A·C·C
ENVIRONMENTAL
CONSULTANTS

September 2, 2003

Mr. Robert Ribbing
Fleischmann's Yeast
240 Larkin Williams Industrial Court
Fenton, Missouri 63026

RE: Additional Subsurface Investigation Report
921 98th Avenue, Oakland, California
ACC Project Number: 6725-001.02

Dear Mr. Ribbing:

Enclosed please find two copies the Subsurface Investigation Report for the Fleischmann's Yeast Facility located at 921 98th Avenue, Oakland, California. The purpose of this additional investigation was to: 1) further characterize suspect gasoline constituent impacts in soil and groundwater and confirm hydrogeological conditions as they pertain to migration potential from soil to first-encountered groundwater; 2) define the current degree and approximate extent of gasoline-impacted soil that warrants remedial excavation, if any, for purposes of source removal based on risk-based criteria; 3) further define the current degree and approximate extent of gasoline-impacted groundwater; and 4) obtain additional data in order to obtain regulatory closure from the Alameda County Health Care Services Agency (ACHCSA) and the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) as a "low risk" groundwater case.

Consistent with the initial soil boring investigation, soil impacts appear to be localized in fine-grained soils immediately adjacent to the two former USTs and the plume of impacted groundwater is localized in the estimated downgradient direction. A relatively small volume of soil adjacent to former gasoline tank #1 merits excavation as a means of source removal.

On your behalf, ACC will forward a copy of this report to Mr. Amir Golami of the Alameda County Health Care Services Agency for review. If you have any questions regarding the report, please contact me at (510) 638-8400, extension 109.

Sincerely,

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

/ejg:drd

Enclosures

A·C·C ENVIRONMENTAL CONSULTANTS

ADDITIONAL SUBSURFACE INVESTIGATION REPORT

September 2, 2003

921 98th Avenue
Oakland, California

Prepared For:
Mr. Robert Ribbing
Fleischmann's Yeast
240 Larkin Williams Industrial Court
Fenton, Missouri 63026

ACC Project Number: 6725-001.02

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ENVIRONMENTAL
CONSULTANTS

ADDITIONAL SUBSURFACE INVESTIGATION REPORT

921 98th Avenue
Oakland, California

ACC Project Number: 6725-001.02

Prepared for:

Mr. Robert Ribbing

Fleischmann's Yeast
240 Larkin Williams Industrial Court
Fenton, Missouri 63026

September 2, 2003

Prepared by: _____ (for E. Giacometti)
Edward Giacometti
Staff Geologist

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

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ADDITIONAL SUBSURFACE INVESTIGATION REPORT
921 98th Avenue
Oakland, California

1.0 INTRODUCTION

This Additional Subsurface Investigation Report has been prepared by ACC Environmental Consultants, Inc. (ACC) at the request of Fleischmann's Yeast (Client). This report describes additional subsurface investigation work performed at the Fleischmann's Yeast Facility located at 921 98th Avenue, Oakland, California (Site). The specific goals of additional investigation were to: 1) further characterize soil and groundwater and collect representative samples in the vicinity of the two former gasoline underground storage tanks (USTs); 2) analyze select representative soil and grab groundwater samples from the soil borings for gasoline constituents; and 3) prepare a report of findings for submission to the Alameda County Health Care Services Agency (ACHCSA), the lead regulatory agency. Previously, the Site was overseen by the Oakland Fire Services Agency (OFSA) who referred the case to the ACHCSA sometime prior to July 2003.

2.0 BACKGROUND

During preparation of a Phase I Environmental Site Assessment, ACC identified two former gasoline USTs and product dispensers at the Site. Former UST and dispenser locations are illustrated on Figure 2. The two gasoline USTs were apparently last used in the early 1980's and ACC did not find any records of gasoline UST removal.

ACC contracted with DCM Construction, Inc. (DCM) of Dublin, California, in June 2002 to excavate in the vicinity of the two former, gasoline USTs. These activities were intended to verify that the gasoline USTs had been removed. Exploratory excavation at gasoline UST designated T1 revealed broken and cut product and vent lines and engineered fill where soils should have been native silts and clays. Exploratory excavation at gasoline UST designated T2 was inconclusive. ACC then contracted with GeoTech Utility Locating (GeoTech), of El Cerrito, California, a subsurface utility locating firm, to scan the area of the suspect USTs, especially T2. The results of a subsurface magnetometer survey were more conclusive and indicated that no metallic anomalies were located in the area of the former gasoline USTs.

In September 2002, ACC advanced eight exploratory soil borings (designated B1 through B8) at select locations adjacent to the two gasoline USTs. Soil boring locations are illustrated on Figure 2. The eight exploratory soil borings were advanced by continuously coring with four-feet long, hydraulically-driven, hollow-stem Geoprobe® sampling tools equipped with 2-inch inside-diameter clear acetate liners. Soil borings B1 and B2 were advanced adjacent to and on each side of former gasoline UST T1. Soil boring B3 (also designated T1-Disp) was advanced at the former dispenser for UST T1. Soil borings B4 and B5 were advanced adjacent to and on two sides of former gasoline UST T2. Soil boring B6 was advanced at the midpoint between former UST T2 and its former product dispenser located inside the existing building. Finally, soil borings B7 and B8 were advanced in the generally downgradient direction from the gasoline USTs and directly adjacent to a formaldehyde UST to be closed in place under OFSA permit. Grab groundwater samples were

collected in soil borings B1, B4, and B7. Soil and grab groundwater sample analytical results are summarized in Tables 1 and 2 in Appendix A.

Subsurface soil conditions were generally consistent across the area of investigation. In general, soils consisted of uniform silty clay and clay to a depth of approximately 16 feet below ground surface (bgs). The fine-grained clays were generally dark olive green to olive gray, medium stiff, moderately to highly plastic, damp, and displayed low estimated permeability. At approximately 15 to 16 feet bgs, sand content began to increase with depth and saturated SC clayey sand was observed in soil boring B1. This zone appears to be first-encountered groundwater.

Based on the findings summarized in ACC's January 17, 2003 Subsurface Investigation Report, the OFSA referred the case to the ACHCSA for regulatory oversight. The case was assigned to Mr. Amir Golami, who verbally approved ACC's Work Plan to perform additional field work.

3.0 FIELD PROCEDURES

On August 4, 2003, ACC advanced twelve additional exploratory soil borings (designated B9 through B20) at select locations adjacent to and downgradient of the two gasoline USTs. The approved soil boring locations were marked with white paint and Underground Service Alert was notified at least 48 hours prior to commencing work. A soil boring permit was obtained from the Alameda County Public Works Agency.

The additional exploratory soil borings were advanced by continuously coring with a four-feet long, hydraulically-driven, hollow-stem Geoprobe® sampling tool equipped with 2-inch inside-diameter clear acetate liners. Soil borings B9, B10, and B11 were advanced adjacent to and on each side of former gasoline UST T1. Soil boring B12 was advanced approximately at the midpoint between the two former gasoline USTs. Soil borings B13 and B14 were advanced adjacent to and on each side of former gasoline UST T2. Finally, soil borings B12 and B15 through B20 were advanced in accessible locations downgradient of the two former gasoline USTs for the purposes of collecting grab groundwater samples. Soil samples were collected and analyzed from soil borings B9 through B11 and B13 through B15.

The sampling probe and rods were 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, logged, and appropriate intervals screened with a photoionization detector (PID). The sample intervals were primarily logged to determine relative permeability and evaluate migration potential.

Grab groundwater samples were collected in soil borings B10, B12, B13, B15 through B18, and B20 by advancing a Geoprobe® sampling tool equipped with a clean, four-foot-long stainless steel screen. Soil boring B19 encountered metallic refusal at five feet bgs. When the probe was advanced to approximately 20 feet bgs, the external sampling probe was pulled upwards four feet to expose the internal screen to the water-bearing formation. A grab groundwater sample was then retrieved through the rods with either a pre-cleaned stainless steel bailer or clean polyethylene tubing equipped with a checkvalve. Grab groundwater samples were collected in 40-milliliter volatile

organic analysis (VOA) vials without headspace. Following collection, the VOA vials were labeled, placed in a pre-chilled insulated container, and then transported following chain of custody protocol to STL San Francisco (STL-SF), a state-certified laboratory, for analysis.

Drilling was performed under the direction of a staff geologist, and the surface materials in the borings were identified using visual and manual methods. Soils in each soil boring were logged and classified during drilling operations according to the Unified Soil Classification System (USCS). Lithologic logs of the soil borings are included as Appendix B. Following drilling and sample collection, each soil borings was abandoned with neat cement flush to grade.

4.0 FINDINGS

4.1 Subsurface Conditions

The surface of the Site consists of concrete and/or asphalt pavement underlain by approximately 3 to 6 inches of sand and/or gravel baserock. Subsurface soil conditions were highly consistent across the Site. In general, soils consisted of uniform silty clay and clay to a depth of approximately 16 feet bgs. The fine-grained clays were generally dark olive green to olive gray, medium stiff, moderately to highly plastic, damp, and displayed low estimated permeability. At approximately 15 to 16 feet bgs, sand content began to increase with depth and a saturated SC clayey sand was observed in soil boring B1. This zone appears to be first-encountered groundwater.

All soil borings were continuously cored to better characterize the soils present. Soils were continuously logged and screened with a ppbRAE photoionization detector (PID). Some elevated PID readings, characteristic odors, and/or soil discoloration were noted during sampling activities. Additional details are included in the lithologic logs included in Appendix B.

4.2 Analytical Results

Fourteen soil samples and eight grab groundwater samples were collected and analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE). Soil sample analytical results are summarized in Table 3 and the grab groundwater sample results are summarized in Table 4. Copies of STL-SF laboratory reports and chain of custody records are included in Appendix C.

5.0 DISCUSSION

After initial investigation confirmed that gasoline impacts existed in soil and groundwater in the immediate vicinity of the two former gasoline USTs, additional investigation was proposed to further characterize subsurface conditions and the extent of impact. The ultimate goals of additional site characterization were: 1) to determine if remedial soil excavation was warranted for purposes of source removal; 2) delineate the approximate extent of gasoline impact in groundwater; and 3) obtain necessary data to justify regulatory closure in regards to the two former gasoline USTs.

ACC advanced three additional exploratory soil borings at former gasoline UST T1 and two exploratory soil borings at former gasoline UST T2 to collect additional representative soil samples. In addition, one grab groundwater sample from first-encountered groundwater was collected at each former gasoline UST. Soil borings were also advanced at select locations in the estimated downgradient direction of each former gasoline UST. Groundwater flow direction is reported to be west to northwest in the vicinity of the Site which is consistent with regional topography.

Generally, findings of additional site investigation were consistent with the initial soil boring investigation. Soil impacts appear to be localized in fine-grained soils immediately adjacent to the two former USTs and the plume of impacted groundwater is localized but trending in the estimated downgradient direction of each UST.

5.1 Soil

Exploratory soil borings revealed that soils across the area of investigation consist of fine-grained silts and clays from the surface to approximately 15 to 16 feet bgs. These soils typically limit the migration potential of released TPHg due to their adsorption to the soil matrix and the low soil permeability. Soil impacts appear to be highly localized in the fine-grained silty clays. TPHg concentrations in soil ranged from nondetect (less than 1 ppm) to 2,500 ppm immediately adjacent to the former UST in soil boring B9, and benzene concentrations ranged from nondetect (less than 0.005 ppm) to 19 ppm immediately adjacent to the former UST in soil boring B9.

Based on comparison to the applicable risk-based screening levels (RBSLs) for gasoline and benzene, a relatively small volume of soil adjacent to former gasoline UST T1 merits excavation as a means of source removal. ACC estimates that the volume is approximately 40 to 50 cubic yards.

5.2 Water

First-encountered groundwater was logged in poor quality clayey sands at approximately 16 feet bgs. Grab groundwater sample analytical results indicate that water is being impacted by residual TPHg in soil at each former UST location. However, based on the relatively low BTEX to TPHg ratios and the approximate age of the former USTs, weathering is occurring and BTEX is being preferentially degraded by natural attenuation processes.

ACC reviewed topographic contours on the San Leandro Quadrangle and estimates the regional groundwater flow direction to be northwest. Iso-concentration maps for TPHg and benzene, illustrated on Figures 3 and 4, show a slight elongation in the northwest direction. Due to relatively poor aquifer qualities in shallow water-bearing zones and a relatively shallow groundwater gradient, migration in groundwater is typically defined more by diffusion than groundwater flow direction. Therefore, the analytical results reported in the grab groundwater samples collected from soil borings B18 and B20 approximate the horizontal extent of reportable TPHg and benzene impact in groundwater and demonstrate that the plume of impacted groundwater originating from each former gasoline UST is small and localized to the immediate area of each former UST.

6.0 CONCLUSIONS

Based on findings of this additional investigation and previous investigation, sample analytical results, and field observations, ACC has made the following conclusions regarding soil and groundwater conditions at the site:

- Residual gasoline impacts are present in fine-grained soils primarily below 8 feet bgs in the immediate vicinity of the two former gasoline USTs and residual TPHg and BTEX concentrations significantly decrease with distance from the former USTs;

- Residual TPHg and BTEX impacts are present in first-encountered groundwater but these impacts appear to be localized in the vicinity of and downgradient of the two former gasoline USTs and no offsite migration is occurring;

- Residual TPHg and benzene impacts in soil in soil borings B1, B2, B9, B10, and B11, located adjacent to former UST #1, exceed the RBSL for gasoline of 400 ppm and the RBSL for benzene of 0.39 ppm;

- Identified residual TPH impacts in groundwater present minimal potential human health risk due to its location in relatively shallow groundwater on a commercial facility, the lack of any offsite migration, the lack of any potential downgradient or onsite receptors, the estimated small volume of impacted groundwater, and the relatively low to non-detectable concentrations of benzene;

- Residual TPHg and BTEX concentrations in soil and groundwater will likely continue to decrease through natural attenuation processes.

