



Subsurface Consultants, Inc.

August 21, 2001 (revised)  
SCI 272.056

Mr. Odili Ojukwu  
City of Oakland Public Works Agency  
Environmental Services Department  
250 Frank H. Ogawa Plaza, Suite 5301  
Oakland, California 94612

**Soil and Groundwater Sampling**  
**City Center Parcel T-5/6**  
**Oakland, California**

(all T-6 data)  
no T-5

Dear Mr. Ojukwu:

Subsurface Consultants, Inc. (SCI) has prepared this letter to document soil and groundwater sampling performed to characterize shallow soil and groundwater conditions prior to the proposed development at the City Center Parcel T-6 portion of the above-referenced property (Site). The activities and scope of work were completed in accordance with SCI's proposal to the City of Oakland (City) dated October 31, 2000.

#### **BACKGROUND**

The Site currently comprises two landscaped areas bordered by 11<sup>th</sup>, 12<sup>th</sup>, and Clay Streets, as well as paved driveways providing access to the City Center garage structure (Plates 1 and 2). SCI understands that Parcel T-6, along with Parcel T-5, located adjacent to and east of the Site, will be developed as a multi-story office building with underground parking.

Previous reports indicated that shallow fill at parcel T6 contained elevated lead concentrations. Elevated oil and grease concentrations were also detected in soil samples collected from the northern landscaped area, as were slightly elevated mercury concentrations in a composite soil sample from the southern landscaped area. Results of analyses detected elevated xylene concentrations in groundwater samples collected from monitoring well W-3, located at the northwest corner of the southern landscaped area.

## FIELD ACTIVITIES

Fieldwork was performed using standard industry practices regarding worker safety, equipment decontamination, and sample handling. [REDACTED] ing to [REDACTED] and auger boring [REDACTED] probe and boring locations are shown on Plate 2. Soil samples were retained in clear butyrate liners, capped with Teflon sheeting and plastic or rubber end caps, and placed in an ice-chilled cooler. SCI's field engineer screened soil samples in the field using an organic vapor meter (OVM), and logged samples in accordance with the Unified Soil Classification System (USCS). Logs of the probes and the hand-auger boring, including OVM readings, are attached.

Prior to collecting groundwater samples from well W-3, SCI purged at least three well casing volumes from the well using a clean, disposable bailer. A copy of the well sampling form is attached. Purged water was stored in a drum located onsite pending disposal. Groundwater samples were decanted into pre-cleaned sample bottles provided by the chemical testing laboratory, and stored in an ice-chilled cooler.

The ground surface was covered with grass. In general, roots extended to about 3 inches bgs, and fill was encountered to depths ranging from 3 to 4.5 feet bgs. Fill comprised dark brown, medium dense, moist silty sand. Brick fragments were observed in the fill. The fill was generally underlain with yellow brown, medium dense, poorly graded sand to the maximum depth explored.

## ANALYTICAL TESTING PROGRAM

Soil samples were submitted under chain-of-custody protocol to Chromalab Inc., a State-certified chemical testing laboratory. SCI instructed the laboratory to create two 3-part composite samples from the samples collected from H-3 and GP-4 (one composite for each probe), and a 4-part composite sample from the samples collected from GP-1 and GP-2. Soil and groundwater samples were analyzed for the following:

- Total extractable hydrocarbons as diesel and motor oil (TEHd and TEHo) using silica gel cleanup, USEPA Method 8015m (3 composite soil samples),
- Total <sup>Source</sup> lead and mercury, USEPA Method 6010/7000 series (3 composite soil samples),
- Soluble lead and mercury, USEPA Methods 1311/CalWET<sup>1</sup> and 6010/7000 series (3 composite soil samples),

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<sup>1</sup> California Waste Extraction Test

- Total volatile hydrocarbons as gasoline (TVHg), USEPA Method 8015m (1 groundwater sample), and
- Volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, total xylene (BTEX) and methyl tertiary butyl ether (MTBE), USEPA Method 8260 (1 groundwater sample).

## ANALYTICAL RESULTS

The results of chemical testing on the composite soil and groundwater samples are summarized in Tables 1 and 2, respectively. Analytical reports and chain of custody documents are attached.

Analyses detected 2.5 and 4.7 milligrams per kilogram (mg/kg) of TEHd in soil samples W-9 and G-4, respectively. Analyses detected no TEHo concentrations in the three soil samples tested. Analyses also detected total lead ranging from 41 to 84 mg/kg, and total mercury ranging from 0.14 to 0.25 mg/kg, in the three soil samples; these concentrations are well below the Total Threshold Limit Concentration (TTL) hazardous waste criteria for lead and mercury of 1,000 and 20 mg/kg, respectively. Using CalWET methods, analyses also detected soluble lead concentrations in the three soil samples ranging from 1.1 to 1.4 milligrams per liter (mg/L) below the Soluble Threshold Limit Concentration (STLC) California hazardous waste criterion for lead of 5 mg/L. Analyses detected no soluble mercury concentrations in the three soil samples tested.

In groundwater sample W-9, analyses detected 330 µg/L of TVHg, 20 µg/L of ethylbenzene, 9.4 µg/L of naphthalene, 51 µg/L of total xylene, and 4.2 µg/L of isopropylbenzene. Analyses also detected 1.0 mg/L of H<sub>2</sub>O<sub>2</sub>. Detected TVHg and VOC concentrations are below respective City of Oakland Urban Land Redevelopment (ULR) Tier 1 drinking water screening levels and/or East Bay Municipal Utility District (EBMUD) wastewater discharge limits, for compounds with established limits.

## CONCLUSIONS AND RECOMMENDATIONS

Based on the results presented above, SCI concludes that soil in the fill interval across the Site contains only slightly elevated lead and mercury concentrations. Analyses suggest that soil excavated from the Site will not likely exceed TTL and STLC hazardous waste criteria, and therefore can be disposed as non-hazardous waste. SCI recommends using data collected during this and previous investigations to evaluate soil handling and disposal options. Copies of this report should be provided to the developer and their contractor to assist with planning, construction, and disposal issues.

If proposed construction activities involve dewatering at the Site, it is SCI's opinion that groundwater will likely be impacted with petroleum hydrocarbons resulting from previous gasoline station activities. We recommend that (1) the developer be made aware of the impacted


groundwater conditions, and (2) if dewatering activities involve discharge to the storm drain or sanitary sewer, dewatering activities should be conducted in accordance with the applicable permits [e.g. EBMUD or National Pollution Discharge Elimination System (NPDES) permit].

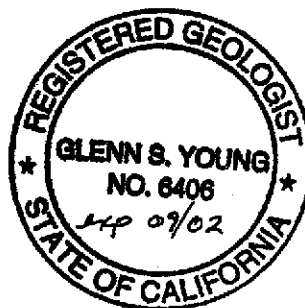
### CLOSING STATEMENT

We trust that this provides the information required at this time. If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

  
Glenn S. Young, RG  
Associate Geologist



GSY: ae 272.056\T6 Report.doc

4 copies submitted

Attachments: Table 1 – Summary of Soil Analytical Data  
Plate 1 – Vicinity Map  
Plate 2 – Site Plan  
Logs of Probes and USCS  
Analytical Reports with Chain-of-Custody Documents

**TABLE 1**  
**SUMMARY OF SOIL ANALYTICAL DATA**  
**CITY CENTER PARCEL T6**

Analyte	Units	Sample Location and Depth Interval			TTLC	STLC
		GP-1 & GP-2 1'-4' & 1'-2'	H-3 0.5'-3.5'	GP-4 0.5'-3'		
TEHd	mg/kg	<1	2.8	4.7	--	--
TEHo	mg/kg	<50	<50	<50	--	--
Lead	mg/kg	41	67	84	1,000	5
Mercury	mg/kg	0.15	0.25	0.14	20	0.2
CalWET Lead	mg/L	1.4	4.4	3.1	1,000	5
CalWET Mercury	mg/L	<0.02	<0.02	<0.02	20	0.2

**Notes:**

- Detected concentrations are shown in bold.
- TEHd = total extractable hydrocarbons as diesel
- TEHo = total extractable hydrocarbons as motor oil
- mg/kg = milligrams per kilogram
- mg/L = milligrams per liter
- = not established
- <2 = not detected at or above indicated analytical reporting limit
- CalWET = California Waste Extraction Test
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration

TABLE 2  
SUMMARY OF GROUNDWATER ANALYTICAL DATA  
CITY CENTER PARCEL T6

Analyte	Units	W-3	ULR	EBMUD
				Discharge Limit
TVHg	ug/L	<b>330</b>	--	100,000
VOCs	ug/L	<b>ND</b>	--	500*
Ethylbenzene	ug/L	<b>29</b>	700	--
Naphthalene	ug/L	<b>3.4</b>	20	--
Total Xylenes	ug/L	<b>51</b>	1,800	--
Isopropylbenzene	ug/L	<b>4.3</b>	--	--

**Notes:**

Detected concentrations are shown in bold.

