

EVA

**RESULTS OF LIMITED
SUBSURFACE INVESTIGATION**

Andante Redevelopment Project
3992 San Pablo Avenue
Emeryville, CA

Prepared For:
Ms. Lisa M. Erickson
SNK Development, Inc.
185 Berry Street
San Francisco, CA 94107-1729

Prepared By:
Apex Envirotech, Inc.

Apex Project No: SNK01.001

March 3, 2003



11244 Pyrites Way • Gold River, CA 95670
Phone 916.851.0174 • Fax 916.851.0177 • Toll Free 1.800.242.5249

March 3, 2003

Lisa M. Erickson
SNK Development, Inc.
185 Berry Street, Suite 6600
San Francisco, CA 94107-1729

Subject: **Results of Limited Subsurface Investigation**
 Andante Redevelopment Project
 3992 San Pablo Avenue, Emeryville, Alameda County, California
 Apex Project No. SNK01.001

Dear Ms. Erickson:

Apex Envirotech, Inc. (Apex) is pleased to present to SNK Development, Inc. (SNK) this results report, documenting the limited subsurface investigation conducted at the Andante Redevelopment Project site (Figure 1). This report presents the results of soil sampling conducted to determine the presence or absence of petroleum impacted soil at the site.

This report has been developed, in part, on the basis of information obtained by Apex from SNK and is subject to modification as newly acquired information may warrant.

SITE DESCRIPTION

The Andante Redevelopment Project site is located at 3992 San Pablo Avenue in Emeryville, Alameda County, California (Figures 1 and 2). The site is located in a commercial/residential area of Emeryville on the southeast corner of the intersection of San Pablo Avenue and 40th Street. The site is currently a vacant lot and does not contain any underground storage tanks or fueling equipment.

BACKGROUND

In May of 1994, Celis Service Station, now paved over as 40th Street, removed six underground fuel storage tanks (UST) and associated product piping from beneath the former service station. The Alameda County Environmental Health Services Department (ACEHS) documented that the tanks had leaked petroleum hydrocarbons to soil and groundwater. Under the direction of ACEHS, soil remediation had occurred at the former service station. A results report and closure request was prepared for the former service station in October of 1998. However, ACEHS has not issued a closure letter. The City of Emeryville currently owns the 40th Street former service station property and the subject property. No groundwater monitoring wells have been installed on either property.

All site buildings have been demolished and a permanent fence has been installed around the entire property.

INSTALLATION OF GEOPROBE® SOIL BORINGS

On February 5, 2003, Apex personnel supervised the installation of twenty-nine Geoprobe® soil borings (GP-1 through GP-29) that were advanced below ground surface (bgs) at varying depths at the locations shown on Figure 3. The Geoprobe® borings were advanced by Vironex, of San Leandro, California. First groundwater at the site was encountered at approximately 11-feet bgs.

Soil samples were collected from the borings at various depths and screened in the field with a photo ionization device for sample selection purposes. Soil samples were not recovered from borings GP-14, GP-15 and GP-19 due to encountered fill material. Soil boring logs are included as Appendix A.

A maximum of two samples from each of the borings, were selected and submitted, under chain-of-custody, to Kiff Analytical, a state certified analytical laboratory, for analysis. The soil samples were analyzed for the constituents listed in the table below:

Analysis	Abbreviation	Designation	USEPA Method No.
Total Petroleum Hydrocarbons as Diesel	TPHd	Aromatic Hydrocarbons	8015 Modified
Total Petroleum Hydrocarbons as Gasoline	TPHg		
Benzene	BTEX	Aromatic Volatile Organics	8260B
Toluene			
Ethylbenzene			
Xylenes (Total)			
Methyl Tertiary Butyl Ether	MTBE	Oxygenate	
Total Lead	Pb	Metal	6010

Soil analytical results are included in Table 1. All fieldwork was conducted in accordance with

the Apex Standard Operating Procedures (SOP) included in Appendix B. Complete soil analytical laboratory reports and chain-of-custody forms are included as Appendix C.

GEOPROBE® INSTALLATION PROCEDURES

Soil core sampling was conducted using 4-foot sections of decontaminated $\frac{3}{4}$ inch inside diameter (ID) galvanized steel probe pipe. The probe pipe was connected to a 1-foot long; $\frac{3}{4}$ inch ID galvanized steel soil core tube. Stainless steel insert rods were placed through the probe pipe and sampling core. The probe pipe, soil core, and insert rods were together pneumatically driven to the depth the soil core was desired. The insert rods were removed and the probe pipe and core tube were driven one foot to obtain the soil core sample.

The probe pipe containing the soil core sample was removed from the hole and the soil sample was disconnected from the probe pipe. The ends of the core were sealed using Teflon tape and plastic end caps.

RESULTS AND CONCLUSIONS

The analytical results of the soil samples collected from the borings indicated that petroleum hydrocarbon constituents were detected above laboratory detection limits in fifteen of the twenty-nine borings. All detections of total lead are indicative of naturally occurring background concentrations. Soil analytical results are summarized in Table 1.

Soil located in the northwest corner of the property has been impacted by petroleum hydrocarbons. It is likely that the soil contamination is the result of the leaking USTs, formerly located to the north of the subject property.

The State of California requires that formal reports documenting concentrations of petroleum hydrocarbons in soil or groundwater be submitted to the local regulating agency, ACEHS, within 90 days of conducting the work. Apex recommends that SNK submit a copy of this report to the ACEHS upon review.

Results of Limited Subsurface Investigation

Andante Redevelopment Project, 3992 San Pablo Avenue, Emeryville, Alameda County, California

Page 4

REMARKS/SIGNATURES

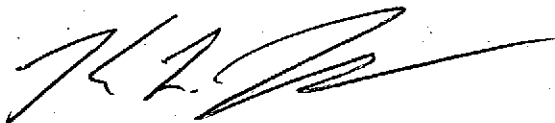
The information contained within this report reflects our professional opinions and was developed in accordance with currently available information, and accepted hydrogeologic and engineering practices. This report was prepared solely for the use of SNK. Any reliance on this report by parties other than SNK will be at their own risk.

The work described above was and will be performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide SNK with geologic, engineering and environmental consulting services, and trust this report and workplan meets your needs. If you have any questions or comments, please call us at (916) 851-0174.

Sincerely,

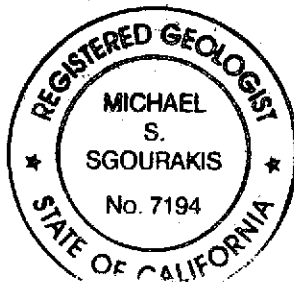
APEX ENVIROTECH, INC.



Kasey L. Jones
Senior Project Manager



Michael Sgourakis, R.G.
Senior Geologist
CRG No. 7194



FIGURES:

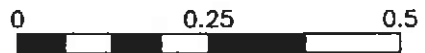
FIGURE 1 SITE VICINITY MAP
FIGURE 2 SITE PLAN MAP
FIGURE 3 GEOPROBE LOCATION MAP

TABLES:

TABLE 1 SOIL SAMPLING ANALYTICAL RESULTS

APPENDICES:

APPENDIX A SOIL BORING LOGS
APPENDIX B APEX STANDARD OPERATING PROCEDURES
APPENDIX C ANALYTICAL LABORATORY REPORT AND
CHAIN-OF CUSTODY FORM



Approximate Scale
1 inch = 0.25 miles



DRAWN BY: D. Alston

DATE: 2/7/03

REVISIONS

SITE VICINITY MAP

Andante Project
3992 San Pablo Avenue
Emeryville, California

FIGURE

1

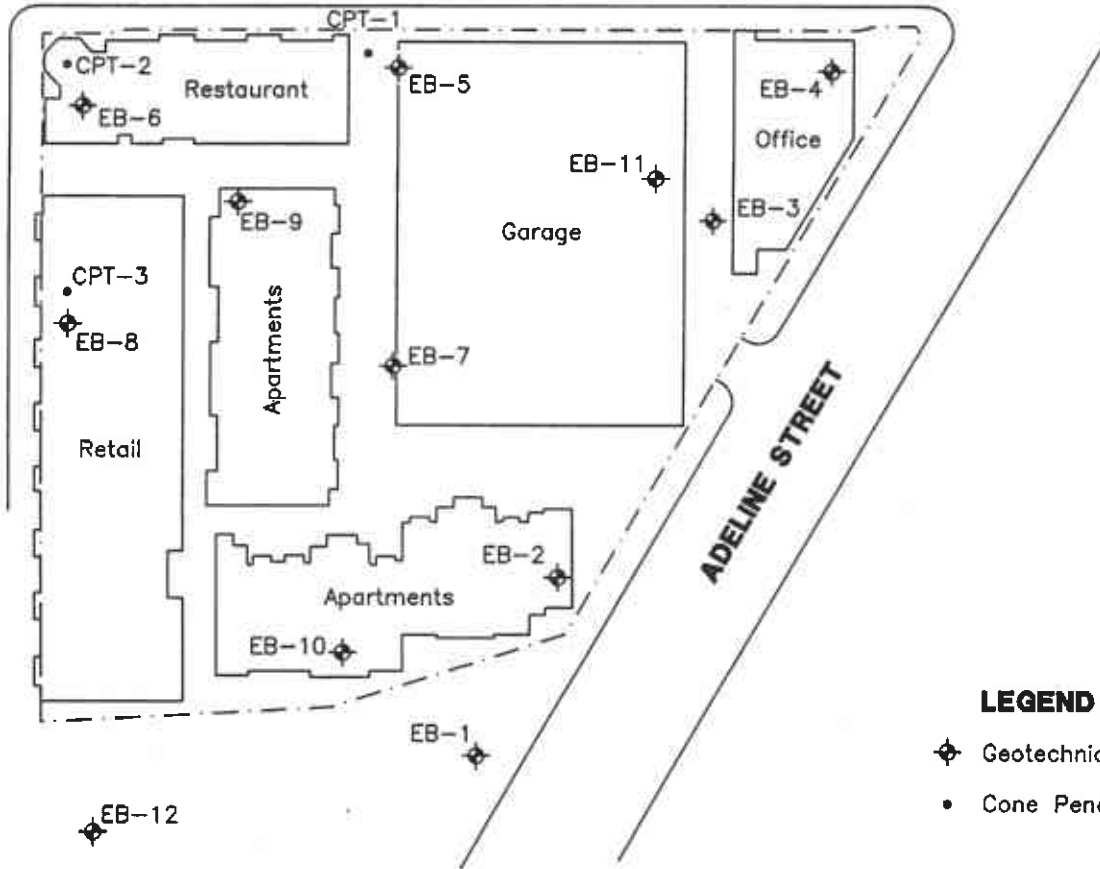
PROJECT NUMBER:

SNK01.001

40TH STREET

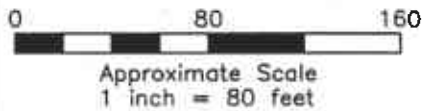
SAN PABLO AVENUE

ADELINE STREET



LEGEND

- ◆ Geotechnical Boring Location
- Cone Penetration Test Location



DRAWN BY: D. Alston
DATE: 2/7/03

REVISIONS	

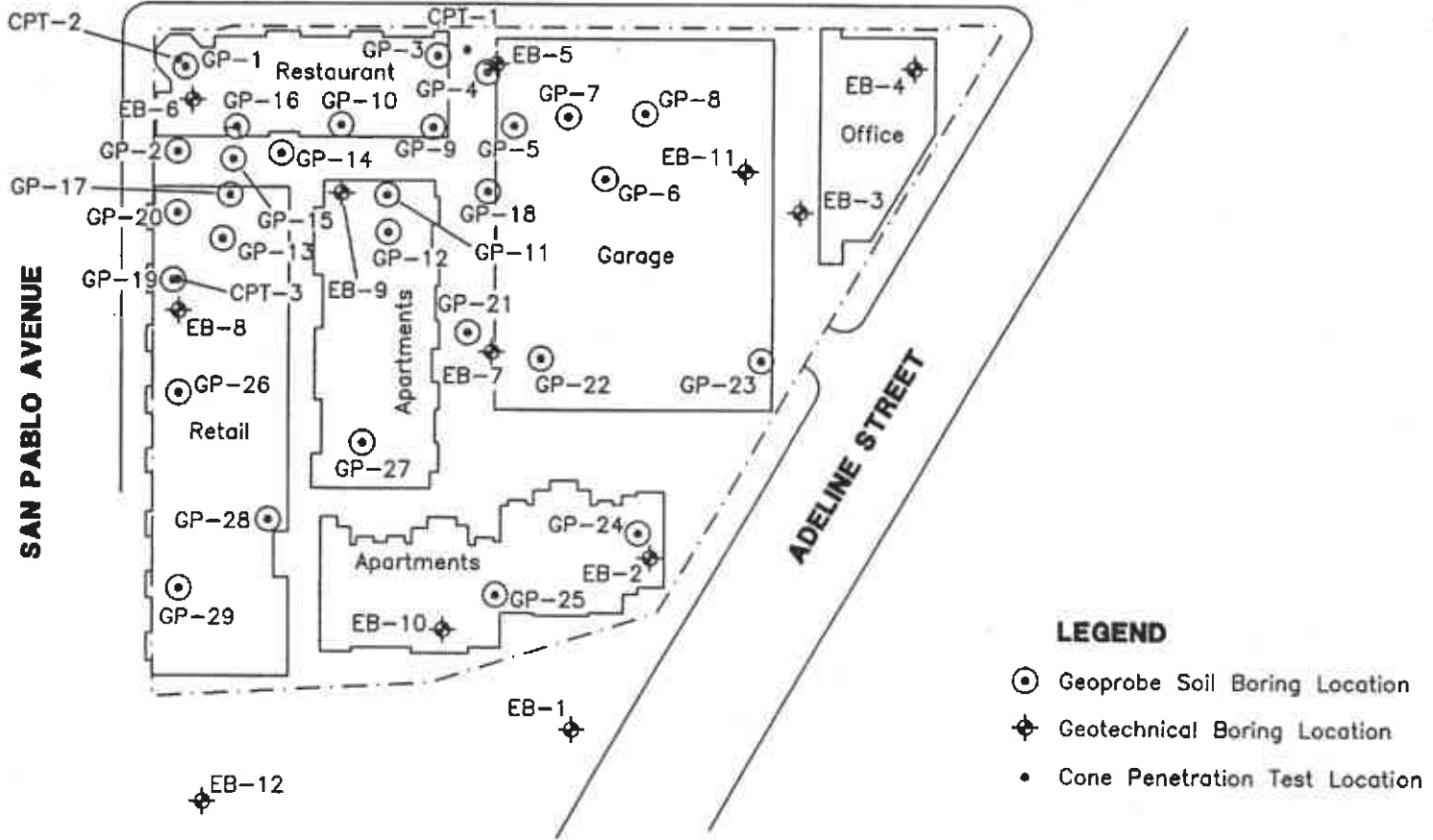
SITE PLAN MAP

Andante Project
3992 San Pablo Avenue
Emeryville, California

FIGURE
2

PROJECT NUMBER:
SNK01.001

40TH STREET



LEGEND

- ⊙ Geoprobe Soil Boring Location
- ⊠ Geotechnical Boring Location
- Cone Penetration Test Location



Approximate Scale
1 inch = 80 feet



DRAWN BY: D. Alston
DATE: 2/18/03

REVISIONS

NO.	DESCRIPTION

GEOPROBE LOCATION MAP

Andante Project
3992 San Pablo Avenue
Emeryville, California

FIGURE
3

PROJECT NUMBER:
SNK01.001

TABLE 1
SOIL SAMPLING ANALYTICAL RESULTS
 Andante Redevelopment Project
 3992 San Pablo Avenue, Emeryville, Alameda County, California

Sample ID	Date Collected	Sample Depth (Feet)	TPH as Gasoline (mg/Kg)	TPH as Diesel (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	Total Lead (mg/kg)
GP-1@5'	2/5/2003	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6.35
GP-2@5'	2/5/2003	5	<1.0	<1.0	0.0093	<0.0050	<0.0050	<0.0050	<0.0050	8.83
GP-2@8'	2/5/2003	8	1,600	69	6.6	30	19	150	<0.025	4.16
GP-3@5'	2/5/2003	5	<1.0	1.6	0.0081	<0.0050	0.014	<0.0050	<0.0050	6.70
GP-4@8'	2/5/2003	8	400	34	1.6	1.9	7.7	35	<0.25	4.56
GP-5@5'	2/5/2003	5	42	130	0.17	0.013	0.69	0.48	<0.0050	8.07
GP-5@10'	2/5/2003	10	31	1.2	0.31	<0.0050	0.53	1.7	0.0086	3.80
GP-6@5'	2/5/2003	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	10.3
GP-6@11'	2/5/2003	11	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6.03
GP-7@5'	2/5/2003	5	1.8	13	<0.0050	0.0061	0.019	0.0055	<0.0050	10.3
GP-7@10'	2/5/2003	10	25	11	0.12	<0.0050	1.2	0.23	0.0069	5.42
GP-8@10'	2/5/2003	10	<1.0	3.4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	3.01
GP-9@5'	2/5/2003	5	12,000	1,100	19	270	230	1,300	0.061	16.7
GP-10@6'	2/5/2003	6	870	420	3.0	8.8	9.3	46	<0.050	8.41
GP-11@5'	2/5/2003	5	4,900	6.2	3.3	61	92	590	<0.25	7.92
GP-11@10'	2/5/2003	10	26	630	0.34	0.50	0.61	2.5	<0.025	6.84
GP-12@8'	2/5/2003	8	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6.05
GP-13@8'	2/5/2003	8	40	1.5	0.66	<0.0050	1.6	3.2	0.0075	2.83
GP-16@5'	2/5/2003	5	1.3	1.4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5.57
GP-17@5'	2/5/2003	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5.06
GP-18@5'	2/5/2003	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6.52
GP-18@10'	2/5/2003	10	<1.0	15	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	2.17
GP-21@7'	2/5/2003	7	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6.10
GP-22@7'	2/5/2003	7	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	4.46

TABLE 1
SOIL SAMPLING ANALYTICAL RESULTS
 Andante Redevelopment Project
 3992 San Pablo Avenue, Emeryville, Alameda County, California

Sample ID	Date Collected	Sample Depth (Feet)	TPH as Gasoline (mg/Kg)	TPH as Diesel (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	Total Lead (mg/kg)
GP-23@7'	2/5/2003	7	<1.0	41	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	4.58
GP-24@7'	2/5/2003	7	<1.0	140	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	4.28
GP-25@7'	2/5/2003	7	<1.0	54	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	4.58
GP-26@5'	2/5/2003	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5.31
GP-27@5'	2/5/2003	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	4.14
GP-28@5'	2/5/2003	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	3.73
GP-29@5'	2/5/2003	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5.05

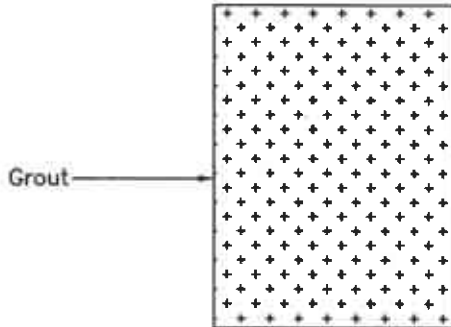
NOTES:

TPH - Total Petroleum Hydrocarbons
 MTBE - Methyl Tertiary Butyl Ether

< - Less than indicated laboratory detection limit
 mg/Kg - Milligrams per Kilogram

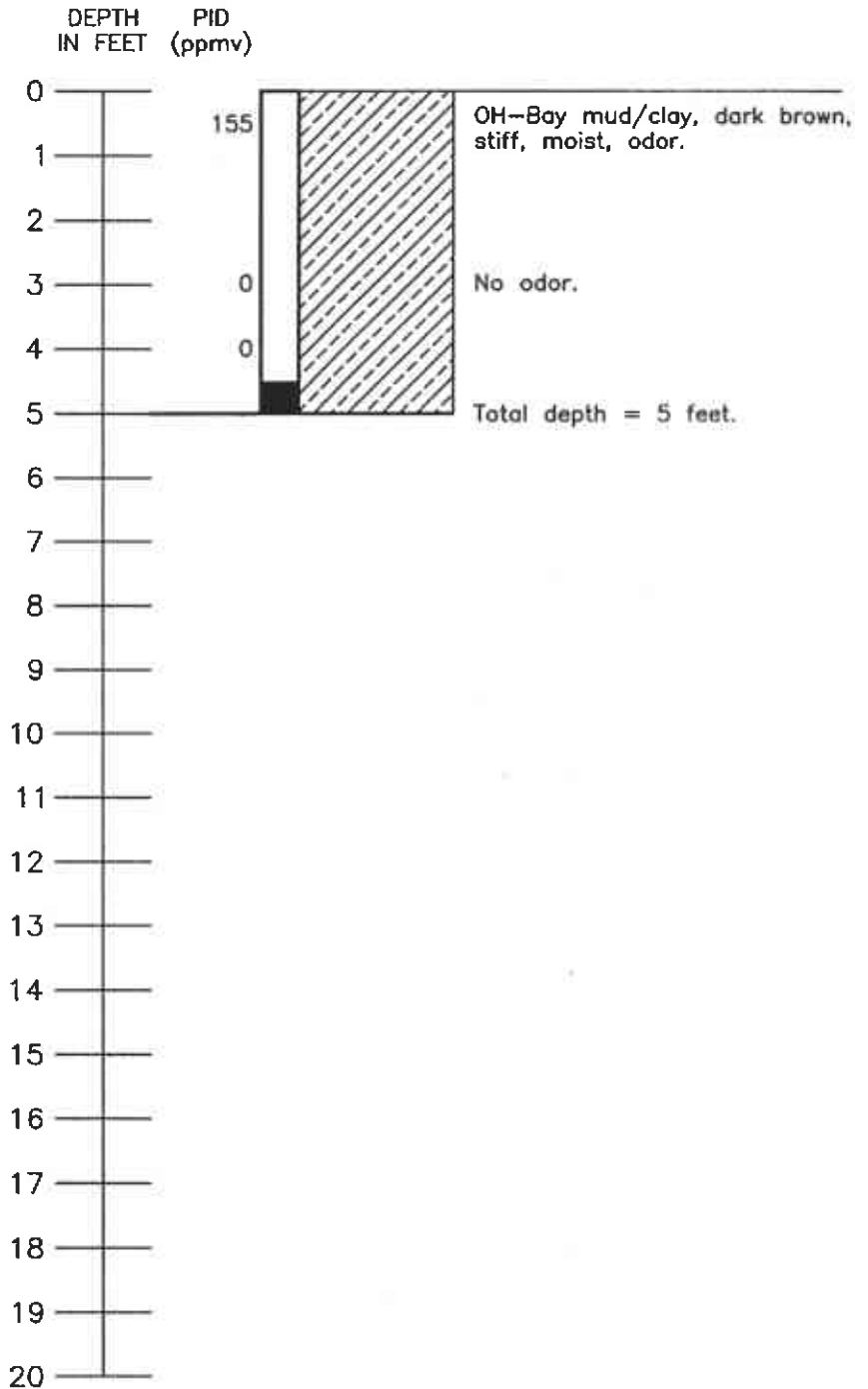
APPENDIX A
SOIL BORING LOGS

**BORING/WELL
CONSTRUCTION
DETAIL**



**GRAPHIC
LOG**

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

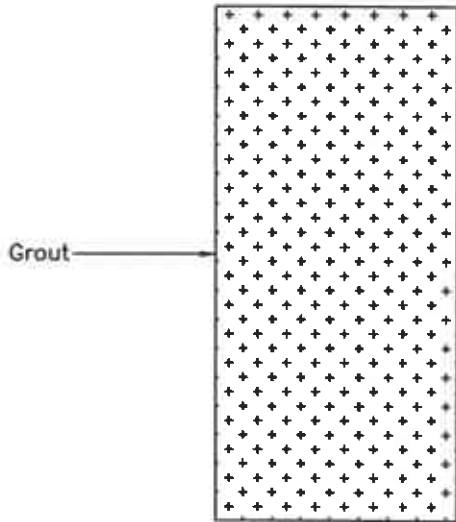
CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