7.0 RECOMMENDATIONS

ACC recommends meeting with the ACHCSA to discuss the site history, the findings of this additional site characterization, and the potential need for and scope of remedial soil removal. The goal of the meeting will be to discuss agency concerns and identify specific data necessary to justify full regulatory closure in regards to the two former gasoline USTs.

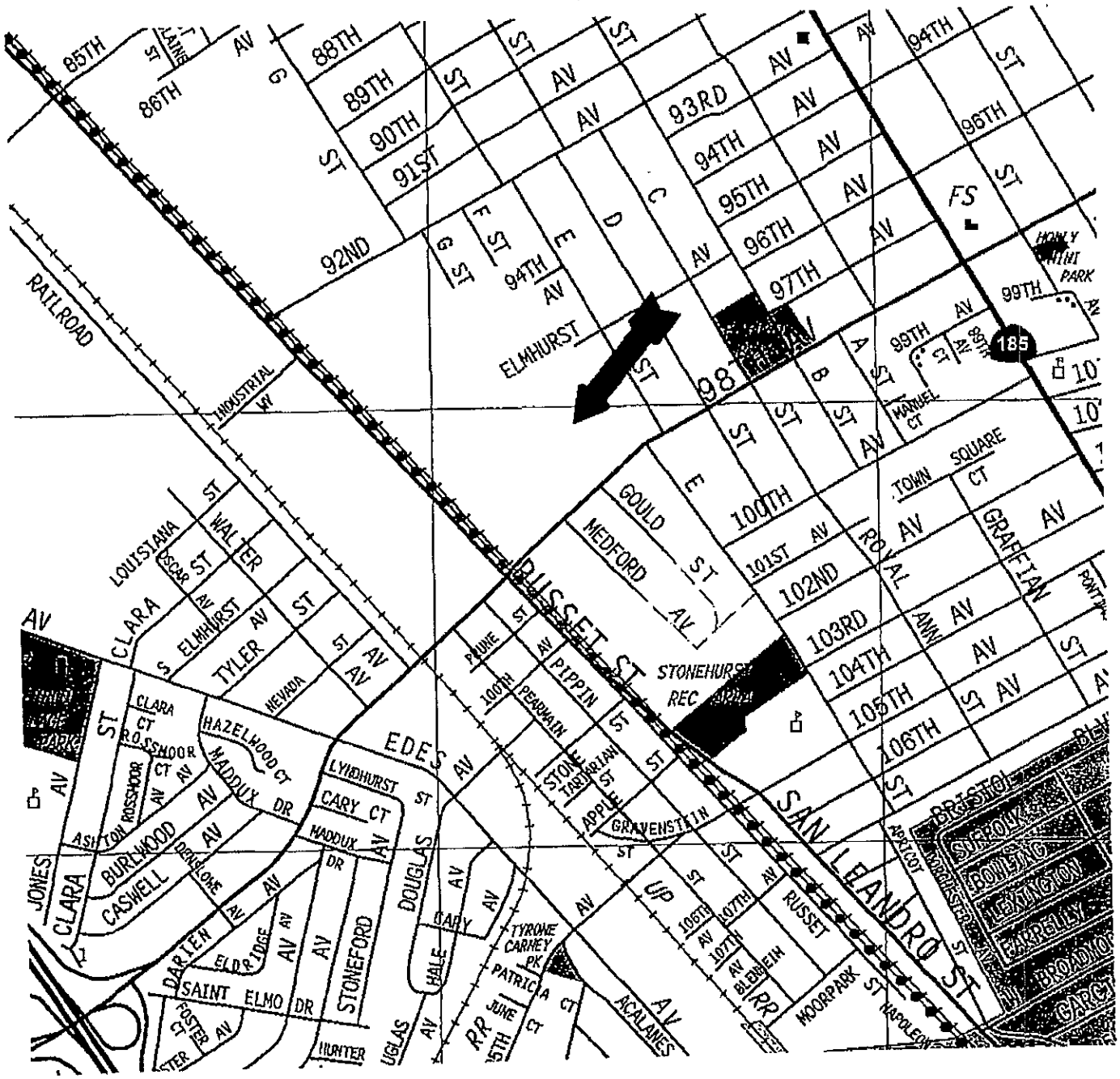
8.0 LIMITATIONS

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: The Thomas Guide, Bay Area 2002

Title: Location Map
921 98th Avenue
Oakland, California

Figure Number: 1	Scale: None
Project No.: 6725-001	Drawn By: EJG
	Date: 1/8/03

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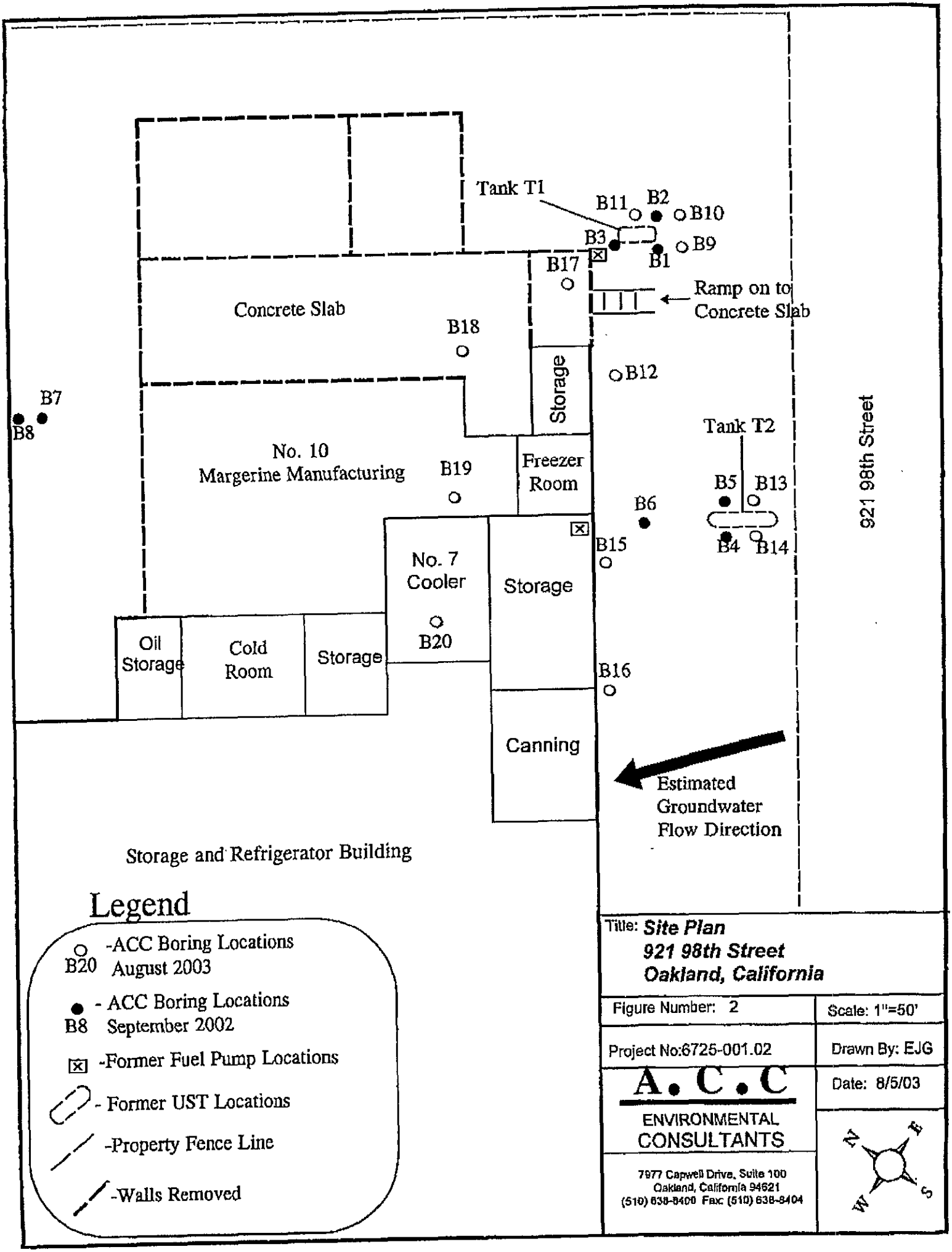
Tank T1
B11
B2
B10
B3
B9
B1
B17
Ramp on to
Concrete Slab
Concrete Slab
B18
Storage
B12
B7
B8
Tank T2
No. 10
Margerine Manufacturing
B19
Freezer
Room
B5
B13
B6
921 98th Street
B15
B4
B14
No. 7
Cooler
Storage
B20
Oil
Storage
Cold
Room
Storage
B16
Canning
Estimated
Groundwater
Flow Direction
Storage and Refrigerator Building
Legend
-ACC Boring Locations
B20 August 2003
- ACC Boring Locations
B8 September 2002
-Former Fuel Pump Locations
- Former UST Locations
-Property Fence Line
-Walls Removed
Title: Site Plan
921 98th Street
Oakland, California
Figure Number: 2
Scale: 1"=50'
Project No:6725-001.02
Drawn By: EJG
A.C.C
ENVIRONMENTAL
CONSULTANTS
Date: 8/5/03
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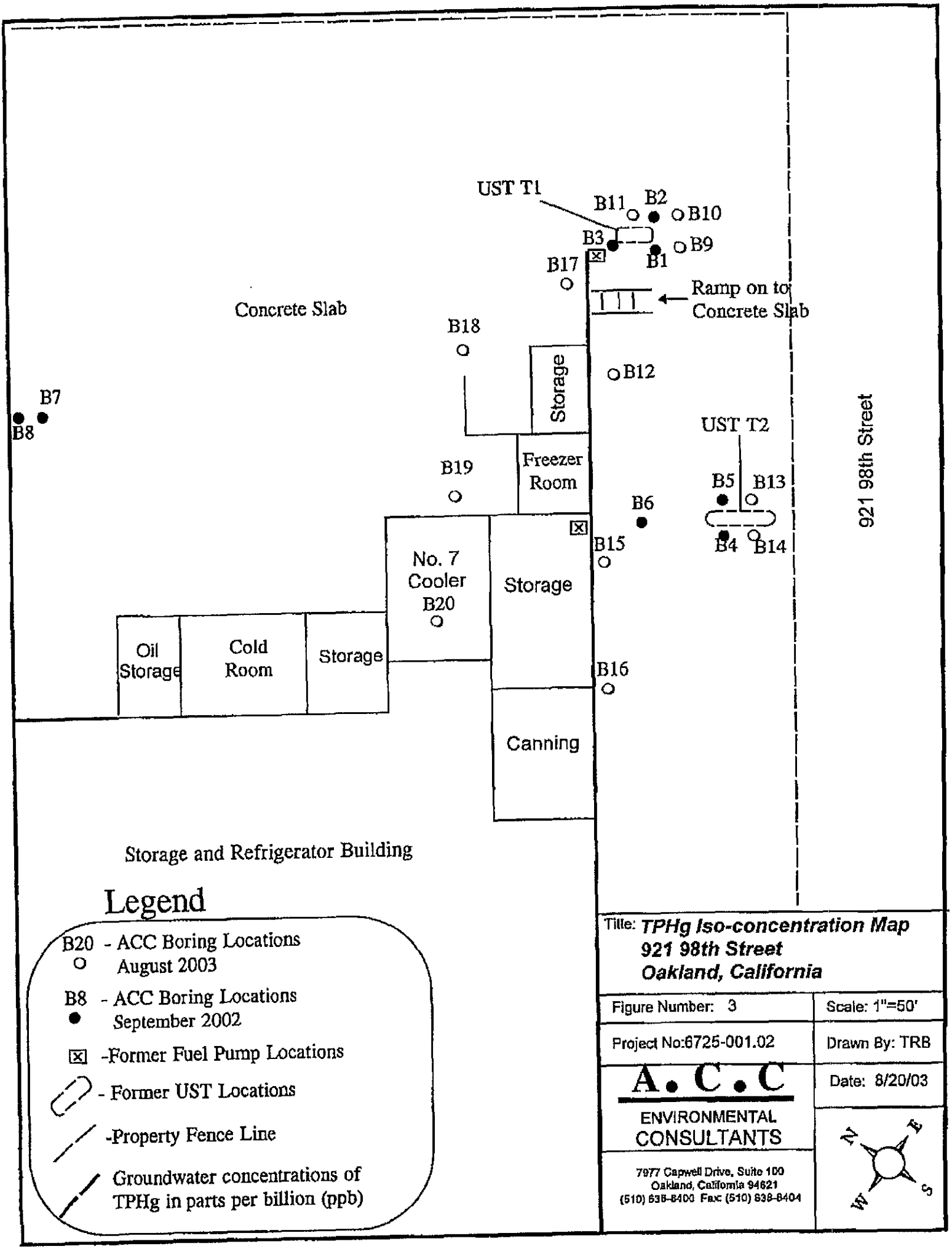
UST T1
B11
B2
B10
B3
B9
B1
B17
Ramp on to
Concrete Slab
Concrete Slab
B18
Storage
B12
B7
B8
UST T2
Freezer
Room
B19
B5
B13
B6
921 98th Street
B15
B4
B14
No. 7
Cooler
B20
Storage
Oil
Storage
Cold
Room
Storage
B16
Canning
Storage and Refrigerator Building
Legend
B20 - ACC Boring Locations
August 2003
B8 - ACC Boring Locations
September 2002
-Former Fuel Pump Locations
- Former UST Locations
-Property Fence Line
Groundwater concentrations of
TPHg in parts per billion (ppb)
Title: TPHg Iso-concentration Map
921 98th Street
Oakland, California
Figure Number: 3
Scale: 1"=50'
Project No:6725-001.02
Drawn By: TRB
A.C.C
ENVIRONMENTAL
CONSULTANTS
Date: 8/20/03
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Oakland, California 94621
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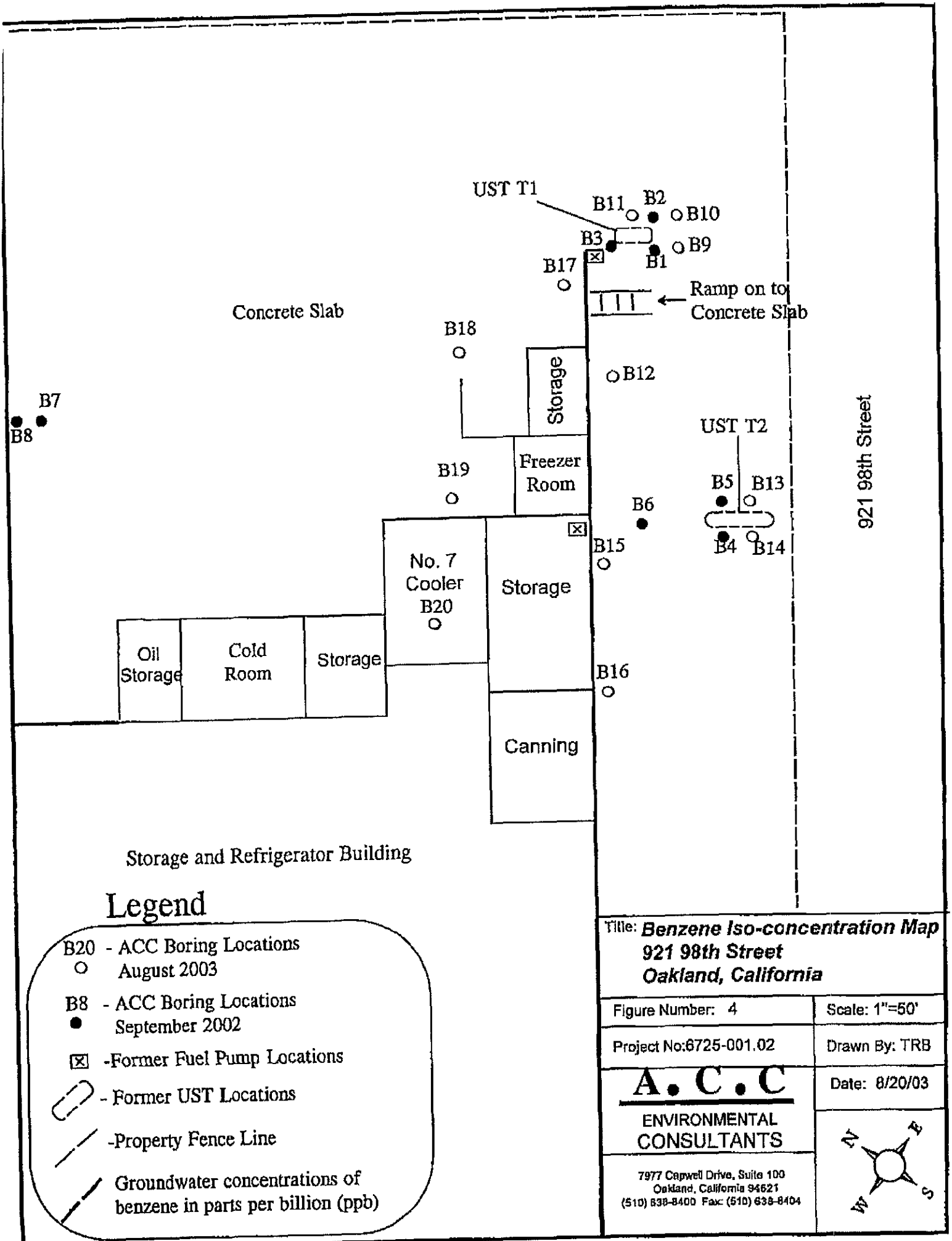
UST T1
B11
B2
B10
B3
B9
B1
B17
Ramp on to Concrete Slab
Concrete Slab
B18
Storage
B12
B7
B8
UST T2
Freezer Room
B19
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B13
B6
921 98th Street
B15
B4
B14
No. 7 Cooler B20
Storage
Oil Storage
Cold Room
Storage
B16
Canning
Storage and Refrigerator Building
Legend
B20 - ACC Boring Locations August 2003
B8 - ACC Boring Locations September 2002
-Former Fuel Pump Locations
- Former UST Locations
-Property Fence Line
Groundwater concentrations of benzene in parts per billion (ppb)
Title: Benzene Iso-concentration Map
921 98th Street
Oakland, California
Figure Number: 4
Scale: 1"=50'
Project No:6725-001.02
Drawn By: TRB
A.C.C
ENVIRONMENTAL CONSULTANTS
Date: 8/20/03
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TABLES

