RO2541

A·C·C ENVIRONMENTAL CONSULTANTS

Alameda County
APR 2 6 2004
Environmental Health

April 26, 2004

Mr. Kelly Engineer
All Star Inc.
1791 Pine Street
Concord, CA 94520

RE: March 2004 Groundwater Monitoring Report
1220 West Tennyson Road, Hayward, California
ACC Project Number: 6651-004.00

Dear Mr. Engineer:

ACC Environmental Consultants, Inc., (ACC) has enclosed two copies of the Groundwater Sampling and Monitoring Report. Methyl tertiary butyl ether (MTBE) was the only gasoline constituent reported in the samples from the three existing groundwater monitoring wells. On your behalf, a copy of this report has been submitted to Mr. Barney Chan of the Alameda County Health Care Services Agency (ACHCSA) for review. ACC understands that the Hayward Fire Department has referred the case to the ACHCSA for oversight and to be the lead regulatory agency.

* (incorrect that was 4Q 03 results

If you have any questions regarding this report or the findings of the work, please contact me at (510) 638-8400, extension 109.

Sincerely,

David R. DeMent, RG, REA II
Environmental Division Manager

/ejg:drd

Enclosures

cc: Mr. Paul Rosenstein, Attorney at Law
Mr. Barney Chan, ACHCSA

RO 2541

A·C·C ENVIRONMENTAL CONSULTANTS

LIMITED SUBSURFACE INVESTIGATION REPORT

Alameda County
APR 2 6 2004
Environmental Health

April 26, 2004

1220 W. Tennyson Road
Hayward, California

Prepared For:

Mr. Kelly Engineer
All Star Inc.
1791 Pine Street
Concord, California

ACC Project Number 6651-004.01

OAKLAND ▪ SACRAMENTO
SEATTLE ▪ LOS ANGELES

A·C·C
ENVIRONMENTAL
CONSULTANTS

LIMITED SUBSURFACE INVESTIGATION REPORT

1220 West Tennyson Road
Hayward, California

ACC Project Number: 6651-004.01

Prepared for:

Mr. Kelly Engineer
All Star Inc.
1791 Pine Street
Concord, California 94620

April 26, 2004

Prepared by: _____
Edward Giacometti
Staff Geologist

Reviewed by: _____
David R. DeMent, RG, REA II
Environmental Division Manager

REGISTERED GEOLOGIST
DAVID R. DEMENT
NO. 6974
STATE OF CALIFORNIA

TABLE OF CONTENTS

LIMITED SUBSURFACE INVESTIGATION REPORT
1220 West Tennyson
Hayward, California

1.0 INTRODUCTION

This Subsurface Investigation Report has been prepared by ACC Environmental Consultants Inc., (ACC) at the request of Mr. Kelly Engineer of All Star, Inc. (Client). This report describes additional subsurface investigation work performed at the subject property 1220 West Tennyson Road, Hayward, California (Site). The purpose of this limited subsurface investigation was to: characterize groundwater downgradient of the Site and attempt to determine the horizontal extent of petroleum hydrocarbon-impacted groundwater; log soils to evaluate the migration potential in the first encountered water-bearing zone; prepare a report of findings for submission to the ACHCSA other agencies as appropriate.

2.0 BACKGROUND

The Site is located on the southwest corner of West Tennyson Road and Pompano Street, Hayward, California (Figure 1). An operating gasoline and automobile repair facility currently occupy the Site. The following information was obtained during file review at the HFD.

Environmental Geotechnical Consultants, Inc. removed one 6,000-gallon and three 4,000-gallon USTs from the site in October 1990. Four new USTs were subsequently installed at the site. One groundwater and eight soil samples were collected from the tank pit during removal of the USTs. Analysis of the soil samples revealed the presence of total petroleum hydrocarbons as gasoline (TPHg) at 4,300 parts per million (ppm), benzene at 29,000 parts per billion (ppb), toluene at 160,000 ppb, ethylbenzene at 68,000 ppb and total xylenes at 280,000 ppb. Analysis of the groundwater sample revealed the presence of TPHg at 26 ppm, benzene at 2,400 ppb, toluene at 1,800 ppb and total xylenes at 5,200 ppb.

Artesian Environmental Consultants (Artesian) performed a subsurface investigation at the Site in March 1992. Three soil borings were drilled at the Site and converted into groundwater monitoring wells (MW-1, MW-2 and MW-3). Analysis of seven soil samples collected from the borings revealed the presence of TPHg at 680 ppm, benzene at 8,100 ppb, toluene at 15,000 ppb, ethylbenzene at 11,000 ppm and total xylenes at 73,000 ppb. Analyses of soil samples collected from the tank pit revealed the presence of TPHg at 2,900 ppm, benzene at 12,000 ppm, toluene at 160,000 ppm, ethylbenzene at 35,000 ppb and total xylenes at 420,000 ppb. Analyses of groundwater samples collected from the groundwater monitoring wells revealed the presence of TPHg at 59,000 ppb, benzene at 13,000 ppb, toluene at 12,000 ppb, ethylbenzene at 1,600 ppb and total xylenes at 13,000 ppb.

ACC understands that the HFD has requested additional site investigation at the Site.

ACC performed periodic groundwater sampling at the Site in April 2001, July 2001, November 2002, February 2003, May 2003, and on August 27, 2003. The results of groundwater monitoring are summarized below in Table 1.

TABLE 1 - GROUNDWATER SAMPLE ANALYTICAL RESULTS

Well No	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE* (µg/L)	TBA* (µg/L)
MW-1	04/07/92	<50	2.1	0.56	<0.5	1.4	NA	NA
	04/11/01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
	07/16/01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
	11/25/02	16,000*	<100	<100	<100	<100	20,000	NA
	02/24/03	<25,000	<250	<250	<250	<500	59,000	NA
	05/27/03	38,000*	<250	<250	<250	<500	53,000	NA
	08/27/03	<13,000	<130	<130	<130	<250	36,000	NA
	11/21/03	<20,000	<200	<200	<200	<400	19,000	NA
MW-2	04/07/92	2,100	450	200	45	360	NA	NA
	04/11/01	<5,000	<50	<50	<50	150	5,200	NA
	07/16/01	6,300	<50	<50	<50	<50	6,500	NA
	11/25/02	13,000*	<50	<50	<50	<50	20,000	NA
	02/24/03**	<5,000	<50	<50	<50	<100	17,000	NA
	05/27/03	130*	<0.50	<0.50	<0.50	<1.0	190	NA
	08/27/03	<50	<0.50	<0.50	<0.50	<1.0	60	NA
	11/21/03	<50	<0.50	<0.50	<0.50	<1.0	22	NA
MW-3	04/07/92	59,000	13,000	12,000	1,600	13,000	NA	NA
	04/11/01	4,800	<5.0	5.1	320	<5	760	1,500
	07/16/01	4,300	<10	<10	100	60	2,400	NA
	11/25/02	2,900*	<10	<10	<10	<10	4,000	NA
	02/24/03	<5,000	<50	<50	<50	<100	4,900	NA
	05/27/03	<10,000	<100	<100	<100	<200	7,400	NA
	08/27/03	<2,500	<25	<25	<25	<50	4,500	NA
	11/21/03	<5,000	<50	<50	<50	<100	3,100	NA

Notes: *µg/L = micrograms per liter (approximately equivalent to ppb)*
<= concentrations were below reporting limits
NA = Not analyzed
** = Hydrocarbon reported in the gasoline range does not match the gasoline standard*
*** = ACC inadvertently sampled a 4-inch observation well located on the site instead of monitoring well MW-2*

Based on groundwater elevation calculations from data collected on November 21, 2003, the groundwater flow direction is toward the west-southwest at an average gradient is 0.005 foot per foot. Historical flow direction and gradient data is summarized in Table 2.

TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION

Date Monitored	Gradient (foot/foot)	Direction
04/07/92	0.025	south-southeast
04/11/01	0.031	south
07/16/01	0.026	south
11/25/02	0.008	south
02/24/03	0.002	south

Date Measured	Gradient (ft/ft/ft)	Direction
05/27/03	0.005	west-southwest
08/27/03	0.004	west-southwest
11/21/03	0.005	west-southwest

In June 2003, ACC submitted a work plan to the HFD to advance exploratory soil borings to delineate the extent of contamination at the Site. In that time the lead agency changed from the HFD to the ACHCSA. ACC resubmitted the work plan on July 11, 2003 after reviewing and incorporating technical comments from a letter from Mr. Chan of the ACHCSA dated June 11, 2003.

3.0 FIELD PROCEDURES

On October 6, 2003, ACC advanced nine exploratory soil borings designated SB1 through SB9 at select locations in the vicinity of the former onsite USTs (Figure 2). Soil boring locations were marked with white paint and Underground Service Alert was notified at least 48 hours prior to commencing work. A soil borings permit was obtained from Alameda County Public Works Agency (ACPWA), and an encroachment permit was obtained from the City of Hayward, prior to drilling activities, copies of which are included in Appendix 2.

The nine soil borings were continuously cored and advanced using a four-foot long, hydraulically driven, truck-mounted Geoprobe® sampling tool equipped with 2-inch inside-diameter clear acetate liners. The sampling probe and rods were pre-cleaned prior to use and between sample drives by washing them with a trisodium phosphate and potable water solution, a potable water rinse, and distilled water rinse. Upon removal from the sampler, each recovered soil core was visually inspected and logged. The sample intervals were primarily logged to determine relative permeability and evaluate mitigation potential at that soil boring location.

Soil samples were collected and analyzed from soil borings SB1, SB6 and SB7. The soil samples were collected with clear-acetate liners, capped with Teflon® tape and tight-fitting plastic end caps. Following collection, the samples were labeled, transferred to a pre-chilled insulated container, and then transported to STL San Francisco, (STL-SF), a state-certified laboratory for analysis.

Grab groundwater samples were collected in soil borings SB1 through SB9 by advancing the probe into the water bearing formation and retrieving the water from the probe with either a new, disposable 0.5-inch-diameter bailer or new polyethylene tubing equipped with a check-ball. Grab groundwater samples were collected in 40-milliliter VOA vials without headspace.

Drilling was performed under the direction of ACC's Registered Geologist, and the subsurface materials in the borings were identified using visual and manual methods. Soils in borings B1 through B9 were logged and classified during drilling operations according to the Unified Soil Classification System (USCS), with lithologic logs included as Appendix 2.

Following drilling and sample collection, each boring location was abandoned with neat cement to just below the surface (2 to 3 inches). The surface of each boring location was completed with concrete to grade and colored to match the surrounding material if needed.

4.0 FINDINGS

4.1 Subsurface Conditions

The area of investigation was generally covered with concrete or asphalt pavement with varying amounts of base fill material. Below the pavement and base material, subsurface soils across the entire area of investigation consisted of silt and silty clay to approximately 18 feet bgs. A sand stringer approximately 4 inches thick was observed in soil borings SB1, SB2, and SB6 but did not contain water. Silts and silty clays were generally medium stiff, slightly to moderately plastic, uniform, and exhibited low to medium estimated permeability. From approximately 18 to 20 feet bgs (the depth of investigation), soils consisted of silty sand (SM). Silts sands were olive, moderately sorted, fine to medium grained, contained 10 to 20 percent disseminated fines, and were saturated below 18.5 feet bgs. This SM zone was interpreted as first encountered groundwater. A two to four foot thick zone of discolored soil was noted in soil borings SB6 and SB7 from 10 to 14 feet bgs. This zone appeared to represent a historic capillary fringe or "smear" zone. Due to the lack of field indications of gasoline impact (significant odor, elevated PID readings, observed product in the soil pores), this former "smear" zone appeared to be highly weathered and any residual petroleum hydrocarbons in soil appear to be naturally attenuating. Soil sample SB1-12.0, collected in the "smear" zone reported 81 ppm TPHg and low concentrations of BTEX.

Soil was logged in soil borings SB1, SB2, SB6, and SB7. The remaining soil borings were advanced for the collection of a grab groundwater sample only. Additional information regarding subsurface conditions are summarized on soil boring logs in Appendix 2.

Groundwater was encountered at approximately 12.5 feet bgs in soil borings SB1 and SB6 and approximately 18.5 feet in soil boring SB2. Grab groundwater samples were collected from approximately 13 to 17 feet in the remaining soil borings. Groundwater was turbid and appeared to be of generally poor quality. First encountered groundwater at the Site appeared to be of variable thickness and depths and lacks horizontal continuity.

4.2 Analytical Results

Soil boring locations were chosen based on accessibility and their downgradient location relative to the former and existing UST location. Soil was screened for field indications of petroleum hydrocarbon impact and select representative soil samples were prepared for analysis. All soil and grab groundwater samples were analyzed for constituents of concern as TPHg; BTEX, and MTBE by EPA Method 8260B.

Soil and grab groundwater sample analytical results are summarized in Tables 3 and 4 located in Appendix 3, along with copies of laboratory reports and chain of custody records.

5.0 DISCUSSION

The primary goals of this additional site characterization work were: 1) to further characterize suspect soil impacts adjacent to the current and former USTs; 2) to further characterize the water-bearing zone for migration potential downgradient of the source area; and 3) obtain additional downgradient groundwater data for purposes of determining the degree and extent of impact.

5.1 Soil

Soil impacts outside the immediate vicinity of the former and current USTs appears to be primarily localized to the capillary fringe above first encountered groundwater. Fine-grained soils existing at the Site minimize potential horizontal and vertical migration of residual TPH in the subsurface and any significant migration generally occurs by dissolved-phase petroleum hydrocarbons in groundwater.

Evidence of historic TPH impacts to soil was observed in downgradient soil borings SB6 and SB7 from 10 to 14 feet bgs. This impact is likely due to releases from the former USTs. Direct observation, soil screening results, and analytical result of one representative soil sample collected in discolored soil in the "smear" zone indicate that a source of impact is no longer present and residual petroleum hydrocarbons are naturally degrading.

5.2 Groundwater

Grab groundwater sample analyses indicate that the extent of petroleum hydrocarbon-impacted groundwater is defined to a large degree. With the exception of soil boring SB1, BTEX levels are low and indicate that BTEX is being preferentially degraded by natural attenuation processes. MTBE levels also exhibit attenuation with distance from the former and current USTs. Upgradient soil borings SB2 and SB3 demonstrate that there are no petroleum hydrocarbon impacts in groundwater migrating onto the Site.

