted: 04/20/2005	
		Analyzed: 04/20/2005 18:51	

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.2		25	96.8			69-129	20		
Toluene	25.2		25	100.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	479		500	95.8			73-130			
Toluene-d8	509		500	101.8			81-114			

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/04/20-2E.64
MS/MSD			Lab ID: 2005-04-0318 - 002
MS: 2005/04/20-2E.64-016		Extracted: 04/21/2005	Analyzed: 04/21/2005 00:16
			Dilution: 1.00
MSD: 2005/04/20-2E.64-037		Extracted: 04/21/2005	Analyzed: 04/21/2005 00:37
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	21.9	25.4	ND	25	87.6	101.6	14.8	69-129	20		
Toluene	23.8	25.6	ND	25	95.2	102.4	7.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	532	539		500	106.5	107.8		73-130			
Toluene-d8	518	509		500	103.6	101.8		81-114			

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
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Project: TMSFT1 Task 10.8
Stough Family Trust

Received: 04/19/2005 15:55

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present
in the sample.

Result Flag

S7

Surrogate recoveries higher than acceptance limits.

Severn Trent Laboratories, Inc.

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05/03/2005 11:55

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2005-04-0557

Report To Analysis Request

Attn: Eric Zickler
Company: ETIC Engineering
Address: 1333 Broadway, Oakland, CA 94612
Phone: 510-208-1800 x18 Email: ezickler@aticeng.com
Bill To: ETIC Engineering
Sampled By: S. McNeil
Alln: Katherine Brandt
Phone: 208-1800 x11

Sample ID	Date	Time	Matl	Pre	TPH EPA - 8260B	Purgeable Aromatics	TEPH EPA 8015M	Fuel Tests EPA 8260B	Purgeable Halocarbons	Volatile Organics GC/MS	Semivolatiles GC/MS	Oil and Grease	Pesticides	PNAS by	CAM17 Metals	Metals	WET (STLC)	Hexavalent Chromium	Spec Cond.	Anions	Number of Containers
Effluent	4-16-05	530	H ₂ O	NA/NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5
Midfluent		540	H ₂ O	NA/NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5
Influent		550	H ₂ O	NA/NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5
Outlet	4-18-05	615	Air	NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2
Inlet		630	Air	NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2
MWE			H ₂ O		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
MVVS			H ₂ O		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Project Info.
Project Name: Strough Family Trust
Project#: TMSPT1 Task 10.8
PO#:
Credit Card#:
Temp: W/Air 22/22C
Conforms to record:
TAT: 5 Day, 72h, 48h, 24h, Other:
Report: Routine Level 3 Level 4 EOD State Tank Fund EDF Global ID 1000101644
Special Instructions / Comments:

Sample Receipt
of Containers:
Head Space:
Temp:
Conforms to record:
TAT:
Report:
Special Instructions / Comments:

1) Relinquished by:
Signature: S. McNeil
Time: 1510
Printed Name: S. McNeil
Date: 4-18-05
Company: STL-SF

2) Relinquished by:
Signature: [Signature]
Time: 1555
Printed Name: [Name]
Date: 4-19-05
Company: STL-SF

3) Relinquished by:
Signature: _____
Time: _____
Printed Name: _____
Date: _____
Company: _____

1) Received by:
Signature: [Signature]
Time: 1510
Printed Name: [Name]
Date: 4-19-05
Company: STL-SF

2) Received by:
Signature: [Signature]
Time: 1555
Printed Name: T. Bullock
Date: 4/19/05
Company: STL-SF

3) Received by:
Signature: _____
Time: _____
Printed Name: _____
Date: _____
Company: _____

ETIC Oakland

May 13, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Eric Zickler

Project#: TMSFT1 Task 10.8

Project: Strough Family Trust

RECEIVED

MAY 16 2005

ETIC ENGINEERING

Attached is our report for your samples received on 04/29/2005 15:50

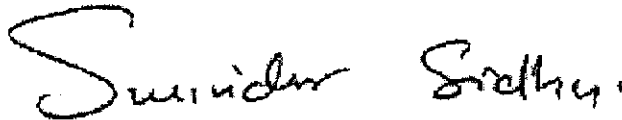
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/13/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,



Surinder Sidhu
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	04/29/2005 12:00	Air	4
INLET	04/29/2005 12:20	Air	5

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Prep(s): 5030B	Test(s): 8260B
Sample ID: OUTLET	Lab ID: 2005-04-0886-4
Sampled: 04/29/2005 12:00	Extracted: 5/2/2005 09:19
Matrix: Air	QC Batch#: 2005/05/02-1C:66
pH: <2	

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	05/02/2005 09:19	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	05/02/2005 09:19	
Toluene	ND	0.50	mg/m3	ND	0.13	ppmv	1	05/02/2005 09:19	
Ethylbenzene	ND	0.50	mg/m3	ND	0.11	ppmv	1	05/02/2005 09:19	
Total xylenes	ND	1.0	mg/m3	ND	0.23	ppmv	1	05/02/2005 09:19	
Surrogate(s)									
1,2-Dichloroethane-d4	98.7	72-128	%			%	1	05/02/2005 09:19	
Toluene-d8	106.1	80-113	%			%	1	05/02/2005 09:19	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Prep(s): 5030B	Test(s): 8260B
Sample ID: INLET	Lab ID: 2005-04-0886-5
Sampled: 04/29/2005 12:20	Extracted: 4/30/2005 17:48
Matrix: Air	QC Batch#: 2005/04/30-1D-64

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	130	50	mg/m3	37	14	ppmv	1	04/30/2005 17:48	
Benzene	2.5	0.50	mg/m3	0.77	0.15	ppmv	1	04/30/2005 17:48	
Toluene	9.7	0.50	mg/m3	2.5	0.13	ppmv	1	04/30/2005 17:48	
Ethylbenzene	1.5	0.50	mg/m3	0.34	0.11	ppmv	1	04/30/2005 17:48	
Total xylenes	9.6	1.0	mg/m3	2.2	0.23	ppmv	1	04/30/2005 17:48	
Surrogate(s)									
1,2-Dichloroethane-d4	92.5	72-128	%			%	1	04/30/2005 17:48	
Toluene-d8	93.1	80-113	%			%	1	04/30/2005 17:48	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604
Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method: Blank		Water	QC Batch #: 2005/04/30-1D:64
MB: 2005/04/30-1D:64-059			Date Extracted: 04/30/2005 08:59

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/30/2005 08:59	
Benzene	ND	0.5	ug/L	04/30/2005 08:59	
Toluene	ND	0.5	ug/L	04/30/2005 08:59	
Ethylbenzene	ND	0.5	ug/L	04/30/2005 08:59	
Total xylenes	ND	1.0	ug/L	04/30/2005 08:59	
Surrogates(s)					
1,2-Dichloroethane-d4	84.6	73-130	%	04/30/2005 08:59	
Toluene-d8	102.2	81-114	%	04/30/2005 08:59	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method: Blank		Water		QC Batch #: 2005/05/02-1C-66	
MB: 2005/05/02-1C-66-038				Date Extracted: 05/02/2005 07:38	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/02/2005 07:38	
Benzene	ND	0.5	ug/L	05/02/2005 07:38	
Toluene	ND	0.5	ug/L	05/02/2005 07:38	
Ethylbenzene	ND	0.5	ug/L	05/02/2005 07:38	
Total xylenes	ND	1.0	ug/L	05/02/2005 07:38	
Surrogates(s)					
1,2-Dichloroethane-d4	100.2	73-130	%	05/02/2005 07:38	
Toluene-d8	110.4	81-114	%	05/02/2005 07:38	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water		QC Batch # 2005/04/30-1D-64
LCS: 2005/04/30-1D-64-039	Extracted: 04/30/2005		Analyzed: 04/30/2005 09:30
LCSD			

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	30.5		25	122.0			69-129	20		
Toluene	30.6		25	122.4			70-130	20		
<i>Surrogates(s)</i>										
1,2-Dichloroethane-d4	416		500	83.2			73-130			
Toluene-d8	489		500	97.8			81-114			

Severn Trent Laboratories, Inc.
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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/13/2005 13:01

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report			
Prepts: 5030B			Test(s): 8260B
Laboratory Control Spike	Water		QC Batch # 2005/05/02-1C-66
LCS: 2005/05/02-1C-66-012	Extracted: 05/02/2005		Analyzed: 05/02/2005 07:12
LCSD:			

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	24.3		25	97.2			69-129	20		
Toluene	27.3		25	109.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448		500	89.6			73-130			
Toluene-d8	529		500	105.8			81-114			

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05/13/2005 13:01

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/04/30-1D.64
MS/MSD		Lab ID	2005-04-0640-005
MS: 2005/04/30-1D.64-052		Extracted: 04/30/2005	Analyzed: 04/30/2005 14:52
MSD: 2005/04/30-1D.64-014		Extracted: 04/30/2005	Dilution: 1.00
			Analyzed: 04/30/2005 15:14
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	144	172	124	25	80.0	192.0	82.4	76-124	20	M3	M3,R1
Toluene	38.6	43.6	9.59	25	116.0	136.0	15.9	70-130	20		M4
Surrogate(s)											
1,2-Dichloroethane-d4	426	420		500	85.2	84.0		73-130			
Toluene-d8	490	492		500	98.0	98.4		81-114			

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05/13/2005 13:01

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS/MSD)		Water	QC Batch # 2005/05/02-1C.66
MS/MSD			Lab ID: 2005-04-0767-003
MS:	2005/05/02-1C.66-010	Extracted: 05/02/2005	Analyzed: 05/02/2005 10:10
			Dilution: 1.00
MSD:	2005/05/02-1C.66-035	Extracted: 05/02/2005	Analyzed: 05/02/2005 10:35
			Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	23.6	23.6	ND	25	94.4	94.4	0.0	76-124	20		
Toluene	26.9	25.5	ND	25	107.6	102.0	5.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	480	482		500	96.0	96.4		73-130			
Toluene-d8	514	501		500	102.8	100.2		81-114			

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05/13/2005 13:01

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	04/29/2005 11:00	Water	1
MIDFLUENT	04/29/2005 11:10	Water	2
INFLUENT	04/29/2005 12:20	Water	3

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Prep(s): 5030B
Sample ID: EFFLUENT
Sampled: 04/29/2005 11:00
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-04-0886 - 1
Extracted: 5/7/2005 14:59
QC Batch#: 2005/05/07-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/07/2005 14:59	
Benzene	ND	0.50	ug/L	1.00	05/07/2005 14:59	
Toluene	ND	0.50	ug/L	1.00	05/07/2005 14:59	
Ethylbenzene	ND	0.50	ug/L	1.00	05/07/2005 14:59	
Total xylenes	ND	1.0	ug/L	1.00	05/07/2005 14:59	
Surrogate(s)						
1,2-Dichloroethane-d4	111.0	73-130	%	1.00	05/07/2005 14:59	
Toluene-d8	98.2	81-114	%	1.00	05/07/2005 14:59	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Prep(s): 5030B
Sample ID: MIDFLUENT
Sampled: 04/29/2005 11:10
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-04-0886 - 2
Extracted: 5/7/2005 15:22
QC Batch#: 2005/05/07-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/07/2005 15:22	
Benzene	ND	0.50	ug/L	1.00	05/07/2005 15:22	
Toluene	ND	0.50	ug/L	1.00	05/07/2005 15:22	
Ethylbenzene	ND	0.50	ug/L	1.00	05/07/2005 15:22	
Total xylenes	ND	1.0	ug/L	1.00	05/07/2005 15:22	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	110.8	73-130	%	1.00	05/07/2005 15:22	
Toluene-d8	101.4	81-114	%	1.00	05/07/2005 15:22	