Table 1 - September 2002 Soil Results

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
B1-11.0	300	2.3	<0.62	6.3	<0.62	<0.62
B1-15.0	410	5.5	9.3	9.6	43	<3.1
B2-8.0	26	<0.62	<0.62	1	1.7	<0.62
B2-12.0	1,400	23	70	48	230	<6.2
B4-12.0	130	<0.62	<0.62	3.3	2.4	<0.62
B4-16.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B6-5.0	110	1.6	<0.62	2.3	9	<0.62
B5-8.0	870	<6.2	<6.2	<6.2	<6.2	<6.2
B5-12.0	180	<0.62	<0.62	1.4	<0.62	<0.62
T1 DISP- 2.5	370	<6.2	<6.2	13	47	<6.2
T1 DISP- 5.0	80	<0.62	<0.62	1.2	<0.62	<0.62

Notes: All results reported in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm)

< Sample tested below the laboratory minimum detection limit indicated

Table 2 - September 2002 Groundwater Results

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
B1 -W	8,600	1,100	340	730	390	<10
B4 -W	17,000	120	10	850	330	<10
B7 -W	<50	<0.50	<0.50	<0.50	<1.0	1.8

Notes: All results reported in micrograms per liter (□g/L), approximately equal to parts per billion (ppb)

< Sample tested below the laboratory minimum detection limit indicated

Table 3 - August 2003 Soil Results

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
B9-12.0	2,500	19	95	40	230	<2.5
B10-12.0	860	7.3	41	18	130	<0.5
B11-4.0	3	0.21	<0.005	0.12	0.044	<0.005
B11-8.0	1.7	0.027	<0.005	0.019	<0.005	<0.005
B11-12.0	400	0.76	7.6	5.8	35	<0.5
B11-16.0	<1	0.011	0.021	0.016	0.077	<0.005
B13-4.0	<1	<0.005	<0.005	<0.005	<0.005	<0.005
B13-8.0	<1	<0.005	0.0056	<0.005	0.0099	<0.005
B13-12.0	110	<0.5	<0.5	2	<0.5	<0.5
B13-16.0	<1	<0.005	<0.005	<0.005	<0.005	<0.005
B14-8.0	5.2	<0.005	<0.005	<0.005	<0.005	<0.005
B14-12.0	35	<0.023	<0.023	<0.023	<0.023	<0.023
B14-16.0	<1	<0.005	<0.005	<0.005	<0.005	<0.005
B15-8.0	9	<0.054	<0.023	0.024	<0.023	<0.023

Notes: All results reported in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm)

< Sample tested below the laboratory minimum detection limit indicated

Table 4 - August 2003 Groundwater Results

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
B10-W	190	16	36	6.6	30	1.3
B12-W	72	<0.50	<0.50	2	<1.0	1.6
B13-W	17,000	58	<5.0	620	29	<5.0
B15-W	72,000	790	<25	950	530	<25
B16-W	4,100	59	100	100	440	<2.5
B17-W	16,000	7.5	3.6	390	420	<2.5
B18-W	74	1.1	<0.50	<0.50	<1.0	1.1
B20-W	<50	1	0.62	0.5	1.2	0.98

Notes: All results reported in micrograms per liter (□g/L), approximately equal to parts per billion (ppb)

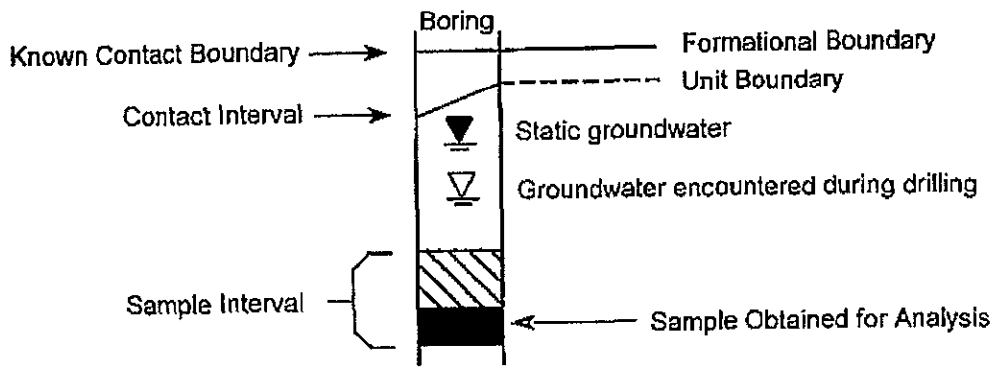
< Sample tested below the laboratory minimum detection limit indicated

LITHOLOGIC LOGS

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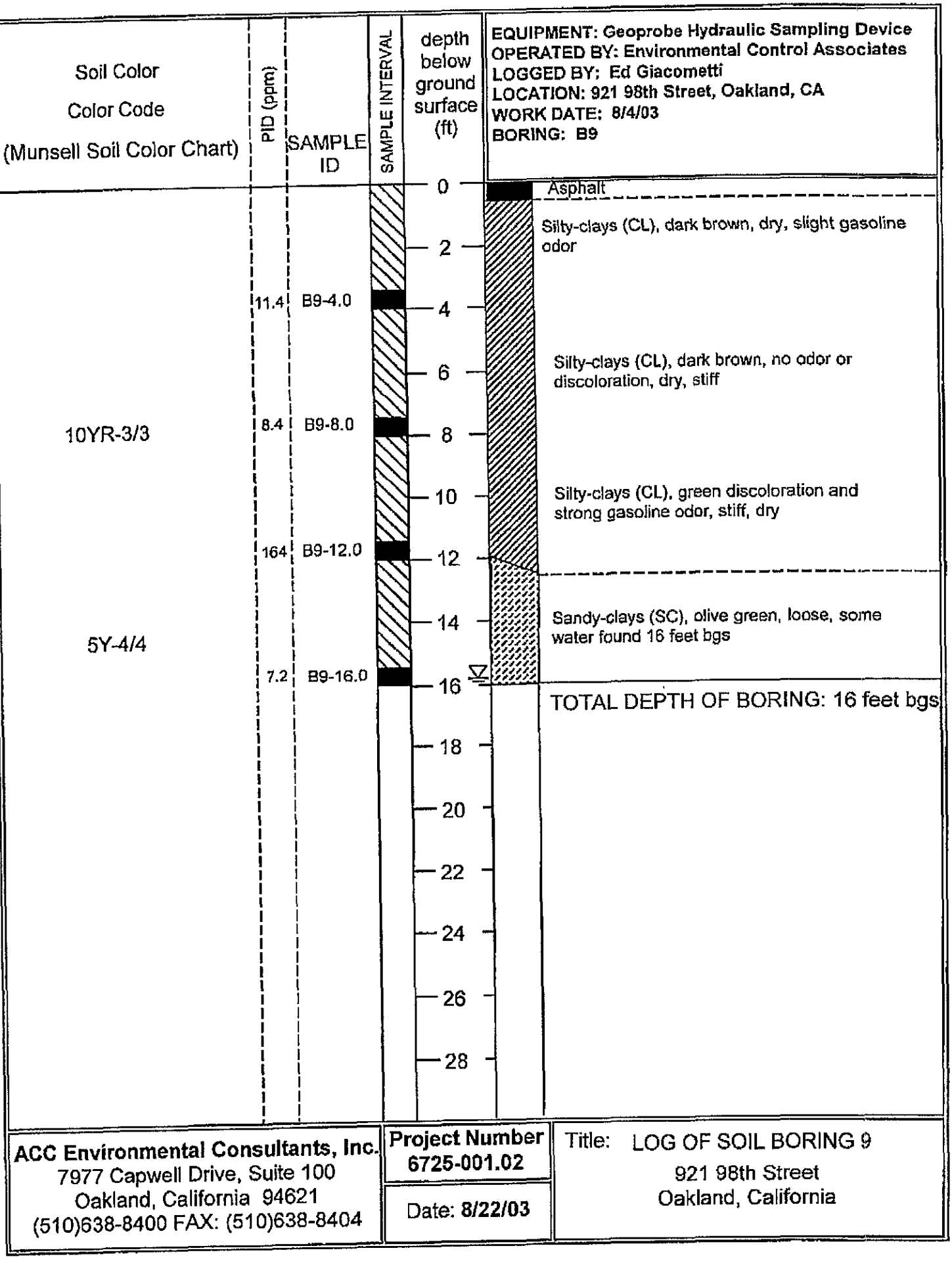
(510) 638-8400 Fax: (510) 638-8404