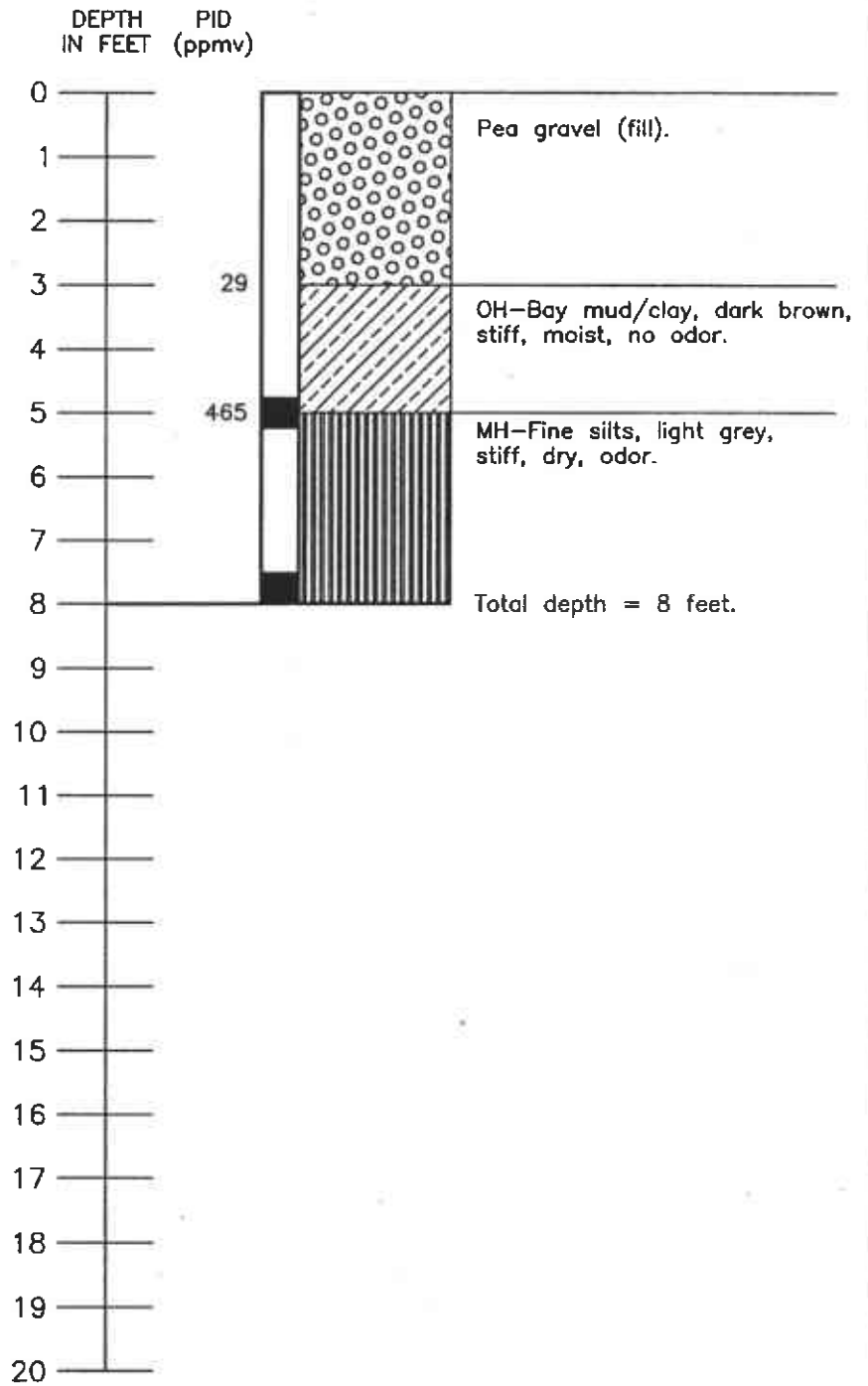
Boring/Well Log Details GP-1	Job No. SNK01.001
Andante Project 3992 San Pablo Avenue Emeryville, California 2/5/03	BORING/ WELL GP-1

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

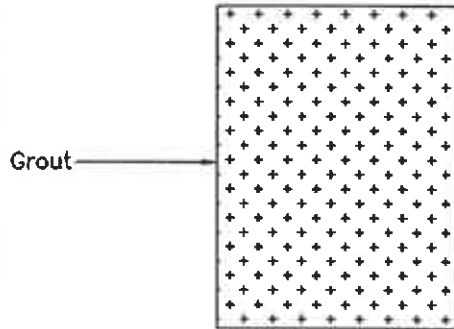
Boring/Well Log
Details GP-2

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

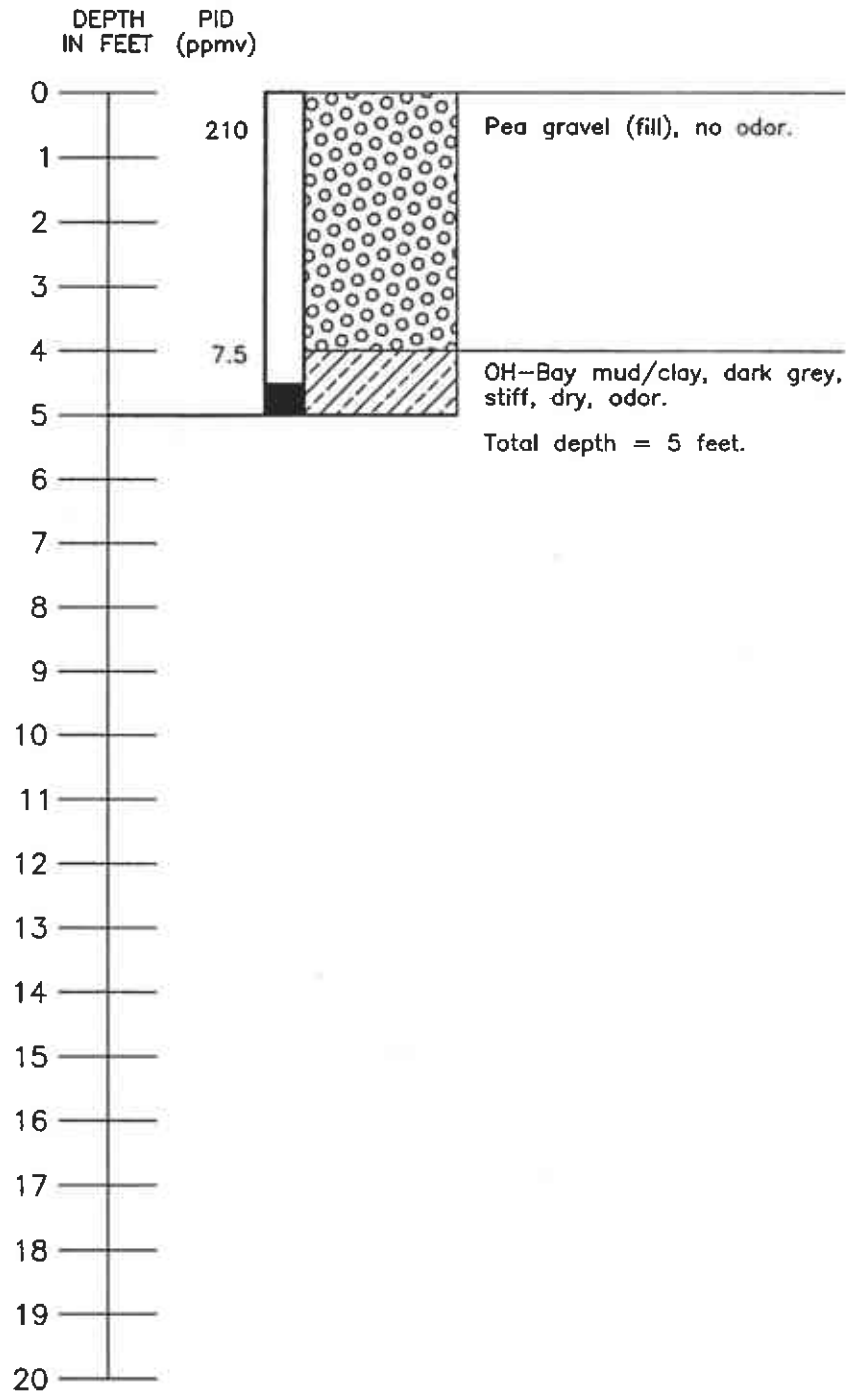
BORING/
WELL
GP-2

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Machured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-3

Job No.
SNK01.001

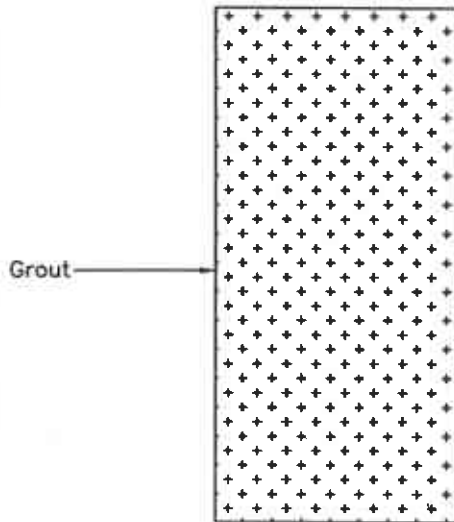
Andante Project
3992 San Pablo Avenue
Emeryville, California