ACC confirmed that the former irrigation well downgradient of the Site is no longer being used. The pump was reportedly removed from the well by the now deceased homeowner.

6.0 CONCLUSIONS

Based on previously obtained onsite groundwater monitoring results, and findings and observations made during this additional site characterization work, ACC concludes the following:

- Reported petroleum hydrocarbon constituents in the grab groundwater samples indicate that significant natural attenuation is occurring as evidenced by the relatively low BTEX concentrations and attenuation of MTBE with distance from the suspect source area;

- Low to nondetectable petroleum hydrocarbons in grab water samples collected from soil borings SB4, SB5, SB8, and SB9, indicate that offsite migration of dissolved-phase petroleum hydrocarbons is limited in the horizontal extent and is relatively well defined;

- Reported BTEX concentrations indicate that BTEX is being preferentially degraded and may be controlled by the availability of dissolved oxygen; and

- Impacted groundwater appears to be generally confined to the Site and offsite migration is minimal.

7.0 RECOMMENDATIONS

Based on the conclusions of this investigation, ACC recommends:

- Submit a Work Plan to inject ORC® in select locations along the downgradient perimeter of the Site and at select locations adjacent to monitoring well MW-3 to decrease offsite migration of dissolved-phase petroleum hydrocarbons and enhance natural degradation processes in groundwater;

- Install one additional groundwater monitoring well offsite in the vicinity of ACC soil borings SB-6 and SB7 to: 1) characterize groundwater in the downgradient direction for gasoline constituents in groundwater; 2) more accurately calculate groundwater flow direction and gradient; and 3) help evaluate the effectiveness of the proposed ORC® injection; and

- Continue groundwater monitoring on a periodic basis approved by the ACHCSA to characterize groundwater on the subject Site.

8.0 LIMITATIONS

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

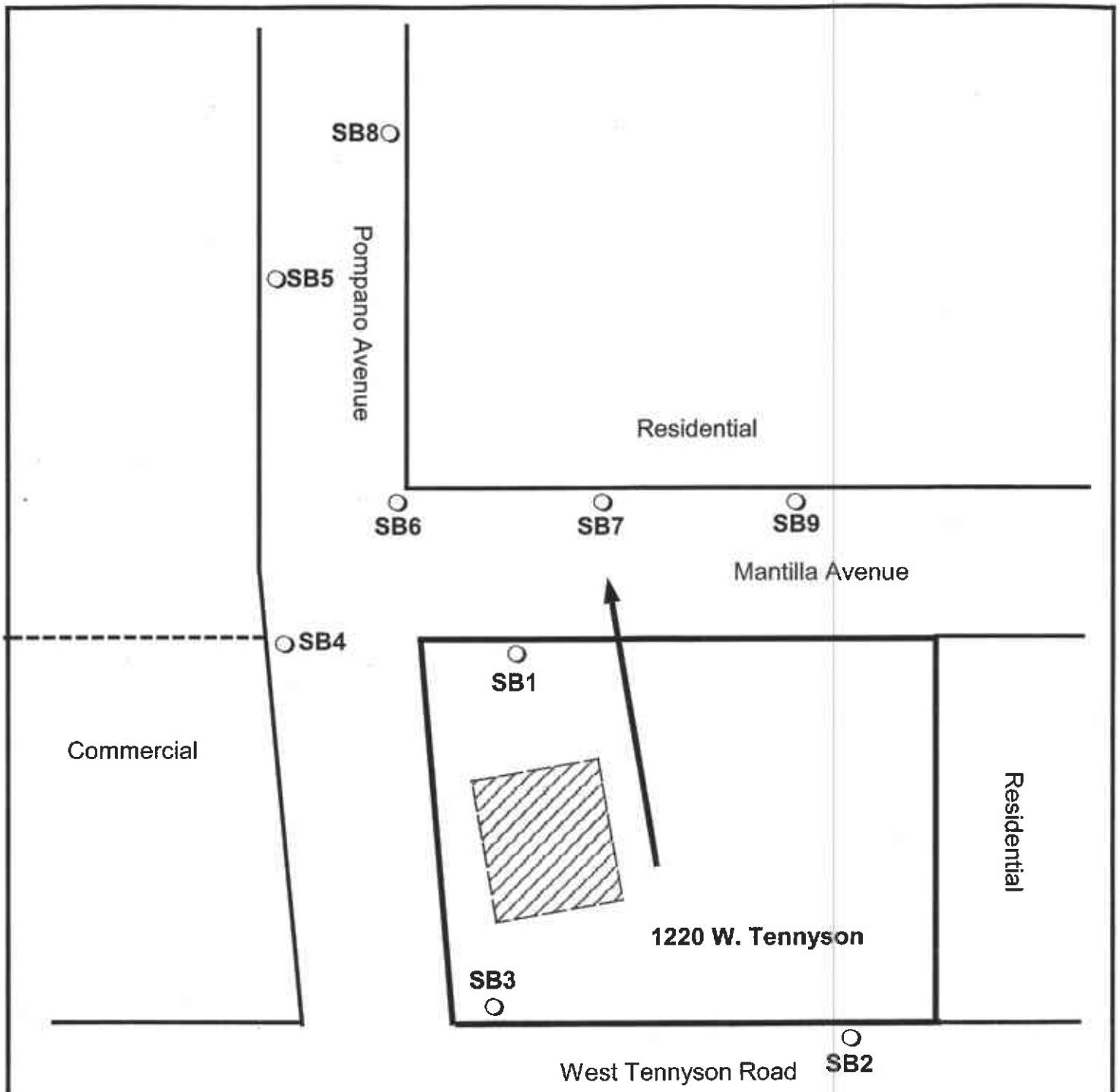
The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

FIGURES

Source: Thomas Guide Digital Edition 2002

Title: ***Location Map 1220 West Tennyson Road Road, California***	
Figure Number: 1	Scale: None
Project No: 6551-004.00	Drawn By: EJG
A • C • C ENVIRONMENTAL CONSULTANTS	Date: 4/18/03
7977 Capwell Drive, Suite 10 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-840	N W E S



LEGEND

- Soil Boring Locations
- Groundwater Gradient Direction (approximated from 2001-2004 data)
- Former Tank Location (approximated)

Title: Site Map
1220 West Tennyson Road
Hayward, California

Figure Number: 2	Scale: 1" = 40'
Project Number: 6551-004.0C	Drawn By: EJG
	Date: 4/23/04

A·C·C ENVIRONMENTAL CONSULTANTS
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404

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APPENDICES

ALAMEDA COUNTY PUBLIC WORKS AGENCY

PUBLIC WORKS

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939
APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1290 W. Tennyson Rd. Corner of W. Tennyson and Tampanis Avenue

CLIENT
Name Kelly Engineer
Address 1790 Pine Street Phone (510) 8__-8680
City Concord Zip 94520

APPLICANT
Name Ed Giacometti / AC Environmental Consultants
Fax (510) 638-0404
Address 7?? Capwell Drive, Suite Phone (510) 638-8???
City Oakland Zip 94621

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

PROPOSED WATER SUPPLY WELL USE
New Domestic ☐ Replacement Domestic ☐
Municipal ☐ Irrigation ☐
Industrial ☐ Other ______ ☐

DRILLING METHOD:
Mud Rotary ☐ Air Rotary ☐ Auger ☐
Cable ☐ Other ☒

DRILLER'S NAME Ed Prob / Don Siliga

DRILLER'S LICENSE NO. 777007

WELL PROJECTS
Drill Hole Diameter ______ in.
Casing Diameter ______ in.
Surface Seal Depth ______ ft.
Maximum Depth ______ ft.
Owner's Well Number ______

GEOTECHNICAL PROJECTS
Number of Borings 10
Hole Diameter 2" in.
Maximum Depth 15 ft.