Site: **921 98th Street Oakland, California**

Project Number: 6725-001.02



ACC Environmental Consultants, Inc.
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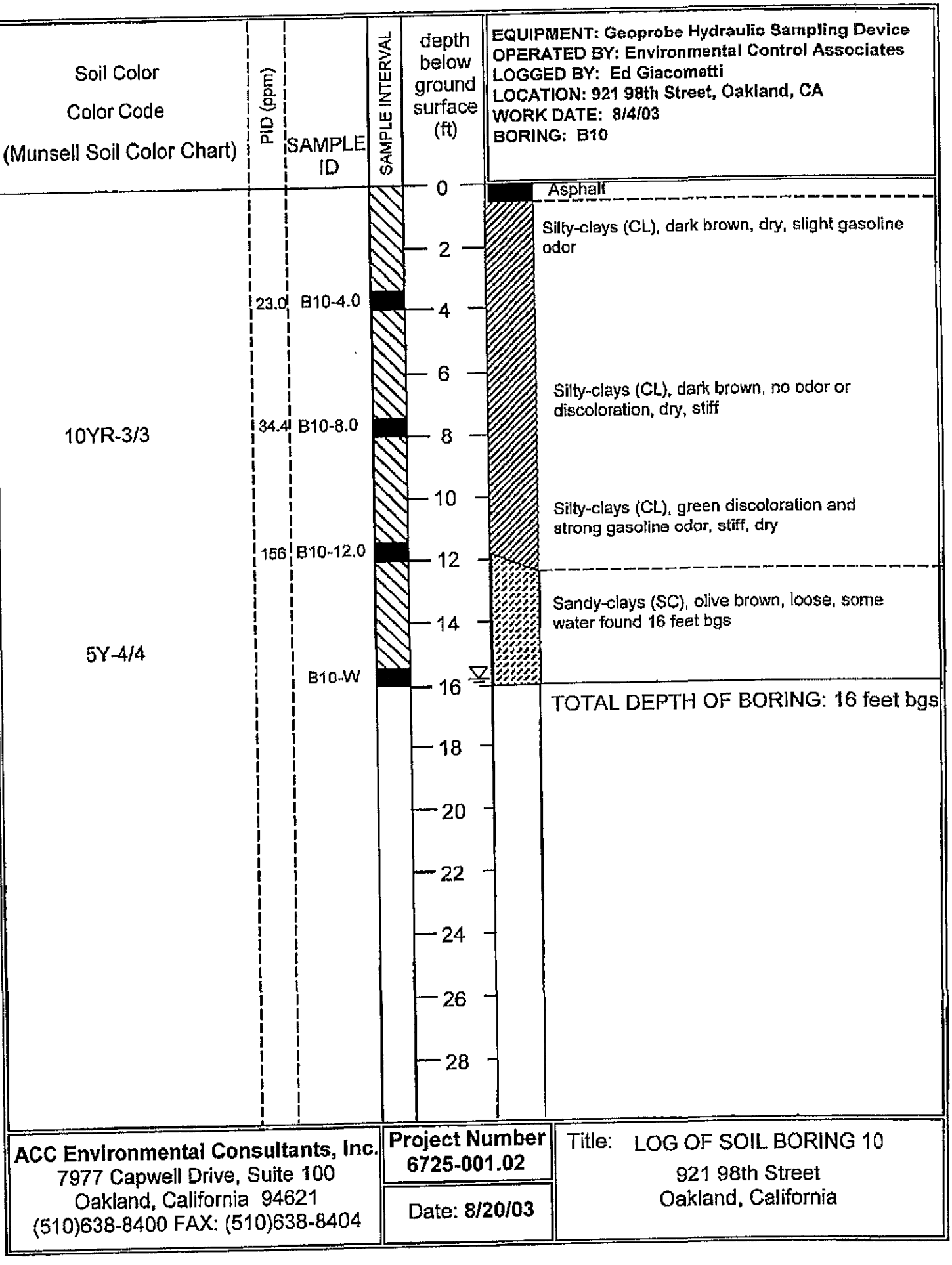
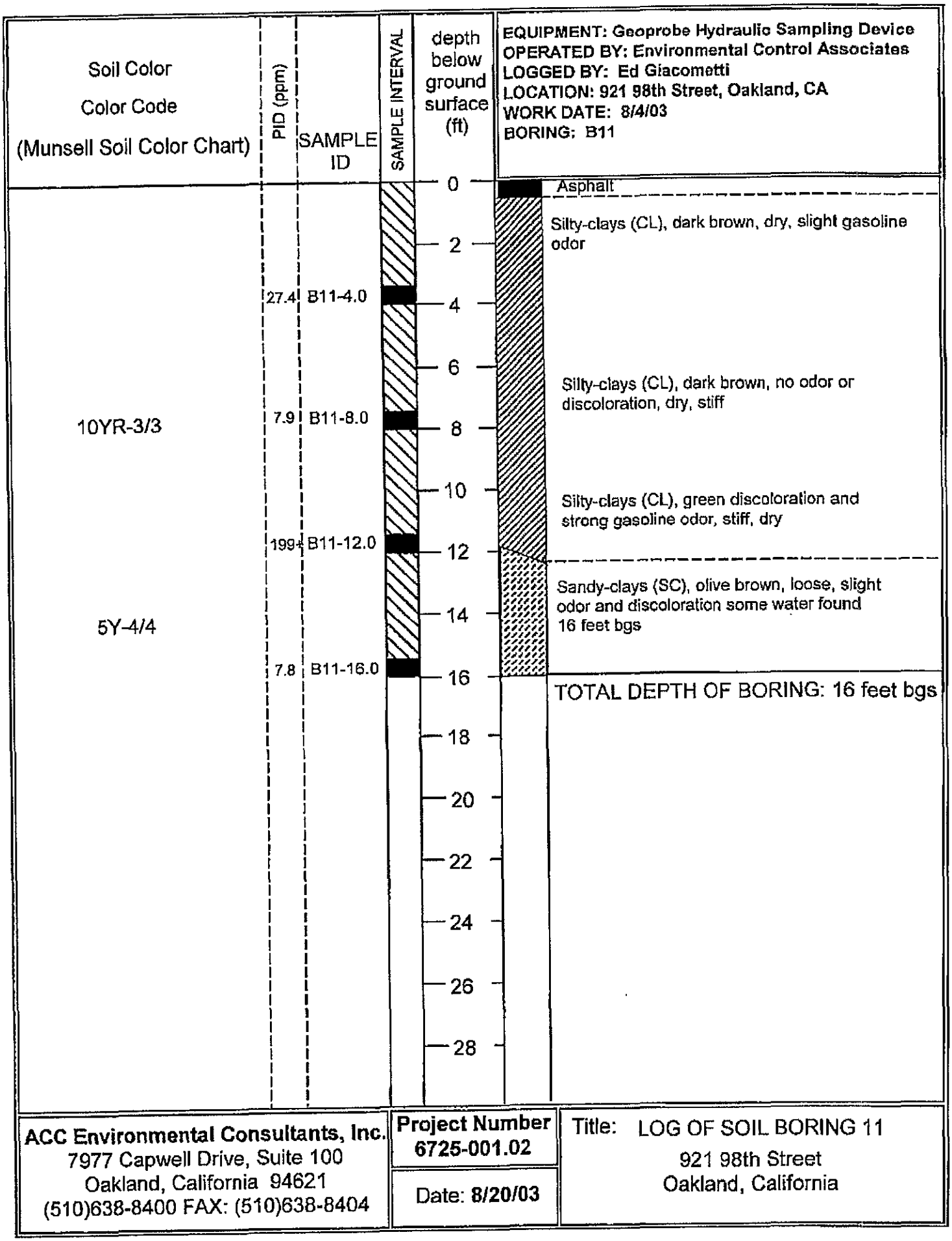
(510)638-8400 FAX: (510)638-8404

Project Number
6725-001.02

Date: **8/22/03**

Title: LOG OF SOIL BORING 9
921 98th Street
Oakland, California


Soil Color
Color Code
(Munsell Soil Color Chart)
PID (ppm)
SAMPLE ID
SAMPLE INTERVAL
depth below ground surface (ft)
EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Ed Giacometti
LOCATION: 921 98th Street, Oakland, CA
WORK DATE: 8/4/03
BORING: B10
0
Asphalt
2
Silty-clays (CL), dark brown, dry, slight gasoline odor
23.0
B10-4.0
4
6
Silty-clays (CL), dark brown, no odor or discoloration, dry, stiff
10YR-3/3
34.4
B10-8.0
8
10
Silty-clays (CL), green discoloration and strong gasoline odor, stiff, dry
156
B10-12.0
12
Sandy-clays (SC), olive brown, loose, some water found 16 feet bgs
14
5Y-4/4
B10-W
16
TOTAL DEPTH OF BORING: 16 feet 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
6725-001.02
Date: 8/20/03
Title: LOG OF SOIL BORING 10
921 98th Street
Oakland, California



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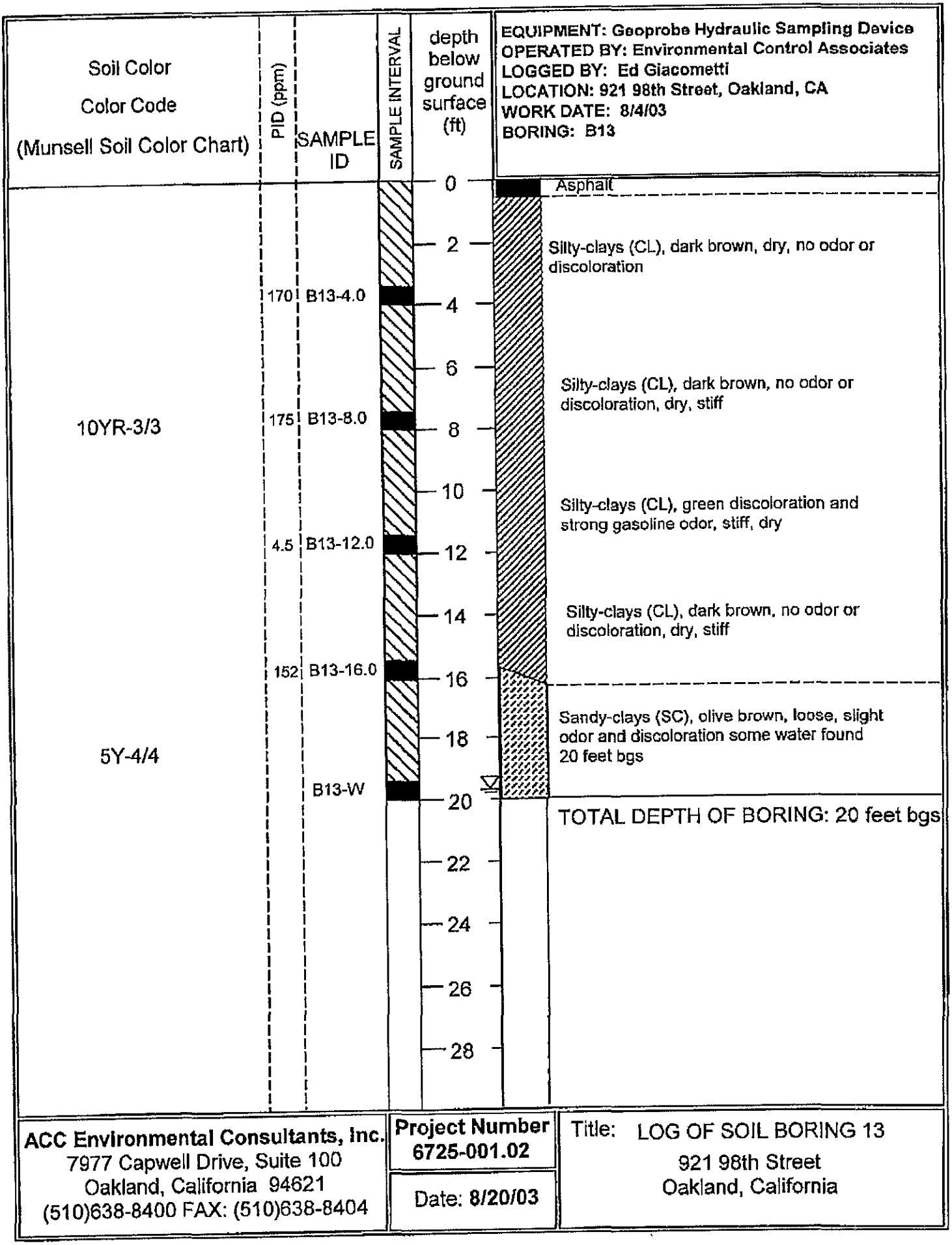
(510)638-8400 FAX: (510)638-8404