BORING/
WELL

2/5/03

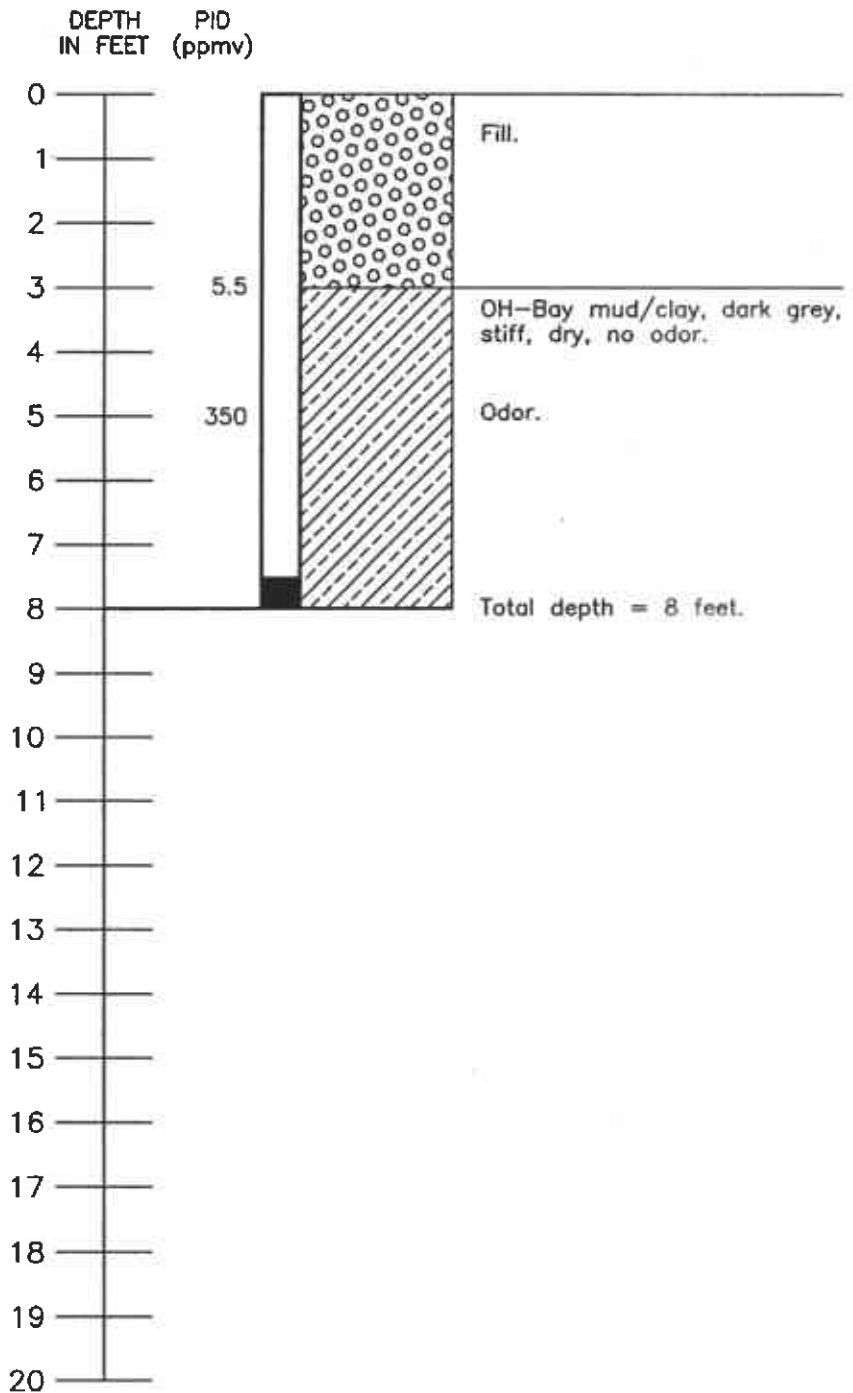
GP-3

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

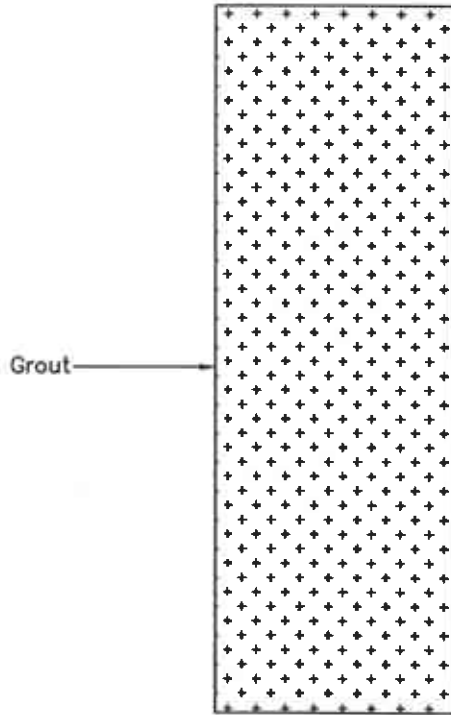
Boring/Well Log
Details GP-4

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

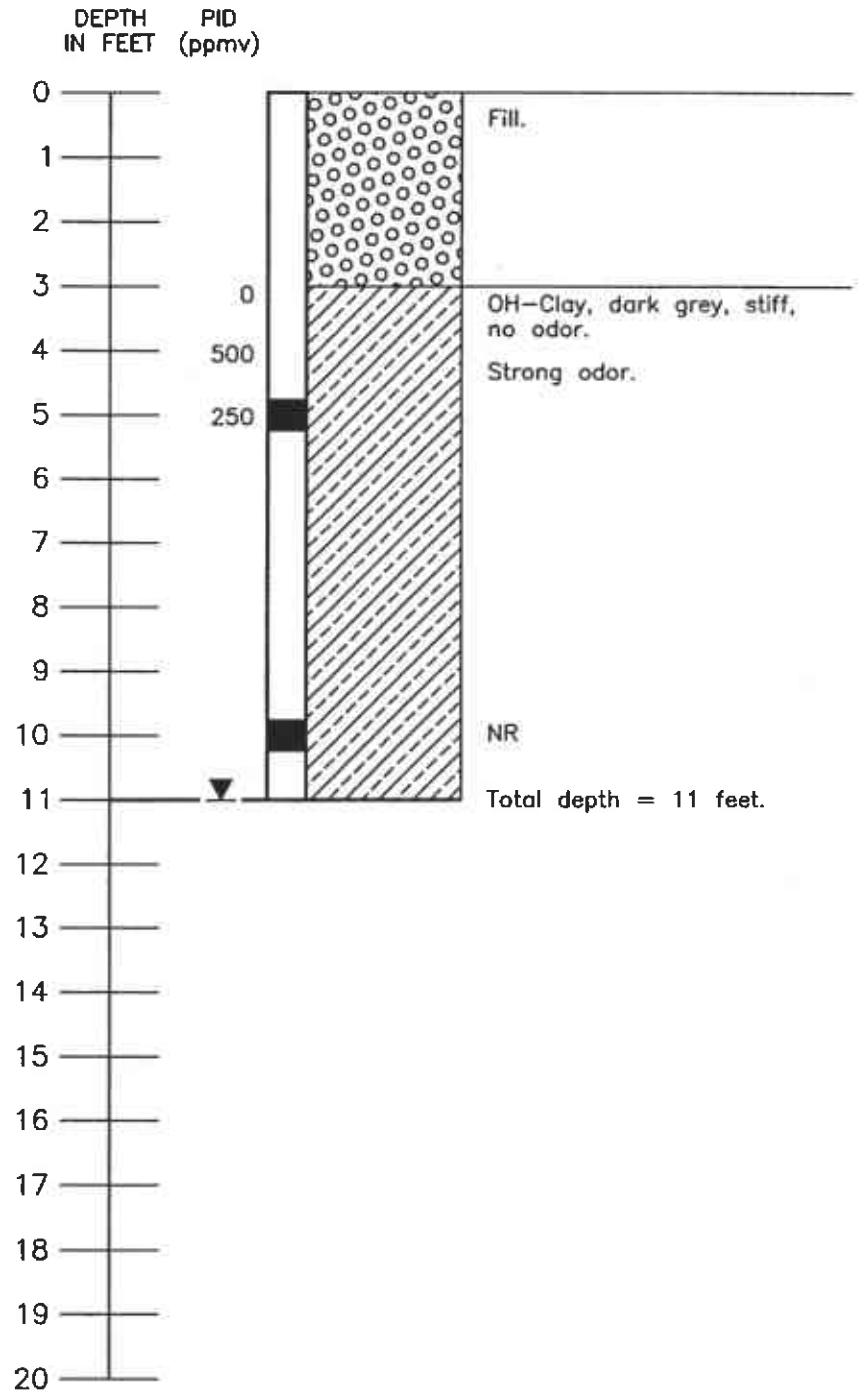
BORING/
WELL
GP-4

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

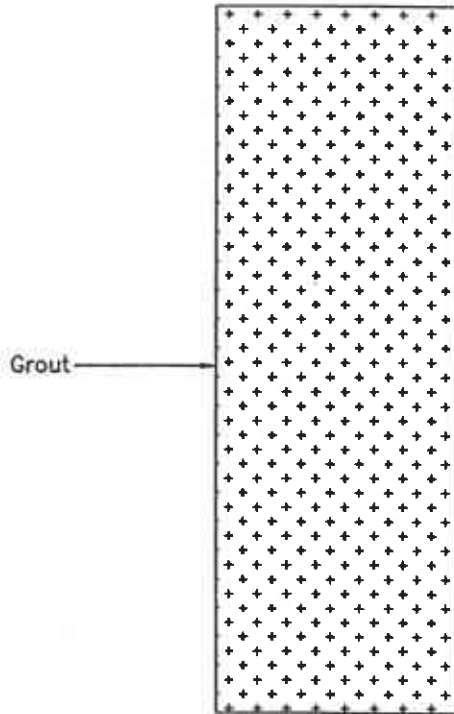
Boring/Well Log
Details GP-5

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

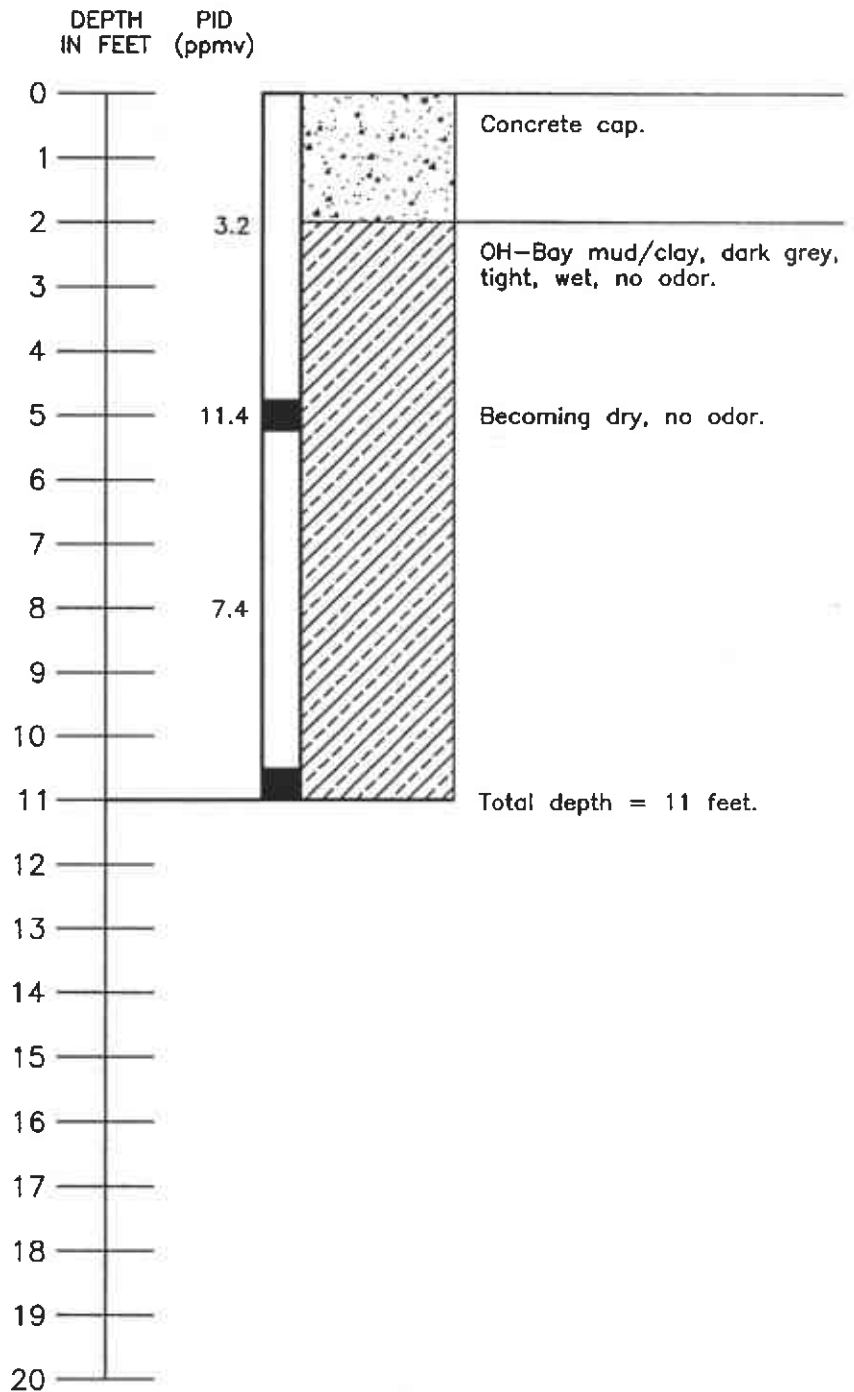
BORING/