TVHg = total volatile hydrocarbons as gasoline

ug/L = micrograms per liter

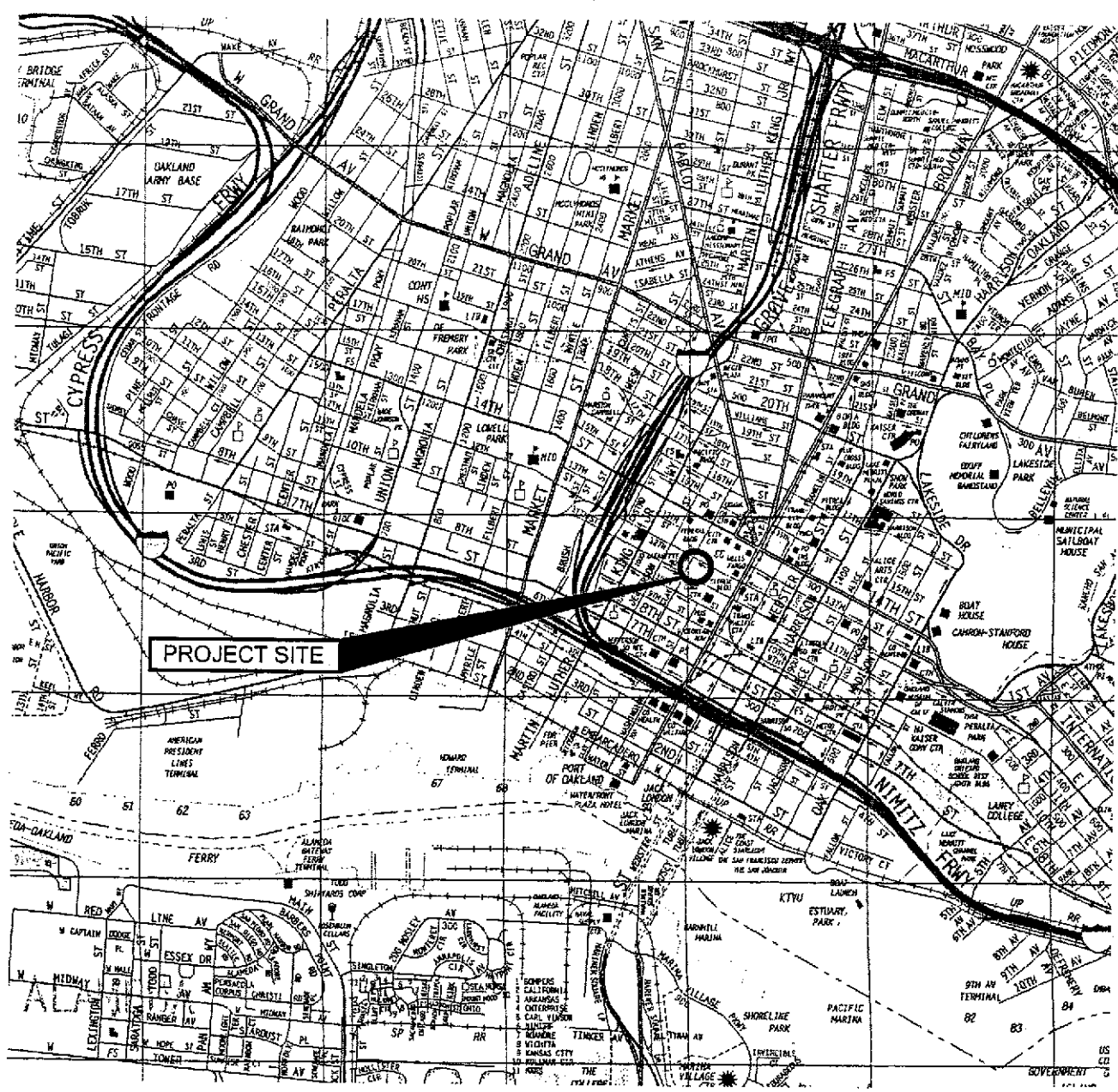
-- = not established

VOCs = volatile organic compounds analyzed by EPA Method 8260

ND = not detected except for compounds listed below

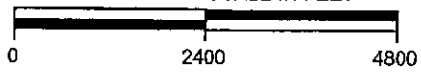
\* = discharge limit for chlorinated hydrocarbons (total identifiable)

ULR = Urban Land Redevelopment Program Tier 1 drinking water screening level established by the City of Oakland



**PROJECT SITE**

APPROXIMATE SCALE IN FEET



**NOTE:**

THIS VICINITY MAP IS BASED ON A THOMAS GUIDE MAP FOR SAN FRANCISCO, ALAMEDA AND CONTRA COSTA COUNTIES, CALIFORNIA, MAP 649, YEAR 2000

