



CPT INVESTIGATION REPORT

at
Can-Am Plumbing
151 Wyoming Street
Pleasanton, California

Report No.25-948162.7
Alameda County Site #RO0002425

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Alameda County
Environmental Health

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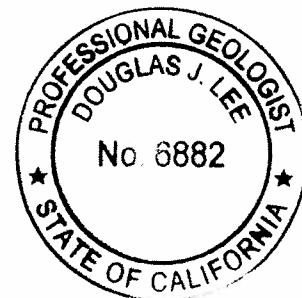
Marty O'Gara
Can-Am Plumbing Inc.
151 Wyoming Street
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Prepared by:

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May 30, 2008

TABLE OF CONTENTS

INTRODUCTION	1
SITE DESCRIPTION	1
PREVIOUS ENVIRONMENTAL WORK	1
FIELD ACTIVITIES	4
SUBSURFACE CONDITIONS.....	5
CHEMICAL ANALYTICAL RESULTS.....	6
CONCLUSIONS AND RECOMMENDATIONS	6

TABLES

Table 1.	Groundwater Chemical Analytical Results
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FIGURES

Figure 1.	Vicinity Map
Figure 2.	Extended Site Plan

APPENDICES

Appendix A.	Field Methods and Procedures
Appendix B.	Drilling and Encroachment Permits
Appendix C.	CPT Logs
Appendix D.	Chemical Analytical Report and Chain-of-Custody Forms

CPT INVESTIGATION REPORT

at
Can-Am Plumbing Inc.
151 Wyoming Street
Pleasanton, California

Report No.25-948162.7
Alameda County Site #RO0002425

INTRODUCTION

This report presents the results of a subsurface investigation performed by Gettler-Ryan Inc. (GR) at the above referenced site. This work was performed at the request of Can-Am Plumbing to further evaluate the vertical and lateral extent of petroleum hydrocarbons in groundwater beneath the subject site. This work was performed in response to an Alameda County Environmental Health (ACEH) letter dated August 2, 2007, which requested the preparation of a Work Plan. The scope of work performed included: updating the site safety plan, obtaining the required encroachment and drilling permits, advancing four Cone Penetrometer Test (CPT) borings, collecting depth-discrete groundwater samples from hydropunch borings for chemical analysis, and preparing a report presenting the findings of the investigation. The scope of work performed during this investigation was originally proposed in GR report #25-948162.05-2, *Additional Subsurface Assessment Work Plan*, dated October 9, 2007 (Work Plan). The Work Plan was subsequently approved by the ACEH in a letter dated October 23, 2007.

SITE DESCRIPTION

The subject site is located at 151 Wyoming Street in Pleasanton, California (Figure 1). Topography in the vicinity of the subject site is relatively flat at an elevation of approximately 355 feet above mean sea level. The closest surface water is Arroyo Del Valle, which is approximately 640 feet south of the site. According to other environmental investigations in the area and regional topography, regional groundwater flow direction is to the north. Below ground facilities consisted of two 1,000-gallon gasoline underground storage tanks (USTs). The USTs were reportedly installed in 1972 and in use until June 1999 when they were removed. Pertinent site features and the location of the former USTs are shown on Figure 2.

PREVIOUS ENVIRONMENTAL WORK

On June 10, 1999, two 1,000 gallon single-wall fiberglass gasoline USTs, one dispenser, and related single-wall piping were removed by GR. GR personnel performed compliance sampling in conjunction with the UST removal.

The existing UST pit monitoring casing (W-1 on Figure 2) was allowed to remain in the UST excavation. Groundwater was encountered in the UST excavation at approximately 3.75 feet below ground surface (bgs). Two soil samples (X-1-3 and X-2-3) were collected from the sidewalls of the UST excavation at a depth of 3 feet bgs. The soil samples were reported as not detected for Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA 8015 modified, Benzene, Toluene, Ethylbenzene, and total xylenes (BTEX) by EPA Method 8020, and total lead by EPA Method 6010, except for 0.0050 parts per million (ppm) of benzene detected in X-1-3. Methyl tert-butyl ether (MtBE) by EPA Method 8020 was detected in X-1-3 and X-2-3 at concentrations of 3.3 ppm and 4.1 ppm, respectively.

Soil sample D-1-3 was collected from beneath the dispenser island at a depth of 3 feet bgs. Soil sample D-1-3 was reported as non detected for TPHg, benzene, and lead and contained 3.6 ppm of MtBE.

One grab groundwater sample was collected from UST pit monitoring casing W-1. The sample contained 39,000 parts per billion (ppb) of TPHg, 1,100 ppb of benzene, and 100,000 ppb of MtBE (GR Report No. 1113.01, *Compliance Soil Sampling Report*, dated July 6, 1999).

Two on-site soil borings were drilled on January 21, 2000 and completed as groundwater monitoring wells MW-1 and MW-2. The wells were installed to a total depth of approximately 32 feet bgs. TPHg, BTEX and MtBE were not detected in the four soil samples collected from well boring MW-1. TPHg and BTEX were not detected in the six soil samples collected from well boring MW-2. MtBE was detected in five of the six samples from well boring MW-2 at concentrations of 0.12 ppm to 3.6 ppm.

Well MW-1 was developed on January 26, 2000. Depth to groundwater in wells MW-1 and MW-2 were measured and each well checked for the presence of floating product prior to development. Well MW-2 was found to be dry, therefore it was not developed. Well MW-1 dewatered during development, yielding only five well volumes. On January 31, 2000, a groundwater sample was collected from MW-1 and well MW-2 was again found to be dry. The two wells and UST pit monitoring casing W-1 were monitored on February 18 and 24, 2000. Groundwater was observed in well MW-2 on February 18, 2000 and the well was developed on February 24, 2000 at which time it dewatered after yielding approximately four well volumes. Wells MW-1 and MW-2 were monitored and sampled again on May 11, 2000. In addition, grab groundwater samples were collected from UST pit monitoring casing W-1 on January 27, February 24, and May 11, 2000.

Groundwater samples collected from well MW-1 on January 31 and May 11, 2000 were reported as not detected for all analytes. Groundwater sample MW-2, collected on May 11, 2000, contained 11,000 ppb of MtBE by EPA Method 8020, 12,000 ppb of MtBE by EPA Method 8260, and TPHg and BTEX were reported as not detected due to elevated detection levels (GR Report No. 948162.02-2, *Well Installation Report*, dated February 1, 2001).

Perched groundwater has been removed intermittently from UST pit monitoring casing W-1, starting on October 12, 1999. A total of 4,625 gallon of groundwater were removed from the former UST excavation on four separate occasions between October 12 and November 8, 1999. As of August 6, 2002, a total of 12,355 gallon of groundwater have been removed from W-1 by Nor Cal Oil and transported under uniform hazardous waste manifest to the Americlean, Inc. facility in Silver Springs, Nevada for disposal.

Three groundwater samples were collected from UST pit monitoring casing W-1 during the course of the pit dewatering activities. The groundwater sample collected on January 27, 2000 contained 8,300 ppb of TPHg, 1,900 ppb of MtBE, and benzene was reported as not detected (with elevated detection limits). The groundwater sample collected on February 24, 2000 contained 7,800 ppb of TPHg, 1,300 ppb of MtBE, and benzene was reported as not detected with an elevated detection limit. The groundwater sample collected on May 11, 2000 contained 130 ppb of TPHg, 3.5 ppb of benzene, 600 ppb of MtBE by EPA Method 8020, and 730 ppb of MtBE by EPA Method 8260 (GR Report No. 948162.02, *Soil Boring, Well Installation and Groundwater Sampling Report*, dated January 12, 2004).

On September 5, 2002, GR advanced one Geoprobe soil boring B-1 to 32 feet (drilling refusal depth). Soil samples B-1-20.5, B-1-23.5 and B-1-27.5 were collected from the soil boring. The soil boring was temporarily sealed with bentonite so it could be redrilled with hollow stem auger drilling equipment. On October 31, and November 1, 2002, GR installed soil borings B-2 and B-3 and groundwater monitoring well MW-3. Soil boring B-1 was overdrilled and deepened to 40 feet bgs. TPHg, BTEX, MtBE, ethanol, tert-butanol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB) were not detected in any of the soil samples collected from soil boring B-1. TPHg, BTEX, ethanol, DIPE, ETBE, 1,2-DCA, TAME, and EDB were not detected in soil samples from soil borings B-2, B-3, and well boring MW-3. In soil boring B-2, MtBE and TBA were detected in sample B-2-36 at concentrations 0.28 ppb and 0.067 ppb, respectively, and were in sample B-2-40.5 at concentrations of 0.34 ppm and 0.17 ppm, respectively. MtBE was detected in samples B-3-39 and MW-3-41 at concentrations of 0.0052 ppm and 0.029 ppm, respectively (GR Report No. 948162.02, *Soil Boring, Well Installation and Groundwater Sampling Report*, dated January 12, 2004).

On May 8 through 10, 2006, GR installed groundwater monitoring wells MW-1A, MW-2A, and MW-3A and piezometers PZ-1 through PZ-7. During this investigation, GR identified groundwater occurring at 3 different depths. GR grouped piezometers PZ-1 through PZ-7 and tank backfill well W-1 in the A zone, wells MW-1, MW-2, and MW-3 in the B zone, and wells MW-1A, MW-2A, and MW-3A in the C zone. TPHg, BTEX, MtBE, ETBE, DIPE, TAME and TBA concentrations were below laboratory reported method detection limits in soil samples collected from MW-1A. In well MW-2A, MtBE concentrations were detected in each sample collected from 10 feet through 50 feet bgs and ranged in concentrations from 0.12 ppm at 25 and 38.5 feet bgs to 1.3 ppm at 5 feet bgs. In well MW-3A, MtBE was detected at concentrations of 0.026 ppm and 0.0070 ppm at 10 feet bgs and 15 feet bgs, respectively. In soil samples collected at 10 feet bgs from PZ-1 through PZ-7, MtBE concentrations ranged from 0.0015 ppm in PZ-3 to 1.9 ppm in PZ-4.