WELL
GP-5

**BORING/WELL
CONSTRUCTION
DETAIL**



**GRAPHIC
LOG**

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

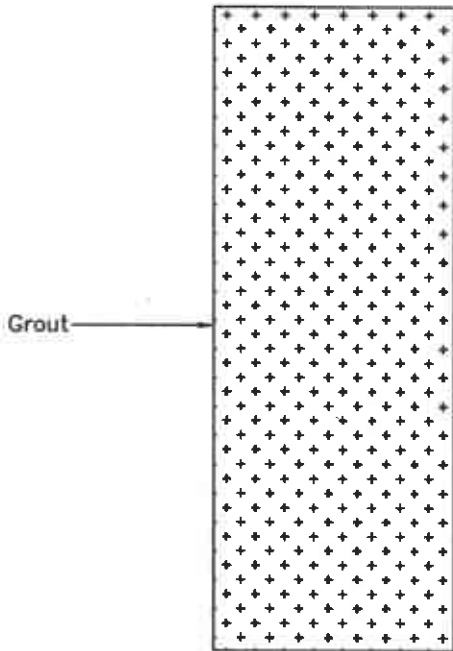
CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

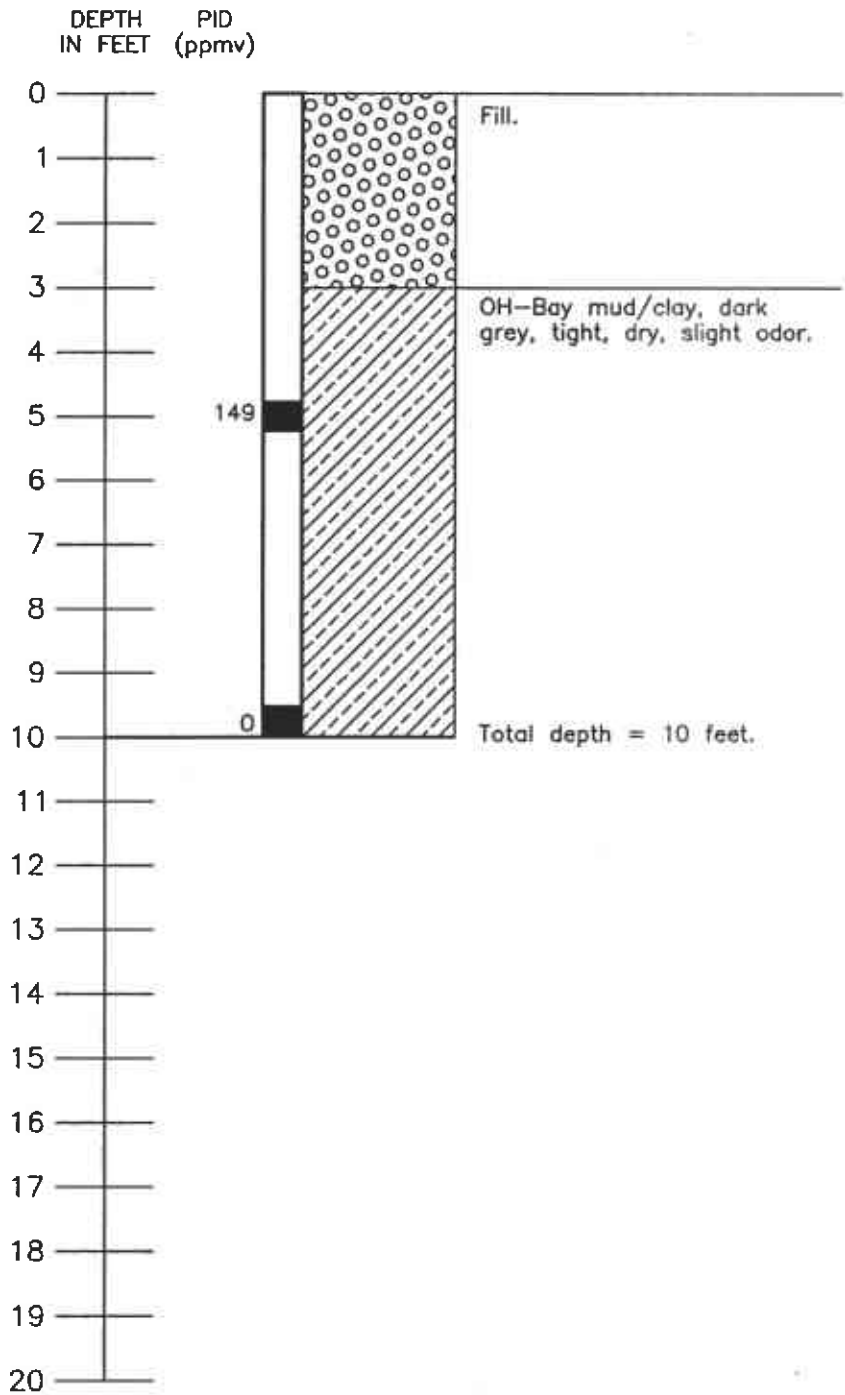
Boring/Well Log Details GP-6	Job No. SNK01.001
Andante Project 3992 San Pablo Avenue Emeryville, California 2/5/03	BORING/ WELL GP-6

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability est K (hydraulic conductivity) 1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