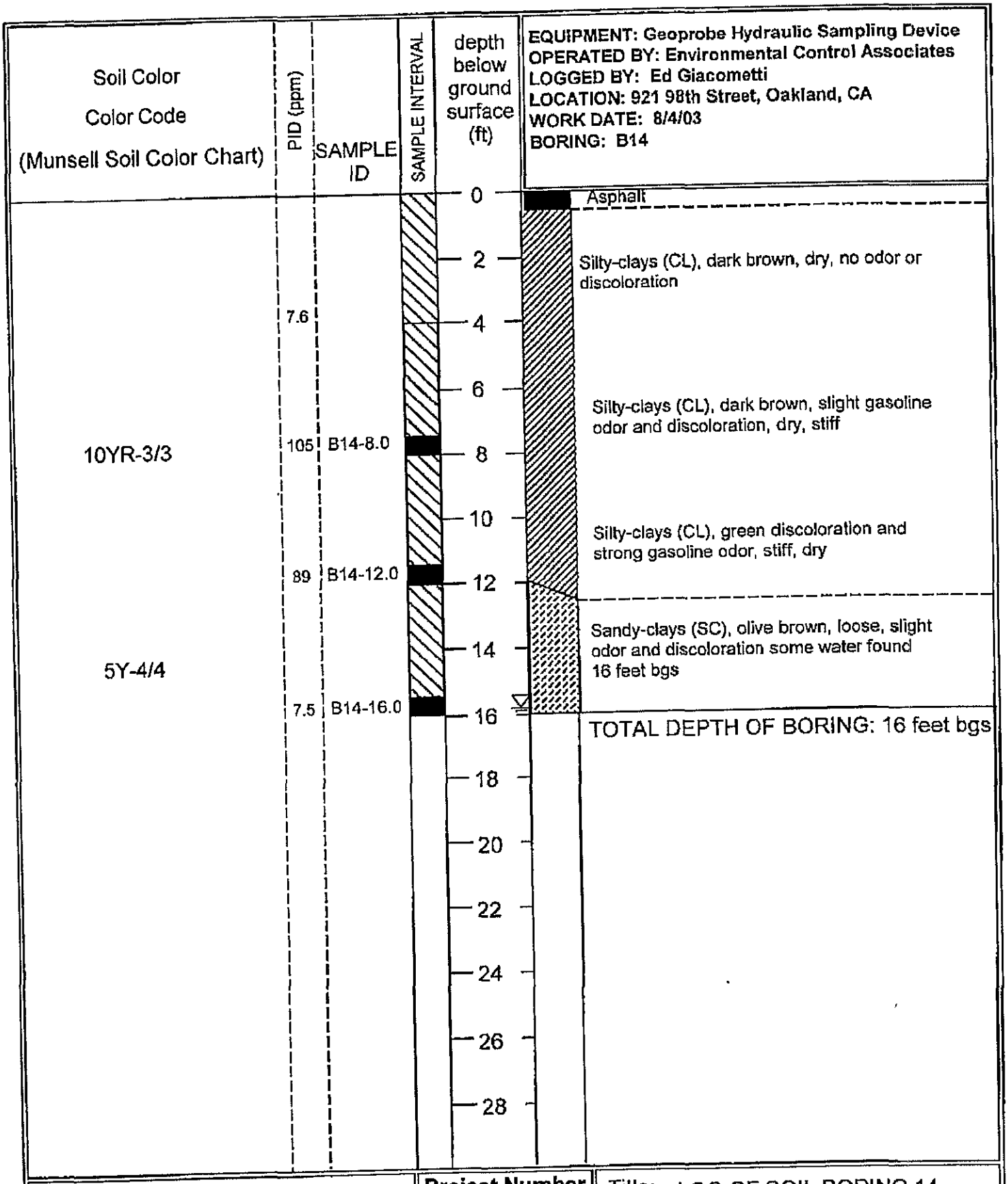
Project Number
6725-001.02

Date: **8/20/03**

Title: LOG OF SOIL BORING 11
921 98th Street
Oakland, California


Soil Color
Color Code
(Munsell Soil Color Chart)
PID (ppm)
SAMPLE ID
SAMPLE INTERVAL
depth below ground surface (ft)
EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Ed Giacometti
LOCATION: 921 98th Street, Oakland, CA
WORK DATE: 8/4/03
BORING: B13
0
Asphalt
2
Silty-clays (CL), dark brown, dry, no odor or discoloration
170 B13-4.0
4
6
Silty-clays (CL), dark brown, no odor or discoloration, dry, stiff
10YR-3/3
175 B13-8.0
8
10
Silty-clays (CL), green discoloration and strong gasoline odor, stiff, dry
4.5 B13-12.0
12
14
Silty-clays (CL), dark brown, no odor or discoloration, dry, stiff
152 B13-16.0
16
18
Sandy-clays (SC), olive brown, loose, slight odor and discoloration some water found 20 feet bgs
5Y-4/4
B13-W
20
TOTAL DEPTH OF BORING: 20 feet 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
6725-001.02
Date: 8/20/03
Title: LOG OF SOIL BORING 13
921 98th Street
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Ed Giacometti
LOCATION: 921 98th Street, Oakland, CA
WORK DATE: 8/4/03
BORING: B14



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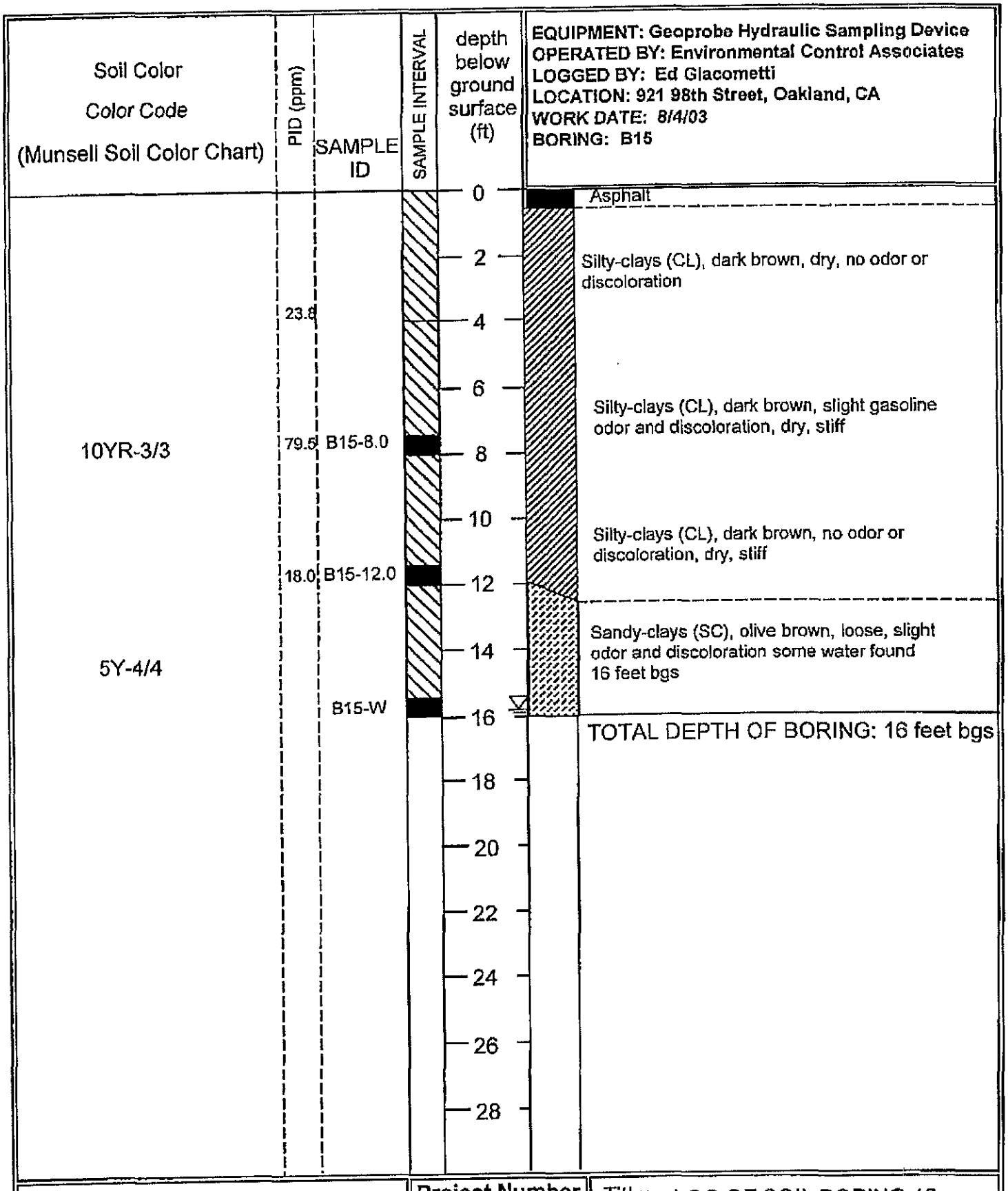
Project Number
6725-001.02

Date: **8/20/03**

Title: LOG OF SOIL BORING 14
921 98th Street
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Ed Glacometti
LOCATION: 921 98th Street, Oakland, CA
WORK DATE: 8/4/03
BORING: B15



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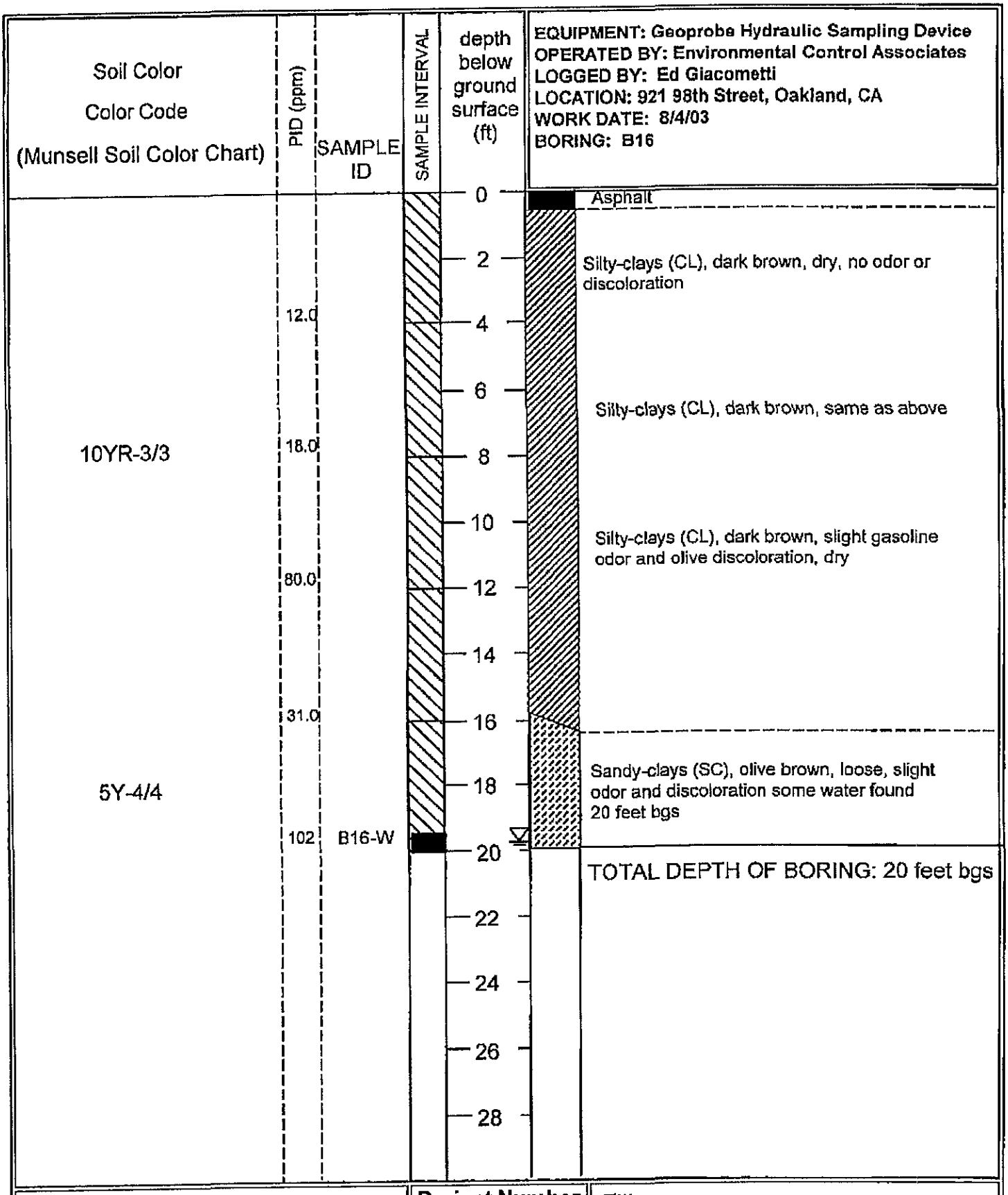
(510)638-8400 FAX: (510)638-8404

Project Number
6725-001.02

Date: **8/20/03**

Title: LOG OF SOIL BORING 15
921 98th Street
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Ed Giacometti
LOCATION: 921 98th Street, Oakland, CA
WORK DATE: 8/4/03
BORING: B16



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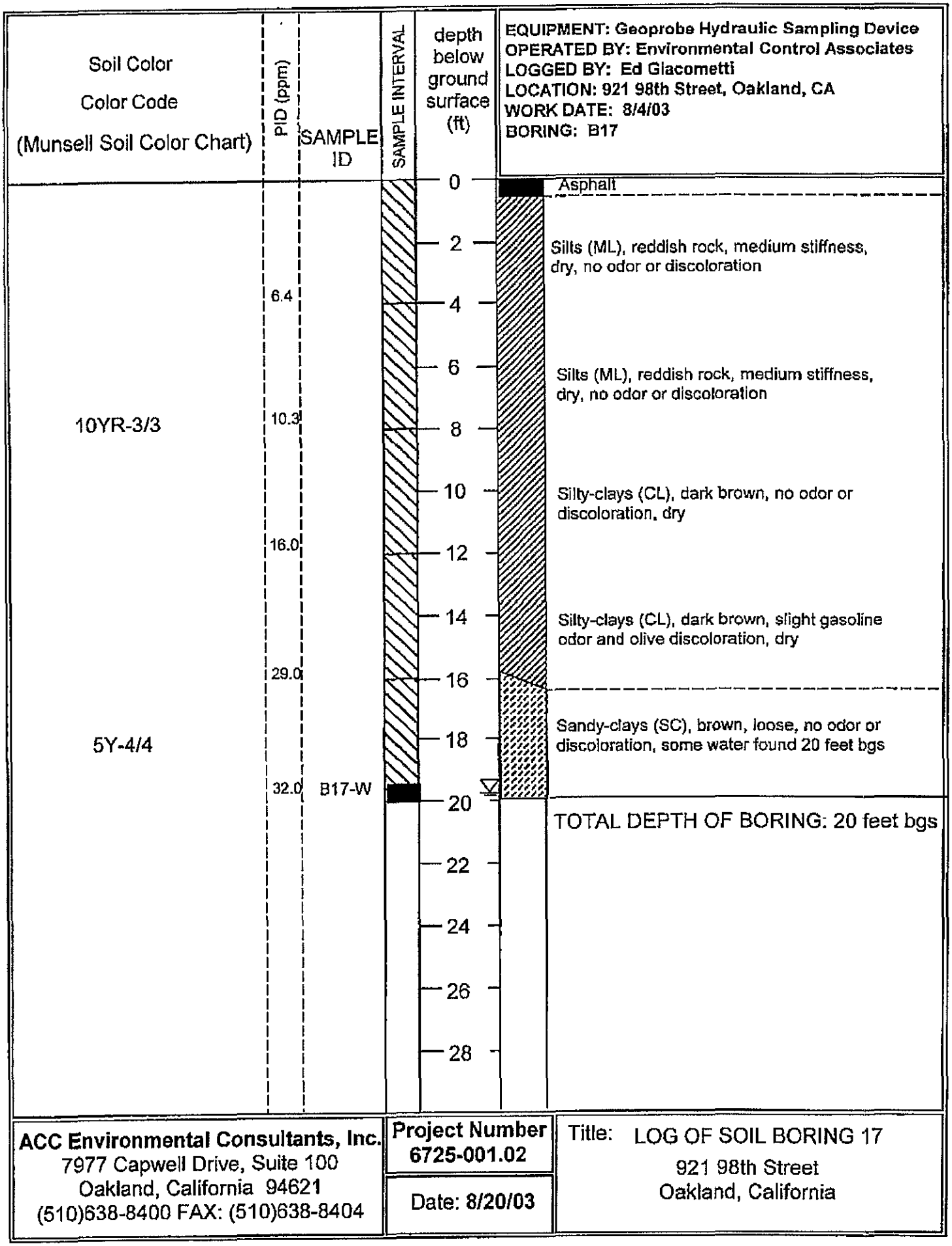
(510)638-8400 FAX: (510)638-8404