Fuel Oxygenates by 8260B

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Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Prep(s): 5030B Test(s): 8260B
Sample ID: INFLUENT Lab ID: 2005-04-0886 - 3
Sampled: 04/29/2005 12:20 Extracted: 5/7/2005 15:44
Matrix: Water QC Batch#: 2005/05/07-01.64
Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	7600	500	ug/L	10.00	05/07/2005 15:44	
Benzene	190	5.0	ug/L	10.00	05/07/2005 15:44	
Toluene	870	5.0	ug/L	10.00	05/07/2005 15:44	
Ethylbenzene	95	5.0	ug/L	10.00	05/07/2005 15:44	
Total xylenes	1800	10	ug/L	10.00	05/07/2005 15:44	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	110.0	73-130	%	10.00	05/07/2005 15:44	
Toluene-d8	98.8	81-114	%	10.00	05/07/2005 15:44	

Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/05/07-01.64-022

Water

Test(s): 8260B

QC Batch # 2005/05/07-01.64

Date Extracted: 05/07/2005 10:22

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/07/2005 10:22	
Benzene	ND	0.5	ug/L	05/07/2005 10:22	
Toluene	ND	0.5	ug/L	05/07/2005 10:22	
Ethylbenzene	ND	0.5	ug/L	05/07/2005 10:22	
Total xylenes	ND	1.0	ug/L	05/07/2005 10:22	
Surrogates(s)					
1,2-Dichloroethane-d4	103.8	73-130	%	05/07/2005 10:22	
Toluene-d8	104.4	81-114	%	05/07/2005 10:22	

Fuel Oxygenates by 8260B

ETIC Oakland
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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/05/07-01.64

LCS 2005/05/07-01.64-000
LCSD

Extracted: 05/07/2005

Analyzed: 05/07/2005 10:00

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	27.0		25.0	108.0			69-129	20		
Toluene	28.9		25.0	115.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	507		500	101.4			73-130			
Toluene-d8	508		500	101.6			81-114			

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05/10/2005 16:11

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/05/07-01.64

MS/MSD

Lab ID: 2005-04-0852 - 002

MS: 2005/05/07-01.64-007

Extracted: 05/07/2005

Analyzed: 05/07/2005 16:07

MSD: 2005/05/07-01.64-037

Extracted: 05/07/2005

Dilution: 1.00

Analyzed: 05/07/2005 11:37

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	25.5	25.2	ND	25.0	102.0	100.8	1.2	69-129	20		
Toluene	27.2	28.3	ND	25.0	108.8	113.2	4.0	70-130	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	516	492		500	103.1	98.4		73-130			
Toluene-d8	515	502		500	103.0	100.4		81-114			

Severn Trent Laboratories, Inc.
STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/10/2005 16:11

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present
in the sample.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/10/2005 16:11

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	04/29/2005 11:00	Water	1
MIDFLUENT	04/29/2005 11:10	Water	2
INFLUENT	04/29/2005 12:20	Water	3

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: EFFLUENT	Lab ID: 2005-04-0886 - 1
Sampled: 04/29/2005 11:00	Extracted: 5/3/2005 17:32
Matrix: Water	QC Batch#: 2005/05/03-09.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	05/04/2005 19:46	
<i>Surrogate(s)</i> o-Terphenyl	76.3	60-130	%	1.00	05/04/2005 19:46	

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: MIDFLUENT Lab ID: 2005-04-0886 - 2
Sampled: 04/29/2005 11:10 Extracted: 5/3/2005 17:32
Matrix: Water QC Batch#: 2005/05/03-09.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	05/04/2005 19:19	
<i>Surrogate(s)</i> o-Terphenyl	85.2	60-130	%	1.00	05/04/2005 19:19	

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2005/05/03-09.10-001

Water

Test(s): 8015M

QC Batch # 2005/05/03-09.10

Date Extracted: 05/03/2005 17:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	05/04/2005 14:48	
Surrogates(s) o-Terphenyl	87.7	60-130	%	05/04/2005 14:48	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/06/2005 17:33

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/05/03-09.10

LCS 2005/05/03-09.10-002

Extracted: 05/03/2005

Analyzed: 05/04/2005 15:15

LCSD 2005/05/03-09.10-003

Extracted: 05/03/2005

Analyzed: 05/04/2005 15:42

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	881	780	1000	88.1	78.0	12.2	60-130	25		
Surrogates(s) o-Terphenyl	18.5	17.2	20.0	92.7	86.1		60-130	0		

Severn Trent Laboratories, Inc.

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05/06/2005 17:33

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 04/29/2005 15:50

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

2005-04-0886

Report To
Attn: Eric Zickler
Company: ETIC Engineering
Address: 1333 Broadway, Oakland, CA 94612
Phone: 510-208-1600 x18 Email: ezickler@eticeng.com
Bill To: ETIC Engineering
Sampled By: S. Mcneir
Attn: Katherine Brandt
Phone: 208-1600 x11

Analysis Request

Sample ID	Date	Time	Matrix	Pre ser v	TPH EPA - <input type="checkbox"/> 80158021 <input checked="" type="checkbox"/> 82608 <input checked="" type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 82608	TEPH EPA 8015M <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 82608: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxynates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1684) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 601074707471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	W.E.T (STL/C) TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers	
Effluent	4-29-05	1100	H ₂ O	M/110	X		X															
Midfluent		1110	H ₂ O	M/110	X		X															5
Influent		1120	H ₂ O	M/110	X		X															5
Outlet	4-29-05	1200	Air	/	X																	2
Inlet		1220	Air	/	X																	2
AW2			H ₂ O		X		X															
AW3			H ₂ O		X		X															

Project Info.
Project Name: Strough Family Trust
Project#: TMSFT1 Task 10.8
PO#: _____
Credit Card#: _____

Sample Receipt
of Containers: 19
Head Space:
Temp: 5°/22°
Conforms to record:

1) Relinquished by:
Signature: S. Mcneir
Time: 4-29-05
Printed Name: S. Mcneir
Date: 4-29-05
Company: etic

2) Relinquished by:
Signature: [Signature]
Time: 1550
Printed Name: [Name]
Date: 4/29/05
Company: STL S.P.

3) Relinquished by:
Signature: _____
Time: _____
Printed Name: _____
Date: _____
Company: _____

Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
Special Instructions / Comments: Global ID 10600101644

1) Received by:
Signature: [Signature]
Time: 1500
Printed Name: [Name]
Date: 4/29/05
Company: STL S.P.

2) Received by:
Signature: [Signature]
Time: 1550
Printed Name: J. Bullock
Date: 4/29/05
Company: STL-ST

3) Received by:
Signature: _____
Time: _____
Printed Name: _____
Date: _____
Company: _____

Sample Receipt Checklist

Submission #: 2005- 04-0886

Checklist completed by: <u>SA</u>		DATE: <u>4/30/05</u>			
Courier: <input checked="" type="checkbox"/> STL SF	Courier <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> Other		Client <input type="checkbox"/>		
Log-in Details		Yes	No	Comments	
1	Custody seals intact on shipping container/samples		<input checked="" type="checkbox"/>		
2	Chain of custody present?	<input checked="" type="checkbox"/>			
3	Chain of custody signed when relinquished and received?	<input checked="" type="checkbox"/>		<input type="checkbox"/> Picked-Up at Secure Location <input type="checkbox"/> Client signed-off at time prior to pick-up	
4	All samples checked when COC relinquished		<input checked="" type="checkbox"/>		
5	Chain of custody agrees with sample labels?	<input checked="" type="checkbox"/>			
6	Samples in proper container/bottle?	<input checked="" type="checkbox"/>			
7	Sample containers intact?	<input checked="" type="checkbox"/>			
8	Sufficient sample volume for indicated test?	<input checked="" type="checkbox"/>			
9	All samples received within holding time?	<input checked="" type="checkbox"/>			
Cooler Temperature Compliance Check					
Temperature Blank Reading If no trip blank is submitted individual temperatures must be taken as per SOP.		Cooler Sample Temperature #1: <u>5</u> #2: <u>4</u> #3: <u>6</u> Average: <u>5°C</u> - WATER AIR: <u>22°C</u>			
Reason for Elevated Temperature: <input type="checkbox"/> - Ice Melted <input type="checkbox"/> Insufficient Ice <input type="checkbox"/> <input type="checkbox"/> Samp. in boxes <input type="checkbox"/> Sampled < 4hr. <input type="checkbox"/> Ice not req.		Samples with Temp > 6°C - Comments			
VOA Sample Inspection					
Are bubbles present in any of the VOA vials?	Sample #	Small	Med.	Large	Samples with broken, cracked or leaking containers
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Samples with Unacceptable pH		
<input type="checkbox"/> pH adjusted - Preservative used: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> HCl <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ZnOAc - Lot #(s) _____					
Comments:					
Project Management [Routing for instruction of indicated discrepancy(ies)]					
Project Manager: (initials) _____ Date: ____/____/05		Client contacted: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Summary of discussion:					
Corrective Action (per PM/Client):					

ETIC Oakland

May 31, 2005

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Kathy Brandt

Project#: TMSFT1 Task 10.8

Project: Strough Family Trust

Kathy

Attached is our report for your samples received on 05/13/2005 17:57

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/27/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Samples Reported

Sample Name	Date Sampled	Matrix	Lab.#
EFFLUENT	05/13/2005 10:30	Water	1
MIDFLUENT	05/13/2005 10:40	Water	2
INFLUENT	05/13/2005 10:50	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/20/2005 16:02

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	EFFLUENT	Lab ID:	2005-05-0428 - 1
Sampled:	05/13/2005 10:30	Extracted:	5/18/2005 16:10
Matrix:	Water	QC Batch#:	2005/05/18-07.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	05/19/2005 23:01	
<i>Surrogate(s)</i>						
o-Terphenyl	89.1	60-130	%	1.00	05/19/2005 23:01	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/20/2005 16:02

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MIDFLUENT	Lab ID:	2005-05-0428 - 2
Sampled:	05/13/2005 10:40	Extracted:	5/18/2005 16:10
Matrix:	Water	QC Batch#:	2005/05/18-07.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	05/19/2005 20:07	
<i>Surrogate(s)</i> o-Terphenyl	86.7	60-130	%	1.00	05/19/2005 20:07	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/20/2005 16:02