TPHg, BTEX, DIPE and ETBE concentrations were below laboratory reported method detection limits in groundwater samples collected from wells MW-1A, MW-2A, and MW-3A. MtBE concentrations ranged from 3.9 ppb in groundwater sample PZ-3 to 5,300 ppb in groundwater sample MW-2A. TAME and TBA was detected in groundwater sample MW-2A at concentrations of 61 ppb and 860 ppb, respectively.

On April 9, 2007, GR advanced soil borings GP-1 through GP-7. TPHg, BTEX, MtBE, ETBE, DIPE, TAME and TBA concentrations were below laboratory reported method detection limits in soil samples collected from GP-6 and GP-7. In soil samples collected at 10 feet bgs from GP-1 through GP-5, MtBE concentrations ranged from 0.24 ppm in GP-3 to 0.68 ppm in GP-4.

On April 10 and April 11, 2007, GR installed groundwater monitoring wells MW-4 and MW-5. TPHg, BTEX, ETBE, DIPE, and TAME concentrations were below laboratory reported method detection limits in soil samples collected from well borings MW-4 and MW-5. MtBE concentrations were detected in each sample collected from well boring MW-4 from 10 to 50 feet bgs, except at 29.5 feet bgs, and ranged in concentrations from 0.051 ppm at 39.5 feet bgs to 0.14 ppm at 49.5 feet bgs. TAME concentrations of 0.0056 ppm and 0.021 ppm were detected in 20.5 foot sample interval and 49.5 foot sample interval, respectively, of well boring MW-4.

MtBE concentrations were detected in the 30, 40 and 50.5 foot sample intervals of well boring MW-5 at concentrations of 0.0089 ppm, 0.022 ppm, and 0.29 ppm, respectively. With the exception of a TBA concentration of 0.021 ppm in the 50.5 foot sample interval, TBA concentrations were below laboratory reported method detection limits in each sample collected from well boring MW-5.

On April 17, 2007, GR advanced Cone Penetrometer Test (CPT) boring CPT-1 to approximately 80 feet bgs and collected two depth discrete groundwater samples at 70 feet and 80 feet bgs.

TPHg, BTEX, DIPE and ETBE concentrations were below laboratory reported method detection limits in groundwater samples collected from wells MW-4 and MW-5 and depth-discrete groundwater samples collected from boring CPT-1. MtBE concentrations ranged from 1.8 ppb in depth-discrete groundwater sample CPT1-80 to 2,600 ppb in depth discrete groundwater sample CPT1-70. TAME and TBA concentrations were below laboratory reported method detection limits in depth-discrete groundwater sample CPT1-80. TAME concentrations ranged from 22 ppb in groundwater sample MW-5 to 31 ppb in MW-4, respectively. TBA concentrations ranged from 130 ppb in groundwater sample MW-5 to 300 ppb in MW-4, respectively (GR Report No. 25-948162.6, *Site Investigation Report*, dated June 25, 2007).

FIELD ACTIVITIES

To further evaluate the vertical and lateral extent of petroleum hydrocarbons in groundwater beneath the subject site, GR advanced 4 CPT borings at the locations shown on Figure 2. Field work was performed in accordance with GR's Site Safety Plan, dated February 2008. GR Field Methods and Procedures are included in Appendix A. Copies of drilling permit no. 28010 from Zone 7 Water Agency and City of Pleasanton encroachment permit no. ENCR 201694 are included in Appendix B. Underground Service Alert was notified prior to beginning site activities. The CPT borings were installed by Gregg Drilling and Testing Inc. (C57 #485165).

GR advanced CPT borings CPT-2, CPT-3, and CPT-4 on February 21 and 22, 2008 and CPT-5 on April 11, 2008 at the locations shown on Figure 2. The CPT rig advances the borings hydraulically without generating soil cuttings. A GR geologist monitored the field activities. The first CPT boring was advanced in order to obtain soil stratigraphy and hydrogeologic data. The second, third and fourth borings, as needed, were located in close proximity to the first CPT boring and were used to advance a hydropunch sampling tool to collect depth-discrete groundwater samples. All CPT and hydropunch borings were hand-augered to 5 feet bgs prior to being hydraulically advanced, to verify the absence of subsurface utilities.

Boring CPT-2 was advanced to the depth of 46 feet bgs, and was extended beyond the proposed depth of 40 feet bgs due to the stratigraphy encountered. Based upon the soil stratigraphy and hydrogeologic data collected from the first boring of CPT-2, a sample interval of 31- to 45 feet bgs was identified. A hydropunch was advanced in boring CPT2-43 (Figure 2) and opened to collect groundwater from 39 feet to 43 feet bgs. No groundwater was initially encountered in the sample interval of 39 feet to 43 feet bgs. The hydropunch tool was allowed to remain open for one hour to allow groundwater to enter. However, after one hour had elapsed, no water was present in the sample interval and therefore no water sample was collected from CPT2-43.

Boring CPT-3 was advanced to the depth of 65 feet bgs, the depth of CPT rig refusal. Based upon the soil stratigraphy and hydrogeologic data collected from CPT-3, four discrete permeable zones were identified at 26 feet to 29 feet bgs, 33 feet to 41 feet bgs, 47 feet to 51 feet bgs and 61 to 65 feet bgs. No water was initially encountered in the 26 to 30 foot bgs and 33 to 41 feet bgs hydropunch sample intervals accessed in boring CPT3-30, 37 (Figure 2). These two sample intervals remained open for 15 minutes each to allow groundwater to enter. However, no water was present in either sample interval, therefore no water sample was collected from the 26 to 30 foot or 32 to 41 foot sample interval in CPT3-30, 37. Depth discrete groundwater samples CPT3-51 and CPT3-65 were collected from their corresponding hydropunch borings from the 47 to 51 foot and 61 to 65 foot sample intervals, respectively.

Based upon the soil stratigraphy and hydrogeologic data collected from boring CPT-4, three relatively discrete permeable zones were identified at 37 feet to 40.5 feet, 46 feet to 51.5 feet and 56 to 64 feet bgs, the total depth explored due to rig refusal. No water was initially encountered in the 37 to 40.5 foot sample interval accessed in CPT4-40.5. No groundwater sample was collected from CPT4-40.5 as no water was present in this interval after 15 minutes elapsed time. Depth discrete groundwater samples CPT4-51.5 and CPT4-64 were collected their corresponding borings (Figure 2) from the 47.5 to 51.5 foot and 60 to 64 foot sample intervals, respectively.

Boring CPT-5 was advanced to the depth of 80 feet bgs, the depth of CPT rig refusal. Three relatively discrete permeable zones were identified at 26 feet to 30 feet bgs, 34 feet to 52 feet bgs, and 67 to 80 feet bgs. No groundwater was initially encountered in any of three sample intervals accessed in hydropunch borings CPT5-30,52 and CPT5-72. In the 26 to 30 foot and 48 to 52 foot sample intervals (CPT5-30,52), no water was present in either sample interval after 15 minutes and therefore no groundwater samples were recovered. The 68 to 72 feet hydropunch sample interval (CPT5-72) was allowed to stand open for one hour, during which no groundwater accumulated and no sample was collected.

All groundwater samples collected were submitted for chemical analysis. Upon completion the borings were backfilled to one foot bgs with neat cement and completed to ground surface with native material. Detailed CPT logs are included in Appendix C.

SUBSURFACE CONDITIONS

Based on the results of the CPT borings CPT-2 through CPT-5, the subsurface lithology consists of clay and silt generally extending from 5 feet to approximately 25 feet bgs, except in boring CPT-4, in which these fine grained soils extend from 5 to 36 feet bgs.

Interbedded silty sand and sand, previously identified as the B groundwater zone, were encountered in CPT-2, CPT-3, CPT-5 generally from 25 to 30 feet bgs and were not present in CPT-4. Clay, silt and clayey silt were encountered at approximately 28 to 30 feet in CPT-2, CPT-3, and CPT-5.

Interbedded sands and silty sands were encountered from 32 to 34 feet bgs and extend to approximately 52 feet bgs. These coarse-grained soils are interbedded with varying intervals of fine grained soil; intervals that are very limited in CPT-2 and CP-5 and have more significant presence in CPT-3 and CPT-4. Coarse-grained soils were consistently present at depths of 46 to 52 feet bgs and are interpreted as the bottom of the previously identified C groundwater zone.

Silts, sandy and clayey silts were consistently encountered from 52 to 60 feet in CPT-3 through CPT-5. These fine-grained soils extended to 66 feet bgs in CPT-5 and are interbedded with silty sand in CPT-4. Sands and silty sands are encountered below this fine grained interval and extend to the total depths explored, as deep as 80 feet bgs in CPT-05. These coarse-grained soils comprise the previously identified deep groundwater zone. Many of these sands are very dense and are interpreted as cemented sands by the CPT logging equipment (dark gray intervals in the CPT logs, Appendix C). Encountering and penetrating these dense cemented sands ultimately resulted in rig refusal in CPT-3 through CPT-5.

Groundwater was not encountered in the B groundwater zone. Groundwater was encountered in C and deep groundwater zones but was not encountered in these zones in CPT-5, as outlined in the previous section.

CHEMICAL ANALYTICAL RESULTS

A total of four depth-discrete groundwater samples from the CPT borings were submitted for chemical analysis. Groundwater samples were submitted under chain-of-custody protocol to Kiff Analytical (ELAP #2236) for chemical analysis. Groundwater samples were analyzed for TPHg, BTEX, MtBE, ETBE, DIPE, TAME, and TBA by EPA Method 8260B.

Copies of the laboratory reports and chain-of-custody forms are included in Appendix D. Groundwater chemical analytical data are summarized in Table 1.

