

Table 1: Summary of Previous Results - 1991 SCI Soil Investigation
 Martin Luther King Jr. Way, Between 11th and 12th Street
 Oakland, California

Sample ID	Depth	Units	TEH	TVH	Oil and Grease	Lead	Other Detections
1	1.5	mg/kg	--	ND	--	31.0	
	4	mg/kg	--	--	--	ND	
	5.5	mg/kg	--	--	--	ND	
2	1	mg/kg	--	--	--	102	
	3	mg/kg	--	--	--	ND	
	5	mg/kg	--	--	--	ND	
	7	mg/kg	ND	ND	ND	ND	
3	3	mg/kg	--	2,300	--	--	
	6.5	mg/kg	--	51	--	--	
	15.5	mg/kg	--	4,000	--	--	
	20.5	mg/kg	ND	980	ND	--	1,2-Dichloroethane (330 ug/kg)
4	24	mg/kg	--	ND	--	--	
		mg/kg	--	--	--	--	
6	26	mg/kg	ND	ND	--	--	
	27.5	mg/kg	ND	ND	--	--	
7	3	mg/kg	--	--	--	ND	
	5.5	mg/kg	--	--	--	ND	
	21	mg/kg	ND/10	ND/10	--	--	
	26	mg/kg	ND	ND	--	--	
8	2	mg/kg	ND	--	--	363	Wet Lead (8,350 ug/l)
	4	mg/kg	--	--	--	ND	
	5.5	mg/kg	--	--	--	ND	
9	1.5	mg/kg	--	--	--	ND	
	7	mg/kg	--	--	--	ND	
10	1	mg/kg	--	--	--	598	
	3	mg/kg	ND	--	58	ND	
	5.5	mg/kg	--	--	--	ND	
11	16.5	mg/kg	620	54	--	--	
	20.5	mg/kg	--	--	ND	--	
	21	mg/kg	1,800	2,000	--	--	
12	20.5	mg/kg	--	--	ND	--	
	21	mg/kg	1,300	650	--	--	Chlorobenzene (280 ug/kg)
	22.5	mg/kg	ND	ND	--	--	
	26	mg/kg	ND	ND	--	--	
13	21	mg/kg	ND	ND	--	--	
	26	mg/kg	ND	ND	--	--	
14	24	mg/kg	ND	ND	--	--	
	26	mg/kg	ND	ND	--	--	
15	19.5	mg/kg	--	--	ND	--	
	20	mg/kg	ND	ND	--	--	1,2-Dichloroethane (52 ug/kg)

**Table 1: Summary of Previous Results - 1991 SCI Soil Investigation
Martin Luther King Jr. Way, Between 11th and 12th Street
Oakland, California**

Sample ID	Depth	Units	TEH	TVH	Oil and Grease	Lead	Other Detections
16	21	mg/kg	ND	ND	--	--	
	26	mg/kg	ND	ND	--	--	
17	25	mg/kg	ND	ND	--	--	
	30	mg/kg	ND	ND	--	--	
S-1	1.0	mg/kg	7.6	ND	ND	--	
S-2	0.5	mg/kg	--	--	--	118	
S-4	0.5	mg/kg	ND	--	ND	--	
S-6	0.5	mg/kg	ND	--	ND	--	
S-8	0.5	mg/kg	ND	--	52	--	
S-10	0.5	mg/kg	ND	--	ND	--	
S-13	0.5	mg/kg	ND	--	82	--	

Notes:

TEH: Total Extractable Hydrocarbons as diesel

TVH: Total Volatile Hydrocarbons as gasoline

VOCs: Volatile Organic Compounds

mg/kg: milligrams per kilogram

ug/l: micrograms per liter

Detected concentrations shown in bold

--: Sample not analyzed

Reference: *Soil Contamination Assessment*, dated June 17, 1991 by SCI

Table 2: Summary of Previous Results - 1998 Tetra Tech Investigation
 Martin Luther King Jr. Way, Between 11th and 12th Street
 Oakland, California

Boring ID	Depth	Units	TPH		Benzene	Toluene	Ethyl benzene	Xylenes	Lead	Detectable VOCs
			Extractables	Purgeables						
Soil Samples										
SB1	9.5	mg/kg	480.0	1,000.0	0.021	0.096	2.9	12.8	6.6	
	16.5	mg/kg	53.0	38.0	ND	0.03	0.12	1.0	27.4	
	23.5	mg/kg	1,400.0	1,800.0	3.2	26.0	19.0	156.0	4.9	
SB2	9.5	mg/kg	ND	ND	ND	ND	ND	ND	2.9	
	16.5	mg/kg	ND	ND	ND	ND	0.01	0.03	78.6	
	23.5	mg/kg	4.6	190.0	23.5	24.0	14.0	89.0	2.3	
SB3	9.0	mg/kg	ND	ND	ND	ND	ND	ND	2.4	
	16.0	mg/kg	ND	ND	ND	ND	ND	ND	2.3	
	23.5	mg/kg	ND	ND	ND	ND	ND	ND	0.88	
Grab Groundwater Samples										
SB1	-	mg/L	17.0	33.0	0.35	1.8	0.64	ND	0.43	
SB2	-	mg/L	0.09	0.11	0.02	0.026	0.0031	0.02	0.18	1,2,4-Trimethylbenzene (0.0056 mg/L), 1,2-Dichloroethane (0.0014 mg/L), 1,3,5-Trimethylbenzene (0.0017 mg/L), and Napthalene (0.0014 mg/L)
SB3	-	mg/L	ND	ND	ND	ND	ND	ND	0.04	

Notes:

TPH: Total Petroleum Hydrocarbons

VOCs: Volatile Organic Compounds

mg/kg: milligrams per kilogram

mg/l: milligrams per liter

-: Sample not analyzed

ND: Not Detected

Detected concentrations shown in bold

Reference: Final Phase II - Environmental Site Assessment Report,
 dated June 23, 2000 by Tetra Tech EM, Inc.

Table 3: Results for Test Pit Samples
 Martin Luther King Jr. Way, Between 11th and 12th Street
 Oakland, California

Sample ID	Units	TEHd *	TEHo *	TVHg	Benzene	Toluene	Ethyl benzene	Xylenes	Lead	WET Lead	TCLP Lead
TP- 1@0.0	mg/kg	--	--	--	--	--	--	--	160	--	--
TP- 1@2.0	mg/kg	--	--	--	--	--	--	--	3.1	--	--
TP- 1@5.0	mg/kg	<1	<5	<0.97	<4.9	<4.9	<4.9	<4.9	3.6	--	--
TP- 2@0.0	mg/kg	--	--	--	--	--	--	--	20	--	--
TP- 2@2.0	mg/kg	<1	<5	<0.97	<4.9	<4.9	<4.9	<4.9	1.6	--	--
TP- 2@5.0	mg/kg	--	--	--	--	--	--	--	2.1	--	--
TP- 3@0.0	mg/kg	--	--	--	--	--	--	--	160	--	--
TP- 3@3.0	mg/kg	--	--	--	--	--	--	--	1.8	--	--
TP- 3@6.0	mg/kg	<.99	<5	<0.95	<4.8	<4.8	<4.8	<4.8	7.0	--	--
TP- 4@0.0	mg/kg	--	--	--	--	--	--	--	170	--	--
TP- 4@2.5	mg/kg	6.3	46	<0.97	<4.9	<4.9	<4.9	<4.9	86	--	--
TP- 4@6.0	mg/kg	--	--	--	--	--	--	--	91	--	--
TP- 5@0.0	mg/kg	--	--	--	--	--	--	--	110	--	--
TP- 5@2.0	mg/kg	<1	<5	<0.93	<4.7	<4.7	<4.7	<4.7	4.5	--	--
TP- 5@6.0	mg/kg	--	--	--	--	--	--	--	2.4	--	--
TP- 6@0.0	mg/kg	--	--	--	--	--	--	--	190	--	--
TP- 6@2.5	mg/kg	--	--	--	--	--	--	--	1.9	--	--
TP- 6@6.0	mg/kg	<1	<5	<0.92	<4.6	<4.6	<4.6	<4.6	2.0	--	--
TP- 7@0.0	mg/kg	--	--	--	--	--	--	--	220	--	--
TP- 7@2.0	mg/kg	<1	<5	<0.93	<4.7	<4.7	<4.7	<4.7	2.1	--	--
TP- 7@6.0	mg/kg	--	--	--	--	--	--	--	2.5	--	--
TP- 8@0.0	mg/kg	--	--	--	--	--	--	--	220	--	--
TP- 8@2.5	mg/kg	4.6	36	<0.95	<4.8	<4.8	<4.8	<4.8	180	--	--
TP- 8@6.0	mg/kg	--	--	--	--	--	--	--	1.7	--	--
TP- 9@0.0	mg/kg	--	--	--	--	--	--	--	220	--	--
TP- 9@2.0	mg/kg	--	--	--	--	--	--	--	1.4	--	--
TP- 9@5.0	mg/kg	<1	<5	<0.95	<4.8	<4.8	<4.8	<4.8	1.3	--	--
TP- 10@0.0	mg/kg	--	--	--	--	--	--	--	150	--	--
TP- 10@2.0	mg/kg	<1	<5	<0.94	<4.7	<4.7	<4.7	<4.7	1.9	--	--
TP- 10@5.0	mg/kg	--	--	--	--	--	--	--	2.2	--	--
TP- 11@0.0	mg/kg	--	--	--	--	--	--	--	200	--	--
TP- 11@2.0	mg/kg	--	--	--	--	--	--	--	15	--	--
TP- 11@5.0	mg/kg	<1	<5	<0.97	<4.9	<4.9	<4.9	<4.9	1.9	--	--
TP- 12@0.0	mg/kg	--	--	--	--	--	--	--	72	--	--
TP- 12@2.0	mg/kg	6.6	81	<0.94	<4.7	<4.7	<4.7	<4.7	110	--	--
TP- 12@5.0	mg/kg	--	--	--	--	--	--	--	19	--	--
COMP-1	mg/l	--	--	--	--	--	--	--	--	3.6	--
COMP-2	mg/l	--	--	--	--	--	--	--	--	7.7	--
Q1 though Q5	mg/l	--	--	--	--	--	--	--	--	--	<0.5

Notes:

Soil samples collected on August 4, 2000

Detected concentrations shown in bold

TEHd. Total Extractable Hydrocarbons as diesel

TEHo Total Extractable Hydrocarbons as motor oil

TVHg Total Volatile Hydrocarbons as gasoline

* Using silica gel cleanup

WET Waste Extraction Test

TCLP Toxic Characteristic Leachability Procedure

mg/kg milligrams per kilogram

mg/l milligrams per liter

-- Sample not analyzed

< Not detected at or above the laboratory reporting limit

COMP - 1 is a composite of TP-4@6', TP-8@6', and TP-12@5'

COMP - 2 is a composite of TP-4@2.5', TP-8@2.5', and TP-12@2.5'

**Table 4: Results for Monitoring Well Locations
Martin Luther King Jr. Way, Between 11th and 12th Street
Oakland, California**

Sample ID	Date	Units	TEHd *	TVHg	Volatile Organic Compounds**									
					Benzene	Toluene	Ethyl Benzene	Xylenes	Propyl benzene	1,3,5-Trimethyl benzene	1,2,4-Trimethyl benzene	n-Butyl benzene	Napthalene	1,2-Dichloroethane
Soil Sample:														
TW-1@18.5	03/03/01	mg/kg	170	680	<500	2,500	1,600	11,000	1,500	4,400	14,000	1,800	2,900	<500
Grab Groundwater Samples:														
TW-1	03/03/01	ug/l	3,100	96,000	4,000	11,000	2,200	13,400	<500	1,200	3,800	<500	<500	<500
TW-2	03/03/01	ug/l	<50	120	<5.0	5.1	<5.0	10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
TW-3	03/03/01	ug/l	<50	70	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	180

Notes:

Detected concentrations shown in bold

TEHd Total Extractable Hydrocarbons as **diesel**TVHg Total Volatile Hydrocarbons as **gasoline**

* Using silica gel cleanup

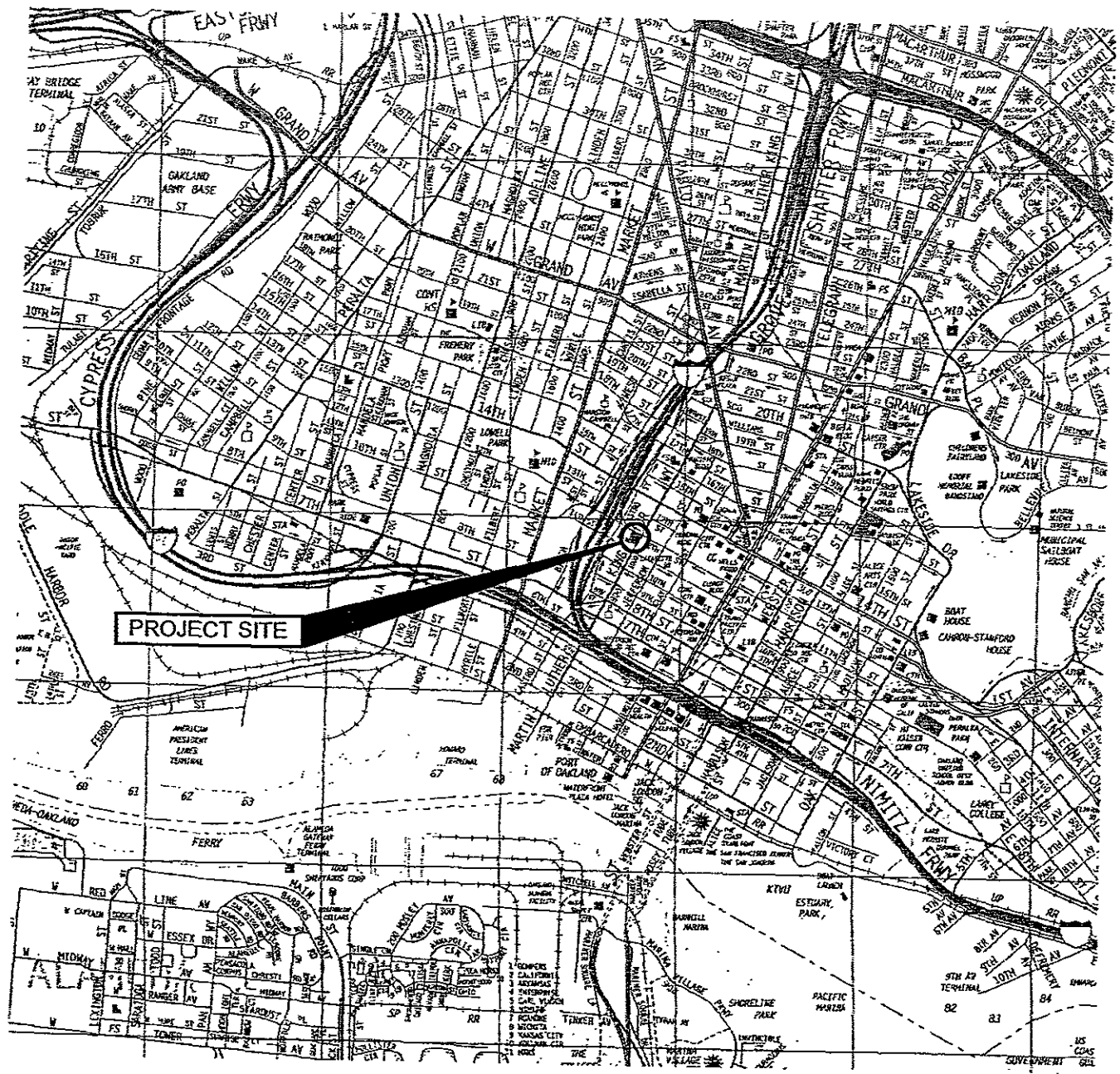
** = only the detected VOC analytes are listed

mg/kg milligrams per kilogram

ug/l micrograms per liter

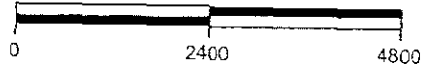
< Not detected at or above the laboratory reporting limit

G:\JOBDOCS\272\272.054\A272 054.03.dwg 3-08-01 10:12:25 AM cyoung



PROJECT SITE

APPROXIMATE SCALE IN FEET



NOTE:

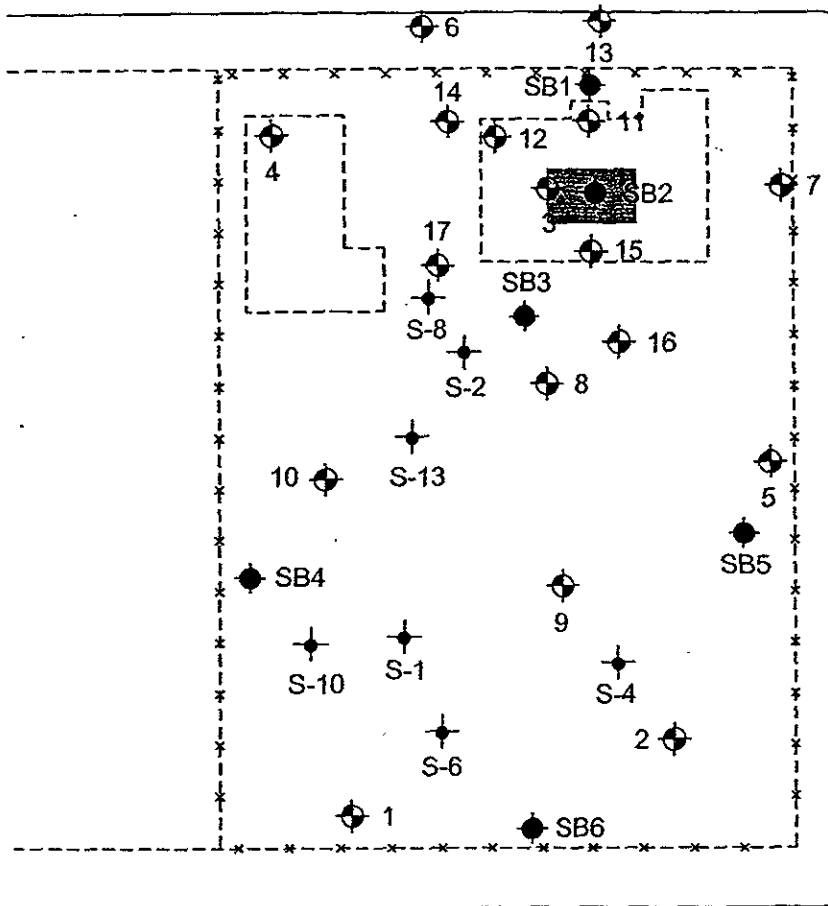
THIS VICINITY MAP IS BASED ON A THOMAS GUIDE MAP FOR SAN FRANCISCO, ALAMEDA AND CONTRA COSTA COUNTIES, CALIFORNIA, MAP 649, YEAR 2000