**VICINITY MAP**

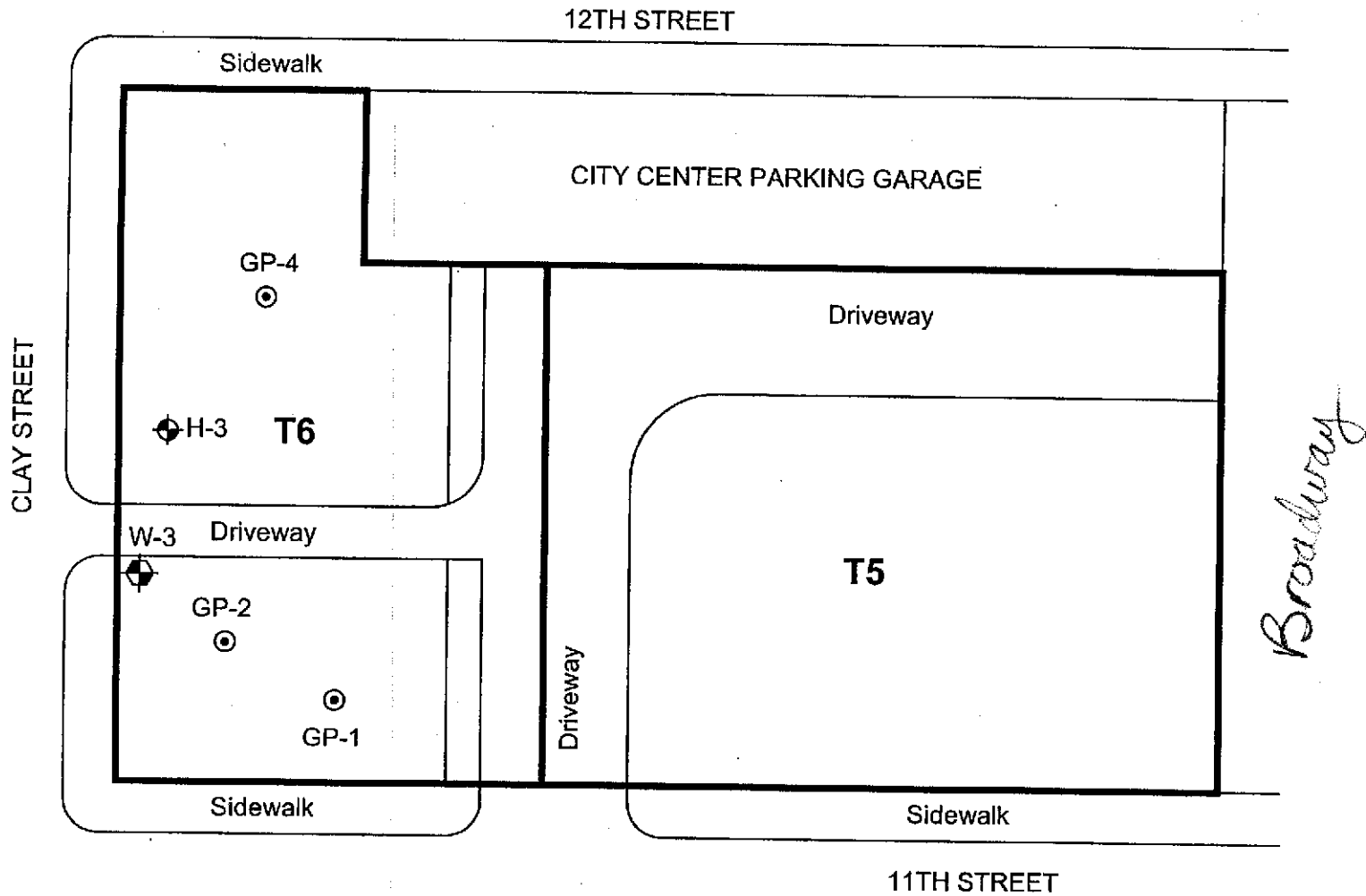
CITY CENTER PARCELS T5/6  
OAKLAND, CALIFORNIA

DRAWN BY: .CFY	DATE 5/29/01	PLATE <b>1</b>
JOB NUMBER 272.056	FILE NUMBER: A272.056.01	







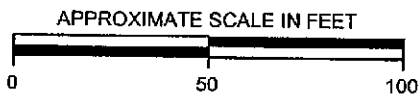
**Subsurface Consultants, Inc.**  
Geotechnical & Environmental Engineers

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**LEGEND:**

-  Approximate Geoprobe Hand Auger Location
-  Approximate Hand-Auger Boring Location
-  Approximate Monitoring Well Location
-  Approximate Site Boundary

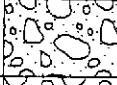


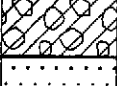

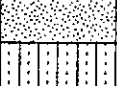

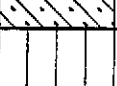



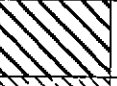
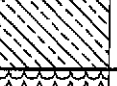





**Subsurface Consultants, Inc.**  
Geotechnical & Environmental Engineers

SITE PLAN		
CITY CENTER PARCEL T6 OAKLAND, CALIFORNIA		
DRAWN BY: CFY	DATE 5/25/01	PLATE <b>2</b>
JOB NUMBER 272.056	FILE NUMBER: A272.056.01	



# UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D2487-93)

MAJOR DIVISIONS			GROUP NAMES		
COARSE-GRAINED SOILS More than 50% retained on the No. 200 sieve	<b>GRAVELS</b>  MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	Clean gravels less than 5% fines	<b>GW</b>		Well-graded gravel, Well-graded gravel with sand
			<b>GP</b>		Poorly graded gravel, Poorly graded gravel with sand
		Gravels with more than 12% fines	<b>GM</b>		Silty gravel, Silty gravel with sand
			<b>GC</b>		Clayey gravel, Clayey gravel with sand
	<b>SANDS</b>  MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	Clean sand less than 5% fines	<b>SW</b>		Well-graded sand, Well-graded sand with gravel
			<b>SP</b>		Poorly graded sand, Poorly graded sand with gravel
		Sands with more than 12% fines	<b>SM</b>		Silty sand, Silty sand with gravel
			<b>SC</b>		Clayey sand, Clayey sand with gravel
FINE-GRAINED SOILS 50% or more passes the No. 200 sieve	<b>SILTS AND CLAYS</b>  Liquid Limit Less than 50%		<b>ML</b>		Silt, Silt with sand or gravel, Sandy or gravelly silt, Sandy or gravelly silt with gravel or sand
			<b>CL</b>		Lean clay, Lean clay with sand or gravel, Sandy or gravelly lean clay, Sandy or gravelly lean clay with gravel or sand
			<b>OL</b>		Organic silt or clay, Organic silt or clay with sand or gravel, Sandy or gravelly organic silt or clay, Sandy or gravelly organic silt or clay with gravel or sand
	<b>SILTS AND CLAYS</b>  Liquid Limit Greater than 50%		<b>MH</b>		Elastic silt, Elastic silt with sand or gravel, Sandy or gravelly elastic silt, Sandy or gravelly elastic silt with gravel or sand
			<b>CH</b>		Fat clay, Fat clay with sand or gravel, Sandy or gravelly fat clay, Sandy or gravelly fat clay with gravel or sand
			<b>OH</b>		Organic silt or clay, Organic silt or clay with sand or gravel, Sandy or gravelly organic silt or clay, Sandy or gravelly organic silt or clay with gravel or sand
<b>HIGHLY ORGANIC SOILS</b>			<b>PT</b>		Peat

For definition of dual and borderline symbols, see ASTM D2487-93.

## KEY TO TEST DATA AND SYMBOLS

<ul style="list-style-type: none"> <li>Perm - Permeability</li> <li>Consol - Consolidation</li> <li>LL - Liquid Limit</li> <li>PI - Plasticity Index</li> <li>Gs - Specific Gravity</li> <li>MA - Particle Size Analysis</li> <li>-200 - Percent Passing No. 200 Sieve</li> <li>ND - Not Detected</li> <li>■ - Tube Sample</li> <li>☒ - Bag or Bulk Sample</li> <li>☐ - Lost Sample</li> <li>⚡ - First Groundwater</li> <li>⚡ - Stabilized Groundwater</li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: center;">Shear Strength (psf)</th> <th style="text-align: center;">Confining Pressure (psf)</th> <th style="text-align: left;"></th> </tr> </thead> <tbody> <tr> <td>TxUU</td> <td style="text-align: center;">3200</td> <td style="text-align: center;">(2600)</td> <td>Unconsolidated-Undrained Triaxial Shear</td> </tr> <tr> <td>TxCU</td> <td style="text-align: center;">3200</td> <td style="text-align: center;">(2600)</td> <td>Consolidated-Undrained Triaxial Shear</td> </tr> <tr> <td>TxCD</td> <td style="text-align: center;">3200</td> <td style="text-align: center;">(2600)</td> <td>Consolidated-Drained Triaxial Shear</td> </tr> <tr> <td>SSCU</td> <td style="text-align: center;">3200</td> <td style="text-align: center;">(2600)</td> <td>Consolidated-Undrained Simple Shear</td> </tr> <tr> <td>SSCD</td> <td style="text-align: center;">3200</td> <td style="text-align: center;">(2600)</td> <td>Consolidated-Drained Simple Shear</td> </tr> <tr> <td>DSCD</td> <td style="text-align: center;">2700</td> <td style="text-align: center;">(2000)</td> <td>Consolidated-Drained Direct Shear</td> </tr> <tr> <td>UC</td> <td style="text-align: center;">470</td> <td></td> <td>Unconfined Compression</td> </tr> <tr> <td>LVS</td> <td style="text-align: center;">700</td> <td></td> <td>Laboratory Vane Shear</td> </tr> <tr> <td>FV</td> <td style="text-align: center;">300</td> <td></td> <td>Field Vane Shear</td> </tr> <tr> <td>RFV</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TV</td> <td style="text-align: center;">800</td> <td></td> <td>Torvane Shear</td> </tr> <tr> <td>PP</td> <td style="text-align: center;">400</td> <td></td> <td>Pocket Penetrometer (actual reading divided by 2)</td> </tr> </tbody> </table>		Shear Strength (psf)	Confining Pressure (psf)		TxUU	3200	(2600)	Unconsolidated-Undrained Triaxial Shear	TxCU	3200	(2600)	Consolidated-Undrained Triaxial Shear	TxCD	3200	(2600)	Consolidated-Drained Triaxial Shear	SSCU	3200	(2600)	Consolidated-Undrained Simple Shear	SSCD	3200	(2600)	Consolidated-Drained Simple Shear	DSCD	2700	(2000)	Consolidated-Drained Direct Shear	UC	470		Unconfined Compression	LVS	700		Laboratory Vane Shear	FV	300		Field Vane Shear	RFV				TV	800		Torvane Shear	PP	400		Pocket Penetrometer (actual reading divided by 2)	
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USCS AND SYMBOLS KEY 272-056.GPJ SCI\_CORP.GDT 8/21/01