TPHg, BTEX, DIPE, ETBE, TAME and TBA concentrations were below laboratory reported method detection limits in depth-discrete groundwater samples collected from boring CPT-3 and CPT-4. MtBE was detected at concentrations of 0.98 ppb in depth-discrete groundwater sample CPT4-51.5 and 1.4 ppb in depth discrete groundwater sample CPT3-51 and were below the laboratory method detection reporting limits in depth discrete samples CPT3-65 and CPT4-64.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this and previous investigations are the following observations and recommendations:

- Groundwater was not encountered in B groundwater zone (approximately 26 to 30 feet bgs) in any of the four CPT boring locations;

- Very low concentrations of MtBE were present in the C groundwater zone to the north and east of the site;
- MtBE was not present in the deep groundwater zone (60 to 65 feet bgs) to the north and east of the site; and
- MtBE concentrations in the C groundwater zone should be monitored to the north and east of the site. GR recommends that a monitoring well, with a screened interval in the C groundwater zone be installed in the vicinity of boring CPT-3, and boring CPT-4.

TABLES

Table 1
 Groundwater Chemical Analytical Results
 Can-Am Plumbing
 151 Wyoming Street
 Pleasanton, California

Sample ID	Sample Date	Sample Interval (feet)	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	TBA (ppb)
CPT3-51	2/21/2008	47-51	<50	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<0.50	<0.50	<5.0
CPT3-65	2/21/2008	61-65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0
CPT4-51.5	2/22/2008	47.5-51.5	<50	<0.50	<0.50	<0.50	<0.50	0.98	<0.50	<0.50	<0.50	<5.0
CPT4-64	2/22/2008	61-64	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0

Explanations:

ppb = parts per billion

TPHg = Total Petroleum Hydrocarbons as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

MtBE = Methyl tert-Butyl Ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl Tert-Butyl Ether

TAME = Tert-Amyl Methyl Ether

TBA = Tert-Butyl Alcohol

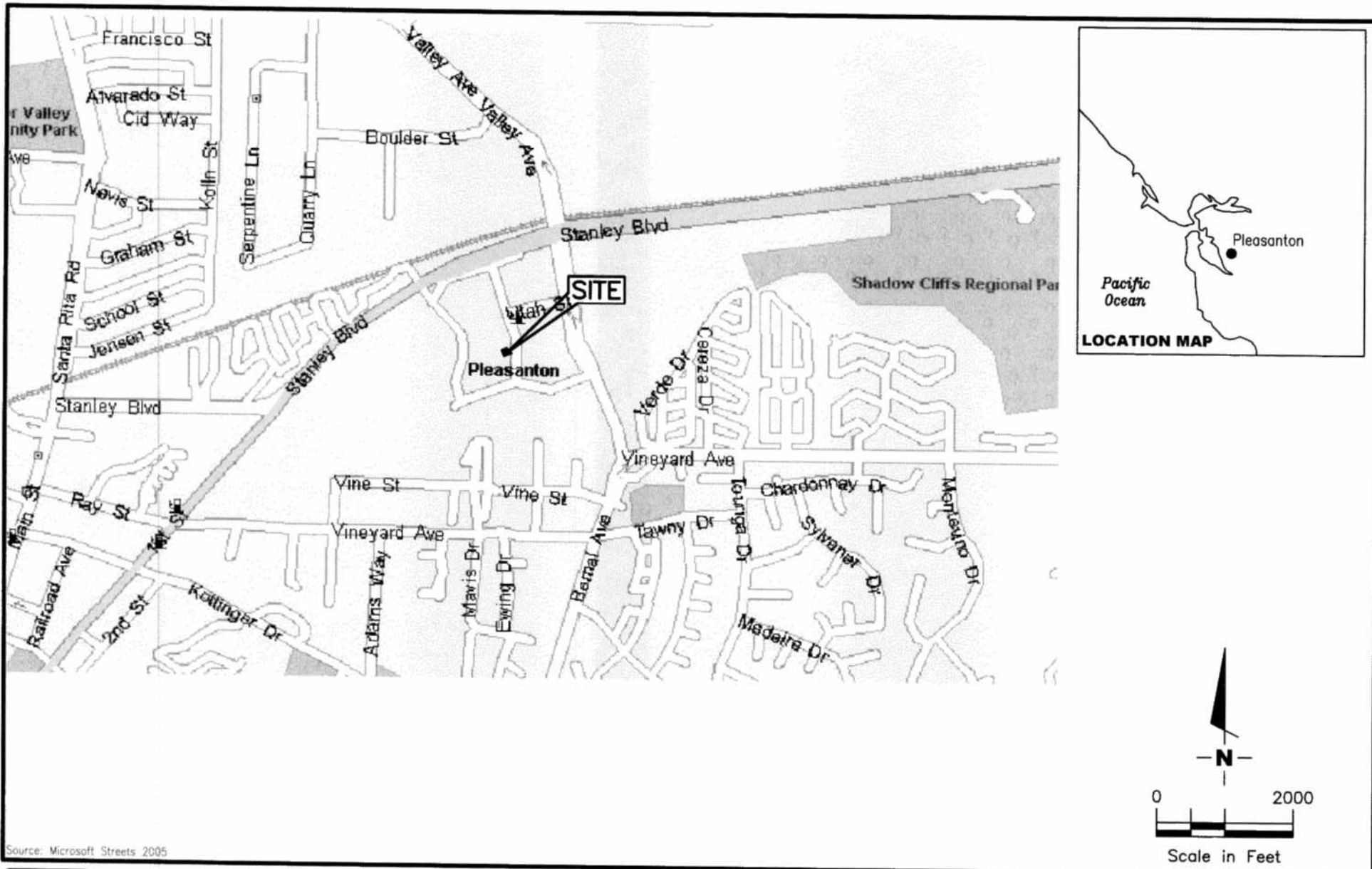
Analytical Laboratory:

Kiff Analytical (ELAP #2236)

Analytical Methods:

TPHg/BTEX/MtBE/DIPE/ETBE/TAME/TBA by EPA Method 8260B

FIGURES



Source: Microsoft Streets 2005

GR **GETTLER - RYAN INC.**
 6747 Sierra Court, Suite J
 Dublin, CA 94568 (925) 551-7555

VICINITY MAP
 Can-Am Plumbing
 151 Wyoming Street
 Pleasanton, California

FIGURE

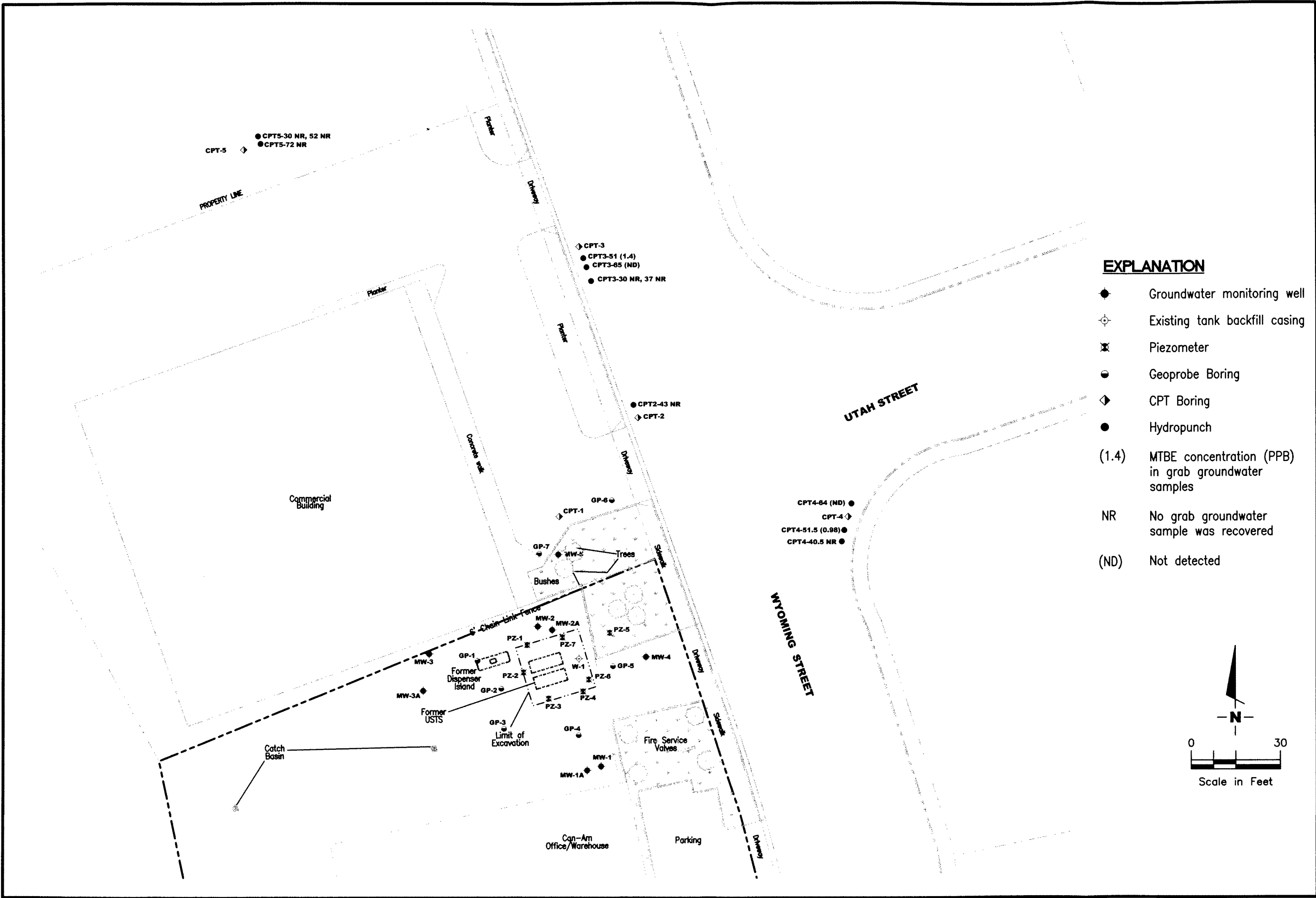
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PROJECT NUMBER
 948162.04

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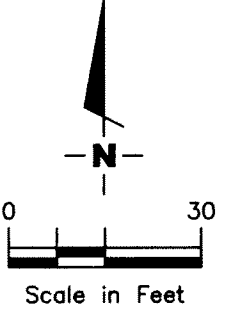
DATE
 01/06