VICINITY MAP		
12TH STREET AND MARTIN LUTHER KING JR. WAY OAKLAND, CALIFORNIA		
DRAWN BY CFY	DATE 3/8/01	PLATE 1
JOB NUMBER 272 054	FILE NUMBER A272 054.03	



Subsurface Consultants, Inc.
Geotechnical & Environmental Engineers

12TH STREET



MARTIN LUTHER KING JR. WAY

11TH STREET

LEGEND:



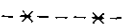
APPROXIMATE LOCATION OF TEST BORING BY SCI



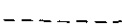
APPROXIMATE LOCATION OF SURFACE SAMPLE BY SCI



SOIL BORING BY OTHERS



FENCE

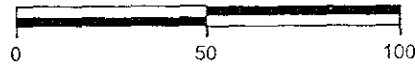


APPROXIMATE LOCATION OF PREVIOUS BASEMENTS



APPROXIMATE LOCATION OF FORMER TANKS

APPROXIMATE SCALE IN FEET



PREVIOUS SAMPLING LOCATIONS

12TH STREET AND MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA



Subsurface Consultants, Inc.
Geotechnical & Environmental Engineers

DRAWN BY
CFY

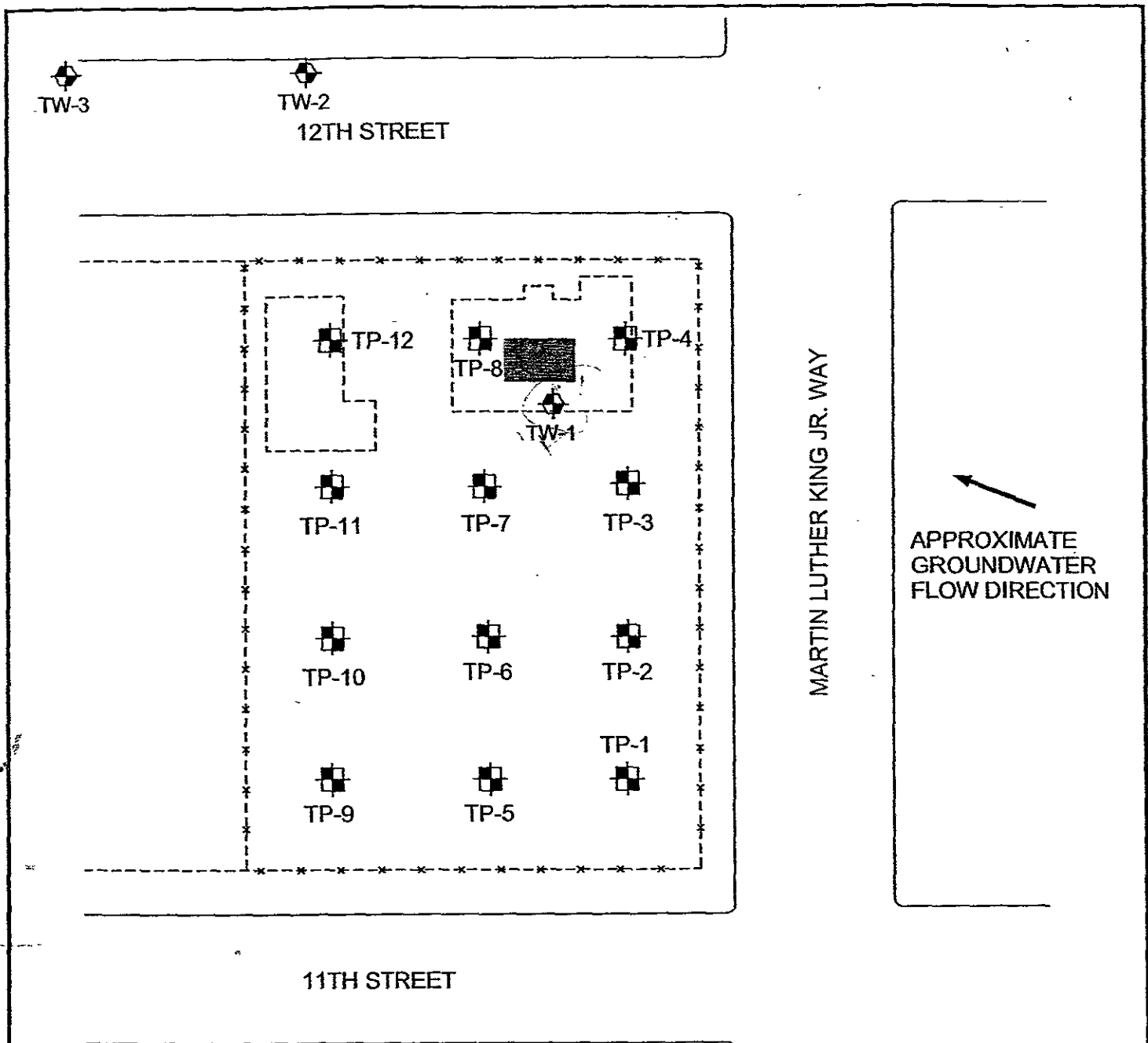
DATE
08/21/00

PLATE




2

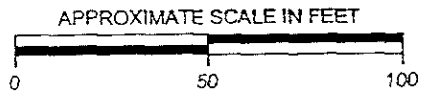
JOB NUMBER
272.054

FILE NUMBER
A272.054.01



LEGEND:

-  APPROXIMATE LOCATION OF MONITORING WELL
-  APPROXIMATE LOCATION OF TEST PIT EXCAVATED ON 8/4/00
- x--x-- FENCE
- - - - - APPROXIMATE LOCATION OF PREVIOUS BASEMENTS
-  APPROXIMATE LOCATION OF FORMER TANKS

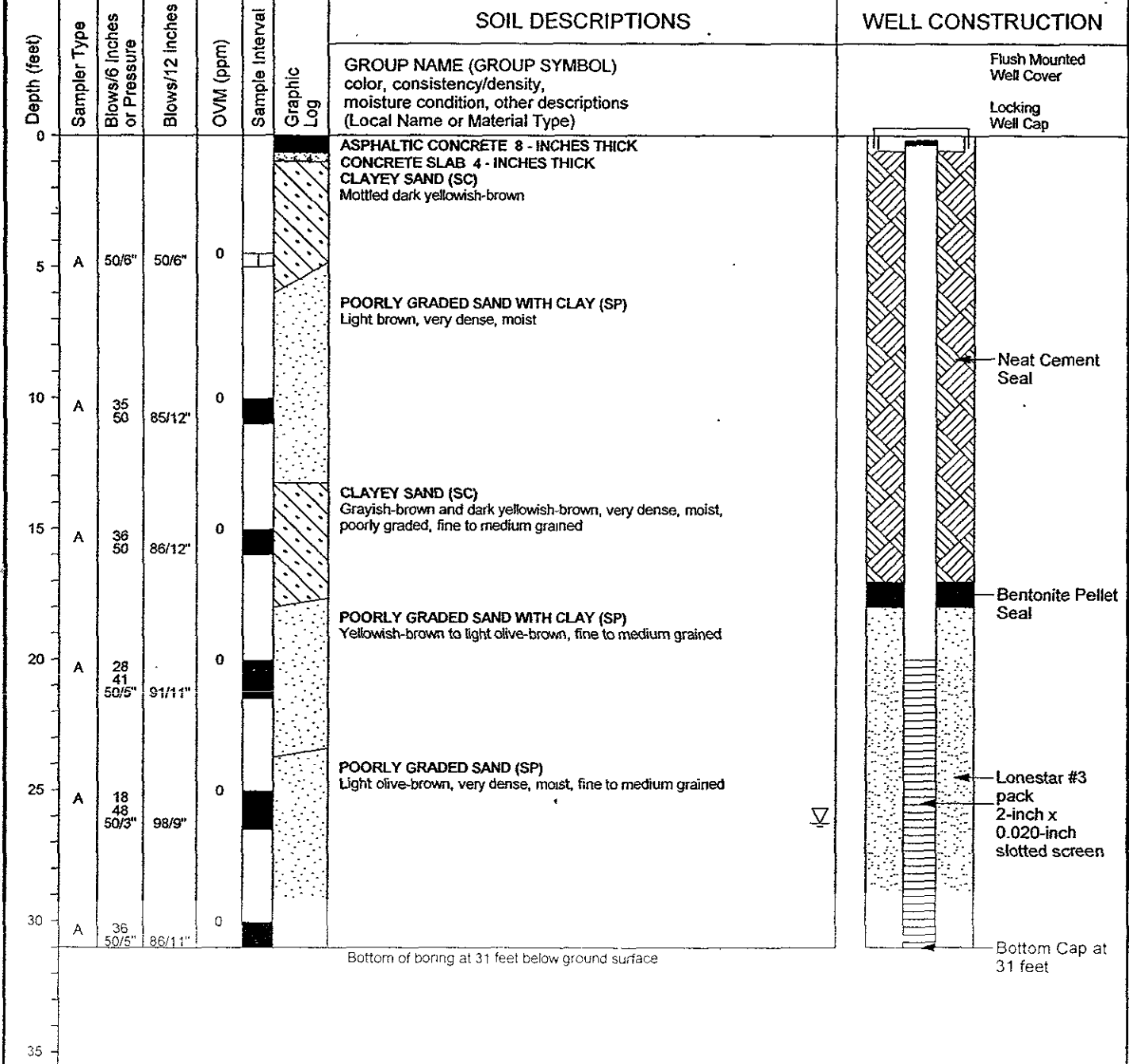


SAMPLE LOCATIONS


12TH STREET AND MARTIN LUTHER KING JR. WAY
OAKLAND, CALIFORNIA

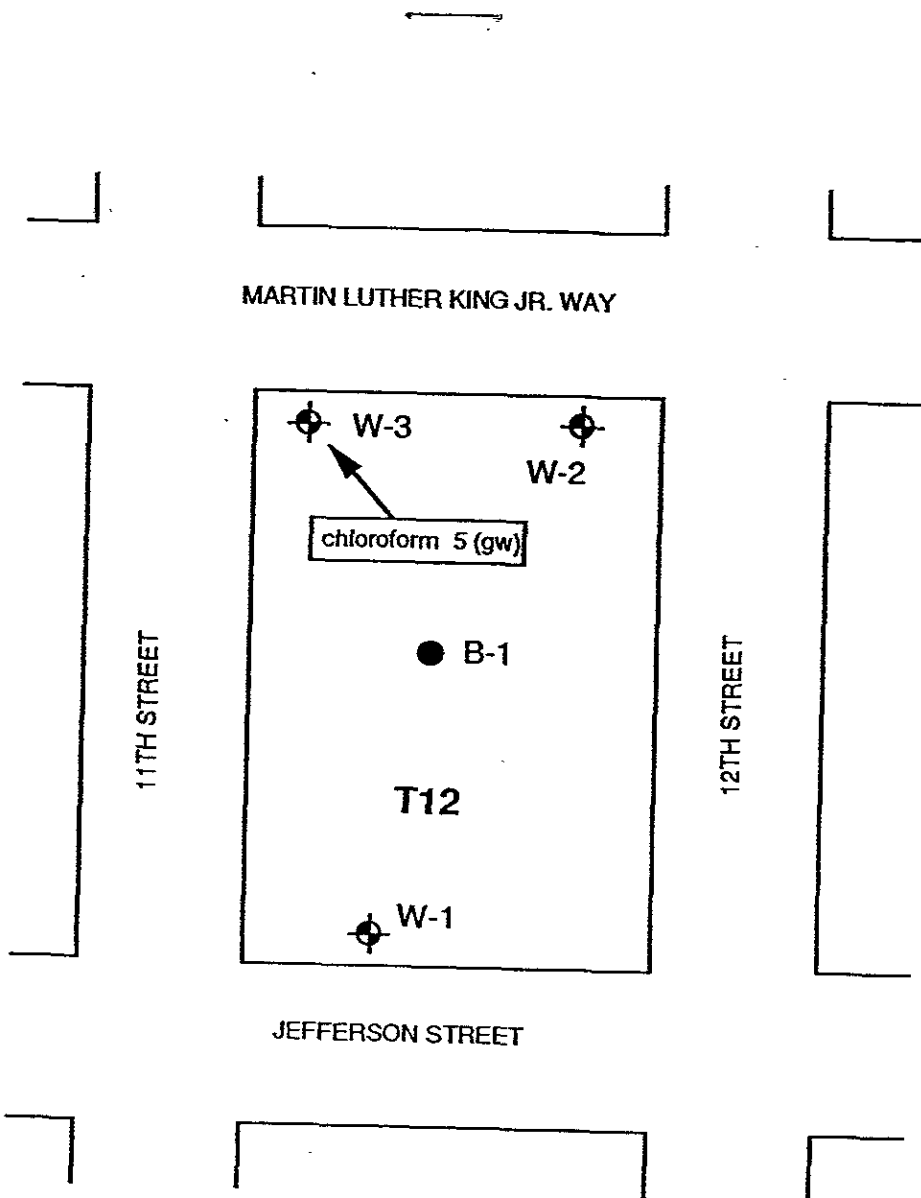
DRAWN BY CFY	DATE 08/21/00	PLATE 3
JOB NUMBER 272.054	FILE NUMBER A272.054.02	

Project Name & Location: 12th Street and Martin Luther King Jr. Way Oakland, California		Ground Surface Elevation:	
Drilling Coordinates: not surveyed		Elevation Datum:	
Drilling Company & Driller: Precision, Terry McAdoo		Start: Date	Time
Rig Type & Drilling Method: Mobile B-4500 / Hollow Stem Auger		3/2/01	07:30
Sampler Type(s): A) Modified California (3" O.D., 2.5" I.D.)		Finish: Date	Time
Sampling Method(s): A) 140 lb hammer with 30" drop (Rope and Cathead)		3/2/01	10:30
		Drilling Fluid:	Hole Diameter:
		None	8 inches
		Logged By:	GWL During Drilling
		JTW	
		Backfill Method:	Date:
		Completed as Well	3/2/01



LOG OF BORING 272-054 GPJ GEO-ENV/GDT 3/14/01

 Subsurface Consultants, Inc. Geotechnical & Environmental Engineers	12th Street and Martin Luther King Jr Way Oakland, California		BORING
	JOB NUMBER	DATE	TW-3
	272 054	3/01	



groundwater gradient
= 0.0036 ft/ft

Approximate
Groundwater
Flow Direction

N

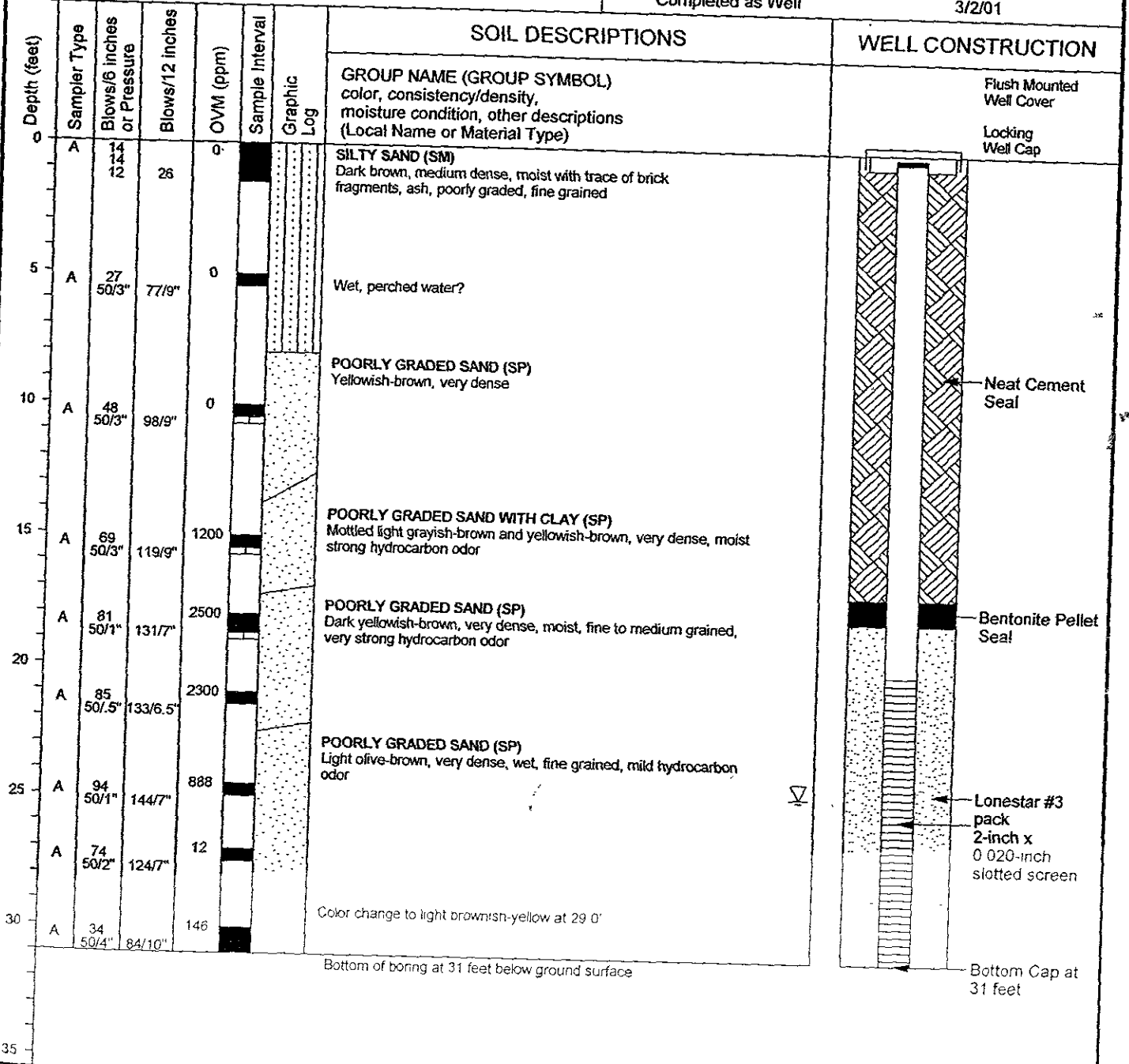
Legend:

- Monitoring Well
- Soil Boring


chloroform 5 (gw) - analysis indicates compound in groundwater (gw) or soil (soil), concentration expressed as ppb