**Subsurface Consultants, Inc.**


Geotechnical & Environmental Engineers

<b>City Center Parcel T6</b>		PLATE
<b>Oakland, California</b>		
JOB NUMBER	DATE	<b>A1</b>
272.056	8/01	

Project Name & Location: City Center Parcel T6 Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates:		Start: Date	Time
Drilling Company & Driller: Precision Sampling, Juan		11/9/00	08:20
Rig Type & Drilling Method: Geoprobe / Direct Push		Finish: Date	Time
		11/9/00	08:55
Sampler Type(s): A) Clear Butyrate Tubes		Drilling Fluid:	Hole Diameter:
		None	2"
Sampling Method(s): A) Direct Push		Logged By:	
		WKP	
		Backfill Method:	Date:
		Neat Cement	11/9/00

Depth (feet)	Sampler Type	Blows/6 inches or Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0	A						<b>SILT (ML)</b> Dark brown, roots to 0.25 feet <b>SILTY SAND (SM)</b> Dark brown, medium dense, moist, fine sand
5	A						<b>POORLY GRADED SAND (SP)</b> Yellow brown, medium dense, moist, fine sand
10							Bottom of boring at 8 feet below ground surface. Notes Groundwater not encountered during drilling


LOG OF BORING: 272-056.GPJ GEO-ENV.GDT 8/21/01

 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	City Center Parcel T6 Oakland, California		BORING <b>GP-1</b>
	JOB NUMBER 272.056	DATE 8/01	

Project Name & Location: City Center Parcel T6 Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates:		Start: Date	Time
Drilling Company & Driller: Precision Sampling, Juan		11/9/00	09:00
Rig Type & Drilling Method: Geoprobe / Direct Push		Finish: Date	Time
		11/9/00	09:20
Sampler Type(s): A) Clear Butyrate Tubes		Drilling Fluid:	Hole Diameter:
		None	2"
Sampling Method(s): A) Direct Push		Logged By:	
		WKP	
		Backfill Method:	Date:
		Neat Cement	11/9/00

Depth (feet)	Sampler Type	Blows/6 inches or Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0	A						<p><b>SILT (ML)</b> Dark brown, roots to .25 feet</p> <p><b>POORLY GRADED SILTY SAND (SM)</b> Dark brown, medium dense, moist</p> <p>Color change to brown at 2.0 feet</p>
5	A			0			<p><b>POORLY GRADED SAND (SP)</b> Yellow brown, medium dense, moist, fine sand</p>
10							<p>Bottom of boring at 8 feet below ground surface.</p> <p>Notes Groundwater not encountered during drilling</p>


LOG OF BORING 272-056.GPJ GED-ENV.GDT 8/21/01

 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	City Center Parcel T6 Oakland, California		BORING <b>GP-2</b>
	JOB NUMBER 272.056	DATE 8/01	

Project Name & Location: City Center Parcel T6 Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates:		Start: Date	Time
Drilling Company & Driller: Precision Sampling, Juan		11/9/00	10:37
Rig Type & Drilling Method: Geoprobe / Direct Push		Finish: Date	Time
		11/9/00	10:45
Sampler A) Clear Butyrate Tubes Type(s):		Drilling Fluid:	Hole Diameter:
		None	2"
Sampling Method(s): A) Direct Push		Logged By:	
		WKP	
		Backfill Method:	Date:
		Neat Cement	11/9/00

Depth (feet)	Sampler Type	Blows/6 inches or Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0	A			0			<b>SILT (ML)</b> Dark brown, roots to .25 feet <b>SILTY SAND (SM)</b> Dark brown, medium dense, moist (fill) Color change to yellow brown at .75 feet Brick fragments at 1.0 feet
5	A			0			<b>POORLY GRADED SAND (SP)</b> Yellow brown, medium dense, moist, fine sand
10							Bottom of boring at 8 feet below ground surface. Notes Groundwater not encountered during drilling

LOG OF BORING 272-056.GPJ GEO-ENV.GDT 8/21/01

 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	City Center Parcel T6 Oakland, California		BORING
	JOB NUMBER 272.056	DATE 8/01	<b>GP-4</b>


Project Name & Location: City Center Parcel T6 Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates:		Start: Date	Time
Drilling Company & Driller: Precision Sampling, Juan		11/9/00	00:00
Rig Type & Drilling Method: / Hand Auger		Finish: Date	Time
		11/9/00	00:00
Sampler A) Hand Auger Type(s):		Drilling Fluid:	Hole Diameter:
		None	2"
Sampling Method(s):		Logged By:	
		WKP	
		Backfill Method:	Date:
		Neat Cement	11/9/00

Depth (feet)	Sampler Type	Blows/6 inches or Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0							<b>SILT (ML)</b> Dark brown, roots to .25 feet
A				0	X		<b>SILTY SAND (SM)</b> Dark brown, loose, moist, with brick fragments (fill)
A				0	X		Color change to brown, concrete fragments at 1.25 feet
A				0	X		
A				0	X		<b>POORLY GRADED SAND (SP)</b> Yellow brown, medium dense, moist, fine sand
5				0	X		
A				0	X		Increasing clay at 5.5 feet

Bottom of boring at 6 feet below ground surface.

Notes  
Groundwater not encountered during drilling

LOG OF BORING 272-056.GPJ GEO-ENVY.GDT 8/21/01

 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	City Center Parcel T6 Oakland, California		BORING <b>H-3</b>
	JOB NUMBER 272.056	DATE 8/01	

# UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D. 37-93)

MAJOR DIVISIONS			GROUP NAMES		
COARSE-GRAINED SOILS More than 50% retained on the No. 200 sieve	GRAVELS  More than 50% of coarse fraction retained on No. 4 sieve	Clean gravels less than 5% fines	GW		Well-graded gravel, Well-graded gravel with sand
			GP		Poorly graded gravel, Poorly graded gravel with sand
		Gravels with more than 12% fines	GM		Silty gravel, Silty gravel with sand
			GC		Clayey gravel, Clayey gravel with sand
	SANDS  50% or more of coarse fraction passes No. 4 sieve	Clean sand less than 5% fines	SW		Well-graded sand, Well-graded sand with gravel
			SP		Poorly graded sand, Poorly graded sand with gravel
		Sands with more than 12% fines	SM		Silty sand, Silty sand with gravel
			SC		Clayey sand, Clayey sand with gravel
FINE-GRAINED SOILS 50% or more passes the No. 200 sieve	SILTS AND CLAYS  Liquid Limit Less than 50%		ML		Silt, Silt with sand or gravel, Sandy or gravelly silt, Sandy or gravelly silt with gravel or sand
			CL		Lean clay, Lean clay with sand or gravel, Sandy or gravelly lean clay, Sandy or gravelly lean clay with gravel or sand
			OL		Organic silt or clay, Organic silt or clay with sand or gravel, Sandy or gravelly organic silt or clay, Sandy or gravelly organic silt or clay with gravel or sand
	SILTS AND CLAYS  Liquid Limit Greater than 50%		MH		Elastic silt, Elastic silt with sand or gravel, Sandy or gravelly elastic silt, Sandy or gravelly elastic silt with gravel or sand
			CH		Fat clay, Fat clay with sand or gravel, Sandy or gravelly fat clay, Sandy or gravelly fat clay with gravel or sand
			OH		Organic silt or clay, Organic silt or clay with sand or gravel, Sandy or gravelly organic silt or clay, Sandy or gravelly organic silt or clay with gravel or sand
HIGHLY ORGANIC SOILS			Pt		Peat

For definition of dual and borderline symbols, see ASTM D2487-93.