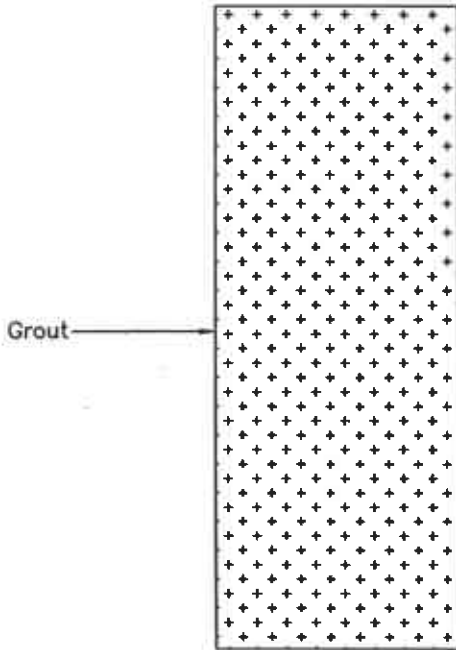
Boring/Well Log
Details GP-7

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

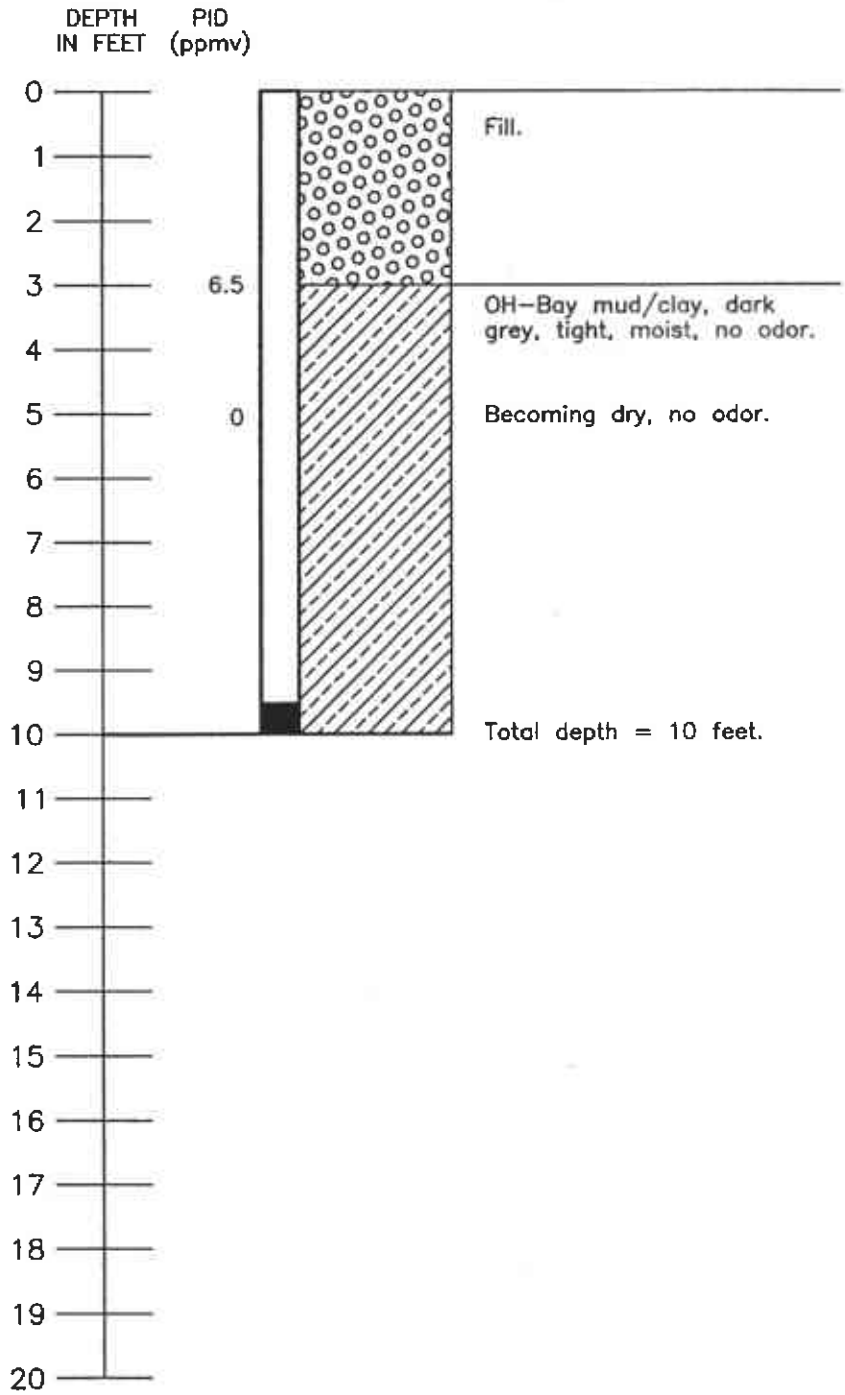
BORING/
WELL
GP-7

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-8

Job No.
SNK01.001

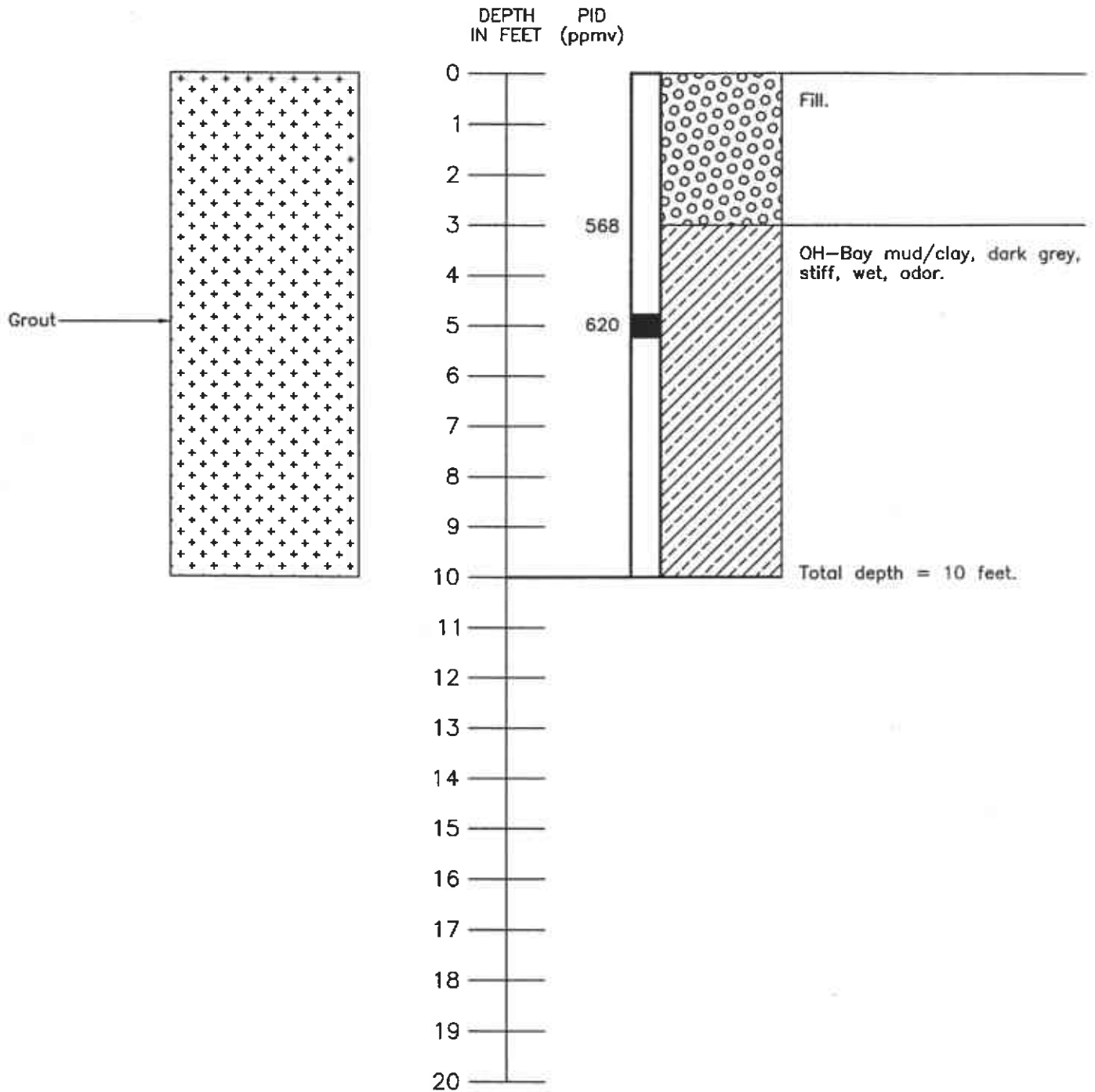
Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

BORING/
WELL
GP-8

BORING/WELL CONSTRUCTION DETAIL

GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-9

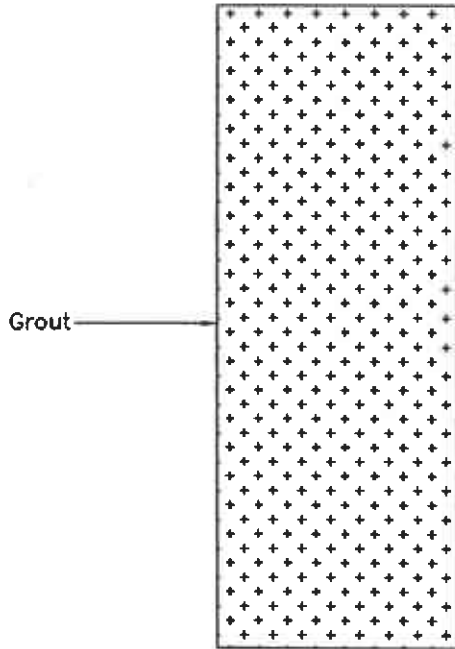
Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California