Project No. 90C0039A	City Center Environmental Assesment	PARCEL T12 - BORING AND MONITORING WELL LOCATIONS	FIGURE 4
Woodward-Clyde Consultants			

Project Name & Location: 12th Street and Martin Luther King Jr. Way Oakland, California		Ground Surface Elevation:	
Drilling Coordinates: not surveyed		Elevation Datum:	
Drilling Company & Driller: Precision, Terry McAdoo		Start: Date	Time
Rig Type & Drilling Method: Mobile B-4500 / Hollow Stem Auger		3/2/01	14:00
Sampler Type(s): A) Modified California (3" O.D., 2.5" I.D.)		Finish: Date	Time
Sampling Method(s): A) 140 lb hammer with 30" drop (Rope and Cathead)		3/2/01	17:00
		Drilling Fluid:	Hole Diameter:
		None	8 inches
		Logged By:	GWL During Drilling
		JTW	
		Backfill Method:	Date:
		Completed as Well	3/2/01




LOG OF BORING 272-054 GPJ GEO-ENV GDT 3/21/01

 Subsurface Consultants, Inc. Geotechnical & Environmental Engineers	12th Street and Martin Luther King Jr Way Oakland, California		BORING
	JOB NUMBER 272 054	DATE 3/01	TW-1

Project Name & Location: 12th Street and Martin Luther King Jr. Way Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: not surveyed		Start: Date	Time
Drilling Company & Driller: Precision, Terry McAdoo		3/2/01	10:45
Rig Type & Drilling Method: Mobile B-4500 / Hollow Stem Auger		Finish: Date	Time
		3/2/01	00:00
Sampler Type(s): A) Modified California (3" O.D., 2.5" I.D.)		Drilling Fluid:	Hole Diameter:
		None	8 inches
Sampling Method(s): A) 140 lb hammer with 30" drop (Rope and Cathead)		Logged By:	Time of Day
		JTW	3:00 PM
		Backfill Method:	Date:
		Completed as Well	3/2/01

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS	WELL CONSTRUCTION
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)	Flush Mounted Well Cover Locking Well Cap
0							ASPHALTIC CONCRETE 6 - INCHES THICK CONCRETE SLAB 4 - INCHES THICK POORLY GRADED SAND (SP) Light olive-brown, very dense, moist, fine to medium grained	
5	A	28 37 50/3"	87/9"	0			INTERBEDDED CLAYEY SAND AND POORLY GRADED SAND (SP-SC) Dark yellowish-brown and olive-brown, very dense, moist, fine to medium grained	
10	A	38 50/2"	88/8"	0			POORLY GRADED SAND WITH SILT (SP) Dark yellowish-brown, very dense, moist, fine to medium grained	Neat Cement Seal
15	A	27 50/4"	77/10"	0			POORLY GRADED SAND WITH CLAY (SP) Light olive-brown, very dense, moist, fine to medium grained	
20	A	34 50/3"	84/9"	0			POORLY GRADED SAND (SP) Light olive-brown, very dense, moist, fine to medium grained	Bentonite Pellet Seal
25	A	81/6	81/6"	0			No odor or staining observed for cuttings on auger	Lonestar #3 pack 2-inch x 0.020-inch slotted screen
30	A	47 50/1"	97/7"	0				Bottom Cap at 31 feet
Bottom of boring at 31 feet below ground surface								

LOG OF BORING 272-054.GPJ GEO-ENV.GDT 3/21/01

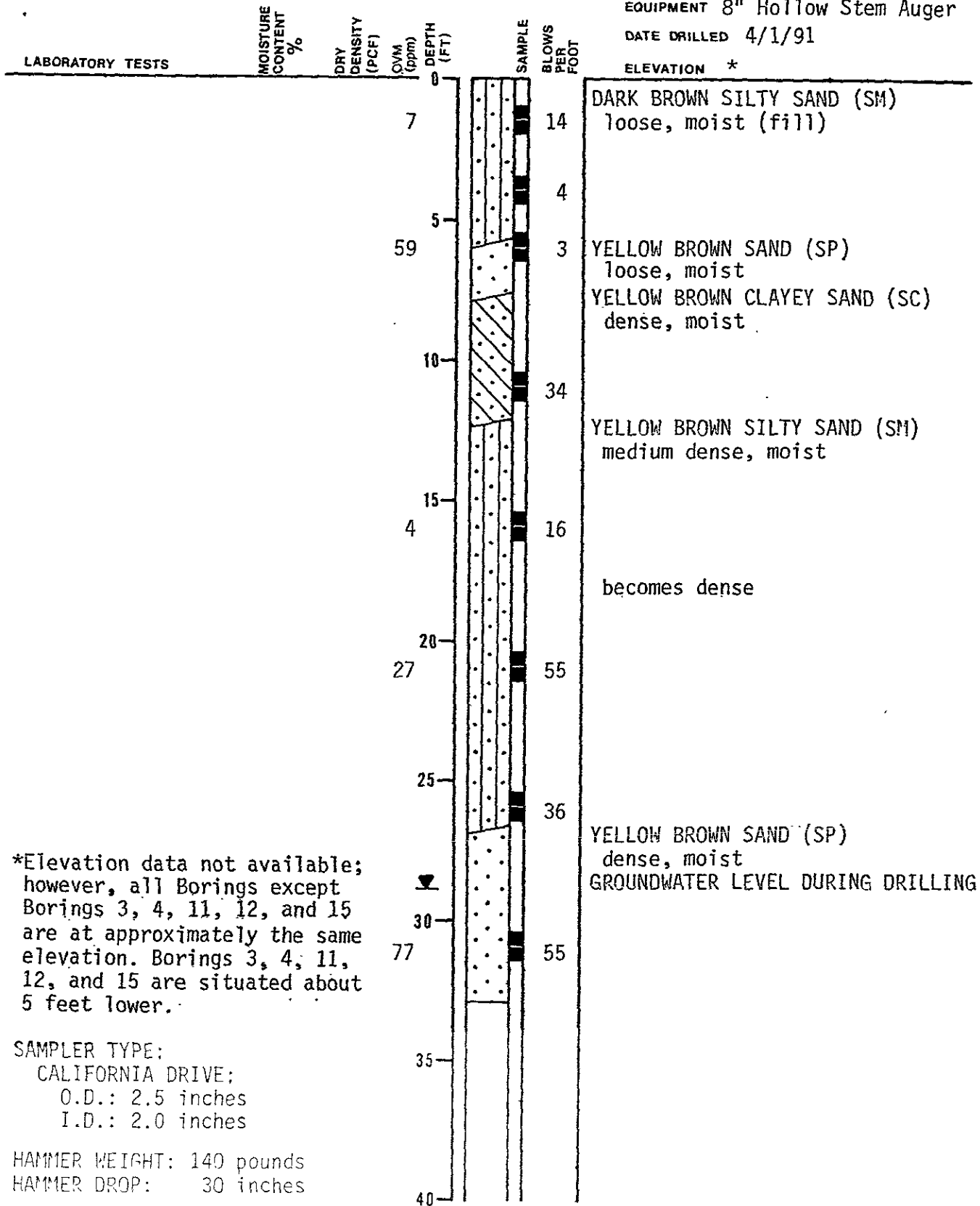
 Subsurface Consultants, Inc. Geotechnical & Environmental Engineers	12th Street and Martin Luther King Jr. Way Oakland, California		BORING
	JOB NUMBER 272 054	DATE 3/01	TW-2

LOG OF TEST BORING 1

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 4/1/91

ELEVATION *



*Elevation data not available; however, all Borings except Borings 3, 4, 11, 12, and 15 are at approximately the same elevation. Borings 3, 4, 11, 12, and 15 are situated about 5 feet lower.

SAMPLER TYPE:
CALIFORNIA DRIVE;
O.D.: 2.5 inches
I.D.: 2.0 inches

HAMMER WEIGHT: 140 pounds
HAMMER DROP: 30 inches

Subsurface Consultants

12TH ST. & MARTIN LUTHER KING JR. WAY

JOB NUMBER
272.021

DATE
4/5/91

APPROVED

JUB

PLATE

A-1

LOG OF TEST BORING 2

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 4/1/91

ELEVATION *

LABORATORY TESTS

MOISTURE
CONTENT
%

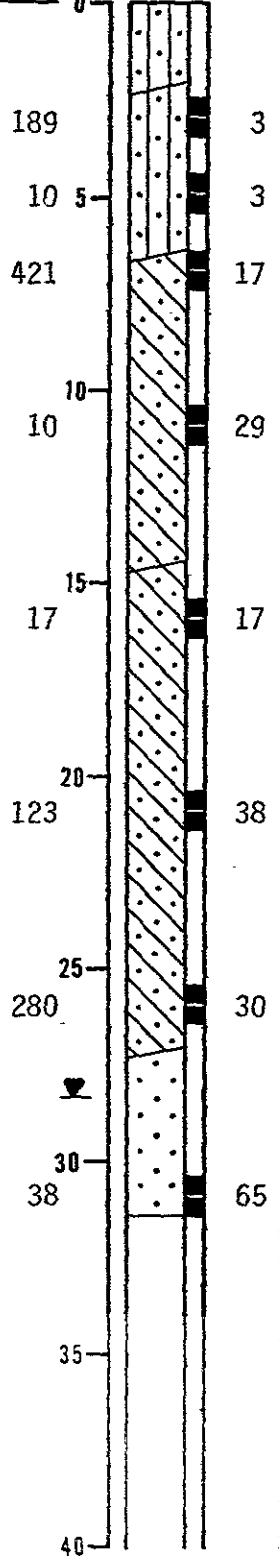
DRY
DENSITY
(PCF)

OVN
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



Subsurface Consultants

12TH ST. & MARTIN LUTHER KING JR. WAY

JOB NUMBER
272.021

DATE
4/5/91

APPROVED
JVB

PLATE

A-2

LOG OF TEST BORING 3

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 4/2/91

ELEVATION *

LABORATORY TESTS

MOISTURE
CONTENT
%

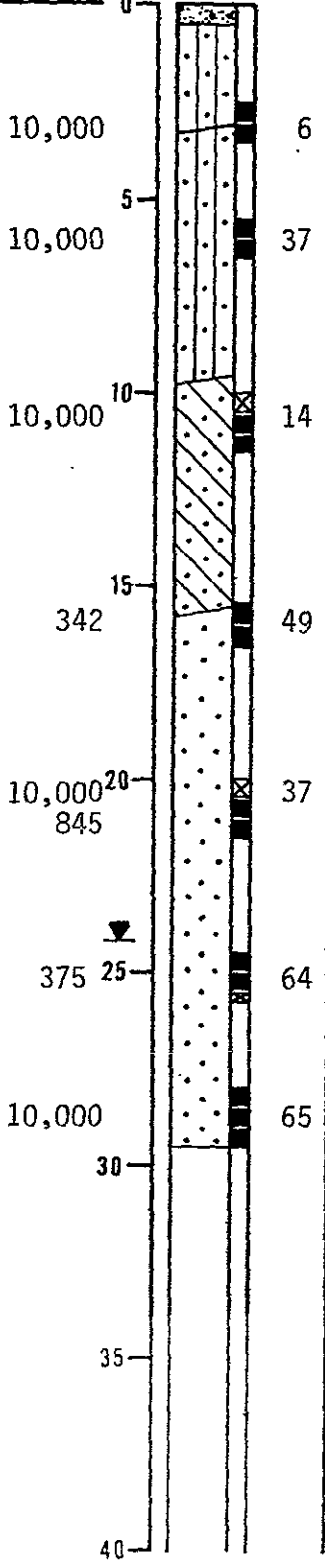
DRY
DENSITY
(PCF)

OVN
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



CONCRETE SLAB - 6" thick
DARK BROWN SILTY SAND (SM/SP)
loose, moist (fill)
GRAY GREEN SILTY SAND (SM/SP)
dense, moist

BROWN CLAYEY SAND (SC)
medium dense, moist

ORANGE BROWN SAND (SP)
dense, moist

becomes green gray and wet
GROUNDWATER LEVEL DURING DRILLING

Subsurface Consultants

12TH ST. & MARTIN LUTHER KING JR. WAY

JOB NUMBER
272.021

DATE
4/5/91

APPROVED
JVB

PLATE

A-3

LOG OF TEST BORING 4

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 4/2/91

ELEVATION *

LABORATORY TESTS

MOISTURE
CONTENT
%

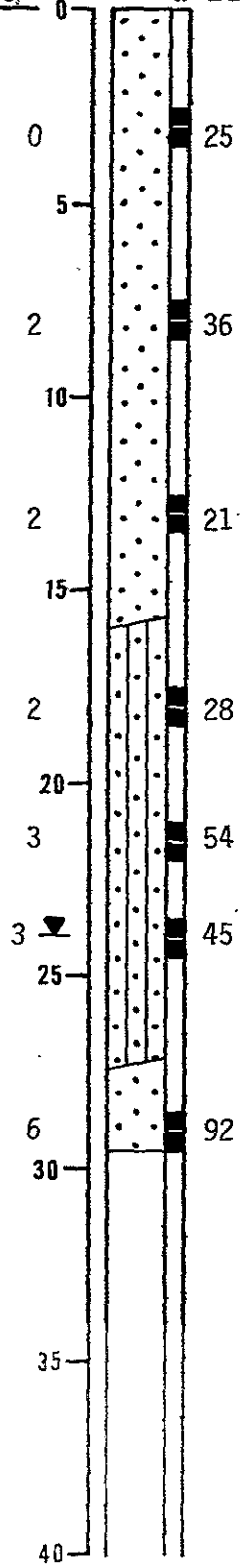
DRY
DENSITY
(PCF)

QVW
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



BROWN SAND (SP)
medium dense to dense, moist

BROWN SILTY SAND (SM/SP)
dense, moist

GROUNDWATER LEVEL DURING DRILLING

BROWN SAND (SP)
very dense, wet

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JOB NUMBER
272.021

DATE
4/5/91

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PLATE

A-4

LOG OF TEST BORING 5

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 4/2/91

ELEVATION *

LABORATORY TESTS

MOISTURE
CONTENT
%

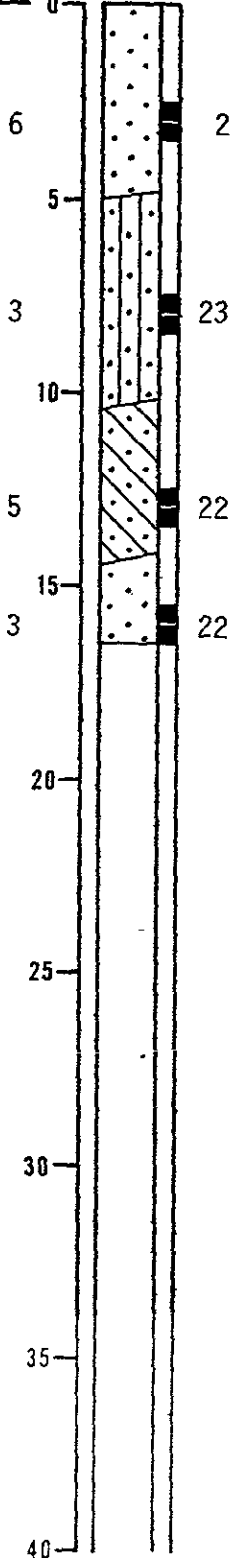
DRY
DENSITY
(PCF)

SVM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



BROWN SAND (SP)
loose, moist (fill)

BROWN SILTY SAND (SM/SP)
medium dense to dense, moist

MOTTLED GRAY & BROWN CLAYEY
SAND (SC)
medium dense to dense, moist

GRAY SAND (SP)
medium dense to dense, moist

NO GROUNDWATER ENCOUNTERED
DURING DRILLING

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JOB NUMBER
272.021

DATE
4/5/91

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PLATE

A-5

LOG OF TEST BORING 6

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/13/91

ELEVATION *

LABORATORY TESTS

MOISTURE
CONTENT
%

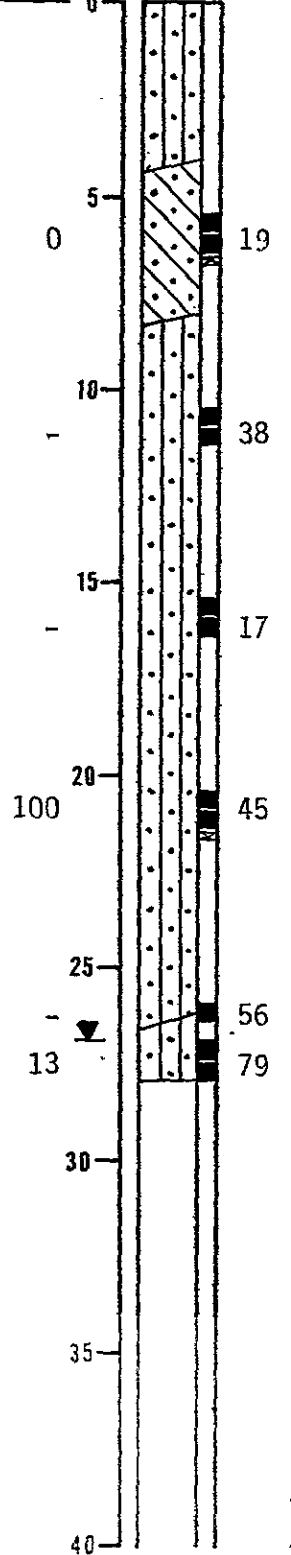
DRY
DENSITY
(PCF)

QVAM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



DARK BROWN SILTY SAND (SM)
loose to medium dense (fill)

RED BROWN CLAYEY SAND (SC)
medium dense to dense, moist

BROWN SILTY SAND (SM)
dense, moist

GROUNDWATER LEVEL DURING DRILLING
BROWN SILTY SAND (SM/SP)
dense to very dense, wet
Boring backfilled with cement
grout