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: INFLUENT	Lab ID: 2005-05-0428 -3
Sampled: 05/13/2005 10:50	Extracted: 5/18/2005 16:10
Matrix: Water	QC Batch#: 2005/05/18-07.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	4200	50	ug/L	1.00	05/19/2005 20:33	Q2
<i>Surrogate(s)</i>						
o-Terphenyl	87.9	60-130	%	1.00	05/19/2005 20:33	

Sewern Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/20/2005 16:02

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2005/05/18-07-10-001

Water

Test(s): 8015M

QC Batch # 2005/05/18-07.10

Date Extracted: 05/18/2005 16:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	05/19/2005 21:42	
Surrogates(s) o-Terphenyl	84.1	60-130	%	05/19/2005 21:42	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/20/2005 16:02

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report										
Prep(s): 3510/8015M						Test(s): 8015M				
Laboratory Control Spike				Water			QC Batch #: 2005/05/18-07.10			
LCS	2005/05/18-07.10-002			Extracted: 05/18/2005			Analyzed: 05/19/2005 22:08			
LCSD	2005/05/18-07.10-003			Extracted: 05/18/2005			Analyzed: 05/19/2005 22:34			
Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	878	841	1000	87.8	84.1	4.3	60-130	25		
Surrogates(s) o-Terphenyl	20.6	19.7	20.0	103.0	98.6		60-130	0		

Sewern Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/20/2005 16:02

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/20/2005 16:02

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 05/13/2005 17:57

Samples Reported

Sample Name	Date Sampled	Matrix	Lab.#
EFFLUENT	05/13/2005 10:30	Water	1
MIDFLUENT	05/13/2005 10:40	Water	2
INFLUENT	05/13/2005 10:50	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/27/2005 17:20

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Prep(s): 5030B	Test(s): 8260B
Sample ID: EFFLUENT	Lab ID: 2005-05-0428 - 1
Sampled: 05/13/2005 10:30	Extracted: 5/27/2005 00:05
Matrix: Water	QC Batch#: 2005/05/26-01:65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/27/2005 00:05	
Benzene	ND	0.50	ug/L	1.00	05/27/2005 00:05	
Toluene	ND	0.50	ug/L	1.00	05/27/2005 00:05	
Ethylbenzene	ND	0.50	ug/L	1.00	05/27/2005 00:05	
Total xylenes	ND	1.0	ug/L	1.00	05/27/2005 00:05	
Surrogate(s)						
1,2-Dichloroethane-d4	99.7	73-130	%	1.00	05/27/2005 00:05	
Toluene-d8	108.8	81-114	%	1.00	05/27/2005 00:05	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/27/2005 17:20

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Prep(s): 5030B	Test(s): 8260B
Sample ID: MIDFLUENT	Lab ID: 2005-05-0428 - 2
Sampled: 05/13/2005 10:40	Extracted: 5/27/2005 11:38
Matrix: Water	QC Batch#: 2005/05/27-01.69
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/27/2005 11:38	
Benzene	ND	0.50	ug/L	1.00	05/27/2005 11:38	
Toluene	ND	0.50	ug/L	1.00	05/27/2005 11:38	
Ethylbenzene	ND	0.50	ug/L	1.00	05/27/2005 11:38	
Total xylenes	ND	1.0	ug/L	1.00	05/27/2005 11:38	
Surrogate(s)						
1,2-Dichloroethane-d4	97.1	73-130	%	1.00	05/27/2005 11:38	
Toluene-d8	107.8	81-114	%	1.00	05/27/2005 11:38	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/27/2005 17:20

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFLUENT	Lab ID: 2005-05-0428 - 3
Sampled: 05/13/2005 10:50	Extracted: 5/27/2005 00:57
Matrix: Water	QC Batch#: 2005/05/26-01.65
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	15000	1000	ug/L	20.00	05/27/2005 00:57	
Benzene	130	10	ug/L	20.00	05/27/2005 00:57	
Toluene	530	10	ug/L	20.00	05/27/2005 00:57	
Ethylbenzene	78	10	ug/L	20.00	05/27/2005 00:57	
Total xylenes	2000	20	ug/L	20.00	05/27/2005 00:57	
Surrogate(s)						
1,2-Dichloroethane-d4	98.7	73-130	%	20.00	05/27/2005 00:57	
Toluene-d8	84.1	81-114	%	20.00	05/27/2005 00:57	

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05/27/2005 17:20

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank	Water			QC Batch # 2005/05/26-01.65	
MB: 2005/05/26-01.65-058				Date Extracted: 05/26/2005 17:58	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/26/2005 17:58	
Benzene	ND	0.5	ug/L	05/26/2005 17:58	
Toluene	ND	0.5	ug/L	05/26/2005 17:58	
Ethylbenzene	ND	0.5	ug/L	05/26/2005 17:58	
Total xylenes	ND	1.0	ug/L	05/26/2005 17:58	
Surrogates(s)					
1,2-Dichloroethane-d4	96.0	73-130	%	05/26/2005 17:58	
Toluene-d8	88.4	81-114	%	05/26/2005 17:58	

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Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method: Blank	Water		QC Batch # 2005/05/27-01:69
MB: 2005/05/27-01.69-011			Date Extracted: 05/27/2005 07:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/27/2005 07:11	
Benzene	ND	0.5	ug/L	05/27/2005 07:11	
Toluene	ND	0.5	ug/L	05/27/2005 07:11	
Ethylbenzene	ND	0.5	ug/L	05/27/2005 07:11	
Total xylenes	ND	1.0	ug/L	05/27/2005 07:11	
Surrogates(s)					
1,2-Dichloroethane-d4	106.2	73-130	%	05/27/2005 07:11	
Toluene-d8	103.4	81-114	%	05/27/2005 07:11	

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Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/05/26-01.65			
LCS		2005/05/26-01.65-032			Extracted: 05/26/2005		Analyzed: 05/26/2005 17:32		
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	20.3		25.0	81.2			69-129	20		
Toluene	22.4		25.0	89.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	366		500	73.2			73-130			
Toluene-d8	482		500	96.4			81-114			

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Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/05/27-01.69			
LCS: 2005/05/27-01.69-053			Extracted: 05/27/2005			Analyzed: 05/27/2005 06:53			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.5		25.0	98.0			69-129	20		
Toluene	23.1		25.0	92.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	476		500	95.2			73-130			
Toluene-d8	542		500	108.4			81-114			

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Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report			
Prep(s):	5030B	Test(s): 8260B	
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/05/26-01.65	
MS/MSD		Lab ID:	2005-05-0633 - 004
MS: 2005/05/26-01.65-053	Extracted: 05/26/2005	Analyzed:	05/26/2005 18:53
		Dilution:	1.00
MSD: 2005/05/26-01.65-019	Extracted: 05/26/2005	Analyzed:	05/26/2005 19:19
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	21.1	21.1	ND	25.0	84.4	84.4	0.0	69-129	20		
Toluene	19.8	21.3	1.26	25.0	74.2	80.2	7.8	70-130	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	366	364		500	73.2	72.8		73-130			S8
Toluene-d8	436	425		500	87.2	85.0		81-114			

Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/05/27-01.69
MS/MSD		Lab ID:	2005-05-0636 - 004
MS:	2005/05/27-01.69-030	Extracted:	05/27/2005 09:30
		Dilution:	1.00
MSD:	2005/05/27-01.69-048	Extracted:	05/27/2005 09:48
		Dilution:	1.00

Compound	Conc. ug/L		Spk. Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	22.4	24.5	ND	25.0	89.6	98.0	9.0	69-129	20		
Toluene	21.9	23.5	ND	25.0	87.6	94.0	7.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	482	470		500	96.4	94.0		73-130			
Toluene-d8	518	522		500	103.6	104.4		81-114			

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Fuel Oxygenates by 8260B

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Strough Family Trust

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Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

S8

Surrogate recoveries lower than acceptance limits.

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05/27/2005 17:20

Sample Receipt Checklist

Submission #: 2005- 05-0428

Checklist completed by: <u>BT</u>		DATE: <u>5/16/05</u>			
Courier: <input checked="" type="checkbox"/> STL SF	Courier <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> Other		Client <input type="checkbox"/>		
Log-In Details:		Yes	No		
1	Custody seals intact on shipping container/samples		<input checked="" type="checkbox"/>		
2	Chain of custody present?	<input checked="" type="checkbox"/>			
3	Chain of custody signed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/> Picked Up in Secure Location <input type="checkbox"/> Client signed-off at time prior to Pick-up		
4	All samples checked when COC relinquished		<input checked="" type="checkbox"/>		
5	Chain of custody agrees with sample labels?	<input checked="" type="checkbox"/>			
6	Samples in proper container/bottle?	<input checked="" type="checkbox"/>			
7	Sample containers intact?	<input checked="" type="checkbox"/>			
8	Sufficient sample volume for indicated test?	<input checked="" type="checkbox"/>			
9	All samples received within holding time?	<input checked="" type="checkbox"/>			
Cooler Temperature Compliance Check					
Temperature Blank Reading: <u>7.0 / 23.0</u> AIR		Cooler Sample Temperature #1 #2 #3 Average			
Reason for Elevated Temperature: <input type="checkbox"/> Ice Melted <input type="checkbox"/> Insufficient Ice <input type="checkbox"/> <input type="checkbox"/> Samp. in boxes <input type="checkbox"/> Sampled < 4hr. <input type="checkbox"/> Ice not req.		Samples with Temp > 6°C - Comments:			
VOA Sample Inspection					
Are bubbles present in any of the VOA vials?	Sample #	Small	Med.	Large	Samples with broken, cracked or leaking containers
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Samples with Unacceptable pH		
<input type="checkbox"/> pH adjusted - Preservative used: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> HCl <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ZnOAc - Lot #(s) _____					
Comments:					
SAMPLE - TIME DISCREPANCY - ^{ARRIVAL} BUCKET 11:00 - ^{LOGGED} LOG 11:20 TIME DISCREPANCY - ^{LAB} TUBET 11:20 - ^{LOGGED} LOG 11:00					
Project Management [Routing for instruction of indicated discrepancy(ies)]					
Project Manager: (initials) _____		Date: ____/____/05		Client contacted: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Summary of discussion:					
Corrective Action (per PM/Client):					

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	05/13/2005 11:20	Air	4
INLET	05/13/2005 11:00	Air	5

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05/20/2005 11:43

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Prep(s):	5030B	Test(s):	8260B
Sample ID:	OUTLET	Lab ID:	2005-05-0428 - 4
Sampled:	05/13/2005 11:20	Extracted:	5/13/2005 23:37
Matrix:	Air	QC Batch#:	2005/05/13-2C.64

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	ND	14	ppmv	1	05/13/2005 23:37	
Benzene	ND	0.50	mg/m3	ND	0.15	ppmv	1	05/13/2005 23:37	
Toluene	1.4	0.50	mg/m3	0.37	0.13	ppmv	1	05/13/2005 23:37	
Ethylbenzene	0.54	0.50	mg/m3	0.12	0.11	ppmv	1	05/13/2005 23:37	
Total xylenes	4.6	1.0	mg/m3	1.0	0.23	ppmv	1	05/13/2005 23:37	
<i>Surrogate(s)</i>									
1,2-Dichloroethane-d4	120.9	72-128	%			%	1	05/13/2005 23:37	
Toluene-d8	102.2	80-113	%			%	1	05/13/2005 23:37	