## KEY TO TEST DATA AND SYMBOLS

Perm - Permeability		Shear Strength (psf)	Confining Pressure (psf)	
Consol - Consolidation				
LL - Liquid Limit		TxUU 3200	(2600)	Unconsolidated-Undrained Triaxial Shear
PI - Plasticity Index		TxCU 3200	(2600)	Consolidated-Undrained Triaxial Shear
Gs - Specific Gravity		TxCD 3200	(2600)	Consolidated-Drained Triaxial Shear
MA - Particle Size Analysis		SSCU 3200	(2600)	Consolidated-Undrained Simple Shear
-200 - Percent Passing No. 200 Sieve		SSCD 3200	(2600)	Consolidated-Drained Simple Shear
ND - Not Detected		DSCD 2700	(2000)	Consolidated-Drained Direct Shear
- Tube Sample		UC 470		Unconfined Compression
- Bag or Bulk Sample		LVS 700		Laboratory Vane Shear
- Lost Sample		FV 300		Field Vane Shear
- First Groundwater		RFV		
- Stabilized Groundwater		TV 800		Torvane Shear
		PP 400		Pocket Penetrometer (actual reading divided by 2)



**Subsurface Consultants, Inc.**  
Geotechnical & Environmental Engineers

City Center Parcel T6  
Oakland, California


JOB NUMBER	DATE	APPROVED
272.056	12/00	

Project Name & Location: City Center Parcel T6 Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: not surveyed		Start: Date	Time
Drilling Company & Driller: Precision Sampling, Juan		11/9/00	10:37
Rig Type & Drilling Method: Geoprobe / Direct Push		Finish: Date	Time
		11/9/00	10:45
Sampler A) Clear Butyrate Tubes Type(s):		Drilling Fluid:	Hole Diameter:
		None	2"
Sampling Method(s): A) Direct Push		Logged By:	
		WKP	
		Backfill Method:	Date:
		Neat Cement	11/9/00

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0	A			0			<b>SILT (ML)</b> Dark brown, roots to .25 feet <b>SILTY SAND (SM)</b> Dark brown, medium dense, moist (fill) Color change to yellow brown at .75 feet Brick fragments at 1.0 feet
5	A			0			<b>POORLY GRADED SAND (SP)</b> Yellow brown, medium dense, moist, fine sand
10							

*dup*

LOG OF BORING 272-056.GPJ GEO-ENV.GDT 12/8/00


 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	City Center Parcel T6 Oakland, California		BORING
	JOB NUMBER 272.056	DATE 12/00	<b>GP-4</b>

Project Name & Location: City Center Parcel T6 Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: not surveyed		Start: Date	Time
Drilling Company & Driller: Precision Sampling, Juan		11/9/00	00:00
Rig Type & Drilling Method: / Hand Auger		Finish: Date	Time
		11/9/00	00:00
Sampler Type(s): A) Hand Auger		Drilling Fluid:	Hole Diameter:
		None	2"
Sampling Method(s):		Logged By: WKP	DATE 11/9/00
		Backfill Method: Neat Cement	Date: 11/9/00

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0							<b>SILT (ML)</b> Dark brown, roots to .25 feet
	A			0	X		<b>SILTY SAND (SM)</b> Dark brown, loose, moist, with brick fragments (fill)
	A			0	X		Color change to brown, concrete fragments at 1.25 feet
	A			0	X		
	A			0	X		<b>POORLY GRADED SAND (SP)</b> Yellow brown, medium dense, moist, fine sand
5	A			0	X		
	A			0	X		Increasing clay at 5.5 feet

*dup*

LOG OF BORING 272-066.GPJ GEO-ENV.GDT 12/6/00

 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	City Center Parcel T6 Oakland, California		BORING <b>H-3</b>
	JOB NUMBER 272.056	DATE 12/00	




Project Name & Location: City Center Parcel T6 Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: not surveyed		Start: Date	Time
Drilling Company & Driller: Precision Sampling, Juan		11/9/00	09:00
Rig Type & Drilling Method: Geoprobe / Direct Push		Finish: Date	Time
		11/9/00	09:20
Sampler Type(s): A) Clear Butyrate Tubes		Drilling Fluid:	Hole Diameter:
		None	2"
Sampling Method(s): A) Direct Push		Logged By:	
		WKP	
		Backfill Method:	Date:
		Neat Cement	11/9/00

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0	A						<p><b>SILT (ML)</b> Dark brown, roots to .25 feet</p> <p><b>POORLY GRADED SILTY SAND (SM)</b> Dark brown, medium dense, moist</p> <p>Color change to brown at 2.0 feet</p>
5	A						<p><b>POORLY GRADED SAND (SP)</b> Yellow brown, medium dense, moist, fine sand</p>
10							

*dup*

LOG OF BORING 272-056.GPJ GEO-ENV/GDT 12/8/00


 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	City Center Parcel T6 Oakland, California		BORING <b>GP-2</b>
	JOB NUMBER 272.056	DATE 12/00	

Project Name & Location: City Center Parcel T6 Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: not surveyed		Start: Date	Time
Drilling Company & Driller: Precision Sampling, Juan		11/9/00	08:20
Rig Type & Drilling Method: Geoprobe / Direct Push		Finish: Date	Time
		11/9/00	08:55
Sampler Type(s): A) Clear Butyrate Tubes		Drilling Fluid:	Hole Diameter:
		None	2"
Sampling Method(s): A) Direct Push		Logged By:	
		WKP	
		Backfill Method:	Date:
		Neat Cement	11/9/00

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0	A						<p><b>SILT (ML)</b> Dark brown, roots to 0.25 feet</p> <p><b>SILTY SAND (SM)</b> Dark brown, medium dense, moist, fine sand</p>
5	A						<p><b>POORLY GRADED SAND (SP)</b> Yellow brown, medium dense, moist, fine sand</p>
10							

*dup*

LOG OF BORING 272-056.GPJ GEO-ENV.GDT 12/6/00

 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	City Center Parcel T6 Oakland, California		BORING
	JOB NUMBER 272.056	DATE 12/00	<b>GP-1</b>

**Subsurface Consultants, Inc.**  
3736 Mt. Diablo Blvd., Suite 200  
Lafayette, CA 94549

Attn.: Mr. Glenn Young

Project: 272.056  
City Center Parcels T5 and T6

Dear Glenn

Attached is our report for your samples received on Friday November 10, 2000  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after December 25, 2000  
unless you have requested otherwise. We appreciate the opportunity to be of service to you.  
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.  
My email address is: [gcook@chromalab.com](mailto:gcook@chromalab.com)

Sincerely,



Gary Cook

Volatile Organic Compounds by 8260A

<b>Subsurface Consultants, Inc.</b>	✉ 3736 Mt. Diablo Blvd., Suite 200 Lafayette, CA 94549
Attn: Glenn Young	Phone: (925) 299-7960 Fax: (925) 299-7970
Project #: 272.056	Project: City Center Parcels T5 and T6

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
W-3	Water	11/10/2000 13:00	4

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8260A

Attn.: Glenn Young

Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: <b>W-3</b>	Lab Sample ID: <b>2000-11-0237-004</b>
Project: <b>272.056</b> <b>City Center Parcels T5 and T6</b>	Received: <b>11/10/2000 16:43</b>
Sampled: <b>11/10/2000 13:00</b>	Extracted: <b>11/16/2000 19:50</b>
Matrix: <b>Water</b>	QC-Batch: <b>2000/11/16-01.39</b>

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	11/16/2000 19:50	
Benzene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Bromodichloromethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Bromoform	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Bromomethane	ND	1.0	ug/L	1.00	11/16/2000 19:50	
Carbon tetrachloride	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Chlorobenzene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Chloroethane	ND	1.0	ug/L	1.00	11/16/2000 19:50	
2-Butanone(MEK)	ND	50	ug/L	1.00	11/16/2000 19:50	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Chloroform	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Chloromethane	ND	1.0	ug/L	1.00	11/16/2000 19:50	
Dibromochloromethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	11/16/2000 19:50	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Dibromomethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Ethylbenzene	29	0.50	ug/L	1.00	11/16/2000 19:50	
2-Hexanone	ND	50	ug/L	1.00	11/16/2000 19:50	
Methylene chloride	ND	5.0	ug/L	1.00	11/16/2000 19:50	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	11/16/2000 19:50	
Naphthalene	3.4	1.0	ug/L	1.00	11/16/2000 19:50	
Styrene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Tetrachloroethene	ND	0.50	ug/L	1.00	11/16/2000 19:50	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