Subsurface Consultants

12TH ST. & MARTIN LUTHER KING JR. WAY

JOB NUMBER
272.021

DATE
5/23/91

APPROVED
JUB

PLATE

A-6

LOG OF TEST BORING 7

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/13/91

ELEVATION *

LABORATORY TESTS

MOISTURE
CONTENT
%

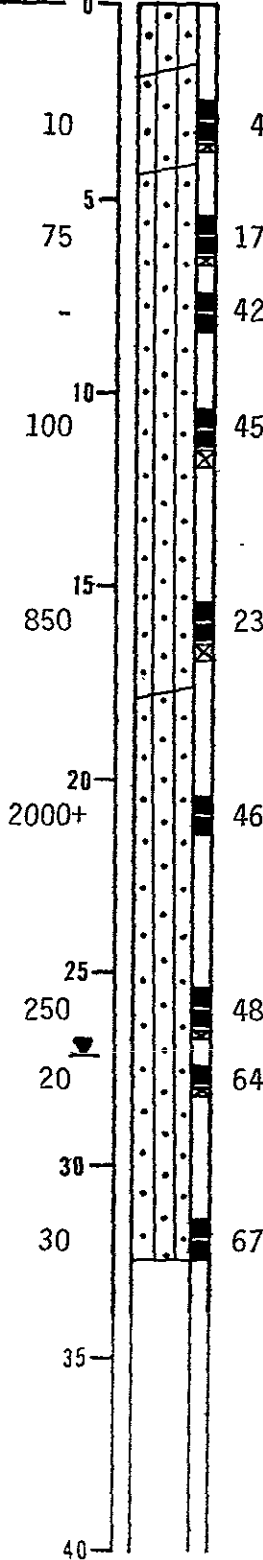
DRY
DENSITY
(PCF)

OWM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



DARK BROWN SILTY SAND (SM)

loose, moist (fill)

BROWN SILTY SAND (SM)

loose, moist

RED BROWN SILTY SAND (SM)

dense, moist

BROWN GRAY SILTY SAND (SM/SP)

dense, moist

hydrocarbon odor

GROUNDWATER LEVEL DURING DRILLING

color change to brown

Boring backfilled with cement
grout

Subsurface Consultants

12TH ST. & MARTIN LUTHER KING JR. WAY

JOB NUMBER

272.021

DATE

5/23/91

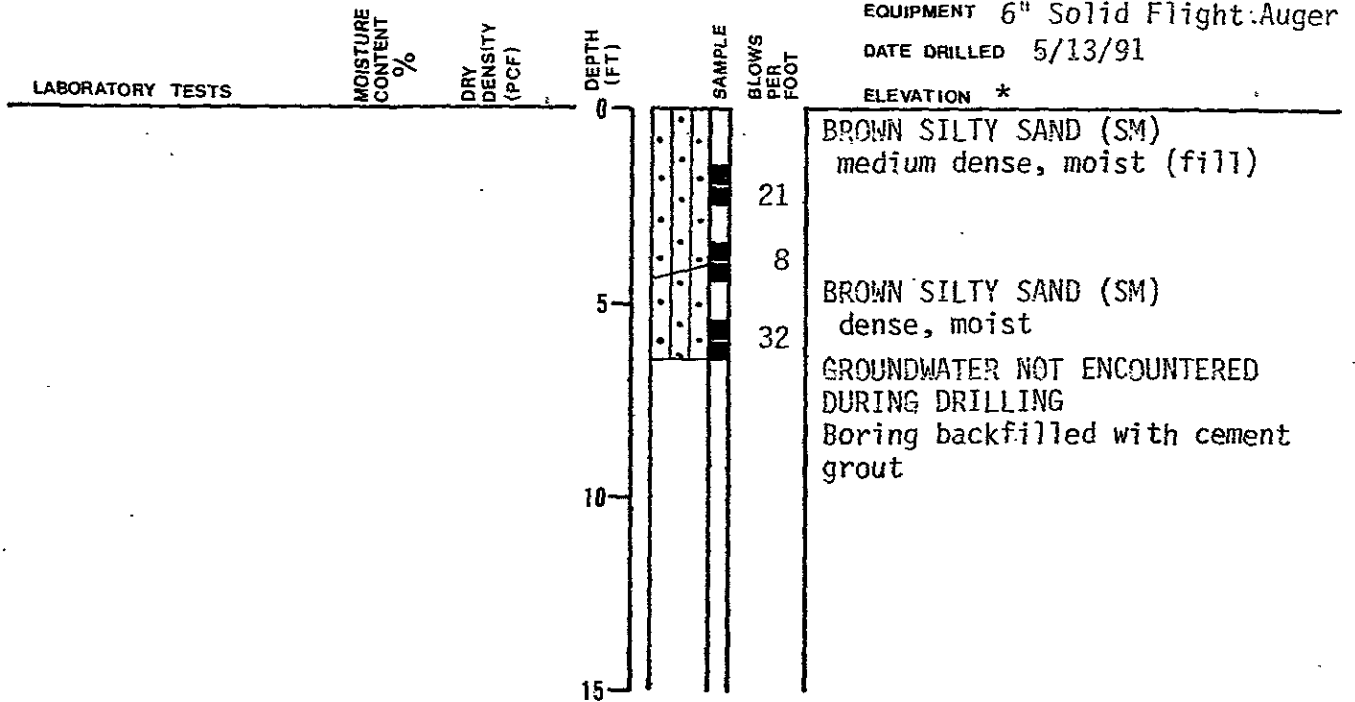
APPROVED

JVB

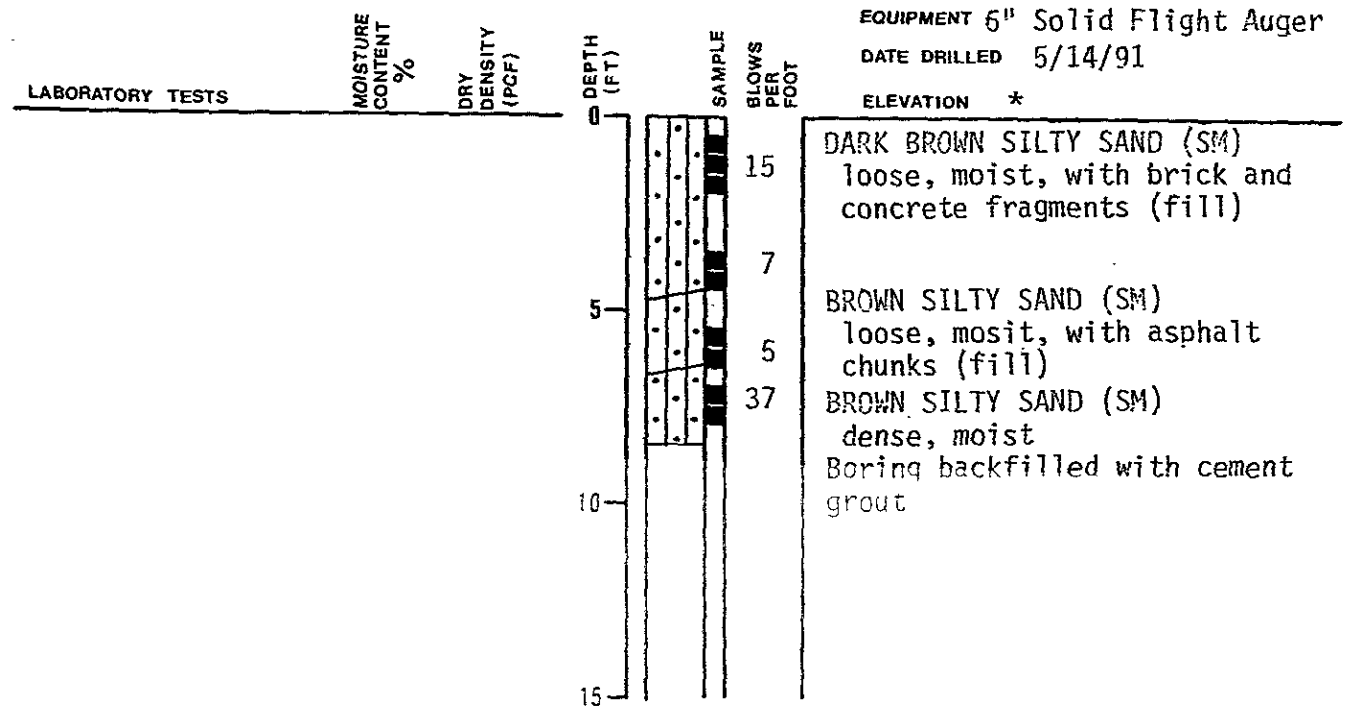
PLATE

A-7

LOG OF TEST BORING 8



LOG OF TEST BORING 9



Subsurface Consultants

12TH ST. & MARTIN LUTHER KING JR. WAY

PLATE

JOB NUMBER

DATE

APPROVED

272.021

5/23/91

JVB

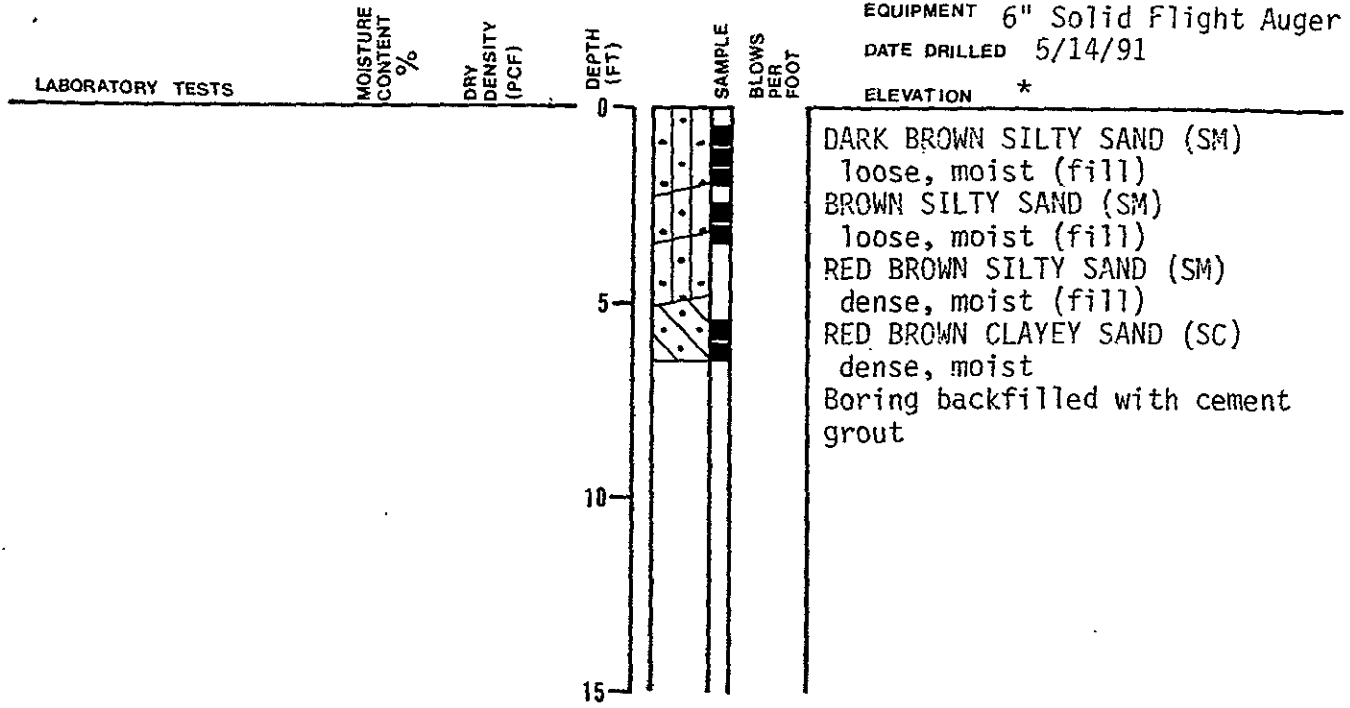
A-8

LOG OF TEST BORING 10

EQUIPMENT 6" Solid Flight Auger

DATE DRILLED 5/14/91

ELEVATION *



DARK BROWN SILTY SAND (SM)
 loose, moist (fill)
 BROWN SILTY SAND (SM)
 loose, moist (fill)
 RED BROWN SILTY SAND (SM)
 dense, moist (fill)
 RED BROWN CLAYEY SAND (SC)
 dense, moist
 Boring backfilled with cement
 grout

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12TH ST. & MARTIN LUTHER KING JR. WAY

PLATE

JOB NUMBER

DATE

APPROVED

272.021

5/23/91

JVB

A-9

LOG OF TEST BORING 11

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/13/91

ELEVATION *

LABORATORY TESTS

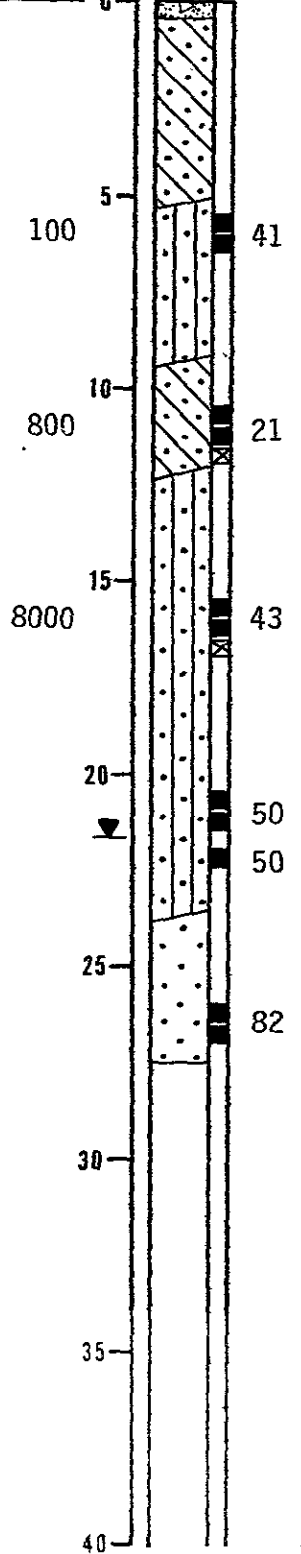
MOISTURE
CONTENT
%

DRY
DENSITY
(PCF)
CVM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



CONCRETE SLAB - 6" thick
RED BROWN CLAYEY SAND (SC)
medium dense to dense, moist

RED BROWN SILTY SAND (SM)
dense, moist

GRAY BROWN CLAYEY SAND (SC)
dense, moist

RED BROWN SILTY SAND (SM/SP)
dense, moist

hydrocarbon odor

color change to gray-green

GROUNDWATER LEVEL DURING DRILLING

BROWN SAND (SP)
dense, wet

Boring backfilled with cement
grout

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12TH ST. & MARTIN LUTHER KING JR. WAY

JOB NUMBER

272.021

DATE

5/23/91

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JVB

PLATE

A-10

LOG OF TEST BORING 12

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/13/91

ELEVATION *

LABORATORY TESTS

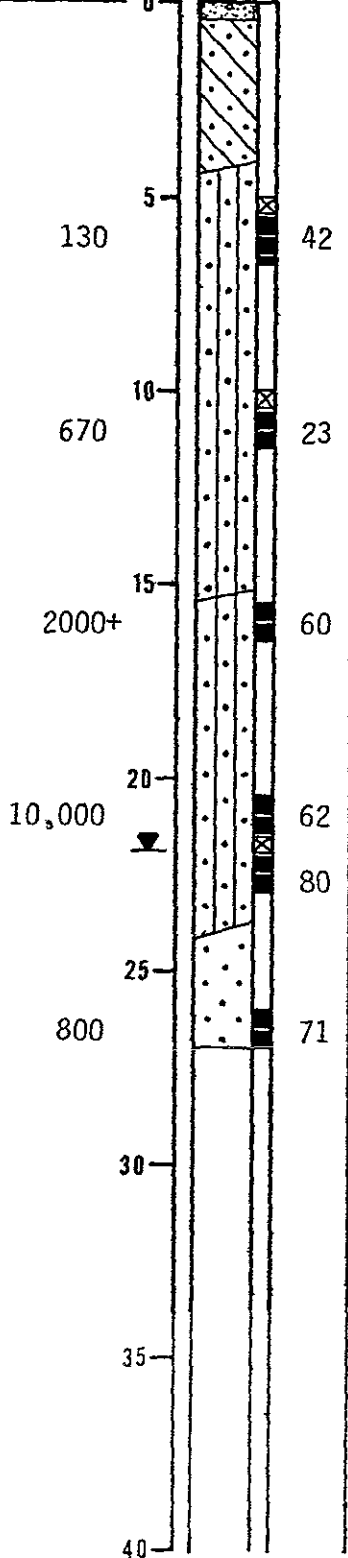
MOISTURE
CONTENT
%

DRY
DENSITY
(PCF)
OVM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



CONCRETE SLAB - 6" thick
RED BROWN CLAYEY SAND (SC)
dense, moist

RED BROWN SILTY SAND (SM)
dense, moist

slight increase in clay content

RED BROWN SILTY SAND (SM/SP)
dense, moist
hydrocarbon odor

color change to gray-green

GROUNDWATER LEVEL DURING DRILLING

BROWN SAND (SP)
dense, wet

Boring backfilled with cement
grout

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12TH ST. & MARTIN LUTHER KING JR. WAY

PLATE

JOB NUMBER

272.021

DATE

5/23/91

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JVB

A-11

LOG OF TEST BORING 13

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/14/91

ELEVATION *

LABORATORY TESTS

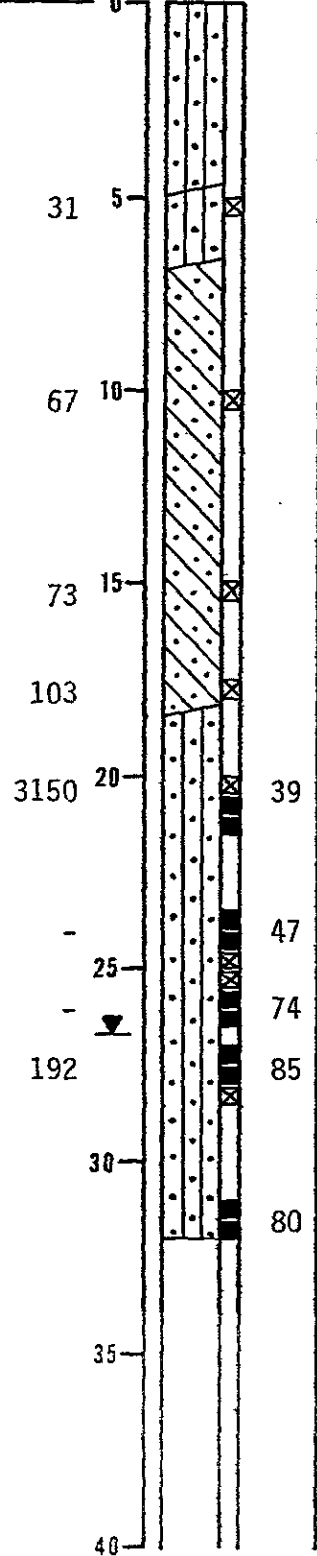
MOISTURE
CONTENT
%

DRY
DENSITY
(PCF)
OVM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



DARK BROWN SILTY SAND (SM)
loose to medium dense, moist
(fill)