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05/20/2005 11:43

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Prep(s): 5030B	Test(s): 8260B
Sample ID: INLET	Lab ID: 2005-05-0428 - 5
Sampled: 05/13/2005 11:00	Extracted: 5/14/2005 13:54
Matrix: Air	QC Batch#: 2005/05/14-1A.62
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4800	250	mg/m3	1300	70	ppmv	5	05/14/2005 13:54	
Benzene	72	2.5	mg/m3	22	0.77	ppmv	5	05/14/2005 13:54	
Toluene	300	2.5	mg/m3	78	0.65	ppmv	5	05/14/2005 13:54	
Ethylbenzene	62	2.5	mg/m3	14	0.57	ppmv	5	05/14/2005 13:54	
Total xylenes	380	5.0	mg/m3	86	1.1	ppmv	5	05/14/2005 13:54	
Surrogate(s)									
1,2-Dichloroethane-d4	106.0	72-128	%			%	5	05/14/2005 13:54	
Toluene-d8	94.1	80-113	%			%	5	05/14/2005 13:54	

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method: Blank		Water		QC Batch # 2005/05/13-2C.64	
MB: 2005/05/13-2C.64-024				Date Extracted: 05/13/2005 19:24	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/13/2005 19:24	
Benzene	ND	0.5	ug/L	05/13/2005 19:24	
Toluene	ND	0.5	ug/L	05/13/2005 19:24	
Ethylbenzene	ND	0.5	ug/L	05/13/2005 19:24	
Total xylenes	ND	1.0	ug/L	05/13/2005 19:24	
Surrogates(s)					
1,2-Dichloroethane-d4	111.8	73-130	%	05/13/2005 19:24	
Toluene-d8	101.4	81-114	%	05/13/2005 19:24	

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Water		QC Batch # 2005/05/14-1A.62	
MB: 2005/05/14-1A.62-039				Date Extracted: 05/14/2005 08:39	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/14/2005 08:39	
Benzene	ND	0.5	ug/L	05/14/2005 08:39	
Toluene	ND	0.5	ug/L	05/14/2005 08:39	
Ethylbenzene	ND	0.5	ug/L	05/14/2005 08:39	
Total xylenes	ND	1.0	ug/L	05/14/2005 08:39	
Surrogates(s)					
1,2-Dichloroethane-d4	109.0	73-130	%	05/14/2005 08:39	
Toluene-d8	93.2	81-114	%	05/14/2005 08:39	

Gas/BTEX Fuel Oxygenates by 8260B

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Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
Laboratory Control Spike	Water	QC Batch # 2005/05/13-2C.64	
LCS 2005/05/13-2C.64-001	Extracted: 05/13/2005	Analyzed: 05/13/2005 19:01	
LCSD			

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.1		25	92.4			69-129	20		
Toluene	26.3		25	105.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	525		500	105.0			73-130			
Toluene-d8	511		500	102.2			81-114			

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Strough Family Trust

Received: 05/13/2005 17:57

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/05/14-1A.62			
LCS		2005/05/14-1A.62-013		Extracted: 05/14/2005		Analyzed: 05/14/2005 08:13			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.5		25	102.0			69-129	20		
Toluene	23.5		25	94.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	518		500	103.6			73-130			
Toluene-d8	491		500	98.2			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

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Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/05/13-2C.64	
MS/MSD		Lab ID:	2005-05-0115 - 001
MS: 2005/05/13-2C.64-037	Extracted: 05/13/2005	Analyzed:	05/13/2005 20:37
		Dilution:	1.00
MSD: 2005/05/13-2C.64-052	Extracted: 05/13/2005	Analyzed:	05/13/2005 21:00
		Dilution:	1.00

Compound	Conc. ug/L			Spk. Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	21.1	21.4	ND	25	84.4	85.6	1.4	76-124	20		
Toluene	23.8	23.5	ND	25	95.2	94.0	1.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	557	567		500	111.3	113.4		73-130			
Toluene-d8	465	496		500	92.9	99.2		81-114			

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Project: TMSFT1 Task 10.8
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Received: 05/13/2005 17:57

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/05/14-1A.62
MS/MSD			Lab ID: 2005-05-0130 - 001
MS: 2005/05/14-1A.62-037		Extracted: 05/14/2005	Analyzed: 05/14/2005 09:37
			Dilution: 1.00
MSD: 2005/05/14-1A.62-003		Extracted: 05/14/2005	Analyzed: 05/14/2005 10:03
			Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	28.5	22.0	ND	25	114.0	88.0	25.7	76-124	20		R4
Toluene	27.4	20.8	ND	25	109.6	83.2	27.4	70-130	20		R4
Surrogate(s)											
1,2-Dichloroethane-d4	502	509		500	100.4	101.8		73-130			
Toluene-d8	500	454		500	100.0	90.8		81-114			

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05/20/2005 11:43

Gas/BTEX Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 05/13/2005 17:57

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

R4

RPD exceeded method control limit; % recoveries within limits.

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05/20/2005 11:43

2005-05-0428

Report To

Attn: Katherine Brandt
Company: ETIC Engineering
Address: 1333 Broadway, Oakland, CA 94612
Phone: 510-208-1800 x18 Email: kbrandt@eticeng.com
Bltn To: ETIC Engineering
Attn: Katherine Brandt
Phone: 208-1600 x14

Analysis Request

Sampled By: *S. Munn*

Sample ID	Date	Time	Media	Parameter	TPH EPA	Purgeable Aromatics	TPH EPA	Fast Test	Purgeable Halocarbons	Volatiles	Semivolatiles	Oil and Gas	Pesticides	PAHs	Metals	Other	WET (STLC)	Hexavalent Chromium	Spec Cond.	Alkalinity	Anions	
Effluent	5/13/04	1030	H ₂ O		X		X															
Midfluent	5/13/05	1040	H ₂ O		X		X															
Influent	5/13/05	1050	H ₂ O		X		X															
Outlet	5/13/05	1120	Air		X																	
Inlet	5/13/04	1100	Air		X																	
MW2			H ₂ O		X		X															
MW3			H ₂ O		X		X															

Number of Containers: 5, 5, 5, 2, 2

Project Info. Sample Receipt

Project Name: Slough Family Trust
Project#: TMS#T1 Task 10.8
PO#:
Credit Card#:
TAT: 5 Day 72h 48h 24h
Other:
Report: Routine Level 3 Level 4 EDD State Park Fund EDF Global ID 10660101644
Special Instructions / Comments:

1) Relinquished by:
S. Munn
Signature: *S. Munn* Time: 5/13/04
Printed Name: *S. Munn* Date: 5/13/04
Company: *STL*

2) Relinquished by:
[Signature] 1759
Signature: *[Signature]* Time: 1759
Printed Name: *[Name]* Date: 5/13/04
Company: *STL*

3) Relinquished by:
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

1) Received by:
[Signature] 1301
Signature: *[Signature]* Time: 1301
Printed Name: *[Name]* Date: 5/13/04
Company: *STL*

2) Received by:
[Signature] 1759
Signature: *[Signature]* Time: 1759
Printed Name: *[Name]* Date: 5/13/04
Company: *STL*

3) Received by:
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

ETIC Oakland

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Eric Zickler

Project#: TMSFT1 Task 10.8

Project: Strough Family Trust

May 31, 2005

RECEIVED
JUN 03 2005
ETIC ENGINEERING

Attached is our report for your samples received on 05/20/2005 16:15

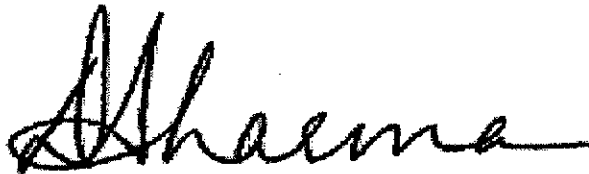
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/04/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	05/20/2005 14:30	Water	1
MIDFLUENT	05/20/2005 14:40	Water	2
INFLUENT	05/20/2005 14:50	Water	3

Severn Trent Laboratories, Inc.

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05/31/2005 14:29

Page 1 of 11

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Prep(s): 5030B	Test(s): 8260B
Sample ID: EFFLUENT	Lab ID: 2005-05-0610 - 1
Sampled: 05/20/2005 14:30	Extracted: 5/31/2005 08:52
Matrix: Water	QC Batch#: 2005/05/31-01.62
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/31/2005 08:52	
Benzene	ND	0.50	ug/L	1.00	05/31/2005 08:52	
Toluene	ND	0.50	ug/L	1.00	05/31/2005 08:52	
Ethylbenzene	ND	0.50	ug/L	1.00	05/31/2005 08:52	
Total xylenes	ND	1.0	ug/L	1.00	05/31/2005 08:52	
Surrogate(s)						
1,2-Dichloroethane-d4	104.1	73-130	%	1.00	05/31/2005 08:52	
Toluene-d8	103.3	81-114	%	1.00	05/31/2005 08:52	

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Prep(s): 5030B Test(s): 8260B
Sample ID: INFLUENT Lab ID: 2005-05-0610 - 3
Sampled: 05/20/2005 14:50 Extracted: 5/27/2005 12:30
Matrix: Water QC Batch#: 2005/05/27-01.64
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	9700	1000	ug/L	20.00	05/27/2005 12:30	
Benzene	210	10	ug/L	20.00	05/27/2005 12:30	
Toluene	930	10	ug/L	20.00	05/27/2005 12:30	
Ethylbenzene	81	10	ug/L	20.00	05/27/2005 12:30	
Total xylenes	2400	20	ug/L	20.00	05/27/2005 12:30	
Surrogate(s)						
1,2-Dichloroethane-d4	93.5	73-130	%	20.00	05/27/2005 12:30	
Toluene-d8	98.9	81-114	%	20.00	05/27/2005 12:30	

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/05/27-01.64-033

Water

Test(s): 8260B

QC Batch # 2005/05/27-01.64

Date Extracted: 05/27/2005 07:33

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/27/2005 07:33	
Benzene	ND	0.5	ug/L	05/27/2005 07:33	
Toluene	ND	0.5	ug/L	05/27/2005 07:33	
Ethylbenzene	ND	0.5	ug/L	05/27/2005 07:33	
Total xylenes	ND	1.0	ug/L	05/27/2005 07:33	
Surrogates(s)					
1,2-Dichloroethane-d4	81.6	73-130	%	05/27/2005 07:33	
Toluene-d8	96.0	81-114	%	05/27/2005 07:33	

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Page 5 of 11

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/05/31-01.62-034

Water

Test(s): 8260B
QC Batch # 2005/05/31-01.62
Date Extracted: 05/31/2005 07:34

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/31/2005 07:34	
Benzene	ND	0.5	ug/L	05/31/2005 07:34	
Toluene	ND	0.5	ug/L	05/31/2005 07:34	
Ethylbenzene	ND	0.5	ug/L	05/31/2005 07:34	
Total xylenes	ND	1.0	ug/L	05/31/2005 07:34	
Surrogates(s)					
1,2-Dichloroethane-d4	105.4	73-130	%	05/31/2005 07:34	
Toluene-d8	102.6	81-114	%	05/31/2005 07:34	