2/5/03

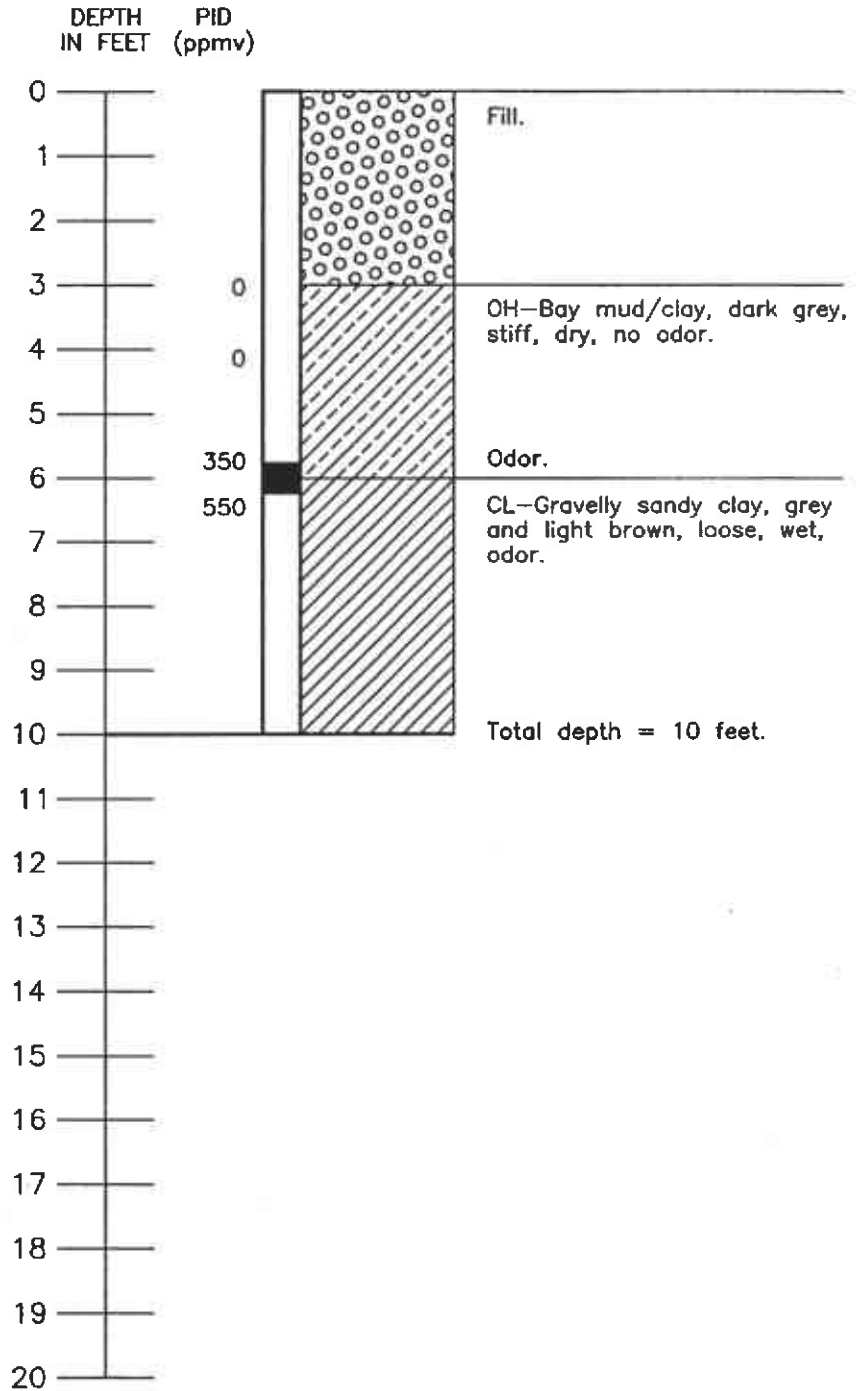
BORING/
WELL
GP-9

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-10

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California

BORING/
WELL

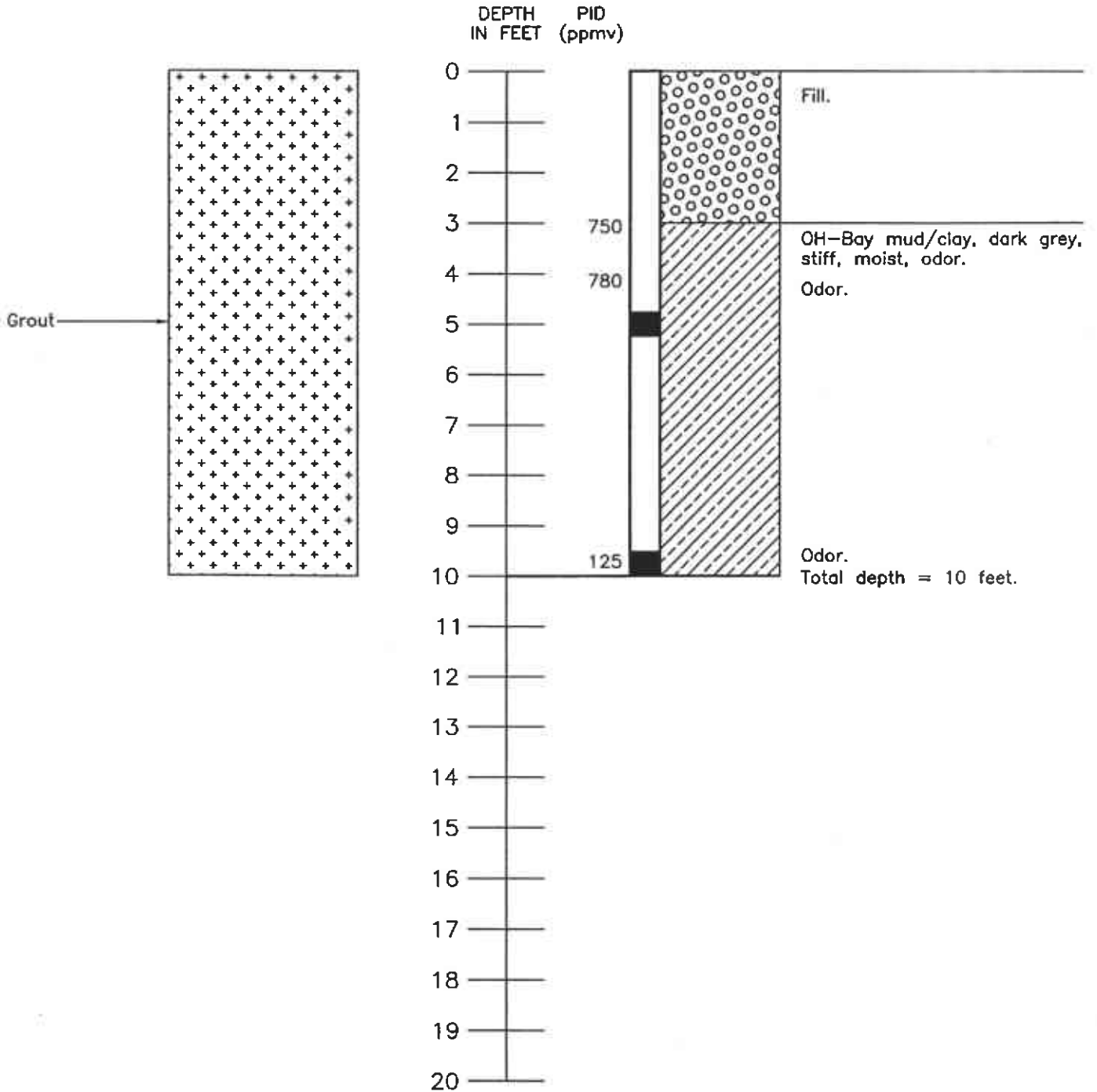
2/5/03

GP-10

**BORING/WELL
CONSTRUCTION
DETAIL**

**GRAPHIC
LOG**

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

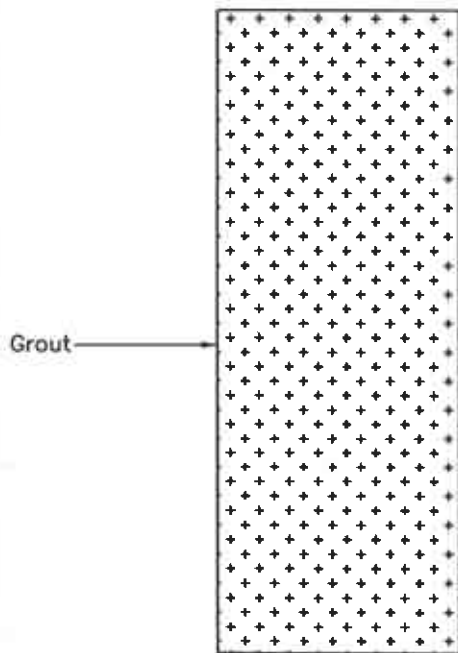
Boring/Well Log
Details GP-11

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

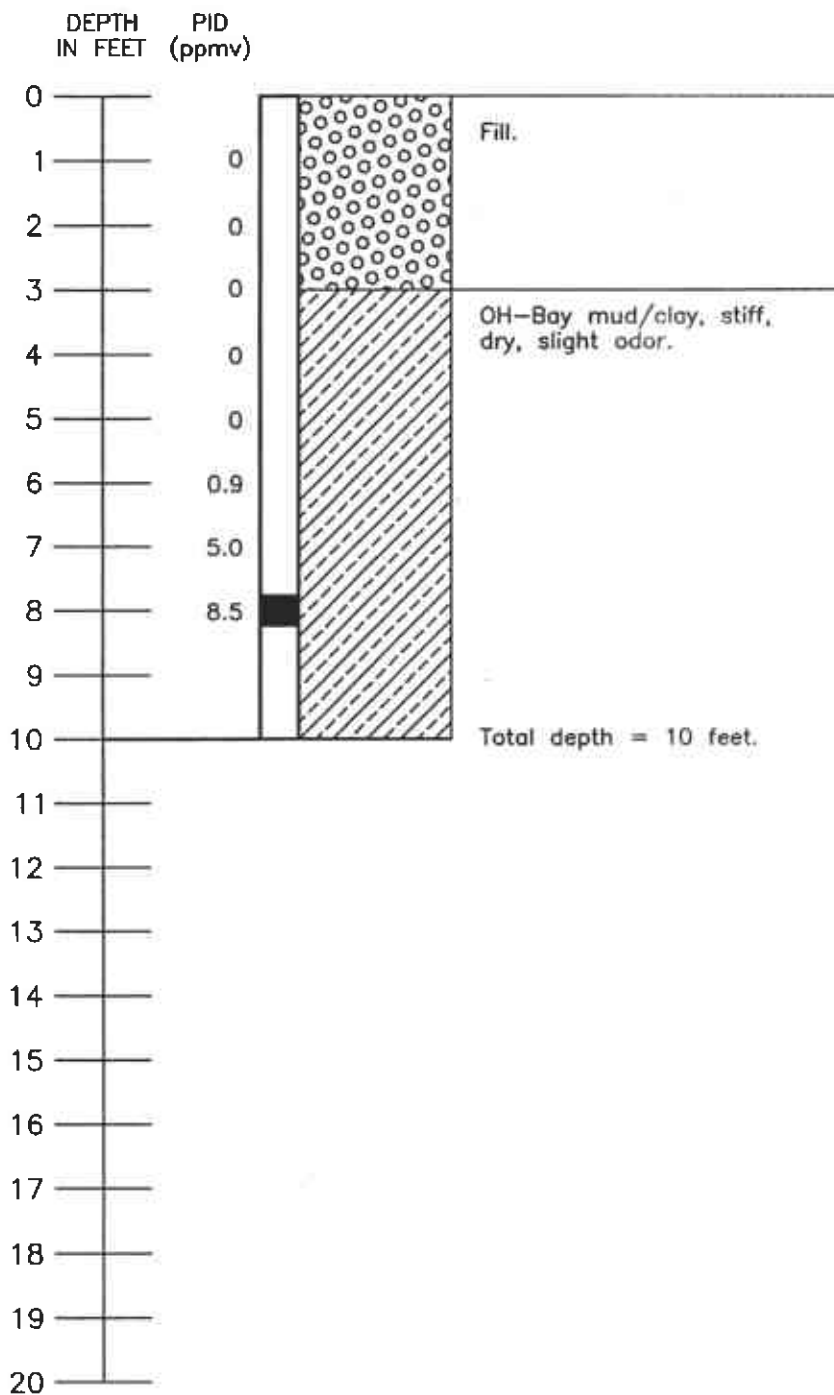
BORING/
WELL
GP-11

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

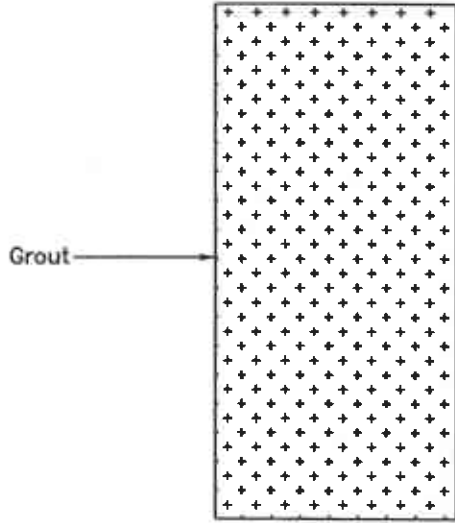
Boring/Well Log
Details GP-12

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

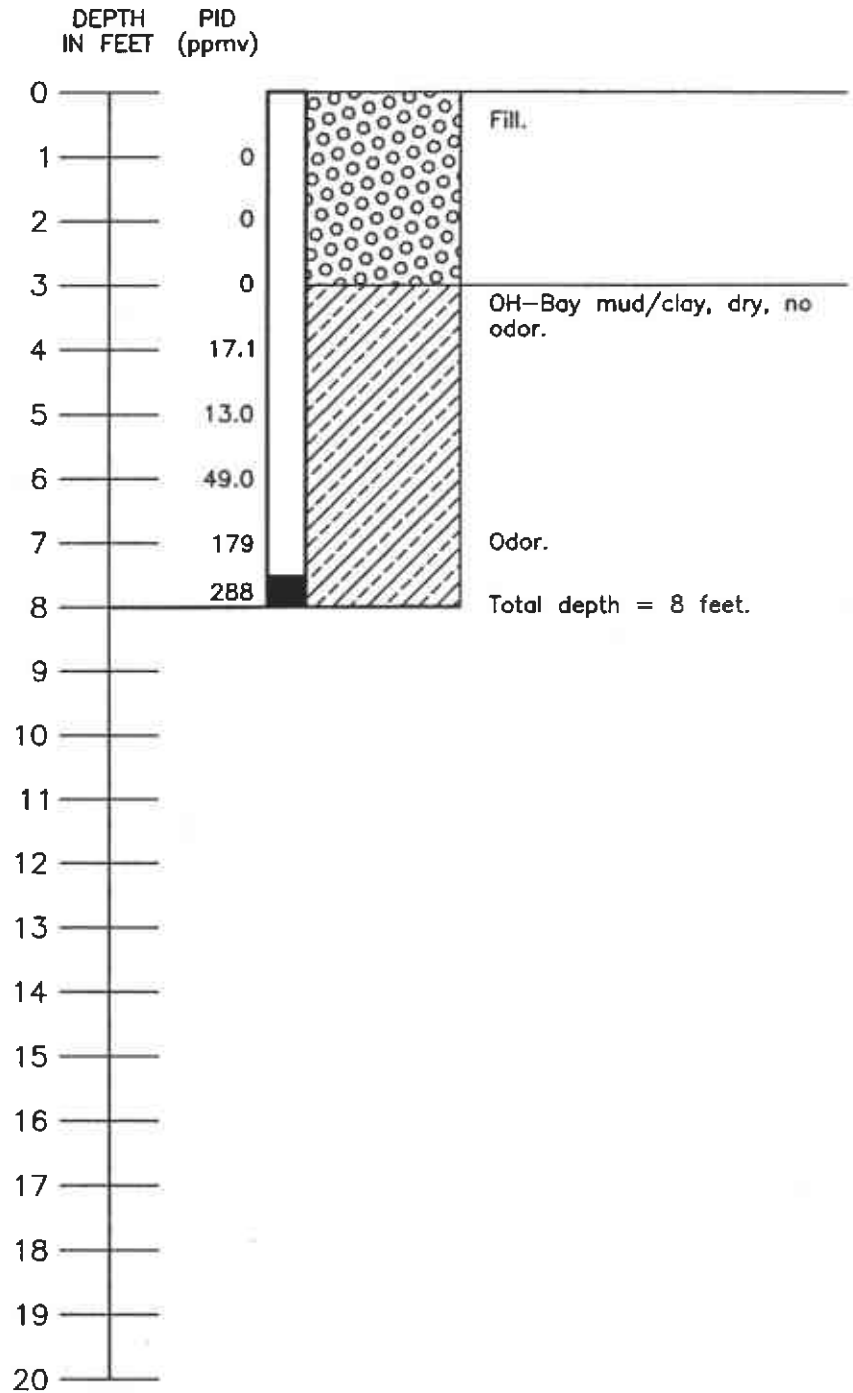
BORING/
WELL
GP-12

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

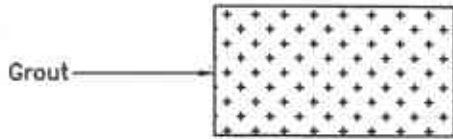