BROWN SILTY SAND (SM)
medium dense to dense, moist
RED BROWN CLAYEY SAND (SC)
dense, moist

color change to brown

BROWN GRAY SILTY SAND (SM/SP)
dense, moist

GROUNDWATER LEVEL DURING DRILLING
cecrease in silt content

Boring backfilled with cement
grout

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12TH ST. & MARTIN LUTHER KING JR. WAY

JOB NUMBER
272.021

DATE
5/23/91

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PLATE

A-12

LOG OF TEST BORING 14

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/14/91

ELEVATION *

LABORATORY TESTS

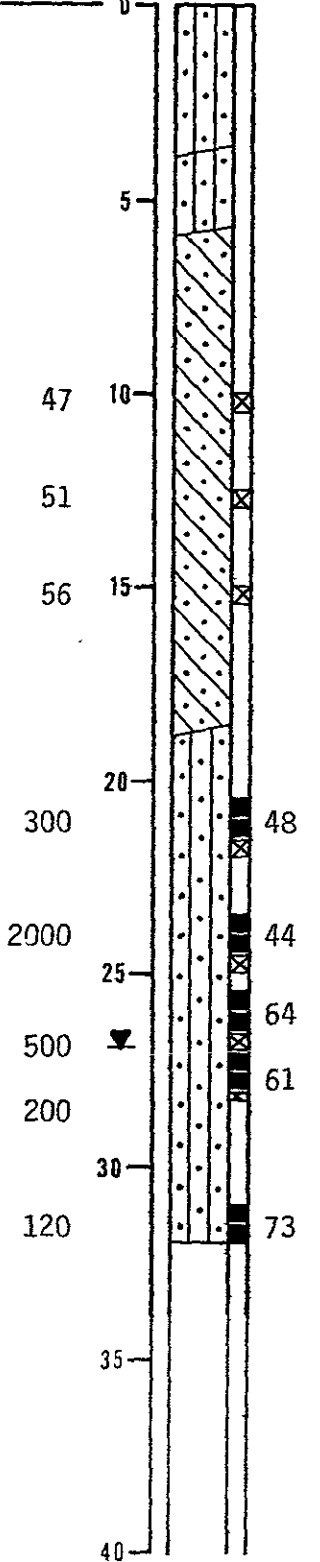
MOISTURE
CONTENT
%

DRY
DENSITY
(PCF)
OVM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



DARK BROWN SILTY SAND (SM)
loose, moist (fill)

BROWN SILTY SAND (SM)
medium dense, moist

RED BROWN CLAYEY SAND (SC)
dense, moist

decrease in clay content

BROWN SILTY SAND (SM/SP)
dense, moist

hydrocarbon odor
color change to gray-brown

GROUNDWATER LEVEL DURING DRILLING

decrease in silt content

Boring backfilled with cement
grout

Subsurface Consultants

12TH ST. & MARTIN LUTHER KING JR. WAY

JOB NUMBER
272.021

DATE
5/23/91

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JVB

PLATE

A-13

LOG OF TEST BORING 15

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/14/91

ELEVATION *

LABORATORY TESTS

MOISTURE
CONTENT
%

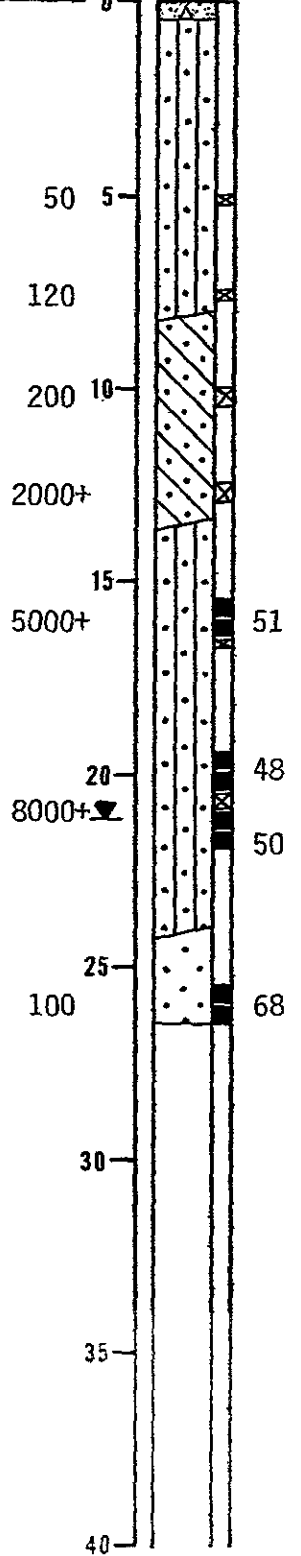
DRY
DENSITY
(PCF)

OVN
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



CONCRETE SLAB - 6" thick
RED BROWN SILTY SAND (SM)
dense, moist

BROWN CLAYEY SAND (SC)
dense, moist

RED BROWN SILTY SAND (SM/SP)
dense, moist

color change to gray-green
GROUNDWATER LEVEL DURING DRILLING

BROWN SAND (SP)
dense, wet

Boring backfilled with cement
grout

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PLATE

JOB NUMBER
272.021

DATE
5/23/91

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JVB

A-14

LOG OF TEST BORING 16

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/14/91

ELEVATION *

LABORATORY TESTS

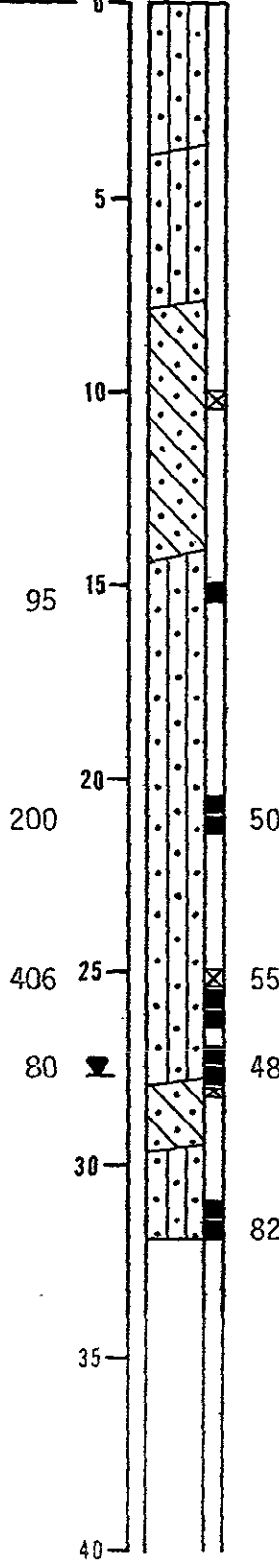
MOISTURE
CONTENT
%

DRY
DENSITY
(PCF)
OVM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



DARK BROWN SILTY SAND (SM)
loose, moist (fill)

BROWN SILTY SAND (SM)
medium dense to dense, moist

RED BROWN CLAYEY SAND (SC)
dense, moist

BROWN SILTY SAND (SM/SP)
dense, moist

GROUNDWATER LEVEL DURING DRILLING
BROWN CLAYEY SAND (SC)
dense, wet

BROWN SILTY SAND (SM/SP)
dense, wet

Boring backfilled with cement
grout

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PLATE

JOB NUMBER
272.021

DATE
5/23/91

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A-15

LOG OF TEST BORING 17

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/14/91

ELEVATION *

LABORATORY TESTS

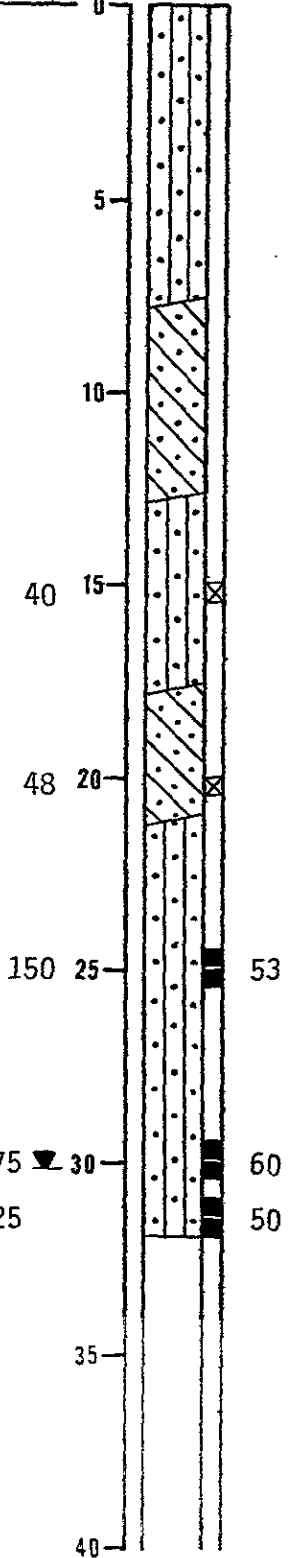
MOISTURE
CONTENT
%

DRY
DENSITY
(PCF)
OVM
(ppm)

DEPTH
(FT)

SAMPLE

BLOWS
PER
FOOT



DARK BROWN SILTY SAND (SM)
loose, moist (fill)

BROWN CLAYEY SAND (SC)
dense, moist

RED BROWN SILTY SAND (SM)
dense, moist

BROWN CLAYEY SAND (SC)
dense, moist

RED BROWN SILTY SAND (SM/SP)
dense, moist

GROUNDWATER LEVEL DURING DRILLING

Boring backfilled with cement
grout

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12TH ST. & MARTIN LUTHER KING, JR. WAY

PLATE

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272.021

DATE
5/23/91

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A-16

GENERAL SOIL CATEGORIES			SYMBOLS	TYPICAL SOIL TYPES	
COARSE GRAINED SOILS More than half is larger than No. 200 sieve	GRAVEL More than half coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines	GW	Well Graded Gravel, Gravel-Sand Mixtures	
			GP	Poorly Graded Gravel, Gravel-Sand Mixtures	
		Gravel with more than 12% fines	GM	Silty Gravel, Poorly Graded Gravel-Sand-Silt Mixtures	
			GC	Clayey Gravel, Poorly Graded Gravel-Sand-Clay Mixtures	
	SAND More than half coarse fraction is smaller than No. 4 sieve size	Clean sand with little or no fines	SW	Well Graded Sand, Gravelly Sand	
			SP	Poorly Graded Sand, Gravelly Sand	
		Sand with more than 12% fines	SM	Silty Sand, Poorly Graded Sand-Silt Mixtures	
			SC	Clayey Sand, Poorly Graded Sand-Clay Mixtures	
			SILT AND CLAY Liquid Limit Less than 50%	ML	Inorganic Silt and Very Fine Sand, Rock Flour, Silty or Clayey Fine Sand, or Clayey Silt with Slight Plasticity
				CL	Inorganic Clay of Low to Medium Plasticity, Gravelly Clay, Sandy Clay, Silty Clay, Lean Clay
OL	Organic Clay and Organic Silty Clay of Low Plasticity				
SILT AND CLAY Liquid Limit Greater than 50%	MH	Inorganic Silt, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silt			
	CH	Inorganic Clay of High Plasticity, Fat Clay			
	OH	Organic Clay of Medium to High Plasticity, Organic Silt			
HIGHLY ORGANIC SOILS			PT	Peat and Other Highly Organic Soils	

UNIFIED SOIL CLASSIFICATION SYSTEM

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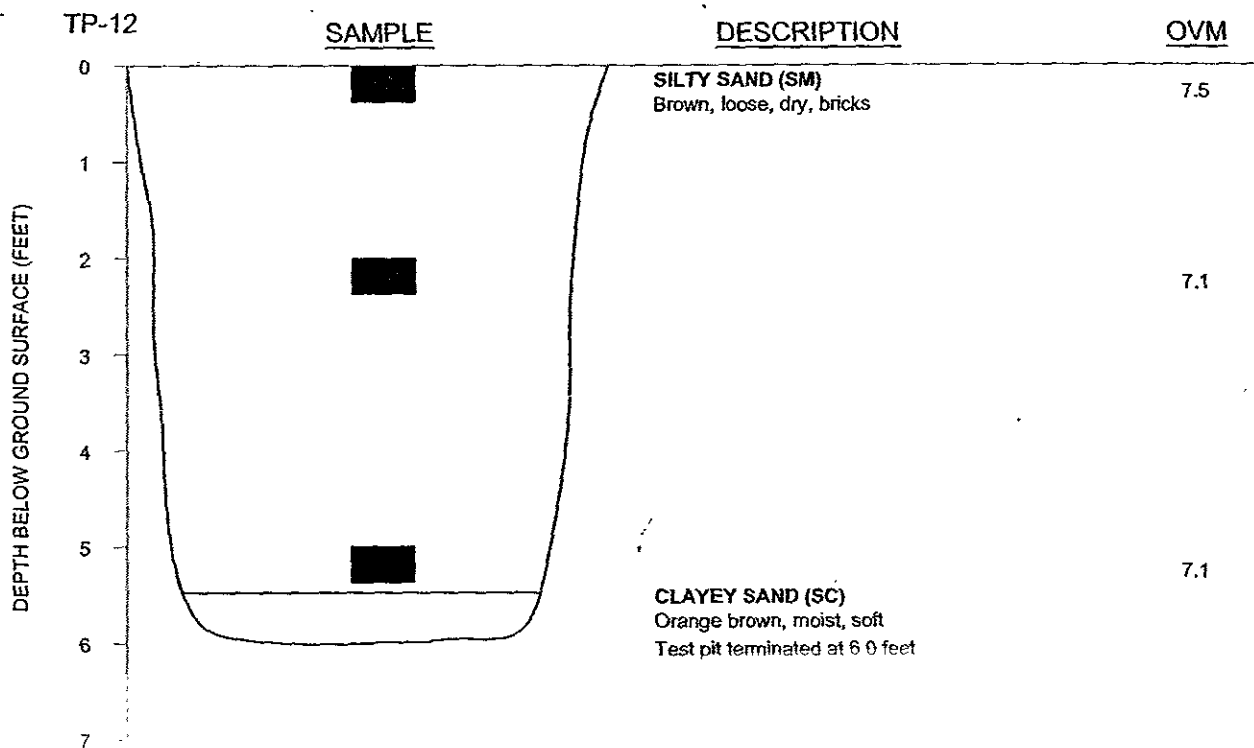
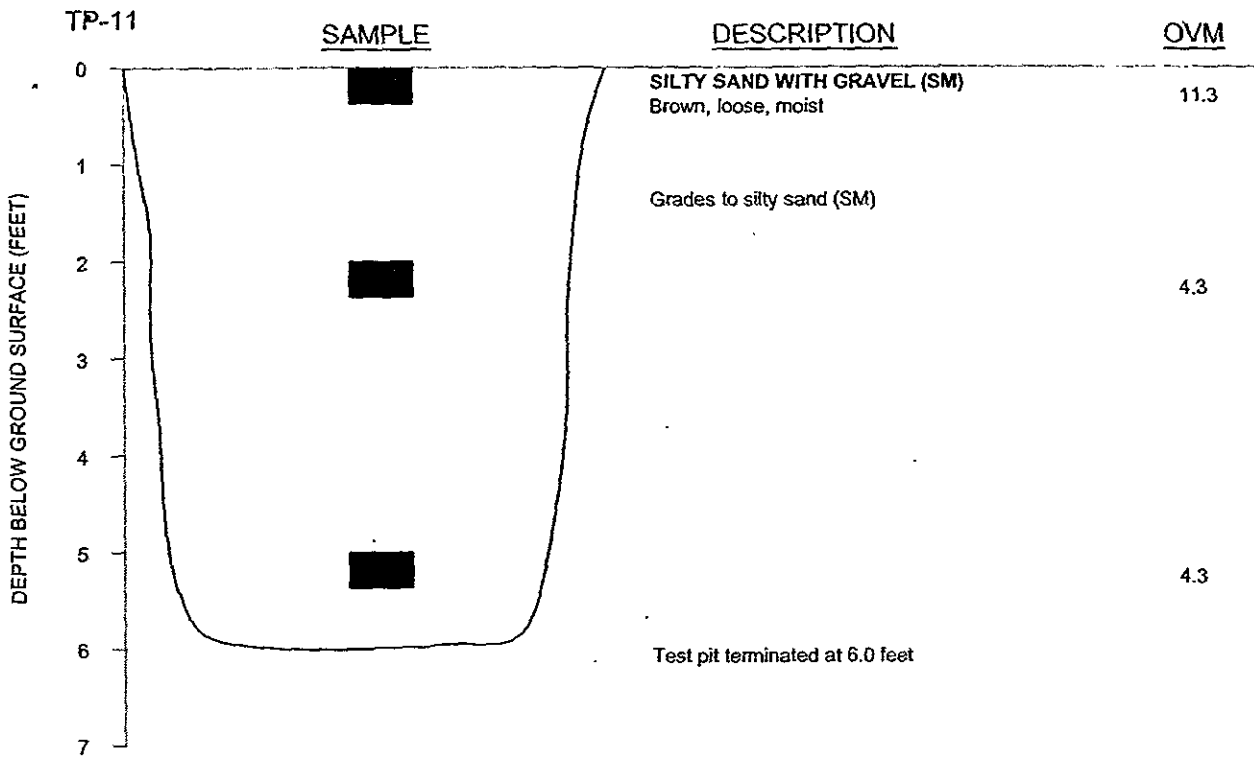
JOB NUMBER
272.021

DATE
4/23/91

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PLATE

A-17



TEST PIT LOGS

MLK. JR. WAY BETWEEN 11TH AND 12TH STREETS
OAKLAND, CALIFORNIA



DRAWN BY CFY	DATE 9/13/00	TEST PIT TP-11 & TP-12
JOB NUMBER 272.054	FILE NUMBER A272.054.04	

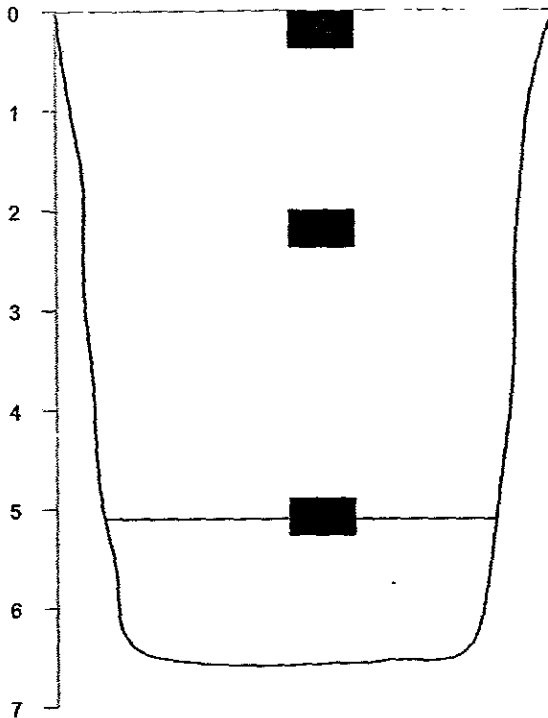
TP-9

SAMPLE

DESCRIPTION

OVM

DEPTH BELOW GROUND SURFACE (FEET)