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Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/05/27-01.64

LCS 2005/05/27-01.64-009

Extracted: 05/27/2005

Analyzed: 05/27/2005 07:09

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.0		25.0	96.0			69-129	20		
Toluene	25.6		25.0	102.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	387		500	77.4			73-130			
Toluene-d8	491		500	98.2			81-114			

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Fuel Oxygenates by 8260B

ETIC Oakland
 Attn.: Eric Zickler
 1333 Broadway, Suite 1015
 Oakland, CA 94612
 Phone: (510) 208-1600 Fax: (510) 208-1604
 Project: TMSFT1 Task 10.8
 Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/05/31-01.62

LCS 2005/05/31-01.62-008

Extracted: 05/31/2005

Analyzed: 05/31/2005 07:08

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.8		25.0	87.2			69-129	20		
Toluene	25.9		25.0	103.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	512		500	102.4			73-130			
Toluene-d8	521		500	104.2			81-114			

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Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/05/27-01.64

EFFLUENT >> MS

Lab ID: 2005-05-0610 - 001

MS: 2005/05/27-01.64-019

Extracted: 05/27/2005

Analyzed: 05/27/2005 11:19

Dilution: 1.00

MSD: 2005/05/27-01.64-042

Extracted: 05/27/2005

Analyzed: 05/27/2005 11:42

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	23.7	25.6	0.534	25.0	92.7	102.4	9.9	69-129	20		
Toluene	26.0	26.7	ND	25.0	104.0	106.8	2.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	456	490		500	91.2	98.0		73-130			
Toluene-d8	505	498		500	100.9	99.6		81-114			

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Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/05/31-01.62

EFFLUENT >> MS

Lab ID: 2005-05-0610 - 001

MS: 2005/05/31-01.62-018

Extracted: 05/31/2005

Analyzed: 05/31/2005 09:18

Dilution: 1.00

MSD: 2005/05/31-01.62-044

Extracted: 05/31/2005

Analyzed: 05/31/2005 09:44

Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	21.0	18.7	ND	25.0	84.0	74.8	11.6	89-129	20		
Toluene	25.9	24.4	ND	25.0	103.6	97.6	6.0	70-130	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	536	525		500	107.3	105.1		73-130			
Toluene-d8	512	518		500	102.5	103.6		81-114			

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Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	05/20/2005 15:00	Air	4
INLET	05/20/2005 15:10	Air	5

Severn Trent Laboratories, Inc.

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05/26/2005 18:10

Page 1 of 7

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 05/20/2005 16:15

Prep(s): 5030B	Test(s): 8260B
Sample ID: OUTLET	Lab ID: 2005-05-0610 - 4
Sampled: 05/20/2005 15:00	Extracted: 5/21/2005 14:41
Matrix: Air	QC Batch#: 2005/05/21-1D.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	1.00	05/21/2005 14:41	
Benzene	ND	0.50	mg/m3	1.00	05/21/2005 14:41	
Toluene	ND	0.50	mg/m3	1.00	05/21/2005 14:41	
Ethylbenzene	ND	0.50	mg/m3	1.00	05/21/2005 14:41	
Total xylenes	1.8	1.0	mg/m3	1.00	05/21/2005 14:41	
Surrogate(s)						
1,2-Dichloroethane-d4	124.3	72-128	%	1.00	05/21/2005 14:41	
Toluene-d8	100.6	80-113	%	1.00	05/21/2005 14:41	

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Prep(s): 5030B	Test(s): 8260B
Sample ID: INLET	Lab ID: 2005-05-0610 - 5
Sampled: 05/20/2005 15:10	Extracted: 5/21/2005 15:04
Matrix: Air	QC Batch#: 2005/05/21-1D.64
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5600	250	mg/m3	5.00	05/21/2005 15:04	
Benzene	61	2.5	mg/m3	5.00	05/21/2005 15:04	
Toluene	310	2.5	mg/m3	5.00	05/21/2005 15:04	
Ethylbenzene	60	2.5	mg/m3	5.00	05/21/2005 15:04	
Total xylenes	450	5.0	mg/m3	5.00	05/21/2005 15:04	
Surrogate(s)						
1,2-Dichloroethane-d4	128.9	72-128	%	5.00	05/21/2005 15:04	S4
Toluene-d8	101.8	80-113	%	5.00	05/21/2005 15:04	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/05/21-1D.64-050

Water

Test(s): 8260B

QC Batch # 2005/05/21-1D.64

Date Extracted: 05/21/2005 08:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/21/2005 08:10	
Benzene	ND	0.5	ug/L	05/21/2005 08:10	
Toluene	ND	0.5	ug/L	05/21/2005 08:10	
Ethylbenzene	ND	0.5	ug/L	05/21/2005 08:10	
Total xylenes	ND	1.0	ug/L	05/21/2005 08:10	
Surrogates(s)					
1,2-Dichloroethane-d4	109.6	73-130	%	05/21/2005 08:10	
Toluene-d8	101.0	81-114	%	05/21/2005 08:10	

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/05/21-1D.64

LCS 2005/05/21-1D.64-048

Extracted: 05/21/2005

Analyzed: 05/21/2005 07:48

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	26.4		25	106.0			69-129	20		
Toluene	30.7		25	122.8			70-130	20		
<i>Surrogates(s)</i>										
1,2-Dichloroethane-d4	549		500	109.8			73-130			
Toluene-d8	535		500	107.0			81-114			

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/05/21-1D.64

MS/MSD

Lab ID: 2005-05-0457 - 001

MS: 2005/05/21-1D.64-026

Extracted: 05/21/2005

Analyzed: 05/21/2005 09:26

Dilution: 1.00

MSD: 2005/05/21-1D.64-049

Extracted: 05/21/2005

Analyzed: 05/21/2005 09:49

Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	22.5	25.3	ND	25	90.0	101.2	11.7	76-124	20		
Toluene	25.3	28.5	ND	25	101.2	114.0	11.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	572	565		500	114.5	113.0		73-130			
Toluene-d8	521	524		500	104.1	104.8		81-114			

Severn Trent Laboratories, Inc.

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

S4

Surrogate recovery was higher than QC limit due to matrix interference.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/26/2005 18:10

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	05/20/2005 14:30	Water	1
MIDFLUENT	05/20/2005 14:40	Water	2
INFLUENT	05/20/2005 14:50	Water	3

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05/27/2005 17:35

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: EFFLUENT	Lab ID: 2005-05-0610 - 1
Sampled: 05/20/2005 14:30	Extracted: 5/26/2005 07:26
Matrix: Water	QC Batch#: 2005/05/26-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	05/27/2005 11:24	
<i>Surrogate(s)</i>						
o-Terphenyl	80.6	60-130	%	1.00	05/27/2005 11:24	

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05/27/2005 17:35

Diesel with Silica Gel Clean-up

ETIC Oakland

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: MIDFLUENT	Lab ID: 2005-05-0610 - 2
Sampled: 05/20/2005 14:40	Extracted: 5/24/2005 12:43
Matrix: Water	QC Batch#: 2005/05/24-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	05/26/2005 00:32	
<i>Surrogate(s)</i> o-Terphenyl	75.9	60-130	%	1.00	05/26/2005 00:32	

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05/27/2005 17:35

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: INFLUENT	Lab ID: 2005-05-0610 - 3
Sampled: 05/20/2005 14:50	Extracted: 5/24/2005 12:43
Matrix: Water	QC Batch#: 2005/05/24-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	660	50	ug/L	1.00	05/26/2005 00:59	
<i>Surrogate(s)</i> o-Terphenyl	48.4	60-130	%	1.00	05/26/2005 00:59	S6

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2005/05/24-03.10-001

Water

Test(s): 8015M

QC Batch # 2005/05/24-03.10

Date Extracted: 05/24/2005 12:43

Compound	Conc.	RL	Unit	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	05/25/2005 12:22	
<i>Surrogates(s)</i> o-Terphenyl	74.6	60-130	%	05/25/2005 12:22	

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Diesel with Silica Gel Clean-up

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2005/05/26-01.10-001

Water

Test(s): 8015M

QC Batch # 2005/05/26-01.10

Date Extracted: 05/26/2005 07:26

Compound	Conc.	RL	Unit	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	05/26/2005 22:53	
<i>Surrogates(s)</i> o-Terphenyl	73.9	60-130	%	05/26/2005 22:53	

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05/27/2005 17:35

Diesel with Silica Gel Clean-up

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/05/24-03.10

LCS 2005/05/24-03.10-002

Extracted: 05/24/2005

Analyzed: 05/25/2005 12:49

LCSD 2005/05/24-03.10-003

Extracted: 05/24/2005

Analyzed: 05/25/2005 13:16

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
DRO (C10-C28)	778	753	1000	77.8	75.3	3.3	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	17.8	16.5	20	88.8	82.7		60-130	0		

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05/27/2005 17:35

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 05/20/2005 16:15

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/05/26-01.10

LCS 2005/05/26-01.10-002

Extracted: 05/26/2005

Analyzed: 05/26/2005 23:19

LCSD 2005/05/26-01.10-003

Extracted: 05/26/2005

Analyzed: 05/26/2005 23:46

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
DRO (C10-C28)	762	673	1000	76.2	67.3	12.4	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	18.6	17.1	20.0	93.0	85.5		60-130	0		

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 05/20/2005 16:15

Legend and Notes

Result Flag

S6

Surrogate recoveries lower than acceptance limits.
Matrix interference suspected

Severn Trent Laboratories, Inc.

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05/27/2005 17:35

2005-05-0610

Date 5/20/05 Page 1 of 1

Report To

Attn: Eric Zickler
Company: ETIC Engineering
Address: 1333 Broadway, Oakland, CA 94612
Phone: 510-208-1600 x18 Email: ezickler@eticeng.com
Bill To: ETIC Engineering
Attn: Katherine Brandt
Sampled By: S. McNeil
Phone: 208-1600 x11

Analysis Request

TPH EPA - <input type="checkbox"/> 815021 <input type="checkbox"/> 8160B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8280B	TEPH EPA 8015M <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Test EPA 8208; <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8200B <input type="checkbox"/> 824	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 826	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8061 <input type="checkbox"/> 808 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 808	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 8010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> UFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers
Effluent	5-20-05	230	H ₂ O	X	X											
Midfluent		240	H ₂ O	X	X											
Influent		250	H ₂ O	X	X											5
Outlet		300	Air	X												5
Inlet		310	Air	X												5
MW2			H ₂ O	X	X											2
MW3			H ₂ O	X	X											2

Project Info.