STARTING DATE 9/17/03

COMPLETION DATE 9/17/03

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

APPLICANT'S SIGNATURE [signature] DATE 9/9/03

PLEASE PRINT NAME Ed Giacometti AC Environmental Rev.9-18-02

FOR OFFICE USE

PERMIT NUMBER W03-0851
WELL NUMBER ______
APN ______

PERMIT CONDITIONS
Circled Permit Requirements Apply

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

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

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

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

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

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

(G.) SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

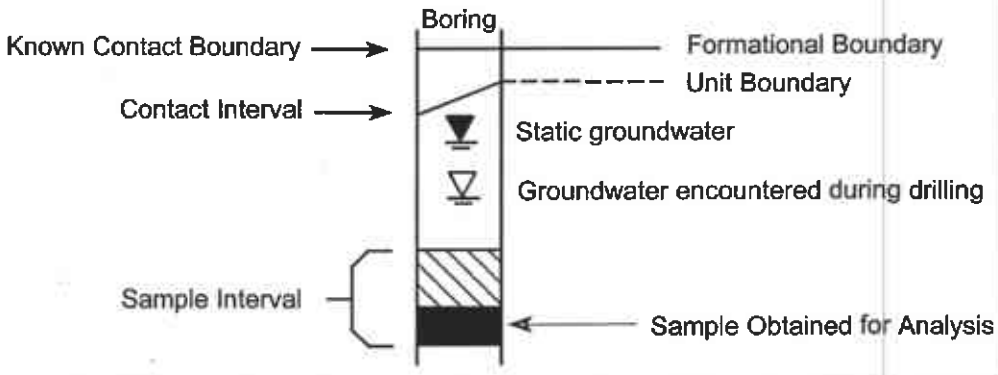
→ "Area of Concern" Contact ACWD @ 510-668-4460 for a Inspection time

APPROVED [signature] DATE 9-12-03

UNIFIED SOIL CLASSIFICATION SYSTEM

	MAJOR DIVISIONS				TYPICAL NAMES
COARSE GRAINED SOILS	GRAVELS more than half coarse fraction is larger than Number 4 sieve	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		well graded gravels, gravel-sand mixtures
			GP		poorly graded gravels, gravel-sand mixtures
		GRAVELS WITH OVER 12% FINES	GM		silty gravels, poorly graded gravel-sand silt mixtures
			GC		clayey gravels, poorly graded gravel-sand clay mixtures
	SANDS more than half coarse fraction is smaller than Number 4 sieve	CLEAN SANDS WITH LITTLE OR NO FINES	SW		well graded sands, gravelly sands
			SP		poorly graded sands, gravelly sands
		SANDS WITH OVER 12% FINES	SM		silty sands, poorly graded sand-silt mixtures
			SC		clayey sands, poorly graded sand-clay mixtures
FINE GRAINED SOILS	SILTS AND CLAYS liquid limit less than 50		ML		inorg. silts and very fine sands, rock flour silty or clayey sands, or clayey silts w/ sl. plasticity
			CL		inorg. clays of low-med plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL		organic clays and organic silty clays of low plasticity
	SILTS AND CLAYS liquid limit greater than 50		MH		inorganic silty, micaceous or diatomacious fine sandy or silty soils, elastic silts
			CH		inorganic clays of high plasticity, fat clays
			OH		organic clays of medium to high plasticity organic silts
	HIGHLY ORGANIC SOILS		PT		peat and other highly organic soils

Legend for Boring Logs



ACC Environmental Consultants, Inc.
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax: (510) 638-8404

Site: **SUBJECT SITE**
1220 W. Tennyson Street
Hayward, California

Project Number: **6651-004.01**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: David DeMent, RG5874
LOCATION: 1220 W. Tennyson St., Hayward, CA
WORK DATE: 10/06/03
BORING: SB1

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	depth below ground surface (ft)	
			0	Concrete pavement
				Gravel baserock
2.5Y-4/4			2	Clay (CL), olive brown, moderately to highly plastic, medium stiff, uniform, damp, no odor or discoloration noted
5Y-4/4	4		4	Silty Sand (SM), olive, medium to fine grained, moderately sorted, damp, no odor noted
2.5Y-4/4			6	Silty Clay (CL), olive brown, slightly to mod. plastic, medium stiff, trace v fine grained sand, uniform, damp, no odor or discoloration noted
	180	SB1-8.0	8	
5Y-4/4			10	Silty Clay with sand (CL), olive, 5-10% very fine grained disseminated sand, soft-medium stiff, moist, sand content increasing with depth, soil discoloration and slight gasoline odor noted
	>200	SB1-12.0	12	
				TOTAL DEPTH OF BORING: 12.0 feet bgs (water estimated at 12.5'bgs)
			14	
			16	
			18	
			20	
			22	
			24	
			26	
			28	

ACC Environmental Consultants, Inc.
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510)638-8400 FAX: (510)638-8404

Project Number **6651-004.01**

Date: 10/06/03

Title: LOG OF BORING SB1

1220 W. Tennyson Street
Hayward, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: David DeMent, RG5874
LOCATION: 1220 W. Tennyson St., Hayward, CA
WORK DATE: 10/06/03
BORING: SB2

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Concrete pavement
					Gravel baserock
2.5Y-4/4				2	Silty Clay (CL), yellow brown, slightly plastic, medium stiff, uniform, damp, no odor or discoloration noted
5Y-4/4	1			4	
2.5Y-4/4				6	Silty Sand (SM), olive, medium to fine grained, moderately sorted, damp, no odor noted
	1			8	Silty Clay (CL), dark brown, slightly to mod. plastic, medium stiff, trace v fine grained sand, uniform, damp, no odor or discoloration noted
5Y-4/4				10	Silty Clay (CL), as above, olive with some red mottling 10 to 12 feet bgs
	2.1			12	
				14	Silty Clay (CL), yellow brown, 1-5% very fine grained disseminated sand, soft-medium stiff, moist, sand content increasing with depth, no odor or soil discoloration noted
	3.4			16	
				18	Silty Sand (SM), olive brown, 15-20% fines, fine to medium grained, loose-medium dense, saturated at 18.5 ft bgs, no odor or discoloration
				20	**TOTAL DEPTH OF BORING: 20.0 feet bgs (water estimated at 18.5'bgs)**
				22	
				24	
				26	
				28	

ACC Environmental Consultants, Inc.
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510)638-8400 FAX: (510)638-8404

Project Number **6651-004.01**

Date: 10/06/03

Title: LOG OF BORING SB2

1220 W. Tennyson Street
Hayward, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: David DeMent, RG5874
LOCATION: 1220 W. Tennyson St., Hayward, CA
WORK DATE: 10/06/03
BORING: SB6