SILTY SAND WITH GRAVEL (SM)
Brown, loose, dry, bricks

7.5

Grades to silty sand (SM)

5.1

CLAYEY SAND (SC)
Brown - mottled orange, moist, medium stiff

5.1

Test pit terminated at 6.5 feet

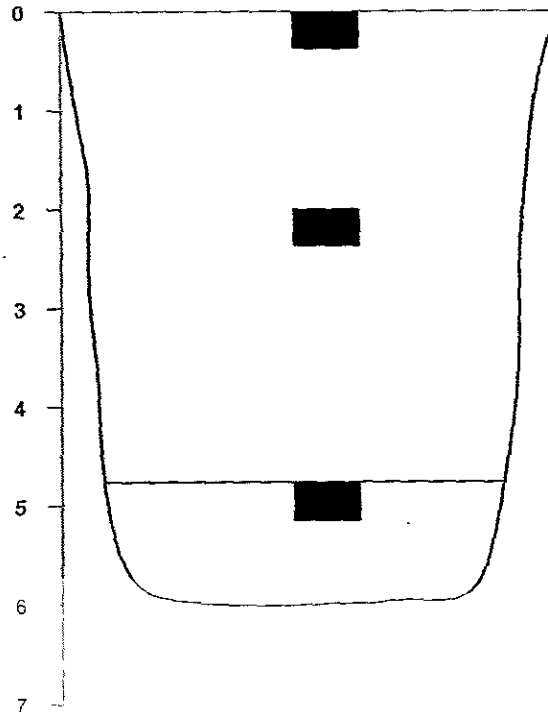
TP-10

SAMPLE

DESCRIPTION

OVM

DEPTH BELOW GROUND SURFACE (FEET)



SILTY SAND WITH GRAVEL (SM)
Brown, loose, dry

7.5

Grades to a poorly graded, silty sand

7.3

CLAYEY SAND (SC)
Brown - mottled orange, moist, medium stiff

7.2

Test pit terminated at 6.0 feet

TEST PIT LOGS

MLK. JR. WAY BETWEEN 11TH AND 12TH STREETS
OAKLAND, CALIFORNIA

DRAWN BY:

CFY

DATE

9/13/00

TEST PIT

**TP-9 &
TP-10**

JOB NUMBER

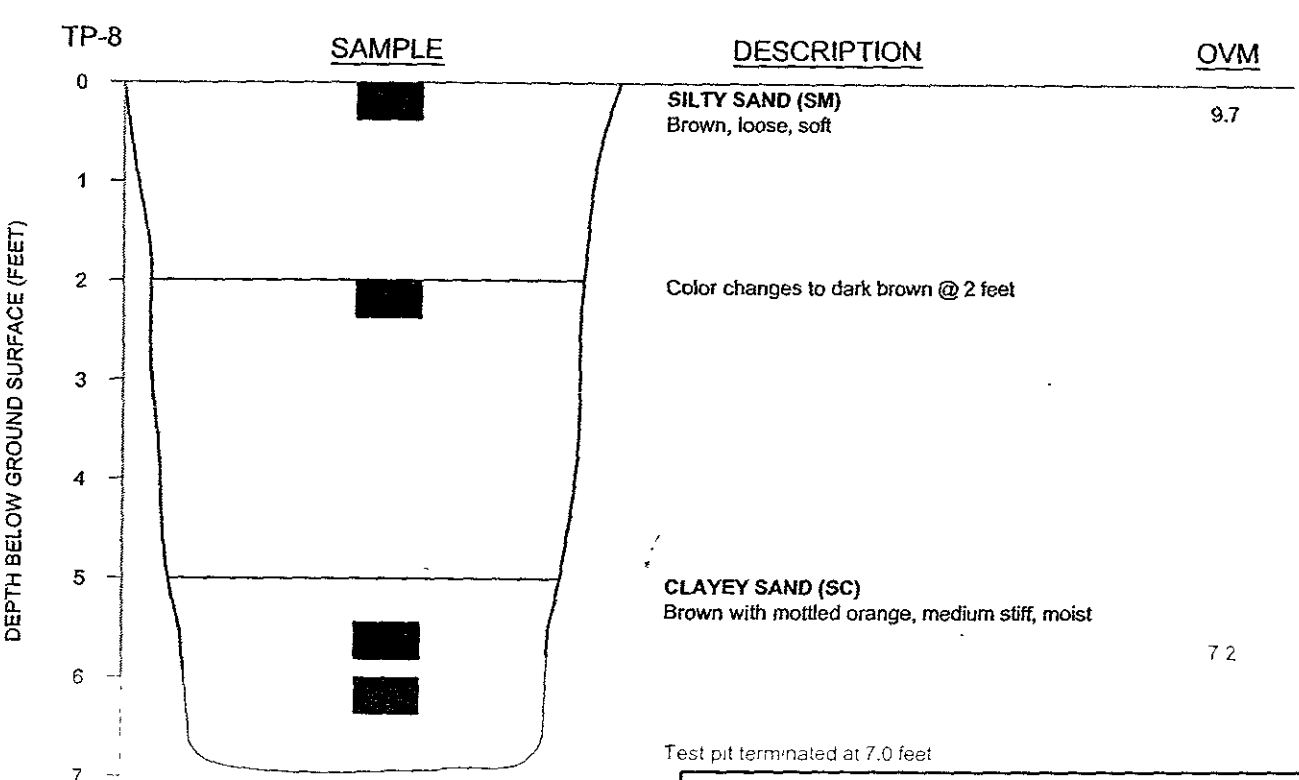
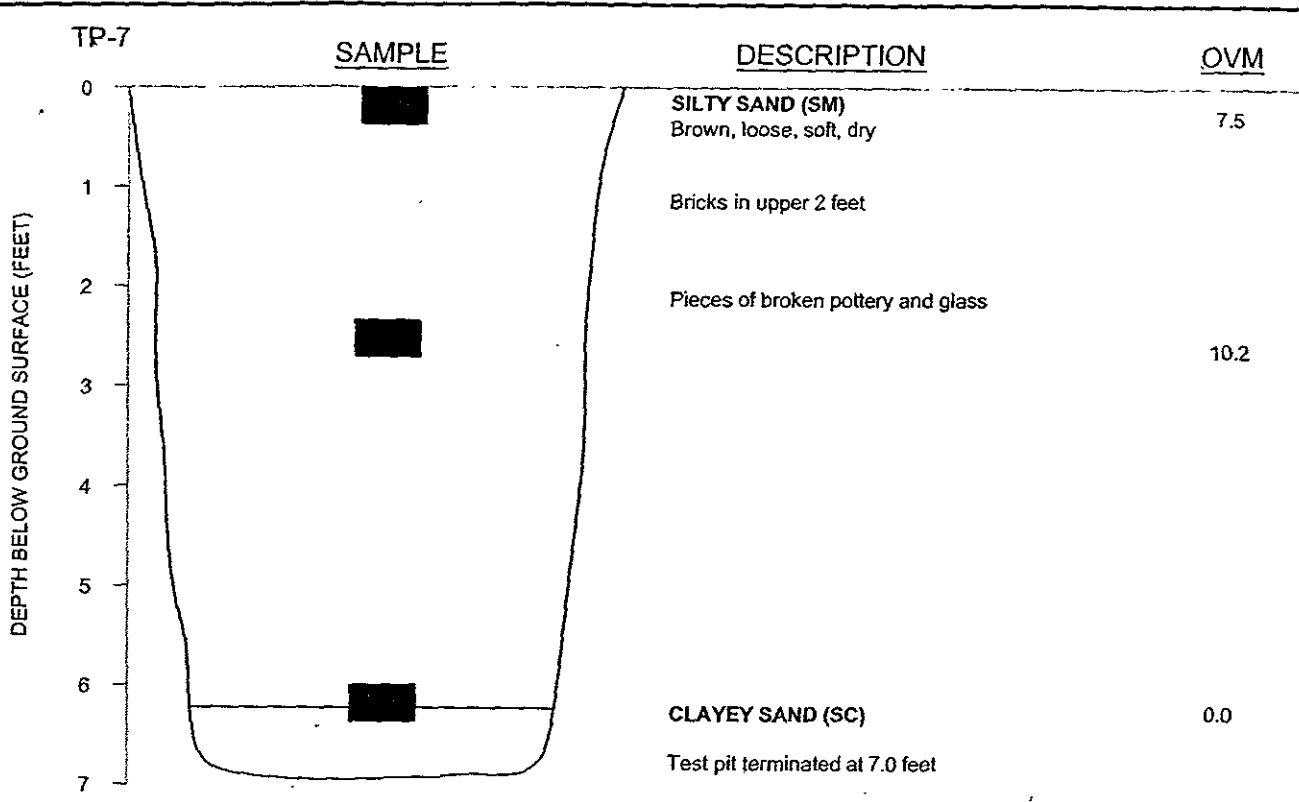
272.054

FILE NUMBER

A272.054.04



Subsurface Consultants, Inc.
Geotechnical & Environmental Engineers



TEST PIT LOGS		
MLK JR. WAY BETWEEN 11TH AND 12TH STREETS OAKLAND, CALIFORNIA		
DRAWN BY CFY	DATE 9/13/00	TEST PIT TP-7 & TP-8
JOB NUMBER 272 054	FILE NUMBER A272.054 04	



TP-5

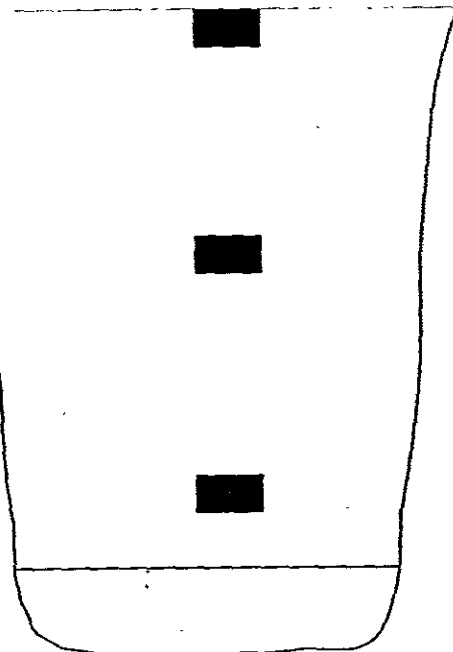
DEPTH BELOW GROUND SURFACE (FEET)

0
1
2
3
4
5
6
7

SAMPLE

DESCRIPTION

OVM



SILTY SAND (SM)
Brown, loose, dry, soft

8.6

9.1

9.1

CLAYEY SAND (SC)
Mottled orange, loose, soft

Test pit terminated at 6.5 feet

TP-6

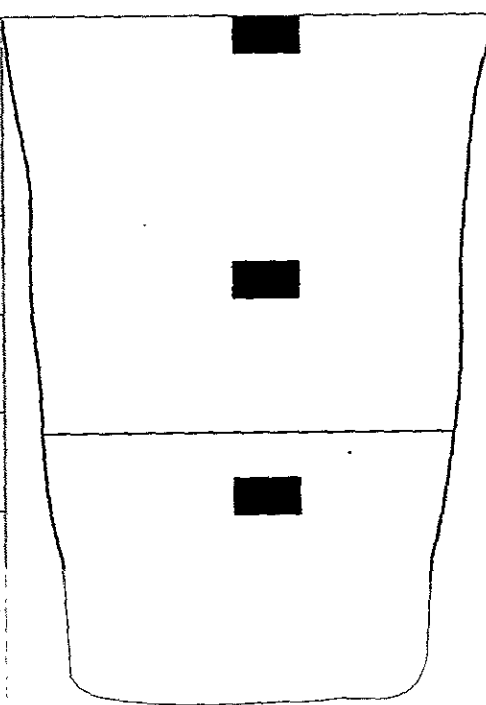
DEPTH BELOW GROUND SURFACE (FEET)

0
1
2
3
4
5
6
7

SAMPLE

DESCRIPTION

OVM



SILTY SAND (SM)
Brown, loose, dry, soft

7.3

5.8

CLAYEY SAND (SC)
Brown, mottled orange, moist, medium loose

5.8

Test pit terminated at 7.0 feet

TEST PIT LOGS

MLK. JR. WAY BETWEEN 11TH AND 12TH STREETS
OAKLAND, CALIFORNIA

DRAWN BY

CFY

DATE

9/13/00

TEST PIT

**TP-5 &
TP-6**

JOB NUMBER

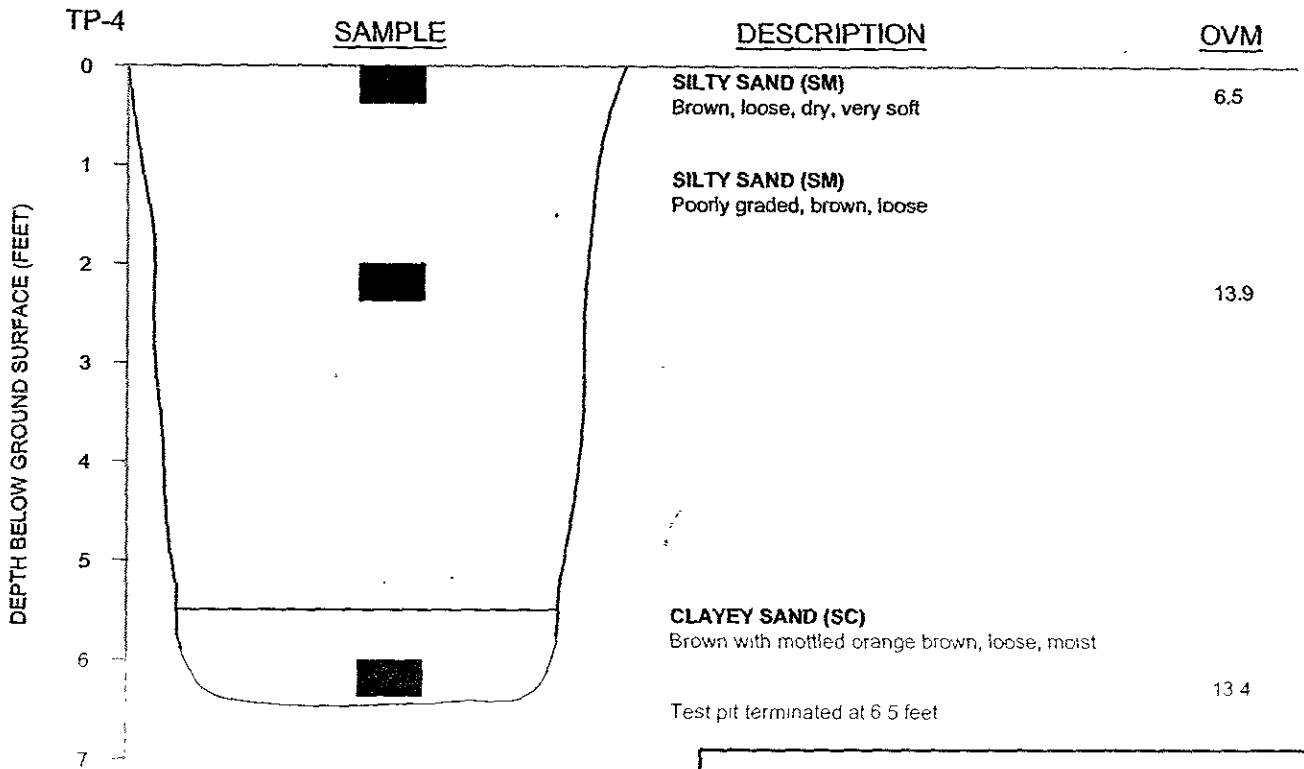
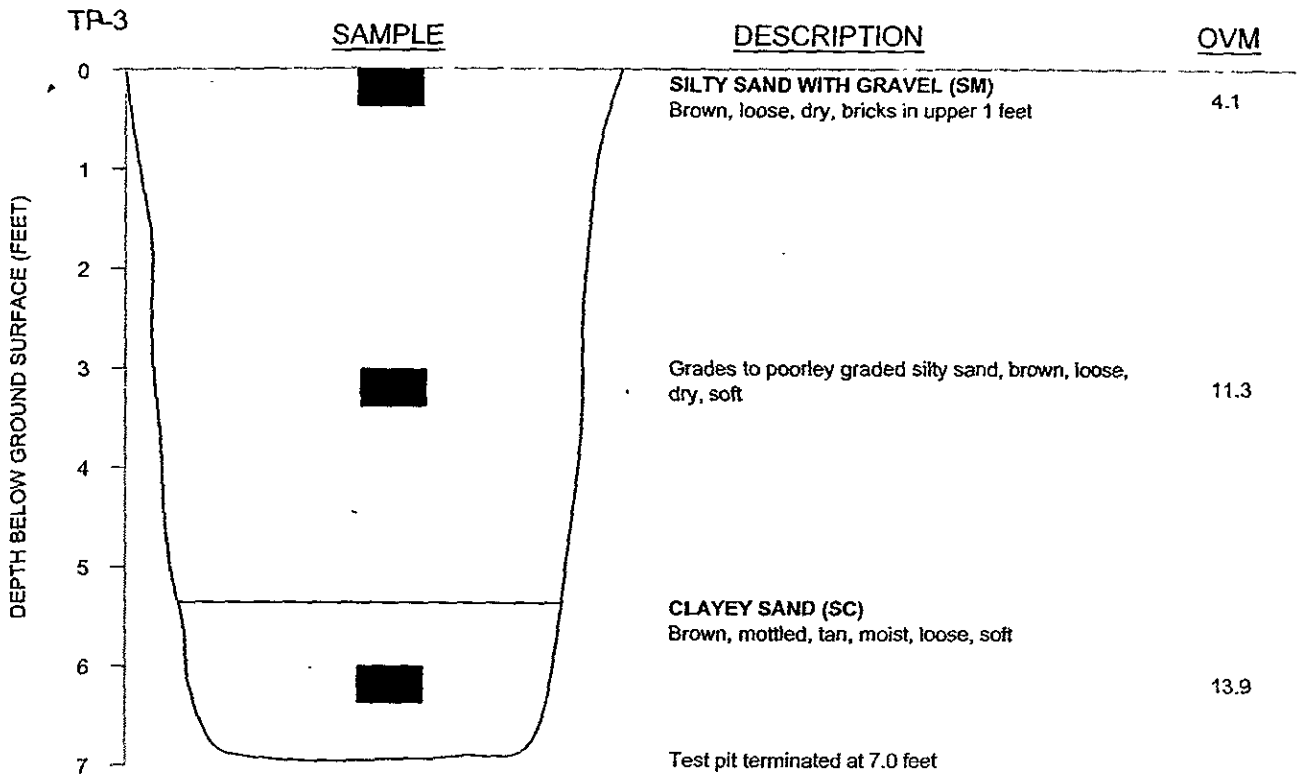
272 054