Project Number 6725-001.02

Date: **8/20/03**

Title: LOG OF SOIL BORING 16
921 98th Street
Oakland, California



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(510)638-8400 FAX: (510)638-8404

Project Number
6725-001.02

Date: **8/20/03**

Title: LOG OF SOIL BORING 17
921 98th Street
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Ed Giacometti
LOCATION: 921 98th Street, Oakland, CA
WORK DATE: 8/4/03
BORING: B18

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Asphalt
				2	Silts (ML), reddish rock, medium stiffness, dry, no odor or discoloration
				4	
				6	Silts (ML), reddish rock, medium stiffness, dry, no odor or discoloration
10YR-3/3				8	
				10	Silty-clays (CL), dark brown, no odor or discoloration, dry
				12	
				14	Silty-clays (CL), dark brown, same as above
				16	
5Y-4/4				18	Sandy-clays (SC), brown, loose, no odor or discoloration, some water found 20 feet bgs
		B18-W		20	
				22	TOTAL DEPTH OF BORING: 20 feet bgs
				24	
				26	
				28	

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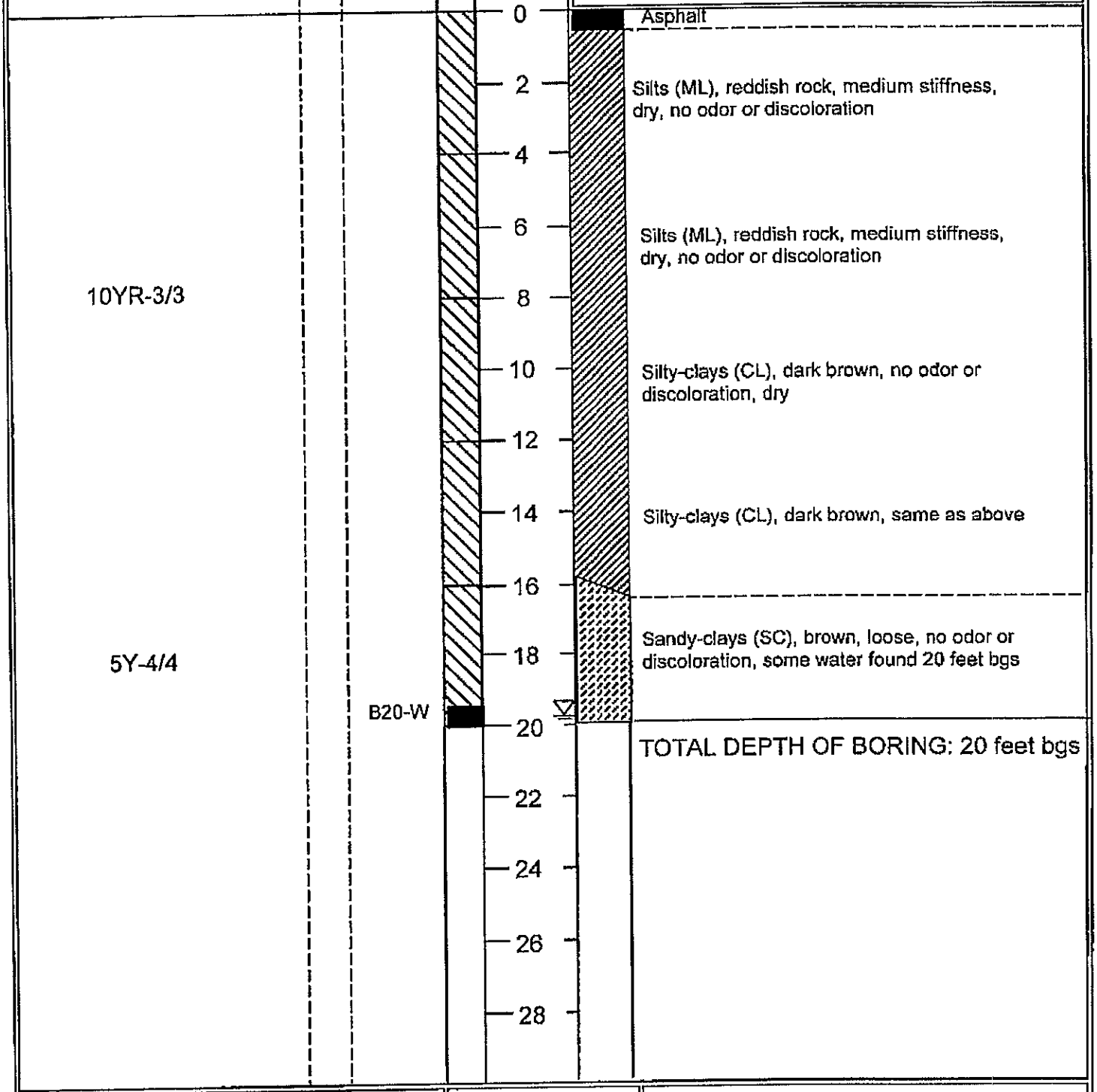
Project Number
6725-001.02

Date: **8/20/03**

Title: LOG OF SOIL BORING 18
921 98th Street
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Ed Giacometti
LOCATION: 921 98th Street, Oakland, CA
WORK DATE: 8/4/03
BORING: B20



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Project Number
6725-001.02

Date: **8/20/03**

Title: LOG OF SOIL BORING 20
921 98th Street
Oakland, California

ANALYTICAL RESULTS AND CHAIN OF CUSTODY RECORD

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Sample ID: B9-12.0
Sampled: 08/04/2003 09:24
Matrix: Soil

Test(s): 8260B
Lab ID: 2003-08-0130 - 1
Extracted: 8/8/2003 12:27
QC Batch#: 2003/08/06-01.62

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2500000	250000	ug/Kg	5.00	08/08/2003 12:27	
Benzene	19000	2500	ug/Kg	5.00	08/08/2003 12:27	
Toluene	95000	2500	ug/Kg	5.00	08/08/2003 12:27	
Ethyl benzene	40000	2500	ug/Kg	5.00	08/08/2003 12:27	
Total xylenes	230000	2500	ug/Kg	5.00	08/08/2003 12:27	
Methyl tert-butyl ether (MTBE)	ND	2500	ug/Kg	5.00	08/08/2003 12:27	
Surrogates(s)						
1,2-Dichloroethane-d4	154.2	70-121	%	5.00	08/08/2003 12:27	sh
Toluene-d8	119.6	81-117	%	5.00	08/08/2003 12:27	sh

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Sample ID: **B10-12.0**
Sampled: 08/04/2003 08:40
Matrix: Soil

Test(s): 8260B
Lab ID: 2003-08-0130 - 2
Extracted: 8/7/2003 02:38
QC Batch#: 2003/08/06-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	860000	50000	ug/Kg	1.00	08/07/2003 02:38	
Benzene	7300	500	ug/Kg	1.00	08/07/2003 02:38	
Toluene	41000	500	ug/Kg	1.00	08/07/2003 02:38	
Ethyl benzene	18000	500	ug/Kg	1.00	08/07/2003 02:38	
Total xylenes	130000	500	ug/Kg	1.00	08/07/2003 02:38	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	08/07/2003 02:38	
Surrogates(s)						
1,2-Dichloroethane-d4	105.1	70-121	%	1.00	08/07/2003 02:38	
Toluene-d8	106.5	81-117	%	1.00	08/07/2003 02:38	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Sample ID: **B11-12.0**
Sampled: 08/04/2003 08:24
Matrix: Soil

Test(s): 8260B
Lab ID: 2003-08-0130 - 5
Extracted: 8/7/2003 02:59
QC Batch#: 2003/08/06-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	400000	50000	ug/Kg	1.00	08/07/2003 02:59	
Benzene	760	500	ug/Kg	1.00	08/07/2003 02:59	
Toluene	7600	500	ug/Kg	1.00	08/07/2003 02:59	
Ethyl benzene	5800	500	ug/Kg	1.00	08/07/2003 02:59	
Total xylenes	35000	500	ug/Kg	1.00	08/07/2003 02:59	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	08/07/2003 02:59	
Surrogates(s)						
1,2-Dichloroethane-d4	109.1	70-121	%	1.00	08/07/2003 02:59	
Toluene-d8	103.8	81-117	%	1.00	08/07/2003 02:59	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants
Attn.: Ed Giacomettl

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Sample ID: **B13-12.0**
Sampled: 08/04/2003 10:40
Matrix: Soil

Test(s): 8260B
Lab ID: 2003-08-0130 - 9
Extracted: 8/7/2003 03:21
QC Batch#: 2003/08/06-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	110000	50000	ug/Kg	1.00	08/07/2003 03:21	
Benzene	ND	500	ug/Kg	1.00	08/07/2003 03:21	
Toluene	ND	500	ug/Kg	1.00	08/07/2003 03:21	
Ethyl benzene	2000	500	ug/Kg	1.00	08/07/2003 03:21	
Total xylenes	ND	500	ug/Kg	1.00	08/07/2003 03:21	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	08/07/2003 03:21	
Surrogates(s)						
1,2-Dichloroethane-d4	109.0	70-121	%	1.00	08/07/2003 03:21	
Toluene-d8	110.1	81-117	%	1.00	08/07/2003 03:21	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2003/08/06-01.62

MB: 2003/08/06-01.62-041

Date Extracted: 08/06/2003 09:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	08/06/2003 09:41	
Benzene	ND	0.50	mg/Kg	08/06/2003 09:41	
Toluene	ND	0.50	mg/Kg	08/06/2003 09:41	
Ethyl benzene	ND	0.50	mg/Kg	08/06/2003 09:41	
Total xylenes	ND	0.50	mg/Kg	08/06/2003 09:41	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	08/06/2003 09:41	
Surrogates(s)					
1,2-Dichloroethane-d4	84.4	76-130	%	08/06/2003 09:41	
Toluene-d8	107.3	78-115	%	08/06/2003 09:41	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2003/08/06-01.62**

LCS 2003/08/06-01.62-056 Extracted: 08/06/2003 Analyzed: 08/06/2003 08:56
LCSD 2003/08/06-01.62-018 Extracted: 08/06/2003 Analyzed: 08/06/2003 09:18

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	11500	10900	10000	115.0	109.0	5.4	69-129	20		
Toluene	11200	10900	10000	112.0	109.0	2.7	70-130	20		
Methyl tert-butyl ether (MTBE)	11000	10300	10000	110.0	103.0	6.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	236	217	250	94.4	86.8		76-130			
Toluene-d8	282	266	250	112.8	106.4		78-115			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Legend and Notes

Analysis Flag

o

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

Result Flag

sh

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

SEVERN TRENT STL

Submission #: 2003-08-0130

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B11-4.0	08/04/2003 08:05	Soil	3
B11-8.0	08/04/2003 08:11	Soil	4
B11-16.0	08/04/2003 08:30	Soil	6
B13-4.0	08/04/2003 10:45	Soil	7
B13-8.0	08/04/2003 10:50	Soil	8
B13-16.0	08/04/2003 10:55	Soil	10
B14-8.0	08/04/2003 11:25	Soil	11
B14-12.0	08/04/2003 11:30	Soil	12
B14-16.0	08/04/2003 11:40	Soil	13
B15-8.0	08/04/2003 11:50	Soil	14

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**B11-4.0**	Lab ID:	2003-08-0130 - 3
Sampled:	08/04/2003 08:05	Extracted:	8/10/2003 11:15
Matrix:	Soil	QC Batch#:	2003/08/10-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3000	1000	ug/Kg	1.00	08/10/2003 11:15	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/10/2003 11:15	
Benzene	210	5.0	ug/Kg	1.00	08/10/2003 11:15	
Toluene	ND	5.0	ug/Kg	1.00	08/10/2003 11:15	
Ethyl benzene	120	5.0	ug/Kg	1.00	08/10/2003 11:15	
Total xylenes	44	5.0	ug/Kg	1.00	08/10/2003 11:15	
Surrogates(s)						
1,2-Dichloroethane-d4	111.0	70-121	%	1.00	08/10/2003 11:15	
Toluene-d8	92.8	81-117	%	1.00	08/10/2003 11:15	