REVISED DATE



EXPLANATION

- Groundwater monitoring well
- ⊕ Existing tank backfill casing
- ⊗ Piezometer
- Geoprobe Boring
- ◇ CPT Boring
- Hydropunch
- (1.4) MTBE concentration (PPB) in grab groundwater samples
- NR No grab groundwater sample was recovered
- (ND) Not detected



EXTENDED SITE PLAN
 Can-Am Plumbing
 151 Wyoming Street
 Pleasanton, California

GETTLER - RYAN INC.
 6747 Sierra Court, Suite J
 Dublin, CA 94568 (925) 551-7555

PROJECT NUMBER 25-948162.07
 DATE 2/21-22/08 and 4/11/08
 REVISION DATE
 .../Environmental/CAD drawings/Can-Am Plumbing/MIC-Can-Am Plumbing 9-20-07.dwg/Ext.SitePlan05-27

APPENDIX A

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES CONE PENETRATION TEST (CPT) BORINGS

Site Safety Plan

Field work performed by Gettler-Ryan Inc. (GR) is conducted in accordance with GR's Health and Safety Plan and the Site Safety Plan. GR personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The GR geologist or engineer at the site when the work is performed acts as the Site Safety Officer. GR utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Cone Penetration Test (CPT) borings are advanced by a California-licensed well driller. A GR geologist is present to observe the CPT operation and collect soil samples for physical testing and chemical analysis. The CPT rig advances a Piezo Cone Penetrometer, or Electronic Piezocone (CPTU) to provide soil stratigraphy, relative density, strength, and hydrologic information. All data is displayed in real time and is plotted and stored electronically. The CPT rig can also collect soil resistivity and seismic data if necessary. Soil samples obtained with a CPT rig are collected from the soil boring with a piston type soil-sampling device fitted with 1-inch-diameter, 8-inch-long, clean stainless steel sampling tubes. The CPT rig drives the sampling device to the desired sampling depth, then retracts the inner cone tip portion of the sampler and drives the sampling device 10 inches to retrieve the soil sample, and the filled sampler is then retrieved from the boring.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with Teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation. When requested by a regulatory agency, soil samples for chemical analysis will be collected as described by EPA Method 5035. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based on:

- a. depth relative to underground storage tanks and existing ground surface
- b. depth relative to known or suspected groundwater
- c. presence or absence of contaminant migration pathways
- d. presence or absence of discoloration or staining
- e. presence or absence of obvious gasoline hydrocarbon odors
- f. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves placing a plastic cap over the end of the tube and allowing the sample to sit for several minutes. The PID probe is then inserted through a hole in the cap and the atmosphere within tested. Head-space screening results are recorded on the boring log. Head-space

screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Discrete Groundwater Sampling

Discrete samples of groundwater are collected from the boring using a peristaltic pump. With the peristaltic pump, new Teflon tubing is placed in the pump prior to collection of each sample. The tubing is lowered into the boring through the CPT drive rod after groundwater has been allowed to collect. The peristaltic pump is used to evacuate water from the boring where it is discharged to laboratory-supplied containers appropriate for the anticipated analyses.

Following collection of the groundwater sample, the sample bottles are then labeled and placed in chilled storage for transport to the analytical laboratory. A chain-of-custody form is initiated in the field and accompanies the groundwater samples to the analytical laboratory.

Soil Vapor Sampling

Soil vapor samples are collected by advancing the CPT equipment to a discrete depth. Once the desired depth is attained, Teflon tubing is lowered through the inside diameter of the drive rods and connected either to a Tedlar bag or summa canister. The bottom portion of the drive rod is retracted and a vacuum is induced to purge a soil vapor sample. Used tubing is discarded after each sample.

APPENDIX B



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

100 NORTH CANYONS PARKWAY, LIVERMORE, CA 94551-9486

PHONE (925) 454-5000

January 18, 2008

Mr. Geoffrey Risse
Gettler-Ryan, Inc.
3140 Gold Camp Drive, Suite 170
Rancho Cordova, CA 95670

Dear Mr. Risse:

Enclosed is drilling permit 28010 for a contamination investigation at 151 Wyoming Street in Pleasanton for Can-Am Plumbing. Also enclosed is a current drilling permit application for your files. Drilling permit applications for future projects can also be downloaded from our web site at www.zone7water.com.

Please note that permit conditions A-2 and G requires that a report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, permit number and any analysis of the soil and water samples. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 5056 or Matt Katen at extension 5071.

Sincerely,

Wyman Hong
Water Resources Specialist

Enc.



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 151 Wyoming Street, Pleasanton

PERMIT NUMBER 28010

WELL NUMBER _____

APN 946-4542-005-01

PERMIT CONDITIONS

(Circled Permit Requirements Apply)

California Coordinates Source _____ ft. Accuracy: _____ ft.
CCN _____ ft. CCE _____ ft.
APN 946-4542-005-01

CLIENT
Name Can-Am Plumbing Inc.
Address 151 Wyoming Street Phone 925-846-1833
City Pleasanton Zip 94566

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects or drilling logs and location sketch for geotechnical projects.
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.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

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. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings

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

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after the completion of permitted work the well installation report including all soil and water laboratory analysis results.

APPLICANT
Name Gettler-Ryan Inc.
Address 3140 Gold Camp Dr. 170 Fax 916-631-1317
City Rancho Cordova Phone 916-631-1300
Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WELL USE

New Domestic	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Remediation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Groundwater Monitoring	<input type="checkbox"/>
Dewatering	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Hollow Stem Auger	<input type="checkbox"/>
Cable Tool	<input type="checkbox"/>	Direct Push	<input type="checkbox"/>	Other <u>CPT</u>	<input checked="" type="checkbox"/>

DRILLING COMPANY Gregg Drilling & Testing inc.
DRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter _____ in.	Maximum
Casing Diameter _____ in.	Depth _____ ft.
Surface Seal Depth _____ ft.	Number _____

SOIL BORINGS

Number of Borings <u>4</u>	Maximum
Hole Diameter <u>3</u> in.	Depth <u>80</u> ft.

ESTIMATED STARTING DATE 02/21/08
ESTIMATED COMPLETION DATE 02/22/08

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

APPLICANT'S SIGNATURE Geoffrey C. Risse Date 1/16/08
Geoffrey C. Risse

Approved Wyman Hong Date 1/18/08
Wyman Hong

ATTACH SITE PLAN OR SKETCH



PUBLIC WORKS PERMIT

-Inspections must be requested 24 Hours prior to Starting Work-

Project Address 3596 UTAH ST A	APN# 946 454202001	Permit #: ENCR 201694
Subdivision:	Tract #:	Lot:
Applicant GETTLER RYAN INC.		

Project: -

Owner GETTLER RYAN INC. 6747 SIERRA CT SUITE J DUBLIN, CA 94568 Phone: 925 551-7555	Contractor GETTLER RYAN INC. DUBLIN, CA 94568 GENERAL ENGINEERING 220793
---	--

Scope of Work ENCR-GW-SA ENCR FOR COLLECTING GROUND WATER SAMPLES
This permit is for collecting three ground water samples at their intersection of Wyoming Street/Utah Street as per attached drawing. The Reviewed traffic control plans shall apply. The applicant shall coordinate with the Zone 7 Water Agency for any applicable conditions prior to commencing work.

Comments
This permit is for collecting three ground water samples at their intersection of Wyoming Street/Utah Street as per attached drawing. The Reviewed traffic control plans shall apply. The applicant shall coordinate with the Zone 7 Water Agency for any applicable conditions prior to commencing work. The attached list of conditions shall apply, 1, 2,3,5,12,14,15,16 and 17.

Quantity	Description	Amount
	MISC ENCROACHMENT PERMIT	115.00

Entered: GJF

**CALL PUBLIC WORKS
INSPECTION 24 HRS
PRIOR TO START OF
WORK (925) 931-5680**

All work to be performed to City of Pleasanton Standard Details and Specifications. This permit is issued pursuant to all provisions of the City of Pleasanton Municipal Code, Chapter 13.04, Encroachment.

Total Fees: \$115.00 **Payment:** \$115.00

Issued By:  **Date of Issue:** 01-FEB-2008
Applicant or Agent:  **Date:** 2/13/08

Engineering Division: (925) 931-5650

Public Works Inspections: (925) 931-5680



PLEASANTON.

CONDITIONS FOR ENCROACHMENT PERMIT # 201694

1. Work area shall be clean at the end of each working day. No construction materials may be stored in street or sidewalk overnight. City of Pleasanton streets shall not be used for staging areas. If excessive debris accumulates to the dissatisfaction of the homeowners, business owners or the City due to construction activities, then the contractor shall be required to clean roadway and sidewalk areas during working hours. All cleaning methods used for construction shall conform to the Urban Runoff Program.
2. Work area shall be safe for vehicular, bicycle and pedestrian traffic. All driveways and other entrances to homes or businesses are to remain accessible at all times or other provisions for access must be made.
3. Landscaping damaged during the project shall be repaired to the owner's satisfaction. In the case of City owned and maintained landscaping, contact Parks Department at (925) 931-5565.
4. Traffic control shall conform to Cal-Trans standards.
5. Contractor to submit site-specific traffic control plan prior to the start of construction. (Traffic control plan must be received 48 hours prior to lane closure).
6. Concrete to be removed shall be removed to closest score mark outside work area. All replacement concrete must be doweled to existing concrete.
7. Removal of 6" of pavement required where gutter is to be removed. 6" slot shall be re-paved with AC deep lift after new gutter is in place.
8. Pipe or conduit that is installed in a trench over 5' in depth must be shored in accordance with applicable Cal-OSHA regulations.
9. When permission is granted for directional boring, existing utilities must be "potholed" to establish bore profile.
10. When permission is granted for directional boring in a landscaped area, the minimum bore depth shall be 42 inches, measured from the top of curb and not from the top of the landscape mound. Boring depths in no case shall be shallower than 42" of Cover unless approved by the City Engineer.
11. Structural trench backfill shall consist of:
 - A) Standard trenches: 3" min. AC on 10" of CTB (2 Sack mix) for minor streets.
 - B) Standard trenches: 3" min. AC on 15" of CTB (2-sack mix) for major streets.
 - C) Rock wheel trenching: 2" of AC on flowable concrete trench backfill. (City approved mix)
 - D) Backfill in sidewalk and landscape areas shall conform to City Specifications.
12. Permits may be required from other agencies having jurisdiction in area.
13. Haul route per attached sheet.
14. Permittee to call utility locating service (USA) at 1-800-642-2444 48 hours prior to beginning of work.
15. Work hours are from 8:00 a.m. to 5:00 p.m. Monday through Friday. Weekends, holidays and after-hours only upon written permission 48 hours in advance. (All overtime is subject to reimbursement).
16. The City Engineer or his authorized representative will be the sole judge of the quality of work, the interpretation of these conditions, and the interpretations of City specifications and/or City Details applicable to the project.
17. Contractor is responsible for removal of all USA marking.