FILE NUMBER

A272.054.04



Subsurface Consultants, Inc.
Geotechnical & Environmental Engineers



TEST PIT LOGS		
MLK JR. WAY BETWEEN 11TH AND 12TH STREETS OAKLAND, CALIFORNIA		
DRAWN BY CFY	DATE 9/13/00	TEST PIT TP-3 & TP-4
JOB NUMBER 272.054	FILE NUMBER A272.054.04	



TP-1

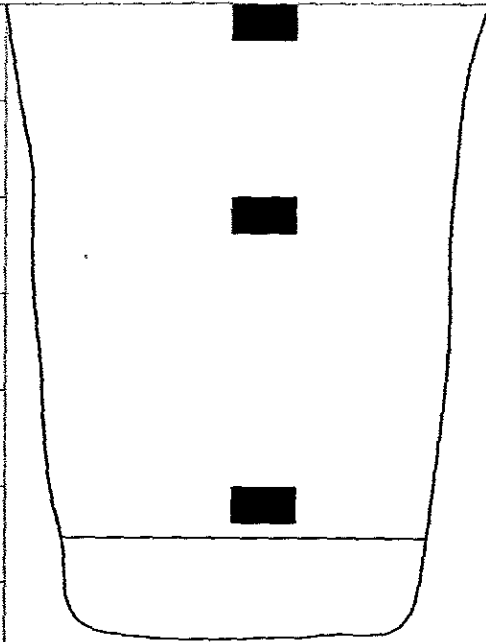
DEPTH BELOW GROUND SURFACE (FEET)

0
1
2
3
4
5
6
7

SAMPLE

DESCRIPTION

OVM



SILTY SAND WITH GRAVEL (SM)
Brown, loose, dry

7.3

Grades to poorly graded silty sand (SM), Brown, loose, dry

7.0

Color Change to tannish brown

CLAYEY SAND (SC)

7.5

Test pit terminated at 6.5 feet

TP-2

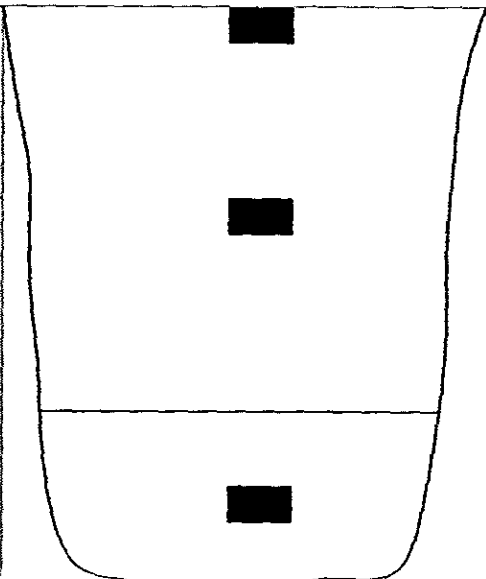
DEPTH BELOW GROUND SURFACE (FEET)

0
1
2
3
4
5
6
7

SAMPLE

DESCRIPTION

OVM



SILTY SAND WITH GRAVEL (SM)
Brown, loose, dry

4.1

SILTY SAND (SM)
Poorly graded, brown, loose

5.2

CLAYEY SAND (SC)
Brown with mottled orange brown, loose, moist

5.6

Test pit terminated at 6.0 feet

TEST PIT LOGS

MLK. JR. WAY BETWEEN 11TH AND 12TH STREETS
OAKLAND, CALIFORNIA



Subsurface Consultants, Inc.
Geotechnical & Environmental Engineers

DRAWN BY

CFY

DATE

9/13/00

TEST PIT

**TP-1 &
TP-2**

JOB NUMBER

272.054

FILE NUMBER

A272 054.04

City of Oakland Survey of Background Metal Concentration Studies

Some naturally-occurring concentrations of metals in Oakland soils are higher than the thresholds calculated by risk-based models. In such cases, there is unlikely to be any real reduction in risk realized from remediation to the risk-based threshold since the observed concentrations are likely to represent ambient conditions. In Oakland, this is especially true of arsenic. The following table contains the results from background metal concentration studies conducted in locations that are relevant to Oakland's geology.

**Background Metal Concentrations
(ppm in soil)**

Source	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Lawrence Berkeley National Laboratories ¹	5.5	19.1	1.0	2.7	99.6	69.4	16.1	0.4	119.8	5.6	1.8	27.1	106.1
-Colluvial & Fill	5.9	14.0	0.9	1.5	91.4	59.6	14.7	0.3	120.2	5.6	1.7	42.5	91.5
-Great Valley Group	6.3	31.0	1.0	3.2	59.0	99.7	21.5	0.6	69.7	4.8	2.2	8.7	135.9
-Moraga Formation	6.1	9.3	0.8	2.6	142.2	54.1	8.9	0.3	100.4	4.7	2.0	38.9	84.7
-Orinda Formation	5.2	17.8	1.1	3.3	95.2	66.9	14.8	0.3	144.3	7.0	1.9	19.8	98.3
-San Pablo Group	7.1	15.7	0.8	2.9	78.6	40.9	10.3	0.4	125.9	4.9	1.5	10.9	97.7
San Leandro, Ca ²	<3-<15	1.8-5.9	<0.25-<1.30	<0.25-<1.30	24.8-43.0	11.8-68.0	3.3-10.4	<0.10	2.93-43.60	<0.25-<2.50	<0.50-<2.50	<0.50-<5.00	9.3-61.3
Union City, Ca ³	5.0	6.92-9.34	0.5-0.81	0.5-1.30	46.5-112	28.2-60.1	19.8-14.8	0.1-0.36	32.4-60.6	0.5	0.5	5.0	97.1-474
Western U.S. ⁴	--	1-50	--	0.1-0.7	1-1,000	2-100	20-100	0.01-0.3	5-500	--	--	--	10-300

Sources:

¹ Lawrence Berkeley National Laboratory Environmental Restoration Program, 1995. 500 samples were taken from 71 locations representing 5 geologic units at LBNL: Colluvial & Fill, Great Valley group, Moraga formation, Orinda formation and San Pablo group. Concentrations listed are Upper 95% Confidence Limits of data from 71 monitoring well borings.

² Chemical Testing on Background Soil Samples: Roberts Landing Development Site, San Leandro, CA, 1994.

³ Site Wide Remedial Investigation: Pacific States Steel Corp. Union City, CA, 1992.

⁴ USEPA (found in Remedial Investigation Report, Hercules Properties, Inc., 1991).

TABLE 2
ANALYTES DETECTED IN SOIL AND GROUNDWATER SAMPLES
PRESERVATION PARK 3 SITE, OAKLAND, CALIFORNIA

Sample ID	Boring ID	Analyte	Matrix	Depth (feet bgs)	Result	Units
9850N001	SB2	Lead	Soil	9.5 - 10.0	2.9	mg/kg
		Percent moisture	Soil	9.5 - 10.0	9.8	%mst
9850N002	SB2	Ethylbenzene	Soil	16.5 - 17.0	0.01	mg/kg
		Lead	Soil	16.5 - 17.0	78.6	mg/kg
		Percent moisture	Soil	16.5 - 17.0	8.1	%mst
		Xylene	Soil	16.5 - 17.0	0.03	mg/kg
9850N003	SB2	Benzene	Soil	23.5 - 24.0	1.9	mg/kg
		Ethylbenzene	Soil	23.5 - 24.0	14.0	mg/kg
		Lead	Soil	23.5 - 24.0	2.3	mg/kg
		Percent moisture	Soil	23.5 - 24.0	17.9	%mst
		Toluene	Soil	23.5 - 24.0	24.0	mg/kg
		TPH extractables	Soil	23.5 - 24.0	4.6	mg/kg
		TPH purgeables	Soil	23.5 - 24.0	190.0	mg/kg
		Xylene	Soil	23.5 - 24.0	89.0	mg/kg
9850N004	SB4	Organic carbon, total	Soil	0.0 - 4.0	762.0	mg/kg
9850N005	SB5	Organic carbon, total	Soil	0.0 - 4.0	860.0	mg/kg
9850N006	SB6	Organic carbon, total	Soil	0.0 - 4.0	1,300.0	mg/kg
9850N007	SB1	Benzene	Soil	9.5 - 10.0	0.021/21	mg/kg
		Ethylbenzene	Soil	9.5 - 10.0	2.9	mg/kg
		Lead	Soil	9.5 - 10.0	6.6	mg/kg
		Percent moisture	Soil	9.5 - 10.0	10.5	%mst
		Toluene	Soil	9.5 - 10.0	0.96	mg/kg
		TPH extractables	Soil	9.5 - 10.0	480.0	mg/kg
		TPH purgeables	Soil	9.5 - 10.0	1,000.0	mg/kg
		Xylene	Soil	9.5 - 10.0	12.8	mg/kg
9850N008	SB1	Ethylbenzene	Soil	16.5 - 17.0	0.12	mg/kg
		Lead	Soil	16.5 - 17.0	27.4	mg/kg
		Percent moisture	Soil	16.5 - 17.0	10.7	%mst
		Toluene	Soil	16.5 - 17.0	0.03	mg/kg
		TPH extractables	Soil	16.5 - 17.0	53.0	mg/kg
		TPH purgeables	Soil	16.5 - 17.0	38.0	mg/kg
9850N009	SB1	Benzene	Soil	23.5 - 24.0	3.2	mg/kg
		Ethylbenzene	Soil	23.5 - 24.0	19.0	mg/kg
		Lead	Soil	23.5 - 24.0	4.9	mg/kg
		Organic lead	Soil	23.5 - 24.0	0.53	mg/kg
		Percent moisture	Soil	23.5 - 24.0	14.8	%mst
		Toluene	Soil	23.5 - 24.0	26.0	mg/kg
		TPH extractables	Soil	23.5 - 24.0	1,400.0	mg/kg
		TPH purgeables	Soil	23.5 - 24.0	1,800.0	mg/kg
9850N017	SB3	Xylene	Soil	23.5 - 24.0	156.0	mg/kg
		Lead	Soil	9.0 - 10.0	2.4	mg/kg
		Percent moisture	Soil	9.0 - 10.0	10.2	%mst

PO in soil 4 to 78 ppm, in #20 40 ppb to 430 ppb (detected in all 3 water samples)
Benzene in soil 3.9 ppm (23 to 24 ft bgs)
water 350 ppb

TABLE 2
ANALYTES DETECTED IN SOIL AND GROUNDWATER SAMPLES
PRESERVATION PARK 3 SITE, OAKLAND, CALIFORNIA

Sample ID	Boring ID	Analyte	Matrix	Depth (feet bgs)	Result	Units
9850N018 duplicate	SB3	Lead	Soil	16.5 - 17.0	2.8	mg/kg
		Percent moisture	Soil	16.5 - 17.0	14.7	%mst
9850N019	SB3	Lead	Soil	16.0 - 16.5	2.3	mg/kg
		Percent moisture	Soil	16.0 - 16.5	13.4	%mst
9850N020	SB3	Lead	Soil	23.5 - 24.0	0.88	mg/kg
		Percent moisture	Soil	23.5 - 24.0	17.3	%mst
		TPH extractables	Soil	23.5 - 24.0	29.0	mg/kg
9850N010	SB1	Benzene	Water	36.0 - 40.0	0.35	mg/L
		Ethylbenzene	Water	36.0 - 40.0	0.64	mg/L
		1,2-Dichloroethane	Water	36.0 - 40.0	0.43	mg/L
		Toluene	Water	36.0 - 40.0	1.8	mg/L
		TPH extractables	Water	36.0 - 40.0	17.0	mg/L
		TPH purgeables	Water	36.0 - 40.0	33.0	mg/L
		Xylene	Water	36.0 - 40.0	4.7	mg/L
9850N013	SB2	1,2,4-Trimethylbenzene	Water	36.0 - 40.0	0.0056	mg/L
		1,2-Dichloroethane	Water	36.0 - 40.0	0.0014	mg/L
		1,3,5-Trimethylbenzene	Water	36.0 - 40.0	0.0017	mg/L
		Benzene	Water	36.0 - 40.0	0.02	mg/L
		Ethylbenzene	Water	36.0 - 40.0	0.0031	mg/L
		1,2-Dichloroethane	Water	36.0 - 40.0	0.18	mg/L
		Naphthalene	Water	36.0 - 40.0	0.0014	mg/L
		Toluene	Water	36.0 - 40.0	.026	mg/L
		TPH extractables	Water	36.0 - 40.0	0.09	mg/L
		TPH purgeables	Water	36.0 - 40.0	0.11	mg/L
Xylene	Water	36.0 - 40.0	0.02	mg/L		
9850N015	SB3	Lead	Water	36.0 - 40.0	0.04	mg/L

Notes:

- mg/kg Milligram per kilogram
- %mst Percent moisture
- mg/L Milligram per liter
- TPH Total petroleum hydrocarbons
- bgs below ground surface

TABLE 3
SOIL CONTAMINANT CONCENTRATIONS THAT EXCEED MERRITT SAND RISK-BASED SCREENING LEVELS AND SITE-SPECIFIC TARGET LEVELS AND TOTAL PETROLEUM HYDROCARBON SOIL CONTAMINANT CONCENTRATIONS
PRESERVATION PARK 3 SITE, OAKLAND, CALIFORNIA
(Residential Land Use)

Sample ID	Boring ID	Analyte	Concentration Detected	RBSL and SSSL Criteria for Surficial Soil (Ingestion/Dermal)	RBSL and SSSL Criteria for Subsurface Soil (Inhalation of Outdoor Air)	RBSL and SSSL Criteria for Subsurface Soil (Inhalation of Indoor Air)	RBSL and SSSL Criteria for Subsurface Soil (Leachate to Groundwater Ingestion)
9850N003	SB2 (23.5 to 24 feet bgs)	Benzene	1.90 mg/kg	C: 37 mg/kg H: 99 mg/kg	C: 3.9 mg/kg H: 16.0 mg/kg	C: 0.68 mg/kg H: 2.3 mg/kg	C & H: 0.01 mg/kg
		Toluene	24.00 mg/kg	C: None Established H: 11,000 mg/kg	C: None Established H: SAT	C: None Established H: 350 mg/kg	C & H: 4.20 mg/kg
		TPH Extractables	4.60 mg/kg	None Established	None Established	None Established	None Established
		TPH Purgeables	190.00 mg/kg	None Established	None Established	None Established	None Established
		Xylene	19.00 mg/kg	C: None Established H: 60,000 mg/kg	C: None Established H: SAT	C: None Established H: SAT	C & H: 64.0 mg/kg
9850N007	SB1 (9.5 to 10 feet bgs)	Benzene	2.10 mg/kg	C: 150 mg/kg H: 920 mg/kg	C: 15.00 mg/kg H: 91.00 mg/kg	C: 11.00 mg/kg H: 65.00 mg/kg	C & H: 0.01 mg/kg
		TPH Extractables	480.00 mg/kg	None Established	None Established	None Established	None Established
		TPH Purgeables	1,000.00 mg/kg	None Established	None Established	None Established	None Established
9850N008	SB1 (16.5 to 17 feet bgs)	TPH Extractables	53.00 mg/kg	None Established	None Established	None Established	None Established
		TPH Purgeables	38.00 mg/kg	None Established	None Established	None Established	None Established
9850N009	SB1 (23.5 to 24 feet bgs)	Benzene	3.20 mg/kg	C: 37 mg/kg H: 99 mg/kg	C: 3.9 mg/kg H: 16.0 mg/kg	C: 0.68 mg/kg H: 2.3 mg/kg	C & H: 0.01 mg/kg
		Toluene	26.00 mg/kg	C: None Established H: 11,000 mg/kg	C: None Established H: SAT	C: None Established H: 350 mg/kg	C & H: 4.20 mg/kg
		TPH Extractable	1,400.00 mg/kg	None Established	None Established	None Established	None Established
		TPH Purgeables	1,800.00 mg/kg	None Established	None Established	None Established	None Established
		Xylene	156.00 mg/kg	C: None Established H: 60,000 mg/kg	C: None Established H: SAT	C: None Established H: SAT	C & H: 64.0 mg/kg
9850N020	SB3 (23.5 to 24 feet bgs)	TPH Extractables	29.00 mg/kg	None Established	None Established	None Established	None Established

Notes:

C Carcinogenic
H Hazard

mg/kg Milligrams per kilogram
RBSL Risk-based screening level

SAT Saturation
SSSL Site-specific target levels

Bold indicates analyte was above the screening levels

Source: RBSLs and SSSLs taken from the City of Oakland 1999.