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Concrete pavement
					Gravel baserock
7.5YR-4/2				2	Silt (ML), brown, non-plastic, medium stiff, uniform, trace very fine grained disseminated sand, damp, no odor or discoloration noted
	1			4	
					Silty Sand (SM), olive, medium to fine grained, moderately sorted, damp, no odor noted
5Y-4/4				6	Silty Clay (CL), dark olive brown, moderately plastic, medium stiff, trace v fine grained sand, uniform, damp, no odor or discoloration noted
	13			8	
				10	Silty Clay (CL), as above, odor and soil discoloration noted from 10-14 ft bg
2.5Y-4/4	160	SB6-12		12	Silty Clay (CL), olive brown, 1-5% very fine grained disseminated sand, soft-medium stiff, moist, sand content increasing with depth
				14	
				16	**TOTAL DEPTH OF BORING: 15.0 feet bgs (water estimated at 12.5'bgs)**
				18	
				20	
				22	
				24	
				26	
				28	

ACC Environmental Consultants, Inc.
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510)638-8400 FAX: (510)638-8404

Project Number **6651-004.01**

Date: 10/06/03

Title: LOG OF BORING SB6

1220 W. Tennyson Street
Hayward, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: David DeMent, RG5874
LOCATION: 1220 W. Tennyson St., Hayward, CA
WORK DATE: 10/06/03
BORING: SB6

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Concrete pavement
					Gravel baserock
7.5YR-4/2	1			2	Silt (ML), brown, non-plastic, medium stiff, uniform, trace very fine grained disseminated sand, damp, no odor or discoloration noted
				4	Silty Sand (SM), olive, medium to fine grained, moderately sorted, damp, no odor noted
5Y-4/4	13			6	Silty Clay (CL), dark olive brown, moderately plastic, medium stiff, trace v fine grained sand, uniform, damp, no odor or discoloration noted
				8	
				10	Silty Clay (CL), as above, odor and soil discoloration noted from 10-14 ft bg
2.5Y-4/4	160	SB6-12		12	Silty Clay (CL), olive brown, 1-5% very fine grained disseminated sand, soft-medium stiff, moist, sand content increasing with depth
				14	
				16	**TOTAL DEPTH OF BORING: 15.0 feet bgs (water estimated at 12.5'bgs)**
				18	
				20	
				22	
				24	Dup
				26	
				28	

ACC Environmental Consultants, Inc.
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510)638-8400 FAX: (510)638-8404

Project Number **6651-004.01**

Date: 10/06/03

Title: LOG OF BORING SB6

1220 W. Tennyson Street
Hayward, California

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2003- 10 - 0280

Checklist completed by: (initials) DSH Date: 10/08/03

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^{o} C ± 2)?	Temp: 3.6 °C Yes ✓ No____	
	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: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ 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: ____/____/03

Client contacted: ☐ Yes ☐ No

Summary of discussion: _____

Corrective Action (per PM/Client): _____

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@stl-inc.com

2003-10-0280

Reference #: 78171

Date 10/7/03 Page 2 of 2

Report To

Attn: DAVID DEMENT

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, SUITE 100

Email: ddement@accenv.com

Bill To: TREVOR | Sampled By: Dave DeMent

Attn: TREVOR | Phone: (510) 638-8400 / 8404 FAX

Analysis Request

Sample ID	Date	Time	Matrix	Pres.	TPH EPA ☐ 8015/8021 ☒ 8260B ☒ Gas w/ ☒ BTEX ☒ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4			STORM DRAIN	SLIGHT ODOR	Number of Containers
SB1-8.0	10/6/03	8:45	S	Cold	X																			X		1
SB1-12.0		8:50			X																			X		1
SB6-12.0		14:00			X																				X	1
SB7-12.0		14:45			X																				X	1
SB7-15.0		14:55			X																					1

Project Info.

Project Name: 1220 Tennyson

Project#: 6651-004.01

PO#:

Credit Card#:

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID ___

Special Instructions / Comments:

Sample Receipt

of Containers:

Head Space:

Temp:

Conforms to record:

Other:

1) Relinquished by: [signature] 10:55
Signature Time
DAVID DEMENT 10/7/03
Printed Name Date
ACC ENVIRONMENTAL
Company

2) Relinquished by: [signature] 1650
Signature Time
[signature] 10.07.03
Printed Name Date
STL S.F
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by: [signature] 11:00
Signature Time
[signature] 10.06.03
Printed Name Date
STL S.F
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by: [signature] 1650
Signature Time
D. Harrington 10/7/03
Printed Name Date
STL SF
Company

Rev 01/02

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@stl-inc.com

2003-10-0280

Reference #: 78171

Date 10/7/03 Page 1 of 2

Report To

Attn: DAVID DEMENT

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, SUITE 100

Email: ddement@accenv.com

Bill To: TREVOR | Sampled By: Dave DeMent

Attn: TREVOR | Phone: (510) 638-8400 / 8404 FAX

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☒ 8260B ☒ Gas w/ ☒ BTEX ☒ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4			Strong odor	Slight odor	Number of Containers
SB1-W	10/6/03	9:00	W	HCl/Ice	X																			X		3
SB2-W		10:20			X																					3
SB3-W		11:20			X																					3
SB4-W		12:00			X																					3
SB5-W		12:30			X																					3
SB6-W		14:20			X																				X	3
SB7-W		15:00			X																				X	3
SB8-W		15:45			X																					3
SB9-W	↓	16:30	↓	↓	X																					3

Project Info.

Project Name: 1220 Tennyson

Project#: 6651-004.01

PO#:

Credit Card#:

TAT: (Std 5 Day) 72h 48h 24h

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF

Special Instructions / Comments:

☐ Global ID _____

Sample Receipt

of Containers:

Head Space:

Temp: 3.6°C

Conforms to record:

Other:

1) Relinquished by: Signature Time 10:55

DAVID DEMENT Printed Name 10/7/03 Date

ACC ENVIRONMENTAL Company

2) Relinquished by: Signature Time 1650

Printed Name 10.07.03 Date

Company STL-SF

3) Relinquished by: Signature Time

Printed Name Date

Company

1) Received by: Signature Time 1100

Printed Name 10-06-03 Date

Company STL S.F

2) Received by: Signature Time

Printed Name Date

Company

3) Received by: D. Harrington Signature Time

D. Harrington 1650 Printed Name Date

STL-SF 10/7/03 Company

Rev 01/02

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Legend and Notes

QC Sample Comment

Lab ID: MB 2003/10/09/03.65-56

sur-Surrogate recovery for Toluene-d8 was above acceptance criteria. Samples were not re-extracted due to expiration of hold time.