Fuel Oxygenates by 8260B

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**B11-8.0**	Lab ID:	2003-08-0130 - 4
Sampled:	08/04/2003 08:11	Extracted:	8/10/2003 11:58
Matrix:	Soil	QC Batch#:	2003/08/10-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1700	1000	ug/Kg	1.00	08/10/2003 11:58	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/10/2003 11:58	
Benzene	27	5.0	ug/Kg	1.00	08/10/2003 11:58	
Toluene	ND	5.0	ug/Kg	1.00	08/10/2003 11:58	
Ethyl benzene	19	5.0	ug/Kg	1.00	08/10/2003 11:58	
Total xylenes	ND	5.0	ug/Kg	1.00	08/10/2003 11:58	
Surrogates(s)						
1,2-Dichloroethane-d4	101.9	70-121	%	1.00	08/10/2003 11:58	
Toluene-d8	99.1	81-117	%	1.00	08/10/2003 11:58	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B11-16.0	Lab ID:	2003-08-0130 - 6
Sampled:	08/04/2003 08:30	Extracted:	8/10/2003 15:55
Matrix:	Soil	QC Batch#:	2003/08/10-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	08/10/2003 15:55	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/10/2003 15:55	
Benzene	11	5.0	ug/Kg	1.00	08/10/2003 15:55	
Toluene	21	5.0	ug/Kg	1.00	08/10/2003 15:55	
Ethyl benzene	16	5.0	ug/Kg	1.00	08/10/2003 15:55	
Total xylenes	77	5.0	ug/Kg	1.00	08/10/2003 15:55	
Surrogates(s)						
1,2-Dichloroethane-d4	96.8	70-121	%	1.00	08/10/2003 15:55	
Toluene-d8	100.1	81-117	%	1.00	08/10/2003 15:55	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**B13-4.0**	Lab ID:	2003-08-0130 - 7
Sampled:	08/04/2003 10:45	Extracted:	8/11/2003 10:59
Matrix:	Soil	QC Batch#:	2003/08/11-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	08/11/2003 10:59	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/11/2003 10:59	
Benzene	ND	5.0	ug/Kg	1.00	08/11/2003 10:59	
Toluene	ND	5.0	ug/Kg	1.00	08/11/2003 10:59	
Ethyl benzene	ND	5.0	ug/Kg	1.00	08/11/2003 10:59	
Total xylenes	ND	5.0	ug/Kg	1.00	08/11/2003 10:59	
Surrogates(s)						
1,2-Dichloroethane-d4	107.8	70-121	%	1.00	08/11/2003 10:59	
Toluene-d8	95.0	81-117	%	1.00	08/11/2003 10:59	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B13-8.0	Lab ID:	2003-08-0130 - 8
Sampled:	08/04/2003 10:50	Extracted:	8/10/2003 17:22
Matrix:	Soil	QC Batch#:	2003/08/10-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	08/10/2003 17:22	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/10/2003 17:22	
Benzene	ND	5.0	ug/Kg	1.00	08/10/2003 17:22	
Toluene	5.6	5.0	ug/Kg	1.00	08/10/2003 17:22	
Ethyl benzene	ND	5.0	ug/Kg	1.00	08/10/2003 17:22	
Total xylenes	9.9	5.0	ug/Kg	1.00	08/10/2003 17:22	
Surrogates(s)						
1,2-Dichloroethane-d4	104.7	70-121	%	1.00	08/10/2003 17:22	
Toluene-d8	96.1	81-117	%	1.00	08/10/2003 17:22	

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B13-16.0	Lab ID:	2003-08-0130 - 10
Sampled:	08/04/2003 10:55	Extracted:	8/10/2003 17:43
Matrix:	Soil	QC Batch#:	2003/08/10-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	08/10/2003 17:43	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/10/2003 17:43	
Benzene	ND	5.0	ug/Kg	1.00	08/10/2003 17:43	
Toluene	ND	5.0	ug/Kg	1.00	08/10/2003 17:43	
Ethyl benzene	ND	5.0	ug/Kg	1.00	08/10/2003 17:43	
Total xylenes	ND	5.0	ug/Kg	1.00	08/10/2003 17:43	
Surrogates(s)						
1,2-Dichloroethane-d4	100.8	70-121	%	1.00	08/10/2003 17:43	
Toluene-d8	101.5	81-117	%	1.00	08/10/2003 17:43	

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Sample ID: **B14-8.0**
Sampled: 08/04/2003 11:25
Matrix: Soil

Test(s): 8260B
Lab ID: 2003-08-0130 - 11
Extracted: 8/10/2003 18:05
QC Batch#: 2003/08/10-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5200	1000	ug/Kg	1.00	08/10/2003 18:05	g
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/10/2003 18:05	
Benzene	ND	5.0	ug/Kg	1.00	08/10/2003 18:05	
Toluene	ND	5.0	ug/Kg	1.00	08/10/2003 18:05	
Ethyl benzene	ND	5.0	ug/Kg	1.00	08/10/2003 18:05	
Total xylenes	ND	5.0	ug/Kg	1.00	08/10/2003 18:05	
Surrogates(s)						
1,2-Dichloroethane-d4	100.0	70-121	%	1.00	08/10/2003 18:05	
Toluene-d8	99.8	81-117	%	1.00	08/10/2003 18:05	

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B14-12.0**
Lab ID: 2003-08-0130 - 12
Sampled: 08/04/2003 11:30
Extracted: 8/10/2003 18:26
Matrix: Soil
QC Batch#: 2003/08/10-01.62
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	35000	4500	ug/Kg	4.55	08/10/2003 18:26	
Methyl tert-butyl ether (MTBE)	ND	23	ug/Kg	4.55	08/10/2003 18:26	
Benzene	ND	23	ug/Kg	4.55	08/10/2003 18:26	
Toluene	ND	23	ug/Kg	4.55	08/10/2003 18:26	
Ethyl benzene	ND	23	ug/Kg	4.55	08/10/2003 18:26	
Total xylenes	ND	23	ug/Kg	4.55	08/10/2003 18:26	
Surrogates(s)						
1,2-Dichloroethane-d4	98.6	70-121	%	4.55	08/10/2003 18:26	
Toluene-d8	98.0	81-117	%	4.55	08/10/2003 18:26	

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B14-16.0	Lab ID:	2003-08-0130 - 13
Sampled:	08/04/2003 11:40	Extracted:	8/10/2003 18:48
Matrix:	Soil	QC Batch#:	2003/08/10-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	08/10/2003 18:48	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/10/2003 18:48	
Benzene	ND	5.0	ug/Kg	1.00	08/10/2003 18:48	
Toluene	ND	5.0	ug/Kg	1.00	08/10/2003 18:48	
Ethyl benzene	ND	5.0	ug/Kg	1.00	08/10/2003 18:48	
Total xylenes	ND	5.0	ug/Kg	1.00	08/10/2003 18:48	
Surrogates(s)						
1,2-Dichloroethane-d4	100.0	70-121	%	1.00	08/10/2003 18:48	
Toluene-d8	100.3	81-117	%	1.00	08/10/2003 18:48	

Fuel Oxygenates by 8260B

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Received: 08/05/2003 16:40

Prep(s): 5030B
Test(s): 8260B
Sample ID: B15-8.0
Lab ID: 2003-08-0130 - 14
Sampled: 08/04/2003 11:50
Extracted: 8/11/2003 10:38
Matrix: Soil
QC Batch#: 2003/08/11-01.62
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	9000	4600	ug/Kg	4.59	08/11/2003 10:38	
Methyl tert-butyl ether (MTBE)	ND	23	ug/Kg	4.59	08/11/2003 10:38	
Benzene	54	23	ug/Kg	4.59	08/11/2003 10:38	
Toluene	ND	23	ug/Kg	4.59	08/11/2003 10:38	
Ethyl benzene	24	23	ug/Kg	4.59	08/11/2003 10:38	
Total xylenes	ND	23	ug/Kg	4.59	08/11/2003 10:38	
Surrogates(s)						
1,2-Dichloroethane-d4	95.7	70-121	%	4.59	08/11/2003 10:38	
Toluene-d8	98.5	81-117	%	4.59	08/11/2003 10:38	

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B
Method Blank

Soil

Test(s): 8260B
QC Batch # 2003/08/10-01.62

MB: 2003/08/10-01.62-036

Date Extracted: 08/10/2003 11:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	08/10/2003 11:36	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	08/10/2003 11:36	
Benzene	ND	5.0	ug/Kg	08/10/2003 11:36	
Toluene	ND	5.0	ug/Kg	08/10/2003 11:36	
Ethyl benzene	ND	5.0	ug/Kg	08/10/2003 11:36	
Total xylenes	ND	5.0	ug/Kg	08/10/2003 11:36	
Surrogates(s)					
1,2-Dichloroethane-d4	101.8	70-121	%	08/10/2003 11:36	
Toluene-d8	100.3	81-117	%	08/10/2003 11:36	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B
Method Blank

Soil

Test(s): 8260B
QC Batch # 2003/08/11-01.62

MB: 2003/08/11-01.62-016

Date Extracted: 08/11/2003 10:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	08/11/2003 10:16	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	08/11/2003 10:16	
Benzene	ND	5.0	ug/Kg	08/11/2003 10:16	
Toluene	ND	5.0	ug/Kg	08/11/2003 10:16	
Ethyl benzene	ND	5.0	ug/Kg	08/11/2003 10:16	
Total xylenes	ND	5.0	ug/Kg	08/11/2003 10:16	
Surrogates(s)					
1,2-Dichloroethane-d4	100.7	70-121	%	08/11/2003 10:16	
Toluene-d8	99.7	81-117	%	08/11/2003 10:16	

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike | **Soil** | **QC Batch # 2003/08/10-01.62**

LCS 2003/08/10-01.62-048 Extracted: 08/10/2003 Analyzed: 08/10/2003 09:48

LCSD 2003/08/10-01.62-010 Extracted: 08/10/2003 Analyzed: 08/10/2003 10:10

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	61.0	65.2	50.0	122.0	130.4	6.7	65-165	20		
Benzene	58.3	60.1	50.0	116.6	120.2	3.0	69-129	20		
Toluene	54.9	55.7	50.0	109.8	111.4	1.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	491	513	500	98.2	102.6		70-121			
Toluene-d8	501	505	500	100.2	101.0		81-117			

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2003/08/11-01.62**

LCS 2003/08/11-01.62-033 Extracted: 08/11/2003 Analyzed: 08/11/2003 09:33
LCSD 2003/08/11-01.62-055 Extracted: 08/11/2003 Analyzed: 08/11/2003 09:55

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	59.9	60.2	50.0	119.8	120.4	0.5	65-165	20		
Benzene	53.5	53.4	50.0	107.0	106.8	0.2	69-129	20		
Toluene	51.5	50.4	50.0	103.0	100.8	2.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	512	505	500	102.4	101.0		70-121			
Toluene-d8	513	505	500	102.6	101.0		81-117			

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2003/08/10-01.62**

B13-4.0 >> MS

Lab ID: 2003-08-0130 - 007

MS: 2003/08/10-01.62-038 Extracted: 08/10/2003

Analyzed: 08/10/2003 16:38

Dilution: 1.00

MSD: 2003/08/10-01.62-026 Extracted: 08/10/2003

Analyzed: 08/10/2003 17:00

Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	61.4	59.3	ND	49.0	125.3	119.3	4.9	65-165	20		
Benzene	49.9	49.4	ND	49.0	101.8	99.4	2.4	69-129	20		
Toluene	46.0	45.9	ND	49.0	93.9	92.4	1.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	536	511		500	107.2	102.2		70-121			
Toluene-d8	482	460		500	96.4	92.0		81-117			

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Legend and Notes

Analysis Flag

o

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

Result Flag

g

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

SEVERN TRENT STL

Submission #: 2003-08-0130

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B10-W	08/04/2003 09:00	Water	15
B12-W	08/04/2003 11:40	Water	16
B13-W	08/04/2003 11:00	Water	17
B15-W	08/04/2003 12:00	Water	18
B16-W	08/04/2003 12:45	Water	19
B17-W	08/04/2003 13:15	Water	20
B18-W	08/04/2003 14:20	Water	21
B20-W	08/04/2003 16:00	Water	22

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Sample ID: B10-W
Sampled: 08/04/2003 09:00
Matrix: Water

Test(s): 8260B
Lab ID: 2003-08-0130 - 15
Extracted: 8/14/2003 00:49
QC Batch#: 2003/08/13-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	190	50	ug/L	1.00	08/14/2003 00:49	
Methyl tert-butyl ether (MTBE)	1.3	0.50	ug/L	1.00	08/14/2003 00:49	
Benzene	16	0.50	ug/L	1.00	08/14/2003 00:49	
Toluene	36	0.50	ug/L	1.00	08/14/2003 00:49	
Ethylbenzene	6.6	0.50	ug/L	1.00	08/14/2003 00:49	
Total xylenes	30	1.0	ug/L	1.00	08/14/2003 00:49	
Surrogates(s)						
1,2-Dichloroethane-d4	110.9	76-114	%	1.00	08/14/2003 00:49	
Toluene-d8	104.2	88-110	%	1.00	08/14/2003 00:49	

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B12-W	Lab ID:	2003-08-0130 - 16
Sampled:	08/04/2003 11:40	Extracted:	8/14/2003 01:13
Matrix:	Water	QC Batch#:	2003/08/13-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	72	50	ug/L	1.00	08/14/2003 01:13	g
Methyl tert-butyl ether (MTBE)	1.6	0.50	ug/L	1.00	08/14/2003 01:13	
Benzene	ND	0.50	ug/L	1.00	08/14/2003 01:13	
Toluene	ND	0.50	ug/L	1.00	08/14/2003 01:13	
Ethylbenzene	2.0	0.50	ug/L	1.00	08/14/2003 01:13	
Total xylenes	ND	1.0	ug/L	1.00	08/14/2003 01:13	
Surrogates(s)						
1,2-Dichloroethane-d4	106.1	76-114	%	1.00	08/14/2003 01:13	
Toluene-d8	98.6	88-110	%	1.00	08/14/2003 01:13	

Fuel Oxygenates by 8260B

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Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B13-W**
Lab ID: 2003-08-0130 - 17
Sampled: 08/04/2003 11:00
Extracted: 8/14/2003 01:37
Matrix: Water
QC Batch#: 2003/08/13-2B.66
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	17000	500	ug/L	10.00	08/14/2003 01:37	g
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	10.00	08/14/2003 01:37	
Benzene	58	5.0	ug/L	10.00	08/14/2003 01:37	
Toluene	ND	5.0	ug/L	10.00	08/14/2003 01:37	
Ethylbenzene	620	5.0	ug/L	10.00	08/14/2003 01:37	
Total xylenes	29	10	ug/L	10.00	08/14/2003 01:37	
Surrogates(s)						
1,2-Dichloroethane-d4	113.9	76-114	%	10.00	08/14/2003 01:37	
Toluene-d8	102.3	88-110	%	10.00	08/14/2003 01:37	