Sample Receipt

Project Name: Stough Family Trust
Project#: TMSFT1 Task 10.8
PO#:
Credit Card#:
TAT: 5 Day 72h 48h 24h Other:
Report: Routine Level 3 Level 4 EDD State Tank Farm/EDF
Special Instructions / Comments: Global ID TDS00101644

1) Relinquished by:
Signature: S. McNeil 16:15
Printed Name: S. McNeil
Company: Etic

2) Relinquished by:
Signature: _____
Printed Name: _____
Company: _____

3) Relinquished by:
Signature: _____
Printed Name: _____
Company: _____

1) Received by:
Signature: [Signature] 16:15
Printed Name: T. Bullock
Company: STL-SF

2) Received by:
Signature: _____
Printed Name: _____
Company: _____

3) Received by:
Signature: _____
Printed Name: _____
Company: _____

Sample Receipt Checklist

Submission #: 2005- 05-0610

Checklist completed by: <u>ADL</u>		DATE: <u>5/24/05</u>		
Courier: <input type="checkbox"/> STL SF	Courier: <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> Other	Client: <input checked="" type="checkbox"/>		
Log-In Details		Yes	No	Comments
1	Custody seals intact on shipping container/samples		<input checked="" type="checkbox"/>	
2	Chain of custody present?		<input checked="" type="checkbox"/>	
3	Chain of custody signed when relinquished and received?		<input checked="" type="checkbox"/>	<input type="checkbox"/> Picked-Up at Secure Location. <input type="checkbox"/> Client signed-off at time prior to pick-up
4	All samples checked when COC relinquished		<input checked="" type="checkbox"/>	
5	Chain of custody agrees with sample labels?		<input checked="" type="checkbox"/>	
6	Samples in proper container/bottle?		<input checked="" type="checkbox"/>	
7	Sample containers intact?		<input checked="" type="checkbox"/>	
8	Sufficient sample volume for indicated test?		<input checked="" type="checkbox"/>	
9	All samples received within holding time?		<input checked="" type="checkbox"/>	

Cooler Temperature Compliance Check

<table border="1"> <tr> <th>Temperature Blank Reading</th> </tr> <tr> <td> </td> </tr> </table>	Temperature Blank Reading		<p>If no trip blank is submitted individual temperatures must be taken as per SOP.</p>	<table border="1"> <tr> <th colspan="4">Cooler Sample Temperature</th> </tr> <tr> <th>#1</th> <th>#2</th> <th>#3</th> <th>Average</th> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> <td>12°C</td> </tr> </table>	Cooler Sample Temperature				#1	#2	#3	Average	11	12	13	12°C	<p><u>Air</u> <u>+ 2°C</u></p>
Temperature Blank Reading																	
Cooler Sample Temperature																	
#1	#2	#3	Average														
11	12	13	12°C														
<p>Reason for Elevated Temperature</p> <input type="checkbox"/> - Ice Melted <input type="checkbox"/> Insufficient Ice <input type="checkbox"/> <input checked="" type="checkbox"/> Samp. in boxes <u>WATER</u> <input checked="" type="checkbox"/> Sampled < 4hr. <input checked="" type="checkbox"/> Ice not req. <u>AIR</u>		<p>Samples with Temp > 6°C - Comments</p> <p><u>WATER / AIR</u></p>															

VOA Sample Inspection

<p>Are bubbles present in any of the VOA Vials?</p>	Sample #	Small	Med.	Large	<p>Samples with broken, cracked or leaking containers</p>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Water - pH acceptable upon receipt?</p>	Yes: <input type="checkbox"/>	No: <input type="checkbox"/>	<p>Samples with Unacceptable pH</p>		

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/05 Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

ETIC Oakland

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Eric Zickler

Project#: TMSFT1 Task 10.8

Project: Strough Family Trust

RECEIVED
JUN 28 2005
ETIC ENGINEERING

June 22, 2005

Attached is our report for your samples received on 06/09/2005 14:55

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/24/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	06/09/2005 10:30	Water	1
MIDFLUENT	06/09/2005 10:35	Water	2
INFLUENT	06/09/2005 10:40	Water	3

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Prep(s): 5030B
Sample ID: EFFLUENT
Sampled: 06/09/2005 10:30
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-06-0234 - 1
Extracted: 6/19/2005 21:40
QC Batch#: 2005/06/19-02.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/19/2005 21:40	Q6
Benzene	ND	0.50	ug/L	1.00	06/19/2005 21:40	
Toluene	ND	0.50	ug/L	1.00	06/19/2005 21:40	
Ethylbenzene	ND	0.50	ug/L	1.00	06/19/2005 21:40	
Total xylenes	ND	1.0	ug/L	1.00	06/19/2005 21:40	
Surrogate(s)						
1,2-Dichloroethane-d4	113.9	73-130	%	1.00	06/19/2005 21:40	
Toluene-d8	100.1	81-114	%	1.00	06/19/2005 21:40	

Fuel Oxygenates by 8260B

ETIC Oakland
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Oakland, CA 94612
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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Prep(s): 5030B

Sample ID: MIDFLUENT

Sampled: 06/09/2005 10:35

Matrix: Water

pH: <2

Test(s): 8260B

Lab ID: 2005-06-0234 - 2

Extracted: 6/19/2005 22:55

QC Batch#: 2005/06/19-02.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/19/2005 22:55	
Benzene	ND	0.50	ug/L	1.00	06/19/2005 22:55	
Toluene	ND	0.50	ug/L	1.00	06/19/2005 22:55	
Ethylbenzene	ND	0.50	ug/L	1.00	06/19/2005 22:55	
Total xylenes	ND	1.0	ug/L	1.00	06/19/2005 22:55	
Surrogate(s)						
1,2-Dichloroethane-d4	111.5	73-130	%	1.00	06/19/2005 22:55	
Toluene-d8	99.2	81-114	%	1.00	06/19/2005 22:55	

Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Prep(s): 5030B

Sample ID: INFLUENT

Sampled: 06/09/2005 10:40

Matrix: Water

pH: <2

Test(s): 8260B

Lab ID: 2005-06-0234 - 3

Extracted: 6/19/2005 23:19

QC Batch#: 2005/06/19-02.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	13000	1000	ug/L	20.00	06/19/2005 23:19	
Benzene	360	10	ug/L	20.00	06/19/2005 23:19	
Toluene	1700	10	ug/L	20.00	06/19/2005 23:19	
Ethylbenzene	150	10	ug/L	20.00	06/19/2005 23:19	
Total xylenes	2900	20	ug/L	20.00	06/19/2005 23:19	
Surrogate(s)						
1,2-Dichloroethane-d4	115.9	73-130	%	20.00	06/19/2005 23:19	
Toluene-d8	102.7	81-114	%	20.00	06/19/2005 23:19	

Severn Trent Laboratories, Inc.
STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/22/2005 15:49

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/06/19-02.66-025

Water

Test(s): 8260B

QC Batch # 2005/06/19-02.66

Date Extracted: 06/19/2005 20:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/19/2005 20:25	
Benzene	ND	0.5	ug/L	06/19/2005 20:25	
Toluene	ND	0.5	ug/L	06/19/2005 20:25	
Ethylbenzene	ND	0.5	ug/L	06/19/2005 20:25	
Total xylenes	ND	1.0	ug/L	06/19/2005 20:25	
Surrogates(s)					
1,2-Dichloroethane-d4	105.0	73-130	%	06/19/2005 20:25	
Toluene-d8	98.4	81-114	%	06/19/2005 20:25	

Fuel Oxygenates by 8260B

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Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/06/19-02.66

LCS 2005/06/19-02.66-059
LCSD

Extracted: 06/19/2005

Analyzed: 06/19/2005 20:50

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.6		25.0	94.4			69-129	20		
Toluene	28.1		25.0	112.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	434		500	86.8			73-130			
Toluene-d8	494		500	98.8			81-114			

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/22/2005 15:49

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

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Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/06/19-02.66

EFFLUENT >> MS

MS: 2005/06/19-02.66-005

Extracted: 06/19/2005

Lab ID: 2005-06-0234 - 001

Analyzed: 06/19/2005 22:05

MSD: 2005/06/19-02.66-030

Extracted: 06/19/2005

Dilution: 1.00

Analyzed: 06/19/2005 22:30

Dilution: 1.00

Compound	Conc. ug/L		Spk. Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	26.1	25.9	ND	25.0	104.4	103.6	0.8	69-129	20		
Toluene	29.0	28.8	ND	25.0	116.0	115.2	0.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	504	509		500	100.8	101.8		73-130			
Toluene-d8	511	505		500	102.2	101.0		81-114			

Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Legend and Notes

Sample Comment

Lab ID: 2005-06-0234-1

Siloxane peaks were found in the sample, which are not believed to be gas related. If they were to be quantified, the concentration would be 65 ug/mL

Result Flag

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 06/09/2005 14:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OUTLET	06/09/2005 11:00	Air	4
INLET	06/09/2005 11:10	Air	5

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/16/2005 12:56

Page 1 of 10

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 06/09/2005 14:55

Prep(s): 5030B

Sample ID: OUTLET

Sampled: 06/09/2005 11:00

Matrix: Air

Test(s): 8260B

Lab ID: 2005-06-0234 - 4

Extracted: 6/10/2005 13:38

QC Batch#: 2005/06/10-1D.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	mg/m3	1.00	06/10/2005 13:38	
Benzene	ND	0.50	mg/m3	1.00	06/10/2005 13:38	
Toluene	ND	0.50	mg/m3	1.00	06/10/2005 13:38	
Ethylbenzene	ND	0.50	mg/m3	1.00	06/10/2005 13:38	
Total xylenes	ND	1.0	mg/m3	1.00	06/10/2005 13:38	
Surrogate(s)						
1,2-Dichloroethane-d4	110.6	72-128	%	1.00	06/10/2005 13:38	
Toluene-d8	103.7	80-113	%	1.00	06/10/2005 13:38	

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 06/09/2005 14:55

Prep(s): 5030B

Sample ID: INLET

Sampled: 06/09/2005 11:10

Matrix: Air

Analysis Flag: L2 (See Legend and Note Section)

Test(s): 8260B

Lab ID: 2005-06-0234 - 5

Extracted: 6/11/2005 03:53

QC Batch#: 2005/06/10-2B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	11000	250	mg/m3	5.00	06/11/2005 03:53	
Benzene	110	2.5	mg/m3	5.00	06/11/2005 03:53	
Toluene	520	2.5	mg/m3	5.00	06/11/2005 03:53	
Ethylbenzene	79	2.5	mg/m3	5.00	06/11/2005 03:53	
Total xylenes	630	5.0	mg/m3	5.00	06/11/2005 03:53	
Surrogate(s)						
1,2-Dichloroethane-d4	122.5	72-128	%	5.00	06/11/2005 03:53	
Toluene-d8	103.8	80-113	%	5.00	06/11/2005 03:53	

Severn Trent Laboratories, Inc.