TABLE 4
SOIL CONTAMINANT CONCENTRATIONS THAT EXCEED MERRITT SAND RISK-BASED SCREENING LEVELS AND SITE-SPECIFIC TARGET LEVELS AND TOTAL PETROLEUM HYDROCARBON SOIL CONTAMINANT CONCENTRATIONS
PRESERVATION PARK 3 SITE, OAKLAND, CALIFORNIA
(Commercial/Industrial Land Use)

Sample ID	Boring ID	Analyte	Concentration Detected	RBSL and SSTL Criteria for Surficial Soil (Ingestion/Dermal)	RBSL and SSTL Criteria for Subsurface Soil (Inhalation of Outdoor Air)	RBSL and SSTL Criteria for Subsurface Soil (Inhalation of Indoor Air)	RBSL and SSTL Criteria for Subsurface Soil (Leachate to Groundwater Ingestion)
9850N003	SB2 (23.5 to 24 feet bgs)	Benzene	1.90 mg/kg	C: 150 mg/kg H: 920 mg/kg	C: 15.00 mg/kg H: 91.00 mg/kg	C: 11.00 mg/kg H: 65.00 mg/kg	C & H: 0.01 mg/kg
		Toluene	24.00 mg/kg	C: None Established H: 94,000 mg/kg	C: None Established H: SAT	C: None Established H: SAT	C & H: 4.20 mg/kg
		TPH Extractables	4.60 mg/kg	None Established	None Established	None Established	None Established
		TPH Purgeables	190.00 mg/kg	None Established	None Established	None Established	None Established
		Xylene	89.00 mg/kg	C: None Established H: 380,000 mg/kg	C: None Established H: SAT	C: None Established H: SAT	C & H: 64.0 mg/kg
9850N007	SB1 (9.5 to 10 feet bgs)	Benzene	2.10 mg/kg	C: 150 mg/kg H: 920 mg/kg	C: 15.00 mg/kg H: 91.00 mg/kg	C: 11.00 mg/kg H: 65.00 mg/kg	C & H: 0.01 mg/kg
		TPH Extractables	480.00 mg/kg	None Established	None Established	None Established	None Established
		TPH Purgeables	1,000.00 mg/kg	None Established	None Established	None Established	None Established
9850N008	SB1 (16.5 to 17 feet bgs)	TPH Extractables	53.00 mg/kg	None Established	None Established	None Established	None Established
		TPH Purgeables	38.00 mg/kg	None Established	None Established	None Established	None Established
9850N009	SB1 (23.5 to 24 feet bgs)	Benzene	3.2 mg/kg	C: 150 mg/kg H: 920 mg/kg	C: 15.00 mg/kg H: 91.00 mg/kg	C: 11.00 mg/kg H: 65.00 mg/kg	C & H: 0.01 mg/kg
		Toluene	26.00 mg/kg	H: 94,000 mg/kg	C: None Established H: SAT	C: None Established H: SAT	C & H: 4.20 mg/kg
		TPH Extractable	1,400.00 mg/kg	None Established	None Established	None Established	None Established
		TPH Purgeables	1,800.00 mg/kg	None Established	None Established	None Established	None Established
		Xylene	156.00 mg/kg	C: None Established H: 380,000 mg/kg	C: None Established H: SAT	C: None Established H: SAT	C & H: 64.0 mg/kg
9850N020	SB3 (23.5 to 24 feet bgs)	TPH Extractables	29.00 mg/kg	None Established	None Established	None Established	None Established

Notes:

C Carcinogenic
H Hazard

mg/kg Milligrams per kilogram
RBSL Risk-based screening level

SAT Saturation
SSTL Site-specific target levels

Bold indicates analyte was above the screening levels

Source: RBSLs and SSTLs taken from the City of Oakland 1999.

TABLE 5
GROUNDWATER CONTAMINANT CONCENTRATIONS THAT EXCEEDED MERRITT SAND RISK-BASED SCREENING LEVELS AND
SITE-SPECIFIC TARGET LEVELS AND TOTAL PETROLEUM HYDROCARBON GROUNDWATER CONTAMINANT CONCENTRATIONS
PRESERVATION PARK 3 SITE, OAKLAND, CALIFORNIA
~~(Residential Land Use)~~

Sample ID	Boring ID	Analyte	Concentration Detected	RBSL and SSTL Criteria for Ingestion of Groundwater	RBSL and SSTL Criteria for Groundwater (Inhalation of Indoor Air)	RBSL and SSTL Criteria for Groundwater (Inhalation of Outdoor Air)
9850N010	SB-1	Benzene	0.25 mg/L	C & H: 0.001 mg/L	C: 1.4 mg/L H: 4.6 mg/L	C: 180 mg/L H: 720 mg/L
		Ethylbenzene	0.64 mg/L	C & H: 0.70 mg/L	C: None Established H: SOL	C: None Established H: SOL
		Toluene	1.80 mg/L	C & H: 0.15 mg/L	C: None Established H: 280 mg/L	C: None Established H: SOL
		TPH Extractables	17.00 mg/L	None Established	None Established	None Established
		TPH Purgeables	33.00 mg/L	None Established	None Established	None Established
		Xylene	4.70 mg/L	C & H: 1.8 mg/L	C: None Established H: SOL	C: None Established H: SOL
9850N013	SB-2	Benzene	0.02 mg/L	C & H: 0.001 mg/L	C: 1.4 mg/L H: 4.6 mg/L	C: 180 mg/L H: 720 mg/L
		TPH Extractables	0.09 mg/L	None Established	None Established	None Established
		TPH Purgeables	0.11 mg/L	None Established	None Established	None Established

Notes:

C	Carcinogenic	H	Hazard
mg/L	Milligrams per liter	RBSL	Risk-based screening levels
SSTL	Site-specific target levels	SOL	Solubility

Bold indicates analyte was above the screening levels

Source: RBSLs and SSTLs taken from City of Oakland 1999.

TABLE 6
GROUNDWATER CONTAMINANT CONCENTRATIONS THAT EXCEED MERRITT SAND RISK-BASED SCREENING LEVELS AND
SITE-SPECIFIC TARGET LEVELS AND TOTAL PETROLEUM HYDROCARBON GROUNDWATER CONTAMINANT CONCENTRATIONS
PRESERVATION PARK 3 SITE, OAKLAND, CALIFORNIA
(Commercial/Industrial Land Use)

Sample ID	Boring ID	Analyte	Concentration Detected	RBSL and SSTL Criteria for Ingestion of Groundwater	RBSL and SSTL Criteria for Groundwater (Inhalation of Indoor Air)	RBSL and SSTL Criteria for Groundwater (Inhalation of Outdoor Air)
9850N010	SB-1	Benzene †	0.35 mg/L†	C & H: 0.001 mg/L	C: 22 mg/L H: 130 mg/L	C: 690 mg/L H: SOL
		Ethylbenzene	0.64 mg/L	C & H: 0.70 mg/L	C: None Established H: SOL	C: None Established H: SOL
		Toluene	1.80 mg/L	C & H: 0.15 mg/L	C: None Established H: SOL	C: None Established H: SOL
		TPH Extractables	17.00 mg/L	None Established	None Established	None Established
		TPH Purgeables	33.00 mg/L	None Established	None Established	None Established
		Xylene	4.70 mg/L	C & H: 1.8 mg/L	C: None Established H: SOL	C: None Established H: SOL
9850N013	SB-2	Benzene	0.02 mg/L	C & H: 0.001 mg/L	C: 22 mg/L H: 130 mg/L	C: 690 mg/L H: SOL
		TPH Extractables	0.09 mg/L	None Established	None Established	None Established
		TPH Purgeables	0.11 mg/L	None Established	None Established	None Established

Notes:

C Carcinogenic H Hazard
mg/L Milligrams per liter RBSL Risk-based screening levels
SSTL Site-specific target levels SOL Solubility
Bold indicates analyte was above the screening levels

Source: RBSLs and SSTLs taken from City of Oakland 1999.



*B @ 2.1 ppm
T.H. 2/10/80*

12TH STREET

11TH STREET

MARTIN LUTHER KING JR. WAY

FORMER LOCATION OF USTs

GATE

CHEMICALS DETECTED ABOVE TIER 2 SSTLS FOR MERRITT SANDS FOR COMPLETED EXPOSURE PATHWAYS	
SB1-SOIL	23.5-24 FT. BGS
BENZENE	3.2 mg/kg

CHEMICALS DETECTED ABOVE TIER 2 SSTLS FOR MERRITT SANDS FOR COMPLETED EXPOSURE PATHWAYS	
SB2-SOIL	23.5-24 FT. BGS
BENZENE	1.9 mg/kg

SB4

SB3

SB1

SB2

SB5

SB6

LEGEND

- SOIL BORING
- SITE BOUNDARY
- FENCE
- BGS BELOW GROUND SURFACE
- mg/L MILLIGRAM PER LITER
- mg/kg MILLIGRAM PER KILOGRAM



Tetra Tech EM Inc.

Figure 1
 Preservation Park 3
 Oakland, California

TABLE 1
ANALYTICAL METHODS FOR SOIL AND GROUNDWATER SAMPLES



Constituent	Parameter	Method Number	Reference	Detection Technique	Extraction Technique
BTEX	Aromatic volatile organic compound	EPA 8021B	SW-846	GC/PID	Purge and trap
MTBE	Aromatic volatile organic compound	CLP	OLM03.1	GC/MS	Purge and trap
TPH-gasoline	TPH-purgeable	EPA 8015B	CA LUFT & SW-846	GC/FID	Purge and trap
TPH-diesel	TPH-extractable	EPA 8015B	CA LUFT & SW-846	GC/FID	Soil: sonication Water: liquid-liquid
Semivolatile organic compounds	Semivolatile organic compounds	CLP	OLM03.1	GC/MS	Soil: sonication and GPC Water: liquid-liquid
Volatile organic compounds	Volatile organic compounds	CLP	OLM03.1	GC/MS	Purge and trap
Total organic carbon	Total organic carbon	SMEWW 5310B	SMEWW	Oxidation/IR	Not applicable

Notes:

BTEX	Benzene, toluene, ethylbenzene, xylenes	OLM03.1	EPA 1994
CA LUFT	State of California 1989	PID	Photoionization detector
CLP	Contract Laboratory Program	SMEWW	American Public Health Association 1992
EPA	U.S. Environmental Protection Agency	SW-846	EPA 1996
FID	Flame ionization detector	TPH	Total petroleum hydrocarbons
GC	Gas chromatography		
GPC	Gel permeation chromatography		
MS	Mass spectroscopy		
MTBE	Methyl tertiary-butyl ether		



Sample ID	Sample Time	Drive Interval	Recovered Interval	Depth (ft)	Sample Interval Graphic Log	USCS Code	MATERIALS DESCRIPTION
				1		SM	Well-graded FILL: SILTY SAND; very dark grayish brown (10YR 3/2); damp; loose; subangular, medium sand; with some fine gravel and miscellaneous debris.
				2			
				3			
				4			
				5			
				6		SP	Poorly graded SAND: yellowish brown (10YR 5/4); damp; medium dense; subangular, medium sand
				7			
				8			
07		6	6	9		SM	Poorly graded SILTY SAND: olive gray (5Y 5/2); damp; dense; subangular, medium sand; slight hydrocarbon odor
				10	☒		
				11			
				12			
				13			Poorly graded SILTY SAND: mottled olive gray (5Y 5/2) with dark yellowish brown (10YR 4/4); damp; dense; subangular, medium sand; hydrocarbon odor present
				14			
				15			
08		6	6	16			
				17	☒		
				18		SC	Poorly graded CLAYEY SAND: brown (10YR 4/3); damp; dense; subangular, medium sand; hydrocarbon odor present
				19			
				20			
				21			
				22		SM	Poorly graded SILTY SAND: grayish brown (2.5Y 5/2); wet; dense; subangular, medium sand; hydrocarbon odor present
				23			
09		6	6	24	☒		Saturated from 24 feet
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

Total Depth of Boring = 28 Feet
Groundwater Screened from 36 to 40 Feet

 Water Table  Lab Sample	PROJECT <u>Oakland Redevelopment Project</u>	SAMPLING METHOD _____
	LOCATION <u>Preservation Park</u>	GROUND ELEVATION <u>NA</u>
	JOB NUMBER <u>OR0981403SR</u>	TOC ELEVATION <u>NA</u>
	LOGGED BY <u>Roy Glenn</u>	BORING DIAMETER <u>2.25 Inches</u>
	DATE DRILLED <u>12/07/98</u>	TOTAL DEPTH OF HOLE <u>28 Feet bgs</u>
	DRILLER <u>Fast Tek</u>	WATER LEVEL <u>215 Feet bgs</u>
DRILL METHOD <u>Geoprobe</u>	WELL INSTALLED? (Y/N) <u>N</u>	

Sample ID	Sample Time	Drive Interval	Recovered Interval	Depth (ft)	Sample Interval Graphic Log	USCS Code	MATERIALS DESCRIPTION
				1		SM	FILL: Well-graded SILTY SAND; grayish brown (10YR 3/2); damp; loose; subangular, medium sand; with some fine gravel
				2			
				3			
				4			
				5			
				6		SP	Poorly graded SAND; yellowish brown (10YR 5/4); damp; medium dense; subangular, medium sand
				7			
				8			
01		5	6	9	☒		
				10			
				11		SM	Poorly graded SILTY SAND; mottled olive gray (5Y 5/2) with dark yellowish brown (10YR 4/4); damp; dense; subangular, medium sand; hydrocarbon odor present at 12 feet
				12			
				13			
				14			
				15			
02		6	6	16	☒		
				17			
				18		SC	Poorly graded CLAYEY SAND; brown (10YR 4/3); damp; dense; subangular, medium sand; hydrocarbon odor present through cut soil
				19			
				20			
				21			
				22		SM	Poorly graded SILTY SAND; grayish brown (2.5Y 5.2); wet; dense; subangular, medium sand
				23			
03		6	6	24	☒		Saturated below 24 feet; extreme hydrocarbon odor at 24 feet
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			



Total Depth of Boring = 30 Feet
Groundwater Screened from 36 to 40 Feet

-  Water Table
-  Lab Sample

PROJECT Oakland Redevelopment Project SAMPLING METHOD _____
 LOCATION Preservation Park GROUND ELEVATION NA
 JOB NUMBER OR098403SR TOC ELEVATION NA
 LOGGED BY Roy Glenn BORING DIAMETER 2.25 Inches
 DATE DRILLED 12/07/98 TOTAL DEPTH OF HOLE 30 ft, et bgs
 DRILLER Fast Tek WATER LEVEL 22 Feet bgs
 DRILL METHOD Geoprobe WELL INSTALLED? (Y/N) N

Sample ID	Sample Time	Drive Interval	Recovered Interval	Depth (ft)	Sample Interval Graphic Log	USCS Code	MATERIALS DESCRIPTION
				1		SM	Well-graded SILTY SAND: dark brown; damp; loose; subangular, medium sand
				2			
				3			
				4		SP	Poorly graded SAND: light brown (10YR 5/5); saturated (perched water zone); loose; subangular, medium sand
				5		SC	Well-graded CLAYEY SAND: reddish brown; damp; dense; subrounded, fine sand
				6			
				7			
				8		SP	Poorly graded SAND: yellowish brown (10YR 5/4); damp; loose; subangular, medium sand
17		12	6	9			
				10			
				11			
				12			
				13		SM	Poorly graded SILTY SAND: mottled olive gray (5Y 5/2) with dark yellowish brown (10YR 4/4); damp; dense; subangular, medium sand
19		6	6	16			
18		12	12	17			
				18			
				19			
				20			
				21			
				22			
20		6	6	23			
		12	12	24			
				25			Poorly graded SILTY SAND: grayish brown (2.5Y 5/1); wet; dense; subangular, medium sand
				26			Saturated below 25 feet
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			

Total Depth of Boring = 30 Feet
Groundwater Screened from 25 to 29 Feet

 Water Table  Lab Sample	PROJECT <u>Oakland Redevelopment Project</u>	SAMPLING METHOD _____
	LOCATION <u>Preservation Park</u>	GROUND ELEVATION <u>NA</u>
JOB NUMBER <u>OR09&1403SR</u>	LOGGED BY <u>Roy Glenn</u>	TOC ELEVATION <u>NA</u>
DATE DRILLED <u>12/09/98</u>	DRILLER <u>Fast Tak</u>	BORING DIAMETER <u>2.25 Inches</u>
DRILL METHOD <u>Geoprobe</u>	DRILL METHOD <u>Geoprobe</u>	TOTAL DEPTH OF HOLE <u>30 Feet bgs</u>
		WATER LEVEL <u>23.5 Feet bgs</u>
		WELL INSTALLED? (Y/N) <u>N</u>

Sample ID	Sample Time	Drive Interval	Recovered Interval	Depth (ft)	Sample Interval	Graphic Log	USCS Code	MATERIALS DESCRIPTION
4		6	6	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	<input checked="" type="checkbox"/>		SM	FILL: Well-graded SILTY SAND; very dark grayish brown (10YR 3/3); damp; loose; subangular, medium sand; with some fine gravel
								Total Depth of Boring = 5 Feet

Water Table
 Lab Sample

PROJECT Oakland Redevelopment Project
 LOCATION Preservation Park
 JOB NUMBER OR0981403SR
 LOGGED BY Roy Glenn
 DATE DRILLED 12/07/98
 DRILLER Fast Tek
 DRILL METHOD Geoprobe

SAMPLING METHOD _____
 GROUND ELEVATION NA
 TOC ELEVATION NA
 BORING DIAMETER 2.25 inches
 TOTAL DEPTH OF HOLE 5 Feet bgs
 WATER LEVEL None Encountered
 WELL INSTALLED? (Y/N) N

Sample ID	Sample Time	Drive Interval	Recovered Interval	Depth (ft)	Sample Interval	Graphic Log	USCS Code	MATERIALS DESCRIPTION
5		12	12	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	<input checked="" type="checkbox"/>		SM	FILL: Well-graded SILTY SAND; very dark grayish brown (10YR 3/2); damp; loose; subangular, medium sand, with some fine gravel
Total Depth of Boring = 5 Feet								

<input type="checkbox"/> Water Table <input checked="" type="checkbox"/> Lab Sample	PROJECT <u>Oakland Redevelopment Project</u>	SAMPLING METHOD _____
	LOCATION <u>Preservation Park</u>	GROUND ELEVATION <u>NA</u>
	JOB NUMBER <u>OR0981403SR</u>	TOC ELEVATION <u>NA</u>
	LOGGED BY <u>Roy Glenn</u>	BORING DIAMETER <u>2.25 Inches</u>
	DATE DRILLED <u>12/07/98</u>	TOTAL DEPTH OF HOLE <u>5 Feet bgs</u>
	DRILLER <u>Fast Tech</u>	WATER LEVEL <u>None Encountered</u>
DRILL METHOD <u>Geoprobe</u>	WELL INSTALLED? (Y/N) <u>N</u>	

Sample ID	Sample Time	Drive Interval	Recovered Interval	Depth (ft)	Sample Interval	Graphic Log	USCS Code	MATERIALS DESCRIPTION
6		12	12	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	<input checked="" type="checkbox"/>		SM	FILL: Well-graded SILTY SAND; very dark grayish brown (10YR 3/2); damp; loose; subangular, medium sand; with some fine gravel
								Total Depth of Boring ~ 5 Feet

<input type="checkbox"/> Water Table <input checked="" type="checkbox"/> Lab Sample	PROJECT <u>Oakland Redevelopment Project</u>	SAMPLING METHOD _____
	LOCATION <u>Preservation Park</u>	GROUND ELEVATION <u>NA</u>
	JOB NUMBER <u>OR0981403SR</u>	TOC ELEVATION <u>NA</u>
	LOGGED BY <u>Roy Gleason</u>	BORING DIAMETER <u>2.5 Inches</u>
	DATE DRILLED <u>12/07/98</u>	TOTAL DEPTH OF HOLE <u>5 Feet bgs</u>
	DRILLER <u>Fast Tek</u>	WATER LEVEL <u>None Encountered</u>
	DRILL METHOD <u>Geoprobe</u>	WELL INSTALLED? (Y/N) <u>N</u>