Fuel Oxygenates by 8260B

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Received: 08/05/2003 16:40

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B15-W**
Lab ID: 2003-08-0130 - 18
Sampled: 08/04/2003 12:00
Extracted: 8/14/2003 02:00
Matrix: Water
QC Batch#: 2003/08/13-2B.66
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	72000	2500	ug/L	50.00	08/14/2003 02:00	g
Methyl tert-butyl ether (MTBE)	ND	25	ug/L	50.00	08/14/2003 02:00	
Benzene	790	25	ug/L	50.00	08/14/2003 02:00	
Toluene	ND	25	ug/L	50.00	08/14/2003 02:00	
Ethylbenzene	950	25	ug/L	50.00	08/14/2003 02:00	
Total xylenes	530	50	ug/L	50.00	08/14/2003 02:00	
Surrogates(s)						
1,2-Dichloroethane-d4	129.8	76-114	%	50.00	08/14/2003 02:00	sh
Toluene-d8	102.1	88-110	%	50.00	08/14/2003 02:00	

Fuel Oxygenates by 8260B

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Received: 08/05/2003 16:40

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B16-W**
Lab ID: 2003-08-0130 - 19
Sampled: 08/04/2003 12:45
Extracted: 8/14/2003 05:35
Matrix: Water
QC Batch#: 2003/08/13-2B.66
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4100	250	ug/L	5.00	08/14/2003 05:35	
Methyl tert-butyl ether (MTBE)	ND	2.5	ug/L	5.00	08/14/2003 05:35	
Benzene	59	2.5	ug/L	5.00	08/14/2003 05:35	
Toluene	100	2.5	ug/L	5.00	08/14/2003 05:35	
Ethylbenzene	100	2.5	ug/L	5.00	08/14/2003 05:35	
Total xylenes	440	5.0	ug/L	5.00	08/14/2003 05:35	
Surrogates(s)						
1,2-Dichloroethane-d4	113.0	76-114	%	5.00	08/14/2003 05:35	
Toluene-d8	104.2	88-110	%	5.00	08/14/2003 05:35	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B17-W**
Lab ID: 2003-08-0130 - 20
Sampled: 08/04/2003 13:15
Extracted: 8/12/2003 23:26
Matrix: Water
QC Batch#: 2003/08/12-1B.64
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	16000	250	ug/L	5.00	08/12/2003 23:26	
Methyl tert-butyl ether (MTBE)	ND	2.5	ug/L	5.00	08/12/2003 23:26	
Benzene	7.5	2.5	ug/L	5.00	08/12/2003 23:26	
Toluene	3.6	2.5	ug/L	5.00	08/12/2003 23:26	
Ethylbenzene	390	2.5	ug/L	5.00	08/12/2003 23:26	
Total xylenes	420	5.0	ug/L	5.00	08/12/2003 23:26	
Surrogates(s)						
1,2-Dichloroethane-d4	102.3	76-114	%	5.00	08/12/2003 23:26	
Toluene-d8	87.1	88-110	%	5.00	08/12/2003 23:26	slm

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacomettl

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s): 5030B
Sample ID: **B18-W**
Sampled: 08/04/2003 14:20
Matrix: Water

Test(s): 8260B
Lab ID: 2003-08-0130 - 21
Extracted: 8/14/2003 14:49
QC Batch#: 2003/08/14-2D.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	74	50	ug/L	1.00	08/14/2003 14:49	g
Methyl tert-butyl ether (MTBE)	1.1	0.50	ug/L	1.00	08/14/2003 14:49	
Benzene	ND	0.50	ug/L	1.00	08/14/2003 14:49	
Toluene	ND	0.50	ug/L	1.00	08/14/2003 14:49	
Ethylbenzene	ND	0.50	ug/L	1.00	08/14/2003 14:49	
Total xylenes	ND	1.0	ug/L	1.00	08/14/2003 14:49	
Surrogates(s)						
1,2-Dichloroethane-d4	95.7	76-114	%	1.00	08/14/2003 14:49	
Toluene-d8	103.6	88-110	%	1.00	08/14/2003 14:49	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B20-W	Lab ID:	2003-08-0130 - 22
Sampled:	08/04/2003 16:00	Extracted:	8/13/2003 00:11
Matrix:	Water	QC Batch#:	2003/08/12-1B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/13/2003 00:11	
Methyl tert-butyl ether (MTBE)	0.98	0.50	ug/L	1.00	08/13/2003 00:11	
Benzene	1.0	0.50	ug/L	1.00	08/13/2003 00:11	
Toluene	0.62	0.50	ug/L	1.00	08/13/2003 00:11	
Ethylbenzene	0.50	0.50	ug/L	1.00	08/13/2003 00:11	
Total xylenes	1.2	1.0	ug/L	1.00	08/13/2003 00:11	
Surrogates(s)						
1,2-Dichloroethane-d4	100.7	76-114	%	1.00	08/13/2003 00:11	
Toluene-d8	88.3	88-110	%	1.00	08/13/2003 00:11	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Glacomettl

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/08/12-1B.64-017

Water

Test(s): 8260B
QC Batch # 2003/08/12-1B.64
Date Extracted: 08/12/2003 18:17

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/12/2003 18:17	
Benzene	ND	0.5	ug/L	08/12/2003 18:17	
Toluene	ND	0.5	ug/L	08/12/2003 18:17	
Ethylbenzene	ND	0.5	ug/L	08/12/2003 18:17	
Total xylenes	ND	1.0	ug/L	08/12/2003 18:17	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/12/2003 18:17	
Surrogates(s)					
1,2-Dichloroethane-d4	87.9	76-114	%	08/12/2003 18:17	
Toluene-d8	89.4	88-110	%	08/12/2003 18:17	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B
Method Blank

Water

Test(s): 8260B
QC Batch # 2003/08/13-2B.66

MB: 2003/08/13-2B.66-025

Date Extracted: 08/14/2003 00:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/14/2003 00:25	
Gasoline	ND	50	ug/L	08/14/2003 00:25	
Benzene	ND	0.5	ug/L	08/14/2003 00:25	
Toluene	ND	0.5	ug/L	08/14/2003 00:25	
Ethylbenzene	ND	0.5	ug/L	08/14/2003 00:25	
Total xylenes	ND	1.0	ug/L	08/14/2003 00:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/14/2003 00:25	
Surrogates(s)					
1,2-Dichloroethane-d4	95.8	76-114	%	08/14/2003 00:25	
Toluene-d8	97.6	88-110	%	08/14/2003 00:25	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/08/14-2D.62-050

Water

Test(s): 8260B
QC Batch # 2003/08/14-2D.62
Date Extracted: 08/14/2003 11:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/14/2003 11:50	
Benzene	ND	0.5	ug/L	08/14/2003 11:50	
Toluene	ND	0.5	ug/L	08/14/2003 11:50	
Ethylbenzene	ND	0.5	ug/L	08/14/2003 11:50	
Total xylenes	ND	1.0	ug/L	08/14/2003 11:50	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/14/2003 11:50	
Surrogates(s)					
1,2-Dichloroethane-d4	88.4	76-114	%	08/14/2003 11:50	
Toluene-d8	101.1	88-110	%	08/14/2003 11:50	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2003/08/12-1B.64**

LCS 2003/08/12-1B.64-033 Extracted: 08/12/2003 Analyzed: 08/12/2003 17:33
LCSD 2003/08/12-1B.64-046 Extracted: 08/12/2003 Analyzed: 08/12/2003 19:46

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	19.1	20.5	25	76.4	82.0	7.1	69-129	20		
Toluene	21.6	21.6	25	86.4	86.4	0.0	70-130	20		
Methyl tert-butyl ether (MTBE)	18.3	19.1	25	73.2	76.4	4.3	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448	440	500	89.6	88.0		76-114			
Toluene-d8	440	481	500	88.0	96.2		88-110			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2003/08/13-2B.66**

LCS 2003/08/13-2B.66-037 Extracted: 08/13/2003 Analyzed: 08/13/2003 23:37
LCSD 2003/08/13-2B.66-001 Extracted: 08/14/2003 Analyzed: 08/14/2003 00:01

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	27.4	29.5	25	109.6	118.0	7.4	69-129	20		
Toluene	26.0	29.1	25	104.0	116.4	11.3	70-130	20		
Methyl tert-butyl ether (MTBE)	25.8	29.1	25	103.2	116.4	12.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	535	540	500	107.0	108.0		76-114			
Toluene-d8	508	503	500	101.6	100.6		88-110			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2003/08/14-2D.62**

LCS 2003/08/14-2D.62-005 Extracted: 08/14/2003 Analyzed: 08/14/2003 11:05
LCSD 2003/08/14-2D.62-028 Extracted: 08/14/2003 Analyzed: 08/14/2003 11:28

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	23.0	25.1	25	92.0	100.4	8.7	69-129	20		
Toluene	23.1	24.7	25	92.4	98.8	6.7	70-130	20		
Methyl tert-butyl ether (MTBE)	21.9	25.0	25	87.6	100.0	13.2	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	458	465	500	91.6	93.0		76-114			
Toluene-d8	506	511	500	101.2	102.2		88-110			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6725-001.02
921 98th Ave.

Received: 08/05/2003 16:40

Legend and Notes

Analysis Flag

o

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

Result Flag

g

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

sh

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

slm

Surrogate recoveries were lower than QC limits due to matrix interference.

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@chromalab.com

Reference #: 76650

2003-08-0130

Date 8/5/03 Page 1 of 3

Report To

Attn: ED GIACOMETTI

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 114 | E: egiacometti@accenv.com

Bill To: ACC ENVIRONMENTAL | Sampled By:

Attn: ED | Phone ext. 114

Analysis Request

Sample ID	Date	Time	Matrix	Pres.	TPH EPA - ☐ 8015/8021 ☐ 8260B w/ ☐ 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 ☐ Total (EPA 1664)	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	Number of Containers
B9-12.0	8/4/03	9:26	S	Cold	X																1
B10-12.0	8/4/03	9:40	S	Cold	X																1
B11-4.0	↓	8:06	↓	↓	X																1
B11-8.0		8:11			X																1
B11-12.0		8:25			X																1
B11-16.0		8:30			X																1
B13-4.0		10:45			X																1
B13-8.0		10:50			X																1
B13-12.0		10:40			X																1
B13-16.0	↓	10:55	↓	↓	X																1

Project Info.

Project Name: 921 98th Ave

Project#: 6725-001.02

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: 5.5°C

Conforms to record:

Other:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time:	Signature: Steve Time: 1500	Signature: Time:
Printed Name: ED GIACOMETTI Date: 8/5/03	Printed Name: Date: 8/5/03	Printed Name: Date:
Company: ACC ENVIRONMENTAL CONSULTANTS	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: Steve Time: 1115	Signature: Time:	Signature: [signature] Time: 1640
Printed Name: Date: 8/5/03	Printed Name: Date:	Printed Name: M. VILLANUEVA Date: 8/5/03
Company:	Company:	Company: STL SF

Rev 01/03

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@chromalab.com

2003-08-0130

Reference #: ______

Date 8/5/03 Page 2 of 3

Report To

Attn: ED GIACOMETTI

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 114 E: egiacometti@accenv.com

Bill To: ACC ENVIRONMENTAL

Sampled By:

Attn: ED

Phone ext: 114

Analysis Request

Analysis columns: 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 ☐ Total (EPA 1664); 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 H₂O) ☐; Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐; Anions: ☐ Cl ☐ SO₄ ☐ NO₃ ☐ F ☐ Br ☐ NO₂ ☐ PO₄; Number of Containers

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA (Gas w/ BTEX, MTBE)	Number of Containers
B14-8.0	8/4/03	11:25	S	GH	X	1
B14-12.0	|	11:30	S	GH	X	1
B14-16.0		11:41	S	GH	X	1
B15-8.0		11:55	S	GH	X	1
B10-W		9:00	H₂O	HCl/ice	X	3
B12-W		11:10			X	3
B13-W		11:00			X	3
B15-W		12:50			X	3
B16-W		12:45	↓		X	3
B17-W	↓	13:15		↓	X	3

Project Info.

Project Name: 921 98th Ave

Project#: 0725-001.02

PO#:

Credit Card#:

T A T: (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] Signature Time: ______
ED GIACOMETTI Printed Name Date: 8/5/03
ACC ENVIRONMENTAL CONSULTANTS Company

2) Relinquished by: Steve Signature Time: 1600
Printed Name Date: 8/5/03
Company

3) Relinquished by: Signature Time
Printed Name Date
Company

1) Received by: Steve Signature Time: 11:55
Printed Name Date: 8/5/03
Company

2) Received by: Signature Time
Printed Name Date
Company

3) Received by: [signature] Signature Time: 1640
M. VILLANUEVA Printed Name Date: 8/5/03
STL SF Company

Rev 01/03

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@chromalab.com

2003-08-0130

Reference #: _____

Date 8/5/03 Page 3 of 3

Report To

Attn: ED GIACOMETTI

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 114 E: egiacometti@acconv.com

Bill To: ACC ENVIRONMENTAL | Sampled By:

Attn: ED | Phone ext: 114

Analysis Request

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - ☐ 8015/8021 ☐ 8260 ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tags EPA 8260: ☐ Gas ☐ BTEX ☐ Fire 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: ___	WET (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					Number of Containers
B18-W	8/4/03	14:20	H2O	HCl/ice	X																						3
B20-W	8/4/03	10:00	H2O	HCl/ice	X																						3

Project Info.

Project Name: 921 98th Ave

Project#: 6725-001.02

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp:

Conforms to record:

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

Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ Stab Tank Fund EDF ☐ Global ID _____

Special Instructions / Comments:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Edward Giacometti	Signature: Steve	Signature:
Time: 8/5/03	Time: 1640	Time:
Printed Name: ED GIACOMETTI	Printed Name:	Printed Name:
Date: 8/5/03	Date: 8/5/03	Date:
Company: ACC ENVIRONMENTAL CONSULTANTS	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: Steve	Signature:	Signature: M. VILLANUEVA
Time: 1115	Time:	Time: 1640
Printed Name:	Printed Name:	Printed Name: M. VILLANUEVA
Date: 8/5/03	Date:	Date: 8/5/03
Company:	Company:	Company: STL SF

Rev 8/02