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

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7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2003/10/09-03.65**

LCS 2003/10/09-03.65-011 Extracted: 10/09/2003 Analyzed: 10/12/2003 15:11

LCSD 2003/10/09-03.65-034 Extracted: 10/09/2003 Analyzed: 10/12/2003 15:34

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	10200	9050	10000	102.0	90.5	11.9	69-129	20		
Toluene	9680	8900	10000	96.8	89.0	8.4	70-130	20		
Methyl tert-butyl ether (MTBE)	8770	7330	10000	87.7	73.3	17.9	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	228	214	250	91.2	85.6		70-121			
Toluene-d8	248	234	250	99.2	93.6		81-117			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2003/10/09-03.65

MB: 2003/10/09-03.65-056

Date Extracted: 10/09/2003 14:59

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50000	ug/Kg	10/12/2003 15:56	
Benzene	ND	500	ug/Kg	10/12/2003 15:56	
Toluene	ND	500	ug/Kg	10/12/2003 15:56	
Ethyl benzene	ND	500	ug/Kg	10/12/2003 15:56	
Total xylenes	ND	500	ug/Kg	10/12/2003 15:56	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	10/12/2003 15:56	
Surrogates(s)					
1,2-Dichloroethane-d4	99.8	70-121	%	10/12/2003 15:56	
Toluene-d8	121.7	81-117	%	10/12/2003 15:56	,sur

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB7-12.0**	Lab ID:	2003-10-0280 - 13
Sampled:	10/06/2003 14:45	Extracted:	10/9/2003 14:59
Matrix:	Soil	QC Batch#:	2003/10/09-03.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	380000	50000	ug/Kg	1.00	10/14/2003 14:21	g
Benzene	ND	500	ug/Kg	1.00	10/14/2003 14:21	
Toluene	ND	500	ug/Kg	1.00	10/14/2003 14:21	
Ethyl benzene	2300	500	ug/Kg	1.00	10/14/2003 14:21	
Total xylenes	2500	500	ug/Kg	1.00	10/14/2003 14:21	
Methyl tert-butyl ether (MTBE)	540	500	ug/Kg	1.00	10/14/2003 14:21	
Surrogate(s)						
1,2-Dichloroethane-d4	95.4	70-121	%	1.00	10/14/2003 14:21	
Toluene-d8	111.3	81-117	%	1.00	10/14/2003 14:21	

SEVERN TRENT STL

Submission #: 2003-10-0280

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB1-12.0**	Lab ID:	2003-10-0280 - 11
Sampled:	10/06/2003 08:50	Extracted:	10/9/2003 14:59
Matrix:	Soil	QC Batch#:	2003/10/09-03.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	81000	50000	ug/Kg	1.00	10/14/2003 05:16	g
Benzene	ND	500	ug/Kg	1.00	10/14/2003 05:16	
Toluene	ND	500	ug/Kg	1.00	10/14/2003 05:16	
Ethyl benzene	1200	500	ug/Kg	1.00	10/14/2003 05:16	
Total xylenes	890	500	ug/Kg	1.00	10/14/2003 05:16	
Methyl tert-butyl ether (MTBE)	1200	500	ug/Kg	1.00	10/14/2003 05:16	
Surrogate(s)						
1,2-Dichloroethane-d4	101.8	70-121	%	1.00	10/14/2003 05:16	
Toluene-d8	108.1	81-117	%	1.00	10/14/2003 05:16	

SEVERN TRENT STL

Submission #: 2003-10-0280

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB1-12.0	10/06/2003 08:50	Soil	11
SB7-12.0	10/06/2003 14:45	Soil	13

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Legend and Notes

Analysis Flag

o

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

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike | **Soil** | **QC Batch # 2003/10/09-01.66**

LCS 2003/10/09-01.66-043 Extracted: 10/09/2003 Analyzed: 10/09/2003 09:43

LCSD 2003/10/09-01.66-007 Extracted: 10/09/2003 Analyzed: 10/09/2003 10:07

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	40.5	41.4	50.0	81.0	82.8	2.2	69-129	20		
Toluene	43.7	44.9	50.0	87.4	89.8	2.7	70-130	20		
Methyl tert-butyl ether (MTBE)	41.9	41.1	50.0	83.8	82.2	1.9	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	473	501	500	94.6	100.2		70-121			
Toluene-d8	530	531	500	106.0	106.2		81-117			

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2003/10/09-01.66**

MB: 2003/10/09-01.66-031 — Date Extracted: 10/09/2003 10:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	10/09/2003 10:31	
Benzene	ND	0.0050	mg/Kg	10/09/2003 10:31	
Toluene	ND	0.0050	mg/Kg	10/09/2003 10:31	
Ethyl benzene	ND	0.0050	mg/Kg	10/09/2003 10:31	
Total xylenes	ND	0.0050	mg/Kg	10/09/2003 10:31	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/09/2003 10:31	
Surrogates(s)					
1,2-Dichloroethane-d4	94.2	70-121	%	10/09/2003 10:31	
Toluene-d8	101.0	81-117	%	10/09/2003 10:31	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB7-15.0**	Lab ID:	2003-10-0280 - 14
Sampled:	10/06/2003 14:15	Extracted:	10/9/2003 17:49
Matrix:	Soil	QC Batch#:	2003/10/09-01.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	10/09/2003 17:49	
Methyl tert-butyl ether (MTBE)	300	5.0	ug/Kg	1.00	10/09/2003 17:49	
Benzene	ND	5.0	ug/Kg	1.00	10/09/2003 17:49	
Toluene	ND	5.0	ug/Kg	1.00	10/09/2003 17:49	
Ethyl benzene	ND	5.0	ug/Kg	1.00	10/09/2003 17:49	
Total xylenes	ND	5.0	ug/Kg	1.00	10/09/2003 17:49	
Surrogate(s)						
1,2-Dichloroethane-d4	109.0	70-121	%	1.00	10/09/2003 17:49	
Toluene-d8	100.7	81-117	%	1.00	10/09/2003 17:49	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Prep(s): 5030B
Test(s): 8260B
Sample ID: **SB6-12.0**
Lab ID: 2003-10-0280 - 12
Sampled: 10/06/2003 14:00
Extracted: 10/9/2003 14:26
Matrix: Soil
QC Batch#: 2003/10/09-01.66
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	4600	ug/Kg	4.63	10/09/2003 14:26	
Methyl tert-butyl ether (MTBE)	53	23	ug/Kg	4.63	10/09/2003 14:26	
Benzene	ND	23	ug/Kg	4.63	10/09/2003 14:26	
Toluene	ND	23	ug/Kg	4.63	10/09/2003 14:26	
Ethyl benzene	ND	23	ug/Kg	4.63	10/09/2003 14:26	
Total xylenes	ND	23	ug/Kg	4.63	10/09/2003 14:26	
Surrogate(s)						
1,2-Dichloroethane-d4	110.9	70-121	%	4.63	10/09/2003 14:26	
Toluene-d8	104.1	81-117	%	4.63	10/09/2003 14:26	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB1-8.0**	Lab ID:	2003-10-0280 - 10
Sampled:	10/06/2003 08:45	Extracted:	10/9/2003 14:02
Matrix:	Soil	QC Batch#:	2003/10/09-01.66

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5500	5000	ug/Kg	4.95	10/09/2003 14:02	
Methyl tert-butyl ether (MTBE)	270	25	ug/Kg	4.95	10/09/2003 14:02	
Benzene	ND	25	ug/Kg	4.95	10/09/2003 14:02	
Toluene	ND	25	ug/Kg	4.95	10/09/2003 14:02	
Ethyl benzene	ND	25	ug/Kg	4.95	10/09/2003 14:02	
Total xylenes	ND	25	ug/Kg	4.95	10/09/2003 14:02	
Surrogate(s)						
1,2-Dichloroethane-d4	95.1	70-121	%	4.95	10/09/2003 14:02	
Toluene-d8	102.4	81-117	%	4.95	10/09/2003 14:02	