Printed on: 11/17/2000 12:40

Page 2 of 7

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8260A

Attn.: Glenn Young

Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: <b>W-3</b>	Lab Sample ID: <b>2000-11-0237-004</b>
Project: 272.056 City Center Parcels T5 and T6	Received: 11/10/2000 16:43
Sampled: 11/10/2000 13:00	Extracted: 11/16/2000 19:50
Matrix: Water	QC-Batch: 2000/11/16-01.39

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Toluene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Trichloroethene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Vinyl acetate	ND	5.0	ug/L	1.00	11/16/2000 19:50	
Vinyl chloride	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Total xylenes	51	1.0	ug/L	1.00	11/16/2000 19:50	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Carbon disulfide	ND	1.0	ug/L	1.00	11/16/2000 19:50	
Isopropylbenzene	4.3	0.50	ug/L	1.00	11/16/2000 19:50	
Bromobenzene	ND	0.50	ug/L	1.00	11/16/2000 19:50	
Bromochloromethane	ND	1.0	ug/L	1.00	11/16/2000 19:50	
Trichlorofluoromethane	ND	2.0	ug/L	1.00	11/16/2000 19:50	
MTBE	ND	5.0	ug/L	1.00	11/16/2000 19:50	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	84.0	86-115	%	1.00	11/16/2000 19:50	sl
1,2-Dichloroethane-d4	95.2	76-114	%	1.00	11/16/2000 19:50	
Toluene-d8	102.6	88-110	%	1.00	11/16/2000 19:50	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**  
Attn.: Glenn Young

Test Method: 8260A  
Prep Method: 5030

## Batch QC Report Volatile Organic Compounds by 8260A

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/11/16-01.39</b>
MB: 2000/11/16-01.39-005		Date Extracted: 11/16/2000 14:26

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Acetone	ND	50	ug/L	11/16/2000 14:26	
Benzene	ND	0.5	ug/L	11/16/2000 14:26	
Bromodichloromethane	ND	0.5	ug/L	11/16/2000 14:26	
Bromoform	ND	0.5	ug/L	11/16/2000 14:26	
Bromomethane	ND	1.0	ug/L	11/16/2000 14:26	
Carbon tetrachloride	ND	0.5	ug/L	11/16/2000 14:26	
Chlorobenzene	ND	0.5	ug/L	11/16/2000 14:26	
Chloroethane	ND	1.0	ug/L	11/16/2000 14:26	
2-Butanone(MEK)	ND	50	ug/L	11/16/2000 14:26	
2-Chloroethylvinyl ether	ND	0.5	ug/L	11/16/2000 14:26	
Chloroform	ND	0.5	ug/L	11/16/2000 14:26	
Chloromethane	ND	1.0	ug/L	11/16/2000 14:26	
Dibromochloromethane	ND	0.5	ug/L	11/16/2000 14:26	
1,2-Dichlorobenzene	ND	0.5	ug/L	11/16/2000 14:26	
1,3-Dichlorobenzene	ND	0.5	ug/L	11/16/2000 14:26	
1,4-Dichlorobenzene	ND	0.5	ug/L	11/16/2000 14:26	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	11/16/2000 14:26	
1,2-Dibromoethane	ND	0.5	ug/L	11/16/2000 14:26	
Dibromomethane	ND	0.5	ug/L	11/16/2000 14:26	
Dichlorodifluoromethane	ND	0.5	ug/L	11/16/2000 14:26	
1,1-Dichloroethane	ND	0.5	ug/L	11/16/2000 14:26	
1,2-Dichloroethane	ND	0.5	ug/L	11/16/2000 14:26	
1,1-Dichloroethene	ND	0.5	ug/L	11/16/2000 14:26	
cis-1,2-Dichloroethene	ND	0.5	ug/L	11/16/2000 14:26	
trans-1,2-Dichloroethene	ND	0.5	ug/L	11/16/2000 14:26	
1,2-Dichloropropane	ND	0.5	ug/L	11/16/2000 14:26	
cis-1,3-Dichloropropene	ND	0.5	ug/L	11/16/2000 14:26	
trans-1,3-Dichloropropene	ND	0.5	ug/L	11/16/2000 14:26	
Ethylbenzene	ND	0.5	ug/L	11/16/2000 14:26	
2-Hexanone	ND	50	ug/L	11/16/2000 14:26	
Methylene chloride	ND	5.0	ug/L	11/16/2000 14:26	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	11/16/2000 14:26	
Naphthalene	ND	1.0	ug/L	11/16/2000 14:26	
Styrene	ND	0.5	ug/L	11/16/2000 14:26	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	11/16/2000 14:26	
Tetrachloroethene	ND	0.5	ug/L	11/16/2000 14:26	
Toluene	ND	0.5	ug/L	11/16/2000 14:26	
1,1,1-Trichloroethane	ND	0.5	ug/L	11/16/2000 14:26	
1,1,2-Trichloroethane	ND	0.5	ug/L	11/16/2000 14:26	
Trichloroethene	ND	0.5	ug/L	11/16/2000 14:26	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	11/16/2000 14:26	
Vinyl acetate	ND	5.0	ug/L	11/16/2000 14:26	
Vinyl chloride	ND	0.5	ug/L	11/16/2000 14:26	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8260A

Attn.: Glenn Young

Prep Method: 5030

## Batch QC Report

Volatile Organic Compounds by 8260A

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/11/16-01.39</b>
MB: 2000/11/16-01.39-005		Date Extracted: 11/16/2000 14:26

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Total xylenes	ND	1.0	ug/L	11/16/2000 14:26	
Trichlorotrifluoroethane	ND	0.5	ug/L	11/16/2000 14:26	
Carbon disulfide	ND	1.0	ug/L	11/16/2000 14:26	
Isopropylbenzene	ND	0.5	ug/L	11/16/2000 14:26	
Bromobenzene	ND	0.5	ug/L	11/16/2000 14:26	
Bromochloromethane	ND	1.0	ug/L	11/16/2000 14:26	
Trichlorofluoromethane	ND	2.0	ug/L	11/16/2000 14:26	
MTBE	ND	5.0	ug/L	11/16/2000 14:26	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	103.9	86-115	ug/L	11/16/2000 14:26	
1,2-Dichloroethane-d4	97.7	76-114	ug/L	11/16/2000 14:26	
Toluene-d8	96.5	88-110	ug/L	11/16/2000 14:26	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096



To: **Subsurface Consultants, Inc.**

Test Method: 8260A

Attn: Glenn Young

Prep Method: 5030

## Batch QC Report

Volatile Organic Compounds by 8260A

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/11/16-01.39
LCS: 2000/11/16-01.39-003	Extracted: 11/16/2000 13:31	Analyzed 11/16/2000 13:31
LCSD: 2000/11/16-01.39-004	Extracted: 11/16/2000 14:03	Analyzed 11/16/2000 14:03

Compound	Conc. [ ug/Kg ]		Exp.Conc. [ ug/Kg ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	98.1	47.2	100.0	50.0	98.1	94.4	3.8	69-129	20		
Chlorobenzene	104	50.9	100.0	50.0	104.0	101.8	2.1	61-121	20		
1,1-Dichloroethene	83.7	39.8	100.0	50.0	83.7	79.6	5.0	65-125	20		
Toluene	97.2	47.3	100.0	50.0	97.2	94.6	2.7	70-130	20		
Trichloroethene	97.8	48.0	100.0	50.0	97.8	96.0	1.9	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	522	475	500	500	104.4	95.0		74-121			
1,2-Dichloroethane-d4	468	448	500	500	93.6	89.6		70-121			
Toluene-d8	507	485	500	500	101.4	97.0		81-117			

To: **Subsurface Consultants, Inc.**

Attn: Glenn Young

Test Method: 8260A

Prep Method: 5030

## Legend & Notes

Volatile Organic Compounds by 8260A

### Analyte Flags

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

Gas/BTEX Compounds by 8015M/8020

<b>Subsurface Consultants, Inc.</b>	☒ 3736 Mt. Diablo Blvd., Suite 200 Lafayette, CA 94549
Attn: Glenn Young	Phone: (925) 299-7960 Fax: (925) 299-7970
Project #: 272.056	Project: City Center Parcels T5 and T6