PUBLIC WORKS

P. O. Box 520, Pleasanton, CA 94566-0802

Administration	Engineering	Traffic	Inspection	Operation Service Center
200 Old Bernal Rd	200 Old Bernal Rd	200 Old Bernal Rd.	205-F Main St.	3333 Busch Road
(925) 931-5650	(925) 931-5650	(925) 931-5650	(925) 931-5680	(925) 931-5500
(925) 931-5479	(925) 931-5479	(925) 931-5479	(925) 931-5484	(925) 931-5595

Description of Proposed Work

This work includes the drilling of two vertical soil borings at each of three locations as shown on the attached site plan. The borings will be advanced utilizing a Cone Penetrometer Test (CPT) rig that will advance the boring equipment hydraulically. The boreholes will be approximately 4-inches in diameter. Water samples will be collected from the borings. Once water sample are collected from the borings, each boring will be backfilled to surface grade with neat cement (per California Department of Water Resources requirements) and surface completed per City of Pleasanton requirements.



PERMIT RECEIPT

PERMIT: ENCR 201694 PERMIT ISSUED: 01-FEB-2008 GJF
 SCOPE ENCR FOR COLLECTING GROUND WATER SAMPLES
 This permit is for collecting three ground water samples at ther intersection of Wyoming Street/Utah Street
 APN: 946 454202001 TRACT: LOT:
 SITE: 3596 UTAH ST A

OWNER: GETTLER RYAN INC.
 6747 SIERRA CT SUITE J, DUBLIN, CA 94568

PROF.: GETTLER RYAN INC. 925 551-7555
 6747 SIERRA CT SUITE J, DUBLIN CA 94568 Local Business License Number: 940712

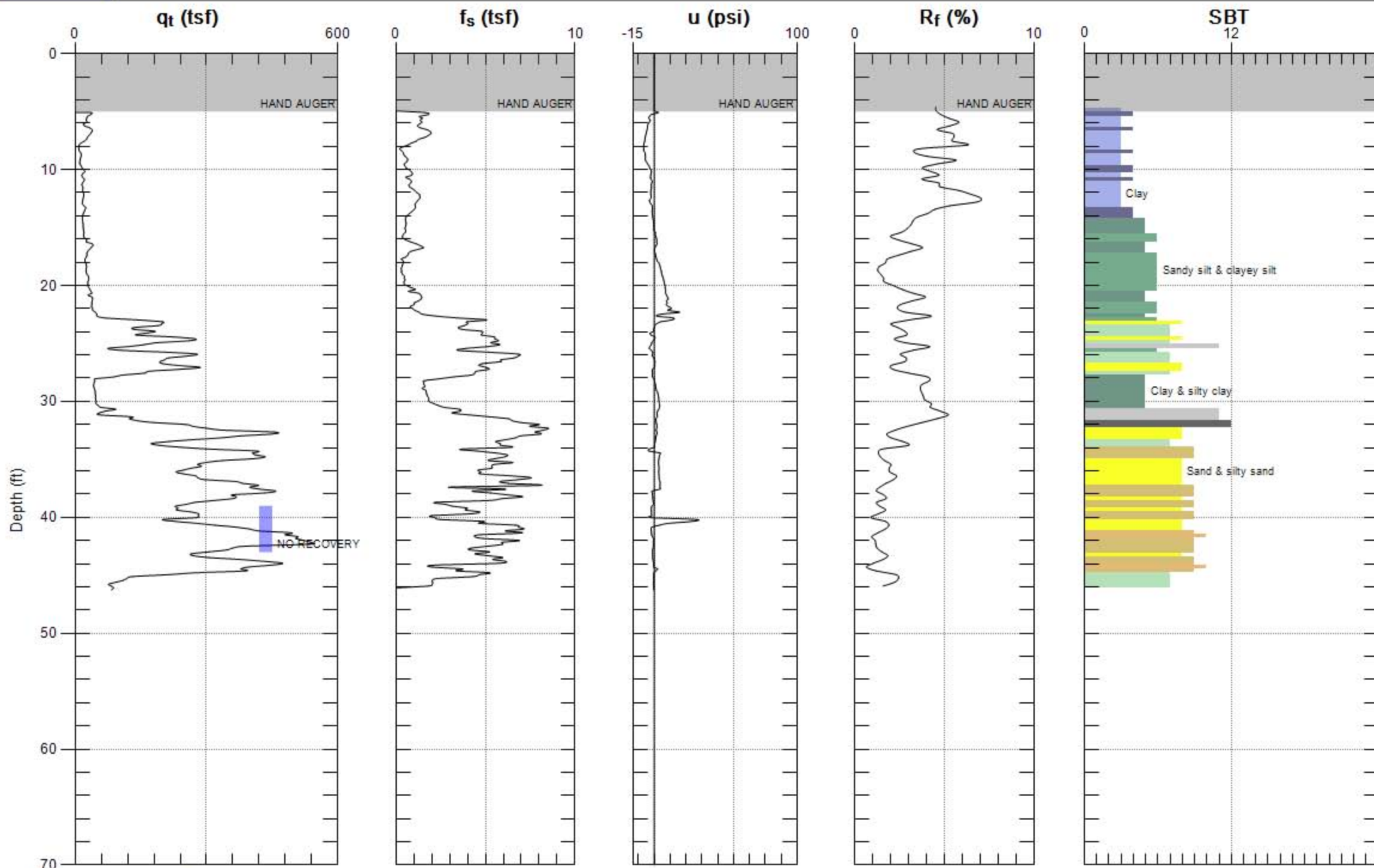
Fee Code	Fee Qty	Description	Other Receipts	This Receipt
EN.MISC		MISC ENCROACHMENT PERMIT	0.00	115.00
			Totals:	\$115.00

Payment Code	Description	Payment Date	Amount
CK	115	13-FEB-2008	

Tendered: \$115.00
 Change: \$0.00
 Balance: \$0.00

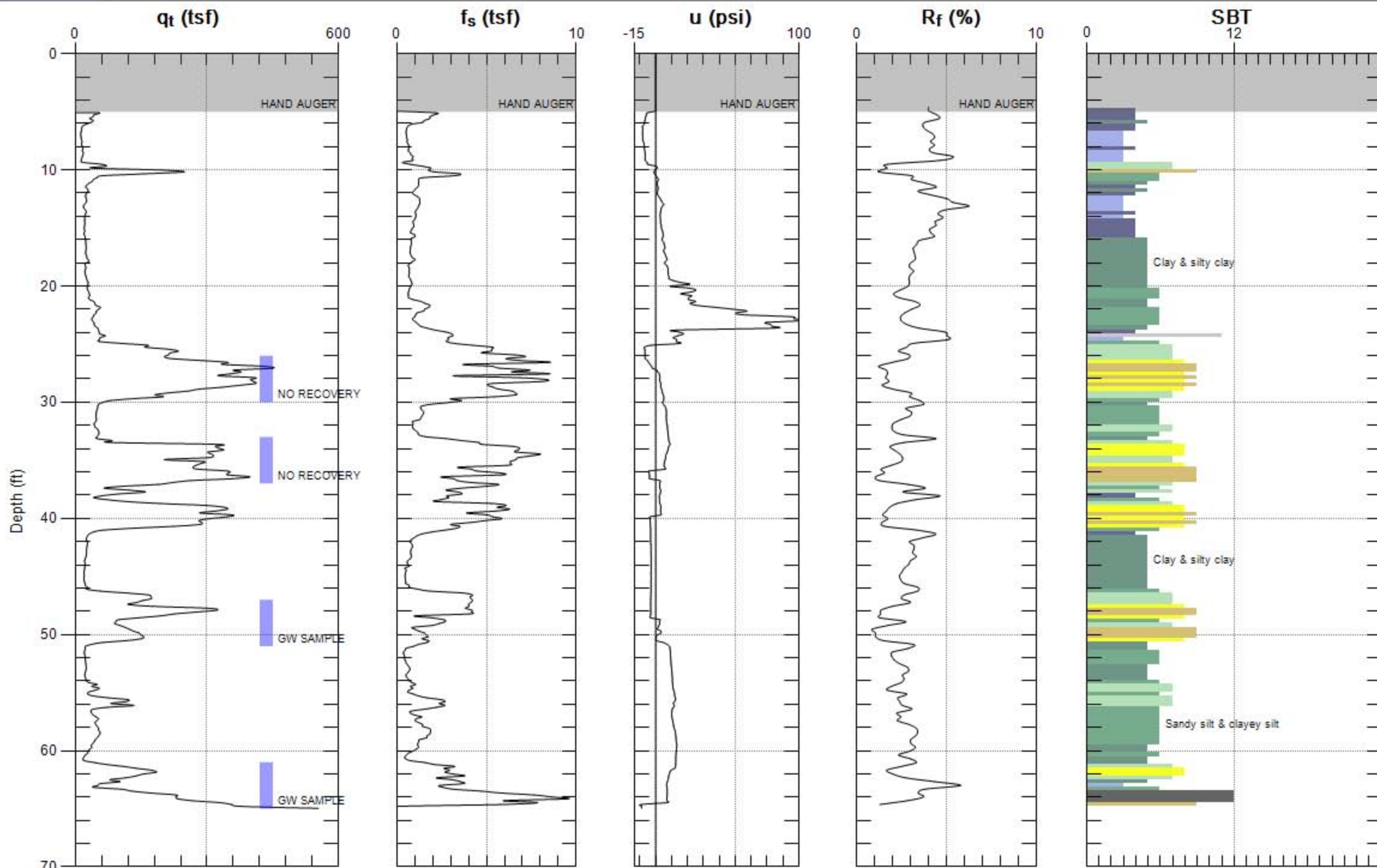
Post-It® Fax Note	7671	Date	2-13-08	# of pages	1
To:	GEORGE RYSE	From:	GEORGE FARRELL		
Co./Dept.		Co.	C.O.P.		
Phone #		Phone #	(925) 931-5660		
Fax #		Fax #			