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06/16/2005 12:56

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/06/10-1D.69-004

Water

Test(s): 8260B

QC Batch # 2005/06/10-1D.69

Date Extracted: 06/10/2005 07:04

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/10/2005 07:04	
Benzene	ND	0.5	ug/L	06/10/2005 07:04	
Toluene	ND	0.5	ug/L	06/10/2005 07:04	
Ethylbenzene	ND	0.5	ug/L	06/10/2005 07:04	
Total xylenes	ND	1.0	ug/L	06/10/2005 07:04	
Surrogates(s)					
1,2-Dichloroethane-d4	96.6	73-130	%	06/10/2005 07:04	
Toluene-d8	89.8	81-114	%	06/10/2005 07:04	

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/06/10-2B.64-024

Water

Test(s): 8260B

QC Batch # 2005/06/10-2B.64

Date Extracted: 06/10/2005 19:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/10/2005 19:24	
Benzene	ND	0.5	ug/L	06/10/2005 19:24	
Toluene	ND	0.5	ug/L	06/10/2005 19:24	
Ethylbenzene	ND	0.5	ug/L	06/10/2005 19:24	
Total xylenes	ND	1.0	ug/L	06/10/2005 19:24	
Surrogates(s)					
1,2-Dichloroethane-d4	105.2	73-130	%	06/10/2005 19:24	
Toluene-d8	101.2	81-114	%	06/10/2005 19:24	

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06/16/2005 12:56

Page 5 of 10

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604
Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/06/10-1D.69

LCS 2005/06/10-1D.69-046
LCSD

Extracted: 06/10/2005

Analyzed: 06/10/2005 06:46

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.3		25	97.2			69-129	20		
Toluene	23.0		25	92.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	469		500	93.8			73-130			
Toluene-d8	473		500	94.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/06/10-2B.64

LCS 2005/06/10-2B.64-000
LCSD

Extracted: 06/10/2005

Analyzed: 06/10/2005 19:00

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.1		25	88.4			69-129	20		
Toluene	24.4		25	97.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	543		500	108.6			73-130			
Toluene-d8	558		500	111.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/06/10-1D.69

MS/MSD

MS: 2005/06/10-1D.69-017

Extracted: 06/10/2005

Lab ID: 2005-05-0795 - 001

Analyzed: 06/10/2005 10:17

MSD: 2005/06/10-1D.69-035

Extracted: 06/10/2005

Dilution: 10.00

Analyzed: 06/10/2005 10:35

Dilution: 10.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	317	352	68.6	250	99.4	113.4	13.2	76-124	20		
Toluene	241	266	1.16	250	95.9	105.9	9.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	503	520		500	100.7	104.0		73-130			
Toluene-d8	488	473		500	97.6	94.5		81-114			

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Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/06/10-2B.64

MS/MSD

MS: 2005/06/10-2B.64-040

Extracted: 06/10/2005

Lab ID: 2005-06-0012 - 001

Analyzed: 06/10/2005 20:40

MSD: 2005/06/10-2B.64-004

Extracted: 06/10/2005

Dilution: 1.00

Analyzed: 06/10/2005 21:04

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	21.3	27.9	ND	25	85.2	111.6	26.8	76-124	20		
Toluene	23.1	30.5	ND	25	92.4	122.0	27.6	70-130	20		R1
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	530	609		500	106.0	121.8		73-130			
Toluene-d8	515	605		500	103.0	121.0		81-114			S7

Gas/BTEX Fuel Oxygenates by 8260B

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFFLUENT	06/09/2005 10:30	Water	1
MIDFLUENT	06/09/2005 10:35	Water	2
INFLUENT	06/09/2005 10:40	Water	3

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/17/2005 15:11

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Prep(s): 3510/8015M
Sample ID: EFFLUENT
Sampled: 06/09/2005 10:30
Matrix: Water

Test(s): 8015M
Lab ID: 2005-06-0234 - 1
Extracted: 6/15/2005 13:03
QC Batch#: 2005/06/15-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	06/16/2005 19:25	
<i>Surrogate(s)</i> o-Terphenyl	75.5	60-130	%	1.00	06/16/2005 19:25	

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Prep(s): 3510/8015M
Sample ID: MIDFLUENT
Sampled: 06/09/2005 10:35
Matrix: Water

Test(s): 8015M
Lab ID: 2005-06-0234 - 2
Extracted: 6/15/2005 13:03
QC Batch#: 2005/06/15-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	1.00	06/16/2005 19:52	
Surrogate(s) o-Terphenyl	62.5	60-130	%	1.00	06/16/2005 19:52	

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Prep(s): 3510/8015M

Sample ID: INFLUENT

Sampled: 06/09/2005 10:40

Matrix: Water

Test(s): 8015M

Lab ID: 2005-06-0234 - 3

Extracted: 6/15/2005 13:03

QC Batch#: 2005/06/15-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	1200	50	ug/L	1.00	06/16/2005 20:19	
<i>Surrogate(s)</i> o-Terphenyl	57.8	60-130	%	1.00	06/16/2005 20:19	S6

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8

Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2005/06/15-03.10-001

Water

Test(s): 8015M

QC Batch # 2005/06/15-03.10

Date Extracted: 06/15/2005 13:03

Compound	Conc.	RL	Unit	Analyzed	Flag
DRO (C10-C28)	ND	50	ug/L	06/16/2005 11:20	
<i>Surrogates(s)</i> o-Terphenyl	88.1	60-130	%	06/16/2005 11:20	

Severn Trent Laboratories, Inc.

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06/17/2005 15:11

Page 5 of 7

Diesel with Silica Gel Clean-up

ETIC Oakland
Attn.: Eric Zickler

1333 Broadway, Suite 1015
Oakland, CA 94612
Phone: (510) 208-1600 Fax: (510) 208-1604
Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/06/15-03.10

LCS 2005/06/15-03.10-002
LCSD 2005/06/15-03.10-003

Extracted: 06/15/2005
Extracted: 06/15/2005

Analyzed: 06/16/2005 12:15
Analyzed: 06/16/2005 12:43

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
DRO (C10-C28)	777	763	1000	77.7	76.3	1.8	60-130	25		
Surrogates(s) o-Terphenyl	18.0	18.1	20.0	90.2	90.4		60-130	0		

Sewern Trent Laboratories, Inc.
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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/17/2005 15:11

Diesel with Silica Gel Clean-up

ETIC Oakland

Attn.: Eric Zickler

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT1 Task 10.8
Strough Family Trust

Received: 06/09/2005 14:55

Legend and Notes

Result Flag

S6

Surrogate recoveries lower than acceptance limits.
Matrix interference suspected

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

2005-06-0234
Analysis Request

Report To
 Attn: Eric Zickler

Company: ETIC Engineering

Address: 1333 Broadway, Oakland, CA 94612

Phone: 510-208-1600 x18 Email: ezickler@eticeng.com

Bill To: ETIC Engineering

Attn: Katherine Brandt

Sampled By: S. McNeil

Phone: 208-1600 x11

Sample ID	Date	Time	Matrix	Pre ser v.	TPH EPA - <input type="checkbox"/> 80158021 <input checked="" type="checkbox"/> 82608 <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> 82608	TEPH EPA 8015M <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 82608: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 82608 <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers	
Effluent	6-9-05	1030	H ₂ O		X																	
Midfluent		1035	H ₂ O		X		X															
Influent		1040	H ₂ O		X		X															5
Outlet																						5
Inlet		1100	Air		X																	2
		1110	Air		X																	2
MW2			H ₂ O		X		X															2
MW3			H ₂ O		X		X															2

Project Info.

Project Name: Strough Family Trust

Project#: TMSFT1 Task 10.8

CO#:

Credit Card#:

Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
 Global ID 10600101644

Special Instructions / Comments:

AT 5 Day 72h 48h 24h

Other:

Sample Receipt

of Containers: _____

Head Space: _____

Temp: 5°C

Conforms to record: _____

1) Relinquished by: S. McNeil 14:55
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

2) Relinquished by: _____
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

3) Relinquished by: _____
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

1) Received by: T. Bullock 14:55
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company STL-SF

2) Received by: _____
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

3) Received by: _____
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

Sample Receipt Checklist

Submission #: 2005- 06-0234

Checklist completed by: <u>SA</u>		DATE: <u>6/9/05</u>		
Courier: <input type="checkbox"/> STL SF	Courier <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> Other	Client <input checked="" type="checkbox"/>		
Log In Details		Yes	No	Comments
1	Custody seals intact on shipping container/samples		<input checked="" type="checkbox"/>	
2	Chain of custody present?	<input checked="" type="checkbox"/>		
3	Chain of custody signed when relinquished and received?	<input checked="" type="checkbox"/>		<input type="checkbox"/> Picked-up at Secure Location. <input type="checkbox"/> Client signed-off at time prior to pick-up
4	All samples checked when COC relinquished	<input checked="" type="checkbox"/>		
5	Chain of custody agrees with sample labels?		<input checked="" type="checkbox"/>	
6	Samples in proper container/bottle?	<input checked="" type="checkbox"/>		
7	Sample containers intact?	<input checked="" type="checkbox"/>		
8	Sufficient sample volume for indicated test?	<input checked="" type="checkbox"/>		
9	All samples received within holding time?	<input checked="" type="checkbox"/>		

Cooler Temperature Compliance Check

Temperature Blank Reading: _____	If no trip blank is submitted individual temperatures must be taken as per SOP.	Cooler Sample Temperature			
		#1	#2	#3	Average
		<u>5</u>	<u>5</u>	<u>5</u>	<u>5°C</u>

Reason for Elevated Temperature

- Ice Melted Insufficient Ice
 Samp. in boxes Sampled < 4hr. Ice not req.

Samples with Temp > 8°C - Comments:

VOA Sample Inspection

Are bubbles present in any of the VOA vials?	Sample #	Small	Med.	Large	Samples with broken, cracked or leaking containers
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes	No	Samples with Unacceptable pH		
	<input type="checkbox"/>	<input type="checkbox"/>			

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____ / _____ /05 Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

**Quarterly Monitoring
Laboratory Analytical Results**

ETIC Oakland

1333 Broadway, Suite 1015
Oakland, CA 94612

Attn.: Kathy Brandt

Project#: TMSFT.9

Project: Strough Family Trust

RECEIVED
JUL 06 2005
ETIC ENGINEERING

June 28, 2005

Kathy

Attached is our report for your samples received on 06/16/2005 18:30
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
07/31/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW2	06/15/2005 12:05	Water	1
MW3	06/15/2005 12:45	Water	2
MW4	06/15/2005 11:05	Water	3

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06/28/2005 14:21

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Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW2 Lab ID: 2005-06-0460 - 1
 Sampled: 06/15/2005 12:05 Extracted: 6/28/2005 13:41
 Matrix: Water QC Batch#: 2005/06/28-01.62
 Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	120000	5000	ug/L	100.00	06/28/2005 13:41	
Methyl tert-butyl ether (MTBE)	810	50	ug/L	100.00	06/28/2005 13:41	
Benzene	2900	50	ug/L	100.00	06/28/2005 13:41	
Toluene	15000	50	ug/L	100.00	06/28/2005 13:41	
Ethylbenzene	2400	50	ug/L	100.00	06/28/2005 13:41	
Total xylenes	22000	100	ug/L	100.00	06/28/2005 13:41	
Surrogate(s)						
1,2-Dichloroethane-d4	107.1	73-130	%	100.00	06/28/2005 13:41	
Toluene-d8	98.9	81-114	%	100.00	06/28/2005 13:41	