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
W-3	Water	11/10/2000 13:00	4

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8020  
8015M

Attn.: Glenn Young

Prep Method: 5030

Gas/BTEX Compounds by 8015M/8020

Sample ID: <b>W-3</b>	Lab Sample ID: <b>2000-11-0237-004</b>
Project: 272.056 City Center Parcels T5 and T6	Received: 11/10/2000 16:43
Sampled: 11/10/2000 13:00	Extracted: 11/14/2000 22:47
Matrix: Water	QC-Batch: 2000/11/14-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	330	50	ug/L	1.00	11/14/2000 22:47	
<b>Surrogate(s)</b> 4-Bromofluorobenzene-FID	97.7	50-150	%	1.00	11/14/2000 22:47	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8015M

Attn.: Glenn Young

8020

Prep Method: 5030

## Batch QC Report

Gas/BTEX Compounds by 8015M/8020

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/11/14-01.05</b>
MB: 2000/11/14-01.05-001		Date Extracted: 11/14/2000 08:56

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	11/14/2000 08:56	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	75.8	50-150	%	11/14/2000 08:56	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8015M  
8020

Attn: Glenn Young

Prep Method: 5030

## Batch QC Report

Gas/BTEX Compounds by 8015M/8020

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/11/14-01.05	
LCS:	2000/11/14-01.05-002	Extracted:	11/14/2000 12:20	Analyzed	11/14/2000 12:20
LCSD:	2000/11/14-01.05-003	Extracted:	11/14/2000 13:24	Analyzed	11/14/2000 13:24

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	423	434	500	500	84.6	86.8	2.6	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene-Fl	354	367	500	500	70.8	73.4		50-150			

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8015M  
8020

Attn.: Glenn Young

Prep Method: 5030

## Batch QC Report

Gas/BTEX Compounds by 8015M/8020

<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2000/11/14-01.05</b>
Sample ID: <b>W-3</b>		Lab Sample ID: 2000-11-0237-004
MS: 2000/11/14-01.05-004	Extracted: 11/14/2000 23:19	Analyzed: 11/14/2000 23:19 Dilution: 1.0
MSD: 2000/11/14-01.05-005	Extracted: 11/14/2000 23:51	Analyzed: 11/14/2000 23:51 Dilution: 1.0

Compound	Conc. [ ug/L ]			Exp. Conc. [ ug/L ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	781	761	332	500	500	89.8	85.8	4.6	65-135	20		
<b>Surrogate(s)</b>												
4-Bromofluorobenzene-F	489	474		500	500	97.8	94.8		50-150			

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Page 5 of 5

Metals

<b>Subsurface Consultants, Inc.</b>	☒ 3736 Mt. Diablo Blvd., Suite 200 Lafayette, CA 94549
Attn: Glenn Young	Phone: (925) 299-7960 Fax: (925) 299-7970
Project #: 272.056	Project: City Center Parcels T5 and T6

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GP-1@1'-4', 2@ 1'-2' COMP	Soil	11/10/2000 08:45	1
HP-3@0.5'-3.5' COMP	Soil	11/10/2000 10:00	2
GP-4@0.5'-3.0' COMP	Soil	11/10/2000 10:37	3



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B  
7471A

Attn.: Glenn Young

Prep Method: 3050B  
7471A

## Metals

Sample ID:	GP-1@1'-4', 2@ 1'-2' COMP	Lab Sample ID:	2000-11-0237-001
Project:	272.056 City Center Parcels T5 and T6	Received:	11/10/2000 16:43
Sampled:	11/10/2000 08:45	Extracted:	11/14/2000 15:50
Matrix:	Soil	QC-Batch:	2000/11/14-05.15 2000/11/15-02.16

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	41	1.0	mg/Kg	1.00	11/14/2000 21:24	
Mercury	0.15	0.050	mg/Kg	1.00	11/15/2000 10:00	

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Printed on: 11/20/2000 13:38

Page 2 of 8

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B  
7471A

Attn.: Glenn Young

Prep Method: 3050B  
7471A

## Metals

Sample ID: <b>HP-3@0.5'-3.5' COMP</b>	Lab Sample ID: <b>2000-11-0237-002</b>
Project: 272.056 City Center Parcels T5 and T6	Received: 11/10/2000 16:43
Sampled: 11/10/2000 10:00	Extracted: 11/14/2000 15:50
Matrix: Soil	QC-Batch: 2000/11/14-05.15 2000/11/15-02.16

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	67	1.0	mg/Kg	1.00	11/14/2000 21:28	
Mercury	0.25	0.050	mg/Kg	1.00	11/15/2000 10:01	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B  
7471A

Attn.: Glenn Young

Prep Method: 3050B  
7471A

## Metals

Sample ID:	<b>GP-4@0.5'-3.0' COMP</b>	Lab Sample ID:	<b>2000-11-0237-003</b>
Project:	272.056 City Center Parcels T5 and T6	Received:	11/10/2000 16:43
Sampled:	11/10/2000 10:37	Extracted:	11/14/2000 15:50
Matrix:	Soil	QC-Batch:	2000/11/14-05.15 2000/11/15-02.16

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	84	1.0	mg/Kg	1.00	11/14/2000 21:32	
Mercury	0.14	0.050	mg/Kg	1.00	11/15/2000 10:03	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B

7471A

Attn.: Glenn Young

Prep Method: 3050B

7471A

## Batch QC Report Metals

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/11/14-05.15</b>
MB: 2000/11/14-05.15-034		Date Extracted: 11/14/2000 15:50

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	1.0	mg/Kg	11/14/2000 19:21	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B

7471A

Attn.: Glenn Young

Prep Method: 3050B

7471A

## Batch QC Report

Metals

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/11/15-02.16</b>
MB: 2000/11/15-02.16-021		Date Extracted: 11/15/2000 08:39

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	11/15/2000 09:30	

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Page 6 of 8

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B  
7471A

Attn: Glenn Young

Prep Method: 3050B  
7471A

## Batch QC Report

### Metals

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/11/14-05.15
LCS: 2000/11/14-05.15-035	Extracted: 11/14/2000 15:50	Analyzed 11/14/2000 19:26
LCSD: 2000/11/14-05.15-036	Extracted: 11/14/2000 15:50	Analyzed 11/14/2000 19:30

Compound	Conc. [ mg/Kg ]		Exp.Conc. [ mg/Kg ]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Lead	96.9	97.1	100.0	100.0	96.9	97.1	0.2	80-120	20		

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B  
7471A

Attn: Glenn Young

Prep Method: 3050B  
7471A

## Batch QC Report

### Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/11/15-02.16	
LCS:	2000/11/15-02.16-022	Extracted:	11/15/2000 08:39	Analyzed	11/15/2000 09:31
LCSD:	2000/11/15-02.16-023	Extracted:	11/15/2000 08:39	Analyzed	11/15/2000 09:32

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD	Recovery	RPD	LCS	LCSD		
Mercury	0.451	0.453	0.500	0.500	90.2	90.6	0.4	85-115	20				

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CAM W.E.T. (STLC) Metals

<b>Subsurface Consultants, Inc.</b>	✉ 3736 Mt. Diablo Blvd., Suite 200 Lafayette, CA 94549
Attn: Glenn Young	Phone: (925) 299-7960 Fax: (925) 299-7970
Project #: 272.056	Project: City Center Parcels T5 and T6

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GP-1@1'-4', 2@ 1'-2' COMP	Soil	11/10/2000 08:45	1
HP-3@0.5'-3.5' COMP	Soil	11/10/2000 10:00	2
GP-4@0.5'-3.0' COMP	Soil	11/10/2000 10:37	3



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 7470A  
6010B

Attn.: Glenn Young

Prep Method: 3005A  
7470A

CAM W.E.T. (STLC) Metals

Sample ID:	GP-1@1'-4', 2@ 1'-2' COMP	Lab Sample ID:	2000-11-0237-001
Project:	272.056 City Center Parcels T5 and T6	Received:	11/10/2000 16:43
Sampled:	11/10/2000 08:45	Extracted:	11/15/2000 06:58
Matrix:	Soil	QC-Batch:	2000/11/15-02.15 2000/11/20-01.16