SEVERN TRENT STL

Submission #: 2003-10-0280

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

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Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB1-8.0	10/06/2003 08:45	Soil	10
SB6-12.0	10/06/2003 14:00	Soil	12
SB7-15.0	10/06/2003 14:15	Soil	14

Fuel Oxygenates by 8260B

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Legend and Notes

Analysis Flag

o

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

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2003/10/14-01.65**

LCS 2003/10/14-01.65-005 Extracted: 10/14/2003 Analyzed: 10/14/2003 10:05

LCSD 2003/10/14-01.65-028 Extracted: 10/14/2003 Analyzed: 10/14/2003 10:28

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.4	22.0	25.0	89.6	88.0	1.8	65-165	20		
Benzene	25.6	26.3	25.0	102.4	105.2	2.7	69-129	20		
Toluene	26.7	26.0	25.0	106.8	104.0	2.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	433	443	500	86.6	88.6		76-114			
Toluene-d8	518	495	500	103.6	99.0		88-110			

Fuel Oxygenates by 8260B

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Project: 6651-004.01
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Received: 10/07/2003 16:50

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2003/10/13-2A.64**

LCS 2003/10/13-2A.64-032 Extracted: 10/13/2003 Analyzed: 10/13/2003 20:32

LCSD 2003/10/13-2A.64-054 Extracted: 10/13/2003 Analyzed: 10/13/2003 20:54

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	23.8	24.3	25	95.2	97.2	2.1	69-129	20		
Toluene	25.2	25.6	25	100.8	102.4	1.6	70-130	20		
Methyl tert-butyl ether (MTBE)	22.8	23.1	25	91.2	92.4	1.3	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	429	414	500	85.8	82.8		76-114			
Toluene-d8	487	502	500	97.4	100.4		88-110			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2003/10/14-01.65**

MB: 2003/10/14-01.65-051 — Date Extracted: 10/14/2003 10:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/14/2003 10:51	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/14/2003 10:51	
Benzene	ND	0.5	ug/L	10/14/2003 10:51	
Toluene	ND	0.5	ug/L	10/14/2003 10:51	
Ethylbenzene	ND	0.5	ug/L	10/14/2003 10:51	
Total xylenes	ND	1.0	ug/L	10/14/2003 10:51	
Surrogates(s)					
1,2-Dichloroethane-d4	88.9	76-114	%	10/14/2003 10:51	
Toluene-d8	96.1	88-110	%	10/14/2003 10:51	

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2003/10/13-2A.64**

MB: 2003/10/13-2A.64-016 — Date Extracted: 10/13/2003 21:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/13/2003 21:16	
Benzene	ND	0.5	ug/L	10/13/2003 21:16	
Toluene	ND	0.5	ug/L	10/13/2003 21:16	
Ethylbenzene	ND	0.5	ug/L	10/13/2003 21:16	
Total xylenes	ND	1.0	ug/L	10/13/2003 21:16	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/13/2003 21:16	
Surrogates(s)					
1,2-Dichloroethane-d4	86.4	76-114	%	10/13/2003 21:16	
Toluene-d8	98.8	88-110	%	10/13/2003 21:16	

Fuel Oxygenates by 8260B

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Received: 10/07/2003 16:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB9-W**	Lab ID:	2003-10-0280 - 9
Sampled:	10/06/2003 16:30	Extracted:	10/14/2003 03:07
Matrix:	Water	QC Batch#:	2003/10/13-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	500	ug/L	10.00	10/14/2003 03:07	
Methyl tert-butyl ether (MTBE)	1200	5.0	ug/L	10.00	10/14/2003 03:07	
Benzene	ND	5.0	ug/L	10.00	10/14/2003 03:07	
Toluene	ND	5.0	ug/L	10.00	10/14/2003 03:07	
Ethylbenzene	ND	5.0	ug/L	10.00	10/14/2003 03:07	
Total xylenes	ND	10	ug/L	10.00	10/14/2003 03:07	
Surrogate(s)						
1,2-Dichloroethane-d4	86.8	76-114	%	10.00	10/14/2003 03:07	
Toluene-d8	103.9	88-110	%	10.00	10/14/2003 03:07	

Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB8-W**	Lab ID:	2003-10-0280 - 8
Sampled:	10/06/2003 15:45	Extracted:	10/14/2003 11:19
Matrix:	Water	QC Batch#:	2003/10/14-01.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	500	ug/L	10.00	10/14/2003 11:19	
Methyl tert-butyl ether (MTBE)	360	5.0	ug/L	10.00	10/14/2003 11:19	
Benzene	ND	5.0	ug/L	10.00	10/14/2003 11:19	
Toluene	ND	5.0	ug/L	10.00	10/14/2003 11:19	
Ethylbenzene	ND	5.0	ug/L	10.00	10/14/2003 11:19	
Total xylenes	ND	10	ug/L	10.00	10/14/2003 11:19	
Surrogate(s)						
1,2-Dichloroethane-d4	89.6	76-114	%	10.00	10/14/2003 11:19	
Toluene-d8	97.1	88-110	%	10.00	10/14/2003 11:19	

Fuel Oxygenates by 8260B

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Prep(s): 5030B
Test(s): 8260B
Sample ID: **SB7-W**
Lab ID: 2003-10-0280 - 7
Sampled: 10/06/2003 15:00
Extracted: 10/14/2003 02:23
Matrix: Water
QC Batch#: 2003/10/13-2A.64
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	64000	5000	ug/L	100.00	10/14/2003 02:23	
Methyl tert-butyl ether (MTBE)	4100	50	ug/L	100.00	10/14/2003 02:23	
Benzene	ND	50	ug/L	100.00	10/14/2003 02:23	
Toluene	ND	50	ug/L	100.00	10/14/2003 02:23	
Ethylbenzene	1500	50	ug/L	100.00	10/14/2003 02:23	
Total xylenes	1500	100	ug/L	100.00	10/14/2003 02:23	
Surrogate(s)						
1,2-Dichloroethane-d4	82.4	76-114	%	100.00	10/14/2003 02:23	
Toluene-d8	97.6	88-110	%	100.00	10/14/2003 02:23	

Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB6-W**	Lab ID:	2003-10-0280 - 6
Sampled:	10/06/2003 14:20	Extracted:	10/14/2003 02:01
Matrix:	Water	QC Batch#:	2003/10/13-2A.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	22000	500	ug/L	10.00	10/14/2003 02:01	
Methyl tert-butyl ether (MTBE)	670	5.0	ug/L	10.00	10/14/2003 02:01	
Benzene	ND	5.0	ug/L	10.00	10/14/2003 02:01	
Toluene	ND	5.0	ug/L	10.00	10/14/2003 02:01	
Ethylbenzene	270	5.0	ug/L	10.00	10/14/2003 02:01	
Total xylenes	140	10	ug/L	10.00	10/14/2003 02:01	
Surrogate(s)						
1,2-Dichloroethane-d4	89.9	76-114	%	10.00	10/14/2003 02:01	
Toluene-d8	99.6	88-110	%	10.00	10/14/2003 02:01	

Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB5-W**	Lab ID:	2003-10-0280 - 5
Sampled:	10/06/2003 12:30	Extracted:	10/14/2003 01:39
Matrix:	Water	QC Batch#:	2003/10/13-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/14/2003 01:39	
Methyl tert-butyl ether (MTBE)	1.0	0.50	ug/L	1.00	10/14/2003 01:39	
Benzene	ND	0.50	ug/L	1.00	10/14/2003 01:39	
Toluene	ND	0.50	ug/L	1.00	10/14/2003 01:39	
Ethylbenzene	ND	0.50	ug/L	1.00	10/14/2003 01:39	
Total xylenes	ND	1.0	ug/L	1.00	10/14/2003 01:39	
Surrogate(s)						
1,2-Dichloroethane-d4	84.8	76-114	%	1.00	10/14/2003 01:39	
Toluene-d8	102.2	88-110	%	1.00	10/14/2003 01:39	

Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB4-W**	Lab ID:	2003-10-0280 - 4
Sampled:	10/06/2003 12:00	Extracted:	10/14/2003 01:17
Matrix:	Water	QC Batch#:	2003/10/13-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/14/2003 01:17	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/14/2003 01:17	
Benzene	ND	0.50	ug/L	1.00	10/14/2003 01:17	
Toluene	ND	0.50	ug/L	1.00	10/14/2003 01:17	
Ethylbenzene	ND	0.50	ug/L	1.00	10/14/2003 01:17	
Total xylenes	ND	1.0	ug/L	1.00	10/14/2003 01:17	
Surrogate(s)						
1,2-Dichloroethane-d4	82.7	76-114	%	1.00	10/14/2003 01:17	
Toluene-d8	103.6	88-110	%	1.00	10/14/2003 01:17	

Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB3-W**	Lab ID:	2003-10-0280 - 3
Sampled:	10/06/2003 11:20	Extracted:	10/14/2003 00:55
Matrix:	Water	QC Batch#:	2003/10/13-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/14/2003 00:55	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/14/2003 00:55	
Benzene	ND	0.50	ug/L	1.00	10/14/2003 00:55	
Toluene	ND	0.50	ug/L	1.00	10/14/2003 00:55	
Ethylbenzene	ND	0.50	ug/L	1.00	10/14/2003 00:55	
Total xylenes	ND	1.0	ug/L	1.00	10/14/2003 00:55	
Surrogate(s)						
1,2-Dichloroethane-d4	83.4	76-114	%	1.00	10/14/2003 00:55	
Toluene-d8	98.2	88-110	%	1.00	10/14/2003 00:55	

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Received: 10/07/2003 16:50

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB2-W**	Lab ID:	2003-10-0280 - 2
Sampled:	10/06/2003 10:20	Extracted:	10/14/2003 00:33
Matrix:	Water	QC Batch#:	2003/10/13-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/14/2003 00:33	
Methyl tert-butyl ether (MTBE)	66	0.50	ug/L	1.00	10/14/2003 00:33	
Benzene	ND	0.50	ug/L	1.00	10/14/2003 00:33	
Toluene	ND	0.50	ug/L	1.00	10/14/2003 00:33	
Ethylbenzene	ND	0.50	ug/L	1.00	10/14/2003 00:33	
Total xylenes	ND	1.0	ug/L	1.00	10/14/2003 00:33	
Surrogate(s)						
1,2-Dichloroethane-d4	87.9	76-114	%	1.00	10/14/2003 00:33	
Toluene-d8	98.3	88-110	%	1.00	10/14/2003 00:33	

Fuel Oxygenates by 8260B

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1220 Tennyson

Received: 10/07/2003 16:50

Prep(s): 5030B
Test(s): 8260B
Sample ID: **SB1-W**
Lab ID: 2003-10-0280 - 1
Sampled: 10/06/2003 09:00
Extracted: 10/14/2003 00:11
Matrix: Water
QC Batch#: 2003/10/13-2A.64
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	86000	10000	ug/L	200.00	10/14/2003 00:11	
Methyl tert-butyl ether (MTBE)	12000	100	ug/L	200.00	10/14/2003 00:11	
Benzene	1300	100	ug/L	200.00	10/14/2003 00:11	
Toluene	ND	100	ug/L	200.00	10/14/2003 00:11	
Ethylbenzene	4600	100	ug/L	200.00	10/14/2003 00:11	
Total xylenes	4200	200	ug/L	200.00	10/14/2003 00:11	
Surrogate(s)						
1,2-Dichloroethane-d4	86.8	76-114	%	200.00	10/14/2003 00:11	
Toluene-d8	99.3	88-110	%	200.00	10/14/2003 00:11	

SEVERN TRENT STL

Submission #: 2003-10-0280

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.01
1220 Tennyson

Received: 10/07/2003 16:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB1-W	10/06/2003 09:00	Water	1
SB2-W	10/06/2003 10:20	Water	2
SB3-W	10/06/2003 11:20	Water	3
SB4-W	10/06/2003 12:00	Water	4
SB5-W	10/06/2003 12:30	Water	5
SB6-W	10/06/2003 14:20	Water	6
SB7-W	10/06/2003 15:00	Water	7
SB8-W	10/06/2003 15:45	Water	8
SB9-W	10/06/2003 16:30	Water	9

SEVERN TRENT STL

Submission#: 2003-10-0280

ACC Environmental Consultants

October 17, 2003

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Dave DeMent

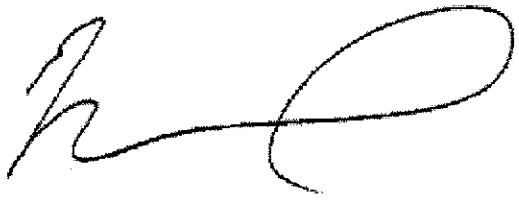
Project#: 6651-004.01
Project: 1220 Tennyson

Dear Mr. DeMent,

Attached is our report for your samples received on 10/07/2003 16:50
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 11/21/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

Table 4 - Grab Groundwater Sample Analytical Results

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
SB1-W	86,000	1,300	<100	4,600	4,200	12,000
SB2-W	<50	<0.50	<0.50	<0.50	<1.0	66
SB3-W	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB4-W	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB5-W	<50	<0.50	<0.50	<0.50	<1.0	1.0
SB6-W	22,000	<5.0	<5.0	270	140	670
SB7-W	64,000	<50	<50	1,500	1,500	4,100
SB8-W	<500	<5.0	<5.0	<5.0	<10	360
SB9-W	<500	<5.0	<5.0	<5.0	<10	1,200

Notes: Water sample results are in micrograms per Liter (ug/L), approximately equal to parts per billion (ppb)

< = analytical results under laboratory reporting limit

NA = Sample not analyzed for this constituent

Table 3 - Soil Sample Analytical Results

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
SB1-8.0	5.5	<0.025	<0.025	<0.025	<0.025	0.27
SB1-12.0	81	<0.5	<0.5	1.2	0.89	1.2
SB6-12.0	<4.6	<0.023	<0.023	<0.023	<0.023	0.053
SB7-12.0	380	<0.5	<0.5	2.3	2.5	0.54
SB7-15.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.3

Notes: Soil sample results are in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm)
< = analytical results under laboratory reporting limit
NA = Sample not analyzed for this constituent

SB-7