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Fuel Oxygenates by 8260B

ETIC Oakland

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Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW3 Lab ID: 2005-06-0460 - 2
 Sampled: 06/15/2005 12:45 Extracted: 6/26/2005 01:32
 Matrix: Water QC Batch#: 2005/06/25-02.64

Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	12000	1000	ug/L	20.00	06/26/2005 01:32	
Methyl tert-butyl ether (MTBE)	31	10	ug/L	20.00	06/26/2005 01:32	
Benzene	260	10	ug/L	20.00	06/26/2005 01:32	
Toluene	960	10	ug/L	20.00	06/26/2005 01:32	
Ethylbenzene	330	10	ug/L	20.00	06/26/2005 01:32	
Total xylenes	1400	20	ug/L	20.00	06/26/2005 01:32	
Surrogate(s)						
1,2-Dichloroethane-d4	101.8	73-130	%	20.00	06/26/2005 01:32	
Toluene-d8	85.5	81-114	%	20.00	06/26/2005 01:32	

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Fuel Oxygenates by 8260B

ETIC Oakland

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW4 Lab ID: 2005-06-0460 - 3
 Sampled: 06/15/2005 11:05 Extracted: 6/26/2005 01:57
 Matrix: Water QC Batch#: 2005/06/25-02.64
 Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2100	500	ug/L	10.00	06/26/2005 01:57	
Methyl tert-butyl ether (MTBE)	1100	5.0	ug/L	10.00	06/26/2005 01:57	
Benzene	350	5.0	ug/L	10.00	06/26/2005 01:57	
Toluene	6.1	5.0	ug/L	10.00	06/26/2005 01:57	
Ethylbenzene	ND	5.0	ug/L	10.00	06/26/2005 01:57	
Total xylenes	ND	10	ug/L	10.00	06/26/2005 01:57	
Surrogate(s)						
1,2-Dichloroethane-d4	100.1	73-130	%	10.00	06/26/2005 01:57	
Toluene-d8	87.6	81-114	%	10.00	06/26/2005 01:57	

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Fuel Oxygenates by 8260B

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Batch QC Report

Prep(s): 5030B

Method **Blank**

MB: 2005/06/25-02.64-023

Water

Test(s): 8260B

QC Batch # 2005/06/25-02.64

Date Extracted: 06/25/2005 18:23

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/25/2005 18:23	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/25/2005 18:23	
Benzene	ND	0.5	ug/L	06/25/2005 18:23	
Toluene	ND	0.5	ug/L	06/25/2005 18:23	
Ethylbenzene	ND	0.5	ug/L	06/25/2005 18:23	
Total xylenes	ND	1.0	ug/L	06/25/2005 18:23	
Surrogates(s)					
1,2-Dichloroethane-d4	88.8	73-130	%	06/25/2005 18:23	
Toluene-d8	87.4	81-114	%	06/25/2005 18:23	

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Fuel Oxygenates by 8260B

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9
Strough Family Trust

Received: 06/16/2005 18:30

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/06/28-01:62-035

Water

Test(s): 8260B

QC Batch # 2005/06/28-01.62

Date Extracted: 06/28/2005 07:35

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/28/2005 07:35	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/28/2005 07:35	
Benzene	ND	0.5	ug/L	06/28/2005 07:35	
Toluene	ND	0.5	ug/L	06/28/2005 07:35	
Ethylbenzene	ND	0.5	ug/L	06/28/2005 07:35	
Total xylenes	ND	1.0	ug/L	06/28/2005 07:35	
Surrogates(s)					
1,2-Dichloroethane-d4	100.2	73-130	%	06/28/2005 07:35	
Toluene-d8	97.3	81-114	%	06/28/2005 07:35	

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Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/06/25-02.64

LCS 2005/06/25-02.64-020

Extracted: 06/25/2005

Analyzed: 06/25/2005 19:20

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.9		25.0	99.6			65-165	20		
Benzene	22.9		25.0	91.6			69-129	20		
Toluene	26.2		25.0	104.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	414		500	82.8			73-130			
Toluene-d8	438		500	87.6			81-114			

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Fuel Oxygenates by 8260B

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Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/06/28-01.62

LCS 2005/06/28-01.62-009

Extracted: 06/28/2005

Analyzed: 06/28/2005 07:09

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.1		25.0	88.4			65-165	20		
Benzene	21.2		25.0	84.8			69-129	20		
Toluene	21.5		25.0	86.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	489		500	97.8			73-130			
Toluene-d8	477		500	95.4			81-114			

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Project: TMSFT.9
Strough Family Trust

Received: 06/16/2005 18:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/06/25-02.64

MS/MSD

Lab ID: 2005-06-0512 - 001

MS: 2005/06/25-02.64-005

Extracted: 06/25/2005

Analyzed: 06/25/2005 21:05

Dilution: 50.00

MSD: 2005/06/25-02.64-029

Extracted: 06/25/2005

Analyzed: 06/25/2005 21:29

Dilution: 50.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	1020	1160	ND	1250	81.6	92.8	12.8	65-165	20		
Benzene	921	1010	ND	1250	73.7	80.8	9.2	69-129	20		
Toluene	1090	1180	5.02	1250	86.8	94.0	8.0	70-130	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	467	466		500	93.5	93.2		73-130			
Toluene-d8	429	461		500	85.9	92.2		81-114			

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Fuel Oxygenates by 8260B

ETIC Oakland
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Project: TMSFT.9
Strough Family Trust

Received: 06/16/2005 18:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/06/28-01.62

MS/MSD

Lab ID: 2005-06-0697 - 003

MS: 2005/06/28-01.62-046

Extracted: 06/28/2005

Analyzed: 06/28/2005 09:46

Dilution: 1.00

MSD: 2005/06/28-01.62-012

Extracted: 06/28/2005

Analyzed: 06/28/2005 10:12

Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	21.7	25.8	ND	25.0	86.8	103.2	17.3	69-129	20		
Toluene	21.6	25.2	ND	25.0	86.4	100.8	15.4	70-130	20		
Methyl tert-butyl ether	21.7	25.3	1.15	25.0	82.2	96.6	16.1	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	483	495		500	96.6	99.0		73-130			
Toluene-d8	481	470		500	96.2	94.0		81-114			

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Fuel Oxygenates by 8260B

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Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

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TEPH w/ Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW2	06/15/2005 12:05	Water	1
MW3	06/15/2005 12:45	Water	2
MW4	06/15/2005 11:05	Water	3

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TEPH w/ Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

1333 Broadway, Suite 1015

Oakland, CA 94612

Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Prep(s): 3510/8015M

Sample ID: MW2

Sampled: 06/15/2005 12:05

Matrix: Water

Test(s): 8015M

Lab ID: 2005-06-0460 - 1

Extracted: 6/20/2005 16:30

QC Batch#: 2005/06/20-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Motor Oil	ND	2500	ug/L	5.00	06/22/2005 11:30	
DRO (C10-C28)	13000	250	ug/L	5.00	06/22/2005 11:30	
<i>Surrogate(s)</i> o-Terphenyl	NA	60-130	%	5.00	06/22/2005 11:30	S3

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TEPH w/ Silica Gel Clean-up

ETIC Oakland

Attn.: Kathy Brandt

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Prep(s): 3510/8015M

Sample ID: MW3

Sampled: 06/15/2005 12:45

Matrix: Water

Test(s): 8015M

Lab ID: 2005-06-0460 - 2

Extracted: 6/20/2005 16:30

QC Batch#: 2005/06/20-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Motor Oil	ND	500	ug/L	1.00	06/21/2005 20:43	
DRO (C10-C28)	1200	50	ug/L	1.00	06/21/2005 20:43	
Surrogate(s) o-Terphenyl	73.1	60-130	%	1.00	06/21/2005 20:43	

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TEPH w/ Silica Gel Clean-up

ETIC Oakland

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Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Prep(s): 3510/8015M

Sample ID: MW4

Sampled: 06/15/2005 11:05

Matrix: Water

Test(s): 8015M

Lab ID: 2005-06-0460 - 3

Extracted: 6/20/2005 16:30

QC Batch#: 2005/06/20-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Motor Oil	ND	500	ug/L	1.00	06/21/2005 21:10	
DRO (C10-C28)	89	50	ug/L	1.00	06/21/2005 21:10	
<i>Surrogate(s)</i>						
o-Terphenyl	78.4	60-130	%	1.00	06/21/2005 21:10	

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TEPH w/ Silica Gel Clean-up

ETIC Oakland
Attn.: Kathy Brandt

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9
Strough Family Trust

Received: 06/16/2005 18:30

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2005/06/20-06.10-001

Water

Test(s): 8015M

QC Batch #: 2005/06/20-06.10

Date Extracted: 06/20/2005 16:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Motor Oil	ND	500	ug/L	06/21/2005 18:27	
DRO (C10-C28)	ND	50	ug/L	06/21/2005 18:27	
<i>Surrogates(s)</i> o-Terphenyl	85.8	60-130	%	06/21/2005 18:27	

TEPH w/ Silica Gel Clean-up

ETIC Oakland

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Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/06/20-06.10

LCS 2005/06/20-06.10-002

Extracted: 06/20/2005

Analyzed: 06/21/2005 15:18

LCSD 2005/06/20-06.10-003

Extracted: 06/20/2005

Analyzed: 06/21/2005 15:26

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
DRO (C10-C28)	781	616	1000	78.1	61.6	23.6	60-130	25		
Surrogates(s) o-Terphenyl	16.7	13.8	20.0	83.6	69.0		60-130	0		

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Project: TMSFT.9

Strough Family Trust

Received: 06/16/2005 18:30

Legend and Notes

Result Flag

S3

Surrogate recovery not reportable due to required dilution.

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06/23/2005 17:10

Sample Receipt Checklist

Submission #: 2005- 06-0460

Checklist completed by: <u>BT</u>		DATE: <u>6/20/05</u>
Courier: <input checked="" type="checkbox"/> STL SF	Courier <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> Other	
Log-In Details		Client <input type="checkbox"/>
	Yes	No
1 Custody seals intact on shipping container/samples	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2 Chain of custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Chain of custody signed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 All samples checked when COC relinquished	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5 Chain of custody agrees with sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Samples in proper container/bottle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Sample containers intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8 Sufficient sample volume for indicated test?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9 All samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cooler Temperature Compliance Check

Temperature Blank Reading <u>3°C</u>	If no trip blank is submitted individual temperatures must be taken as per SOP.	Cooler Sample Temperature			
		#1	#2	#3	Average
Reason for Elevated Temperature <input type="checkbox"/> - Ice Melted <input type="checkbox"/> Insufficient Ice <input type="checkbox"/> <input type="checkbox"/> Samp. in boxes <input type="checkbox"/> Sampled < 4hr. <input type="checkbox"/> Ice not req.		Samples with Temp > 6°C - Comments			

VOA Sample Inspection

Are bubbles present in any of the VOA vials?	Sample #	Small	Med.	Large	Samples with broken, cracked or leaking containers
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes	No	Samples with Unacceptable pH		
	<input type="checkbox"/>	<input type="checkbox"/>			

pH adjusted - Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc - Lot #(s) _____

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (Initials) _____ Date: ____/____/05 Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):