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	1.4	0.50	mg/L	1.00	11/15/2000 17:42	
Mercury	ND	0.020	mg/L	1.00	11/20/2000 11:30	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 7470A  
6010B

Attn.: Glenn Young

Prep Method: 3005A  
7470A

CAM W.E.T. (STLC) Metals

Sample ID:	<b>HP-3@0.5`-3.5` COMP</b>	Lab Sample ID:	<b>2000-11-0237-002</b>
Project:	272.056 City Center Parcels T5 and T6	Received:	11/10/2000 16:43
Sampled:	11/10/2000 10:00	Extracted:	11/15/2000 06:58
Matrix:	Soil	QC-Batch:	2000/11/15-02.15 2000/11/20-01.16

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.4	0.50	mg/L	1.00	11/15/2000 17:47	
Mercury	ND	0.020	mg/L	1.00	11/20/2000 11:31	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 7470A  
6010B

Attn.: Glenn Young

Prep Method: 3005A  
7470A

## CAM W.E.T. (STLC) Metals

Sample ID:	<b>GP-4@0.5'-3.0' COMP</b>	Lab Sample ID:	<b>2000-11-0237-003</b>
Project:	272.056 City Center Parcels T5 and T6	Received:	11/10/2000 16:43
Sampled:	11/10/2000 10:37	Extracted:	11/15/2000 06:58
Matrix:	Soil	QC-Batch:	2000/11/15-02.15 2000/11/20-01.16

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	3.1	0.50	mg/L	1.00	11/15/2000 17:51	
Mercury	ND	0.020	mg/L	1.00	11/20/2000 11:34	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B  
7470A

Attn.: Glenn Young

Prep Method: 3005A  
7470A

**Batch QC Report**  
CAM W.E.T. (STLC) Metals

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/11/15-02.15</b>
MB: 2000/11/15-02.15-043		Date Extracted: 11/15/2000 06:58

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	0.50	mg/L	11/15/2000 11:27	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B

7470A

Attn.: Glenn Young

Prep Method: 3005A

7470A

**Batch QC Report**  
CAM W.E.T. (STLC) Metals

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/11/20-01.16</b>
MB: 2000/11/20-01.16-035		Date Extracted: 11/20/2000 09:21

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Mercury	ND	0.010	mg/L	11/20/2000 11:20	

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Page 6 of 8

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B  
7470A

Attn: Glenn Young

Prep Method: 3005A  
7470A

## Batch QC Report

CAM W.E.T. (STLC) Metals

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/11/15-02.15
LCS: 2000/11/15-02.15-044	Extracted: 11/15/2000 06:58	Analyzed 11/15/2000 11:32
LCSD: 2000/11/15-02.15-047	Extracted: 11/15/2000 06:58	Analyzed 11/15/2000 11:51

Compound	Conc. [mg/L]		Exp. Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Lead	4.26	4.40	5.00	5.00	85.2	88.0	3.2	80-120	20		

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 6010B  
7470A

Attn: Glenn Young

Prep Method: 3005A  
7470A

## Batch QC Report

CAM W.E.T. (STLC) Metals

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/11/20-01.16
LCS: 2000/11/20-01.16-036	Extracted: 11/20/2000 09:21	Analyzed 11/20/2000 11:21
LCSD: 2000/11/20-01.16-037	Extracted: 11/20/2000 09:21	Analyzed 11/20/2000 11:22

Compound	Conc. [mg/L]		Exp. Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Mercury	0.108	0.109	0.1000	0.1000	108.0	109.0	0.9	85-115	20		

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

TEPH w/ Silica Gel Clean-up

<b>Subsurface Consultants, Inc.</b>	✉ 3736 Mt. Diablo Blvd., Suite 200 Lafayette, CA 94549
Attn: Glenn Young	Phone: (925) 299-7960 Fax: (925) 299-7970
Project #: 272.056	Project: City Center Parcels T5 and T6

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
GP-1@1'-4', 2@ 1'-2' COMP	Soil	11/10/2000 08:45	1
HP-3@0.5'-3.5' COMP	Soil	11/10/2000 10:00	2
GP-4@0.5'-3.0' COMP	Soil	11/10/2000 10:37	3



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8015M

Attn.: Glenn Young

Prep Method: 3550/8015M

TEPH w/ Silica Gel Clean-up

Sample ID: <b>GP-1@1'-4', 2@ 1'-2' COMP</b>	Lab Sample ID: <b>2000-11-0237-001</b>
Project: 272.056 City Center Parcels T5 and T6	Received: 11/10/2000 16:43
Sampled: 11/10/2000 08:45	Extracted: 11/14/2000 10:30
Matrix: Soil	QC-Batch: 2000/11/14-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/17/2000 08:58	
Motor Oil	ND	50	mg/Kg	1.00	11/17/2000 08:58	
<b>Surrogate(s)</b> o-Terphenyl	83.4	60-130	%	1.00	11/17/2000 08:58	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8015M

Attn.: Glenn Young

Prep Method: 3550/8015M

TEPH w/ Silica Gel Clean-up

Sample ID:	<b>HP-3@0.5'-3.5' COMP</b>	Lab Sample ID:	<b>2000-11-0237-002</b>
Project:	272.056 City Center Parcels T5 and T6	Received:	11/10/2000 16:43
Sampled:	11/10/2000 10:00	Extracted:	11/14/2000 10:30
Matrix:	Soil	QC-Batch:	2000/11/14-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2.8	1.0	mg/Kg	1.00	11/17/2000 02:04	ndp
Motor Oil	ND	50	mg/Kg	1.00	11/17/2000 02:04	
<b>Surrogate(s)</b> o-Terphenyl	110.6	60-130	%	1.00	11/17/2000 02:04	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8015M

Attn.: Glenn Young

Prep Method: 3550/8015M

TEPH w/ Silica Gel Clean-up

Sample ID:	<b>GP-4@0.5'-3.0' COMP</b>	Lab Sample ID:	<b>2000-11-0237-003</b>
Project:	272.056 City Center Parcels T5 and T6	Received:	11/10/2000 16:43
Sampled:	11/10/2000 10:37	Extracted:	11/14/2000 10:30
Matrix:	Soil	QC-Batch:	2000/11/14-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4.7	1.0	mg/Kg	1.00	11/17/2000 02:38	ndp
Motor Oil	ND	50	mg/Kg	1.00	11/17/2000 02:38	
<b>Surrogate(s)</b> o-Terphenyl	99.0	60-130	%	1.00	11/17/2000 02:38	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

To: **Subsurface Consultants, Inc.**

Test Method: 8015M

Attn.: Glenn Young

Prep Method: 3550/8015M

### Batch QC Report

TEPH w/ Silica Gel Clean-up

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/11/14-02.10</b>
MB: 2000/11/14-02.10-001		Date Extracted: 11/14/2000 10:30

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/16/2000 22:35	
Motor Oil	ND	50	mg/Kg	11/16/2000 22:35	
<b>Surrogate(s)</b> o-Terphenyl	77.0	60-130	%	11/16/2000 22:35	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-11-0237

To: **Subsurface Consultants, Inc.**

Test Method: 8015M

Attn: Glenn Young

Prep Method: 3550/8015M

## Batch QC Report

TEPH w/ Silica Gel Clean-up

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/11/14-02.10	
LCS:	2000/11/14-02.10-002	Extracted:	11/14/2000 10:30	Analyzed	11/16/2000 23:23
LCSD:	2000/11/14-02.10-003	Extracted:	11/14/2000 10:30	Analyzed	11/17/2000 00:10

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	38.1	37.6	41.7	41.7	91.4	90.2	1.3	60-130	25		
<b>Surrogate(s)</b> o-Terphenyl	21.2	25.9	20.0	20.0	106.0	129.5		60-130			

1220 Quarry Lane \* Pleasanton, CA 94566-4756

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Printed on: 11/20/2000 13:39

Page 6 of 7

To: **Subsurface Consultants, Inc.**  
Attn: Glenn Young

Test Method: 8015M  
Prep Method: 3550/8015M

### Legend & Notes

TEPH w/ Silica Gel Clean-up

### Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