APPENDIX C



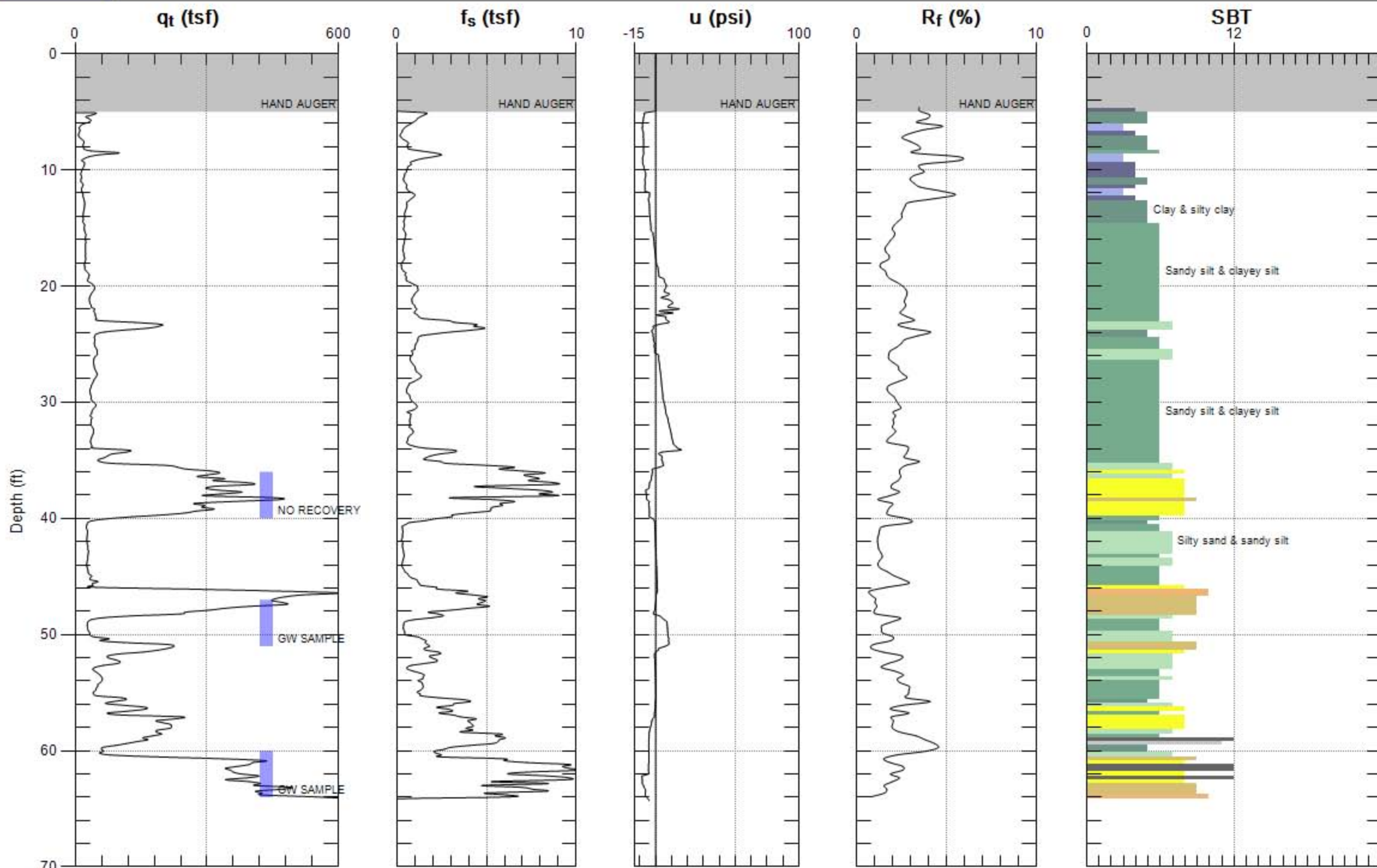
Max. Depth: 46.260 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



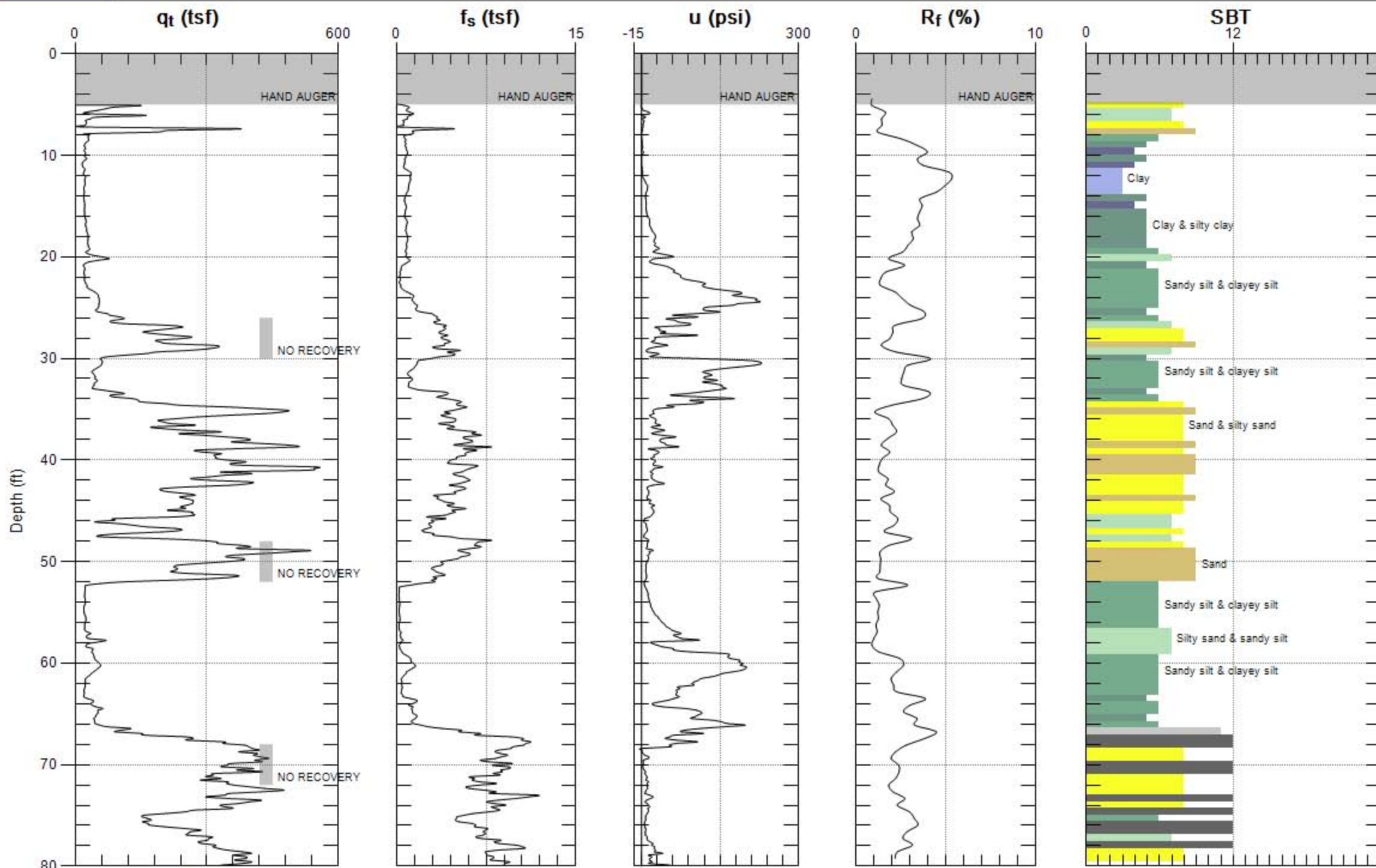
Max. Depth: 64.961 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 64.304 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 80.052 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

APPENDIX D



Report Number : 61218

Date : 02/29/2008

Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr. Suite 170
Rancho Cordova, CA 95670

Subject : 4 Water Samples
Project Name : Can-Am Plumbing
Project Number : 25-948162.7

Dear Mr. Risse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 61218

Date : 02/29/2008

Project Name : **Can-Am Plumbing**

Project Number : **25-948162.7**

Sample : **CPT3-65**

Matrix : Water

Lab Number : 61218-01

Sample Date :02/21/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	02/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/27/2008
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	02/27/2008
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	02/27/2008

Approved By:

Joel Kiff



Report Number : 61218

Date : 02/29/2008

Project Name : **Can-Am Plumbing**

Project Number : **25-948162.7**

Sample : **CPT3-51**

Matrix : Water

Lab Number : 61218-02

Sample Date :02/21/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Methyl-t-butyl ether (MTBE)	1.4	0.50	ug/L	EPA 8260B	02/27/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	02/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/27/2008
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	02/27/2008
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	02/27/2008

Approved By:

Joel Kiff



Report Number : 61218

Date : 02/29/2008

Project Name : **Can-Am Plumbing**

Project Number : **25-948162.7**

Sample : **CPT4-64**

Matrix : Water

Lab Number : 61218-03

Sample Date :02/22/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	02/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/27/2008
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	02/27/2008
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	02/27/2008

Approved By:

Joel Kiff



Report Number : 61218

Date : 02/29/2008

Project Name : **Can-Am Plumbing**

Project Number : **25-948162.7**

Sample : **CPT4-51.5**

Matrix : Water

Lab Number : 61218-04

Sample Date :02/22/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Methyl-t-butyl ether (MTBE)	0.98	0.50	ug/L	EPA 8260B	02/27/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	02/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/27/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	02/27/2008
4-Bromofluorobenzene (Surr)	89.2		% Recovery	EPA 8260B	02/27/2008

Approved By:

Joel Kiff

Report Number : 61218

Date : 02/29/2008

QC Report : Method Blank Data

Project Name : **Can-Am Plumbing**

Project Number : **25-948162.7**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	02/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/27/2008
Toluene - d8 (Surr)	98.9		%	EPA 8260B	02/27/2008
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	02/27/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	02/27/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	02/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/27/2008
Toluene - d8 (Surr)	98.8		%	EPA 8260B	02/27/2008
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	02/27/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By:  Joel Kiff

QC Report : Matrix Spike/ Matrix Spike DuplicateProject Name : **Can-Am Plumbing**Project Number : **25-948162.7**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	61218-01	<0.50	39.9	39.8	39.3	39.0	ug/L	EPA 8260B	2/27/08	98.4	98.0	0.378	70-130	25
Toluene	61218-01	<0.50	39.9	39.8	38.4	38.7	ug/L	EPA 8260B	2/27/08	96.1	97.1	0.994	70-130	25
Tert-Butanol	61218-01	<5.0	200	199	193	201	ug/L	EPA 8260B	2/27/08	96.5	101	4.43	70-130	25
Methyl-t-Butyl Ether	61218-01	<0.50	39.9	39.8	38.9	38.1	ug/L	EPA 8260B	2/27/08	97.5	95.6	1.92	70-130	25
Benzene	61264-11	<0.50	40.0	40.0	41.8	41.0	ug/L	EPA 8260B	2/27/08	104	103	1.80	70-130	25
Toluene	61264-11	<0.50	40.0	40.0	42.3	41.5	ug/L	EPA 8260B	2/27/08	106	104	1.85	70-130	25
Tert-Butanol	61264-11	<5.0	200	200	207	201	ug/L	EPA 8260B	2/27/08	104	100	3.27	70-130	25
Methyl-t-Butyl Ether	61264-11	<0.50	40.0	40.0	42.0	41.8	ug/L	EPA 8260B	2/27/08	105	104	0.402	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **Can-Am Plumbing**

Project Number : **25-948162.7**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	2/27/08	98.2	70-130
Toluene	40.0	ug/L	EPA 8260B	2/27/08	96.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/27/08	96.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/27/08	95.4	70-130
Benzene	40.0	ug/L	EPA 8260B	2/27/08	107	70-130
Toluene	40.0	ug/L	EPA 8260B	2/27/08	109	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/27/08	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/27/08	104	70-130

KIFF ANALYTICAL, LLC

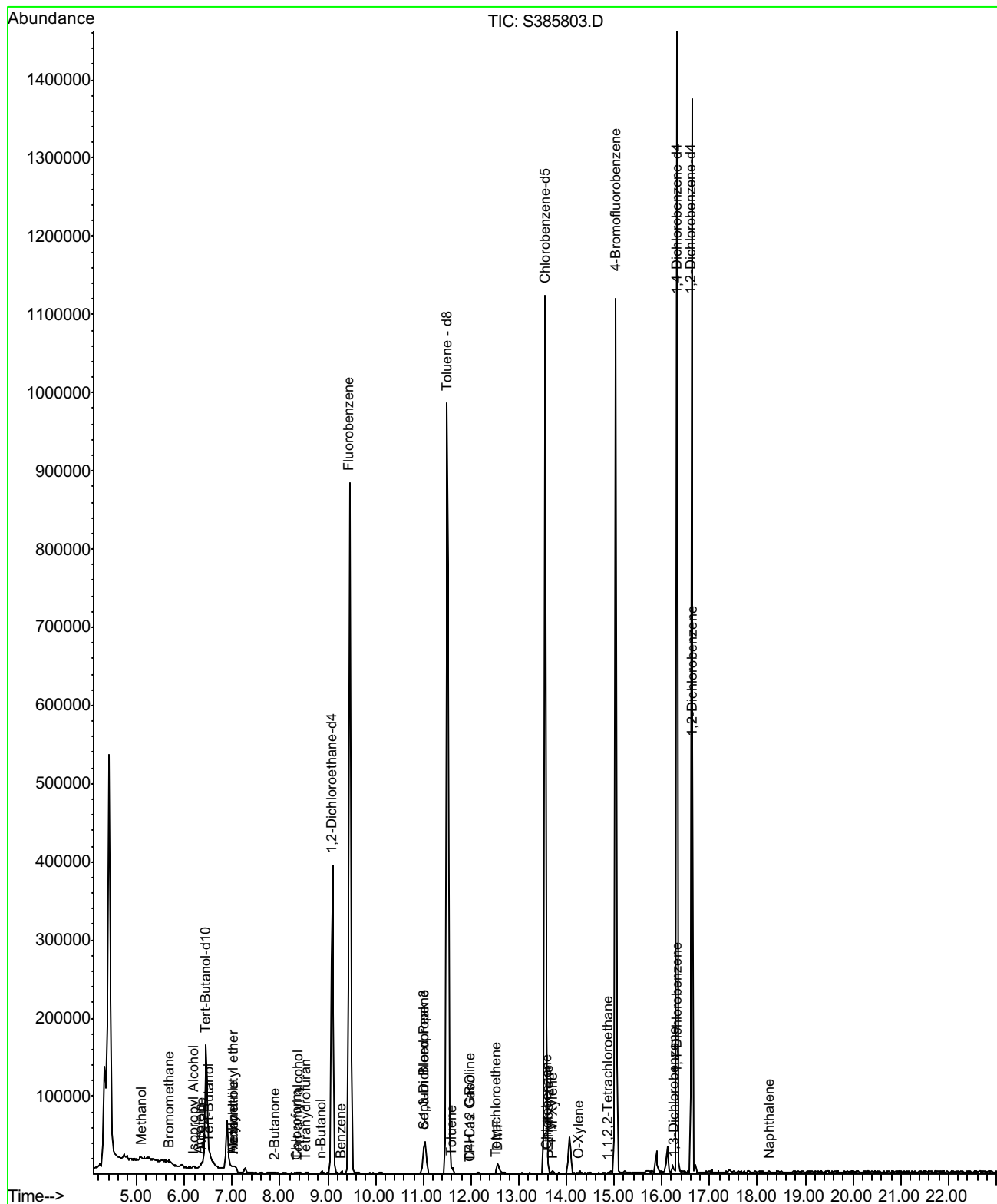
2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Approved By:

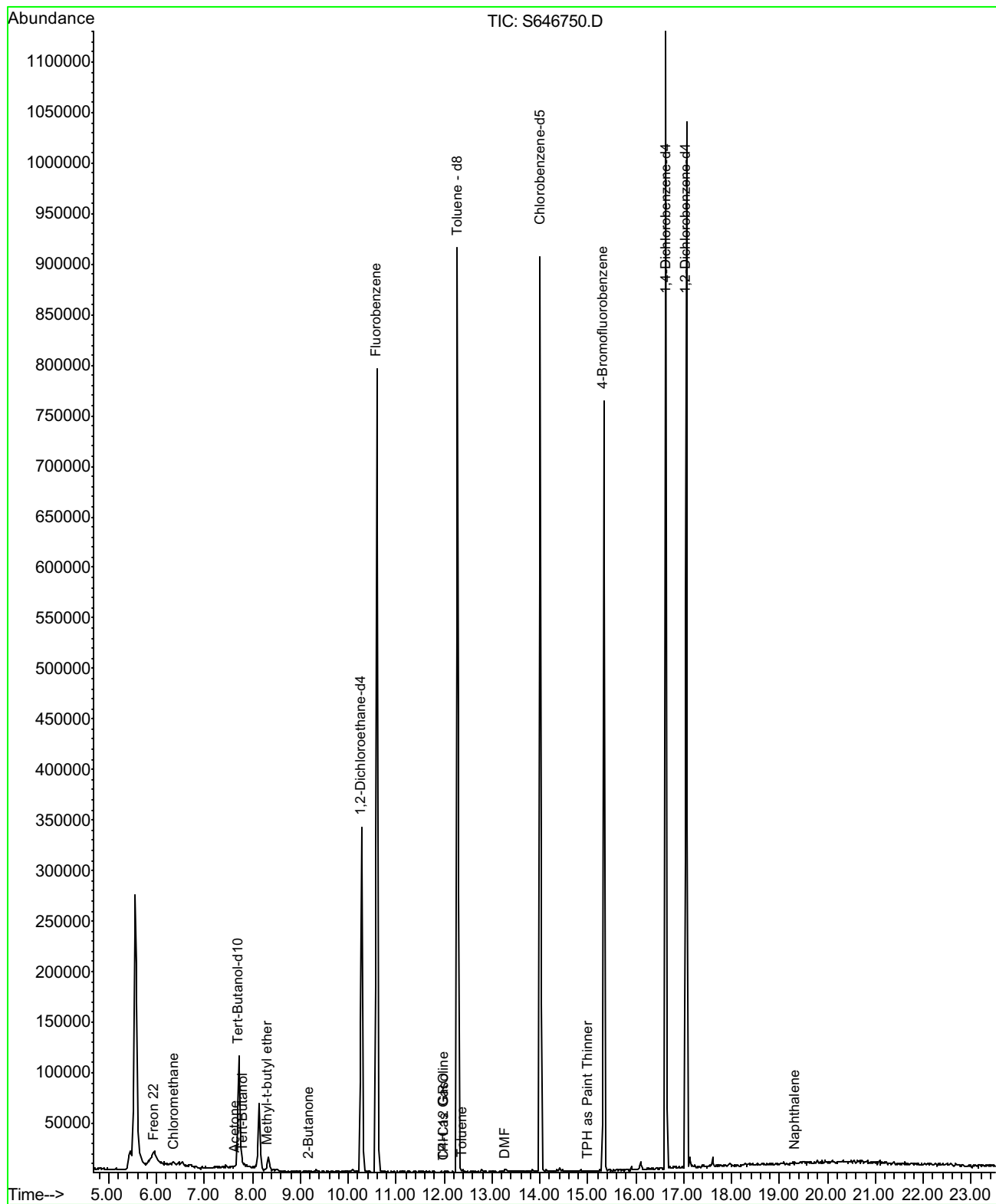


 Joel Kiff

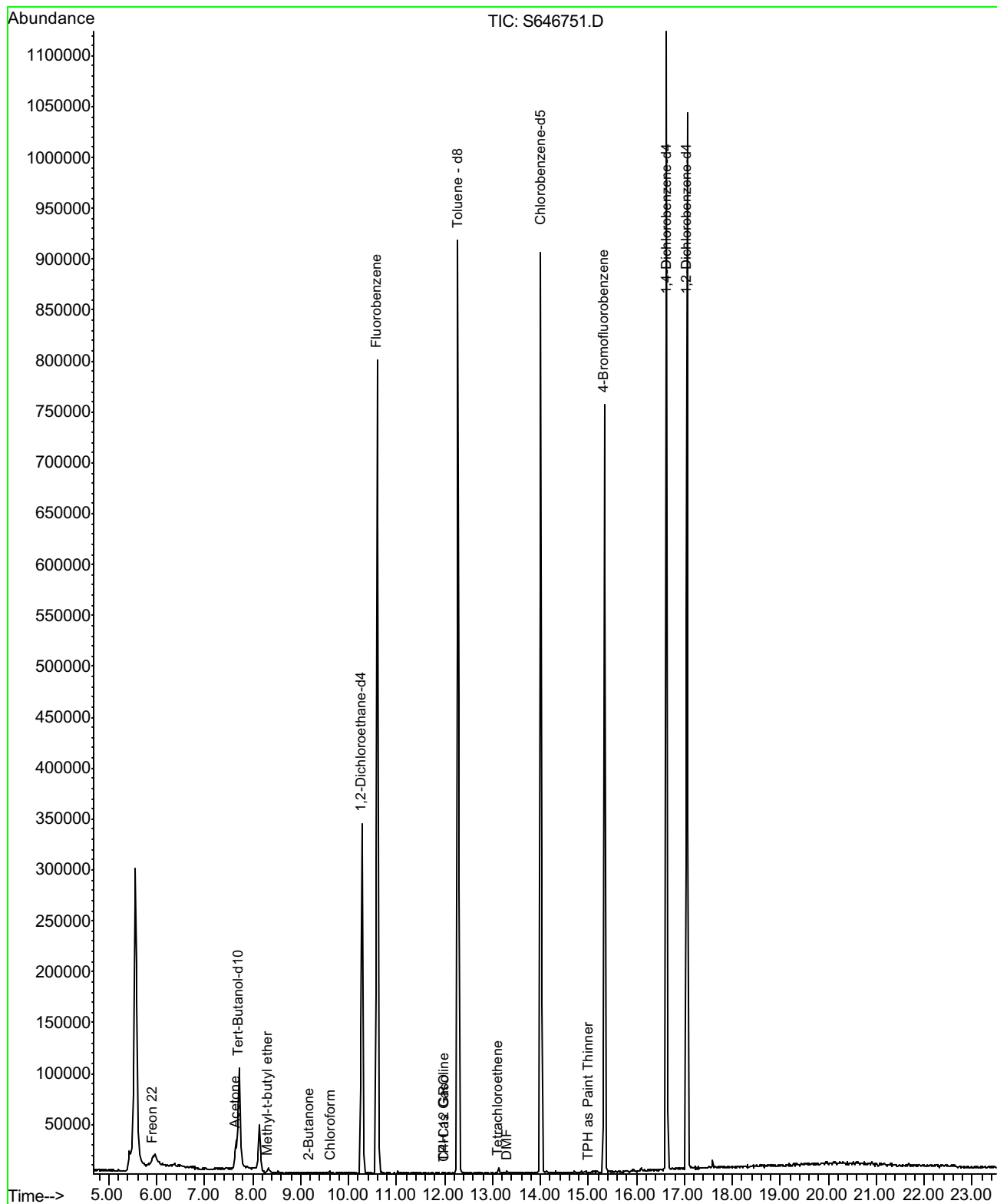
Sample ID : 61218-01 (CPT3-65)
Date Analyzed : 02/27/2008
Data File : S385803
Analysis Method : EPA 8260B



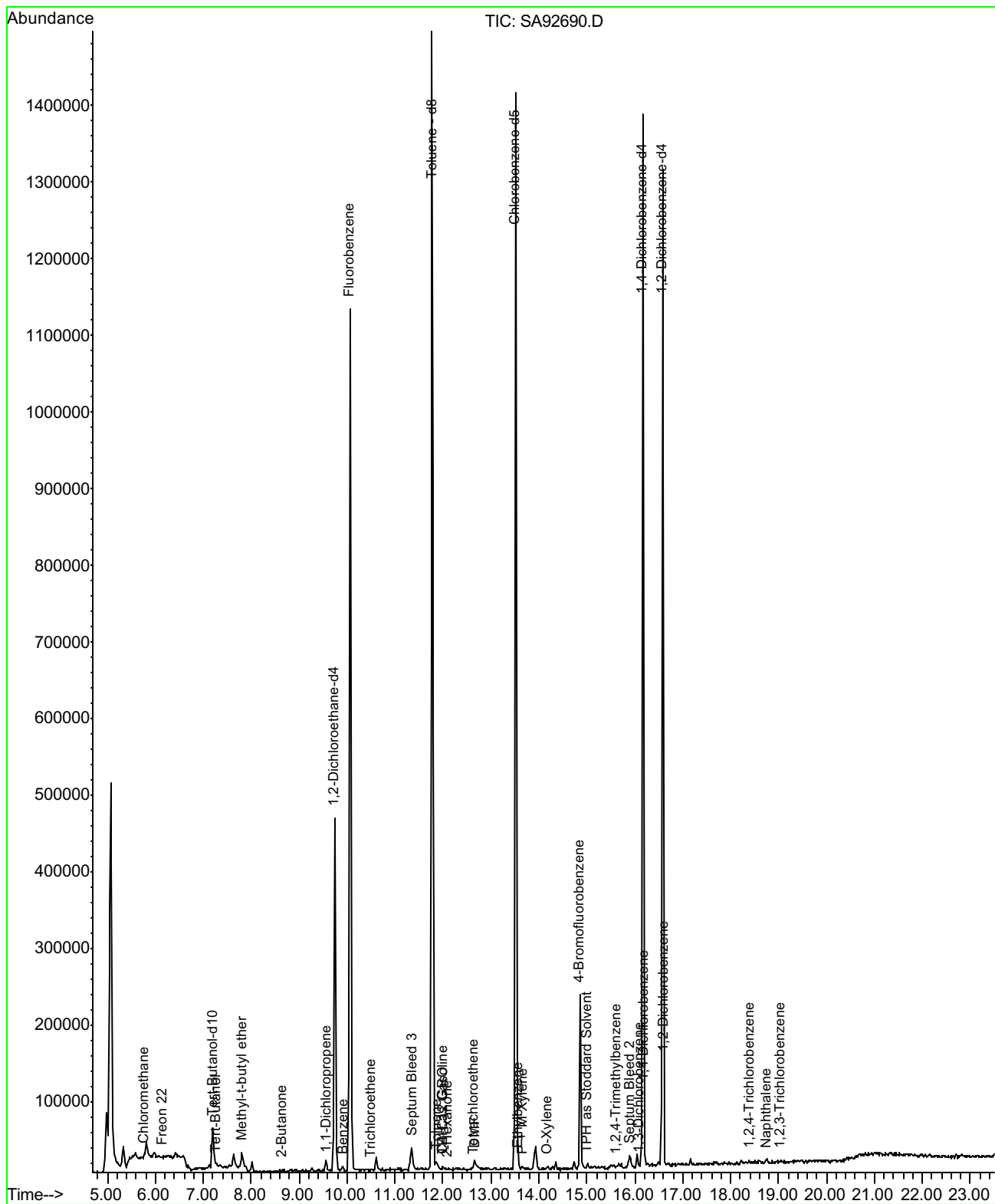
Sample ID : 61218-02 (CPT3-51)
Date Analyzed : 02/27/2008
Data File : S646750
Analysis Method : EPA 8260B



Sample ID : 61218-03 (CPT4-64)
Date Analyzed : 02/27/2008
Data File : S646751
Analysis Method : EPA 8260B



Sample ID : 61218-04 (CPT4-51.5)
 Date Analyzed : 02/27/2008
 Data File : SA92690
 Analysis Method : EPA 8260B



Project Contact (Hardcopy or PDF To): Geoffrey D. Risse
 Company / Address: Gettler-Ryan Rancho Cordova
 Phone #: 916-631-1300 Fax #: 916-631-1317
 Project #: 25-948162.7 P.O. #:
 Project Name: Can-Am Plumbing
 California EDF Report? Yes No
 Sampling Company Log Code:
 Global ID:
 EDF Deliverable To (Email Address): grisse@grinc.com
 Sampler Signature: Geoffrey D. Risse

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Container				Preservative			Matrix			
	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO ₃	None	Water	Soil	Air
CPT3-65	2/24/08	1525	4					X			X		
CPT3-51	2/24/08	1619	4					X			X		
CPT4-64	2/22/08	1040	4					X			X		
CPT4-51.5	2/22/08	1140	4					X			X		

Analysis Request												TAT	For Lab Use Only							
MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)		W.E.T. Lead (STLC)	12 hr	24 hr	48 hr	72 hr	1 wk	
		X	X	X										X					X	01
		X	X	X										X					X	02
		X	X	X										X					X	03
		X	X	X										X					X	04

Relinquished by: [Signature] Date: 2/22/08 Time: 1749
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: 022208 Time: (745)
 Received by: _____
 Received by: _____
 Received by Laboratory: [Signature] KIFF Analytical

Remarks:
 Bill to:

For Lab Use Only: Sample Receipt					
Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
5.6	JSL	022208	1746	1R1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No