Boring/Well Log
Details GP-13

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

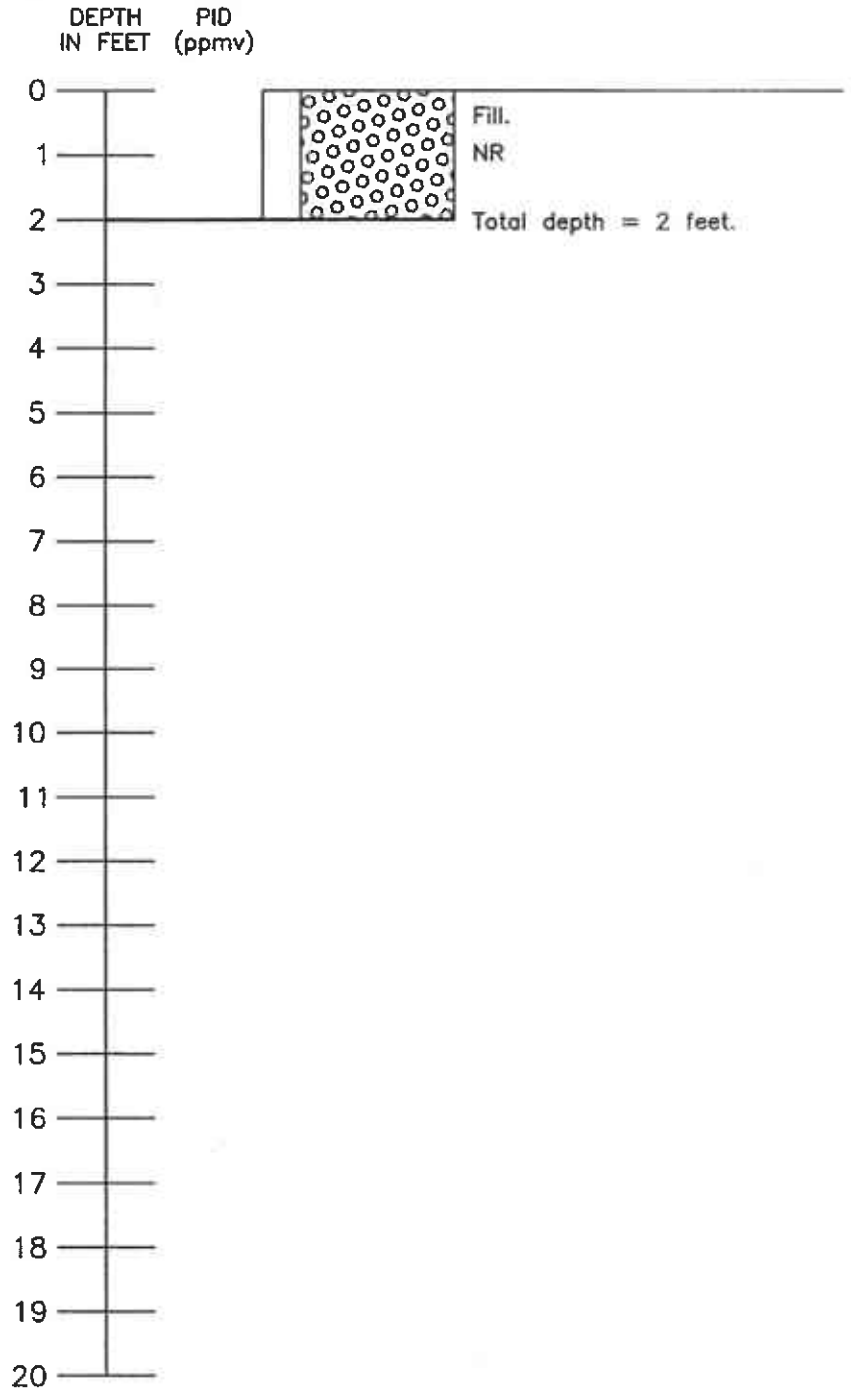
BORING/
WELL
GP-13

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-14

Job No.
SNK01.001

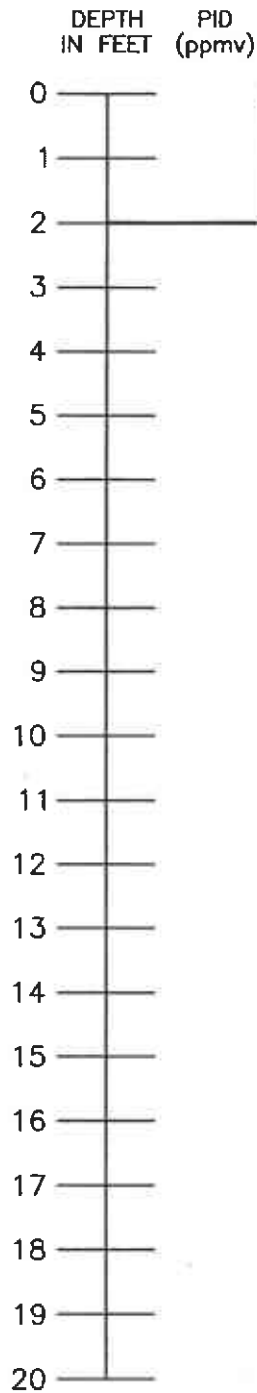
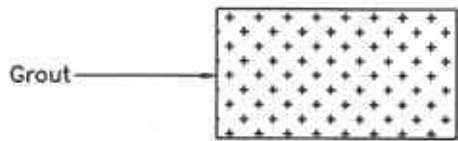
Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

BORING/
WELL
GP-14

**BORING/WELL
CONSTRUCTION
DETAIL**

**GRAPHIC
LOG**

DESCRIPTION



Fill.
NR
Total depth = 2 feet.

EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-15

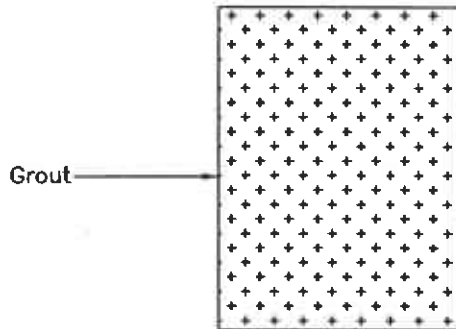
Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California

BORING/
WELL
GP-15

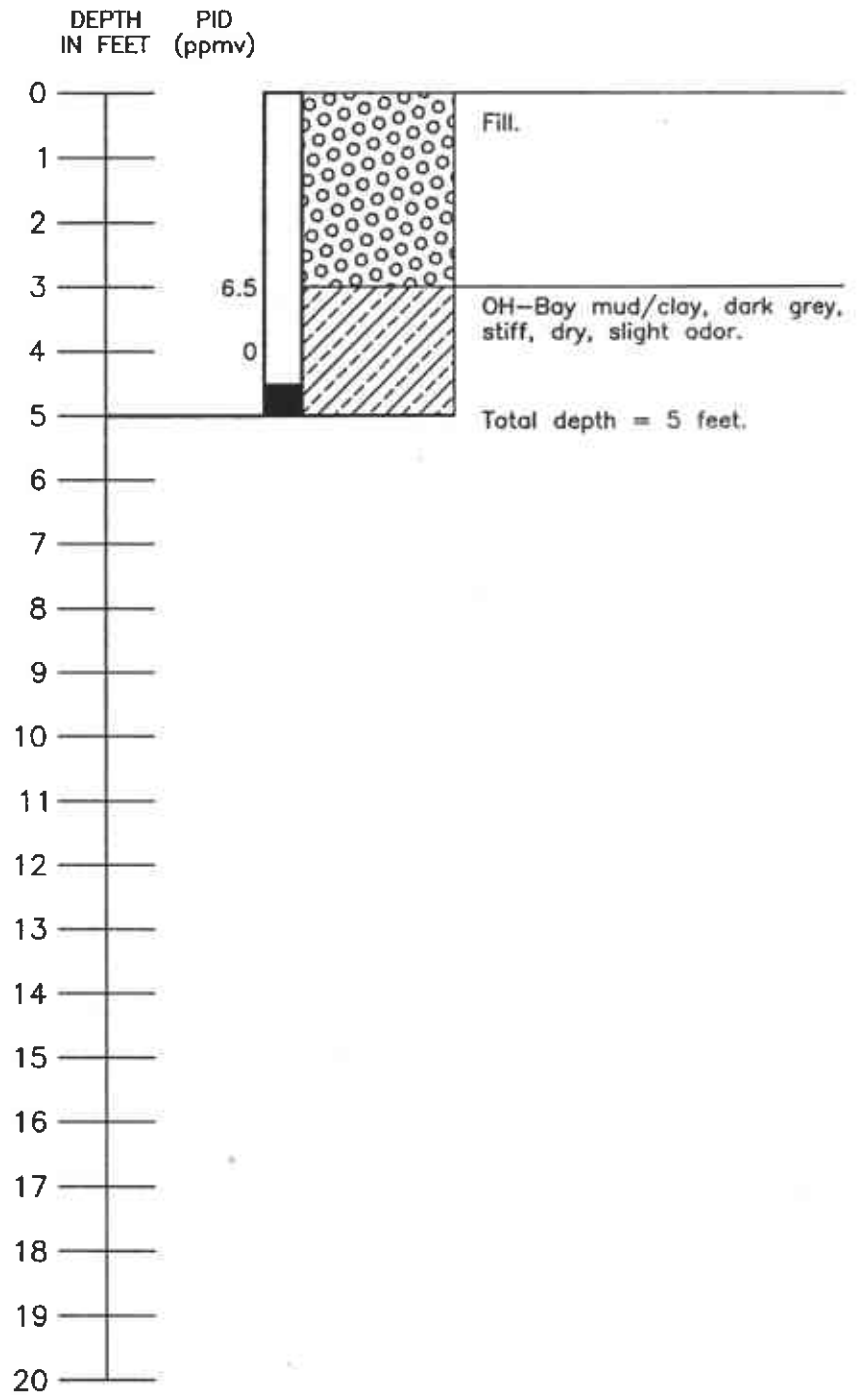
2/5/03

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

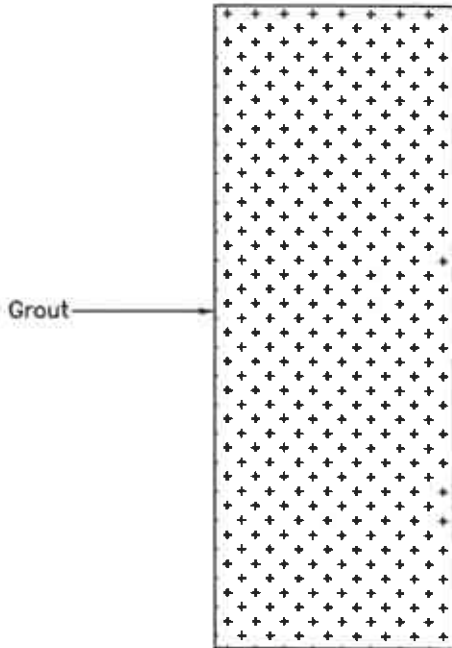
Boring/Well Log
Details GP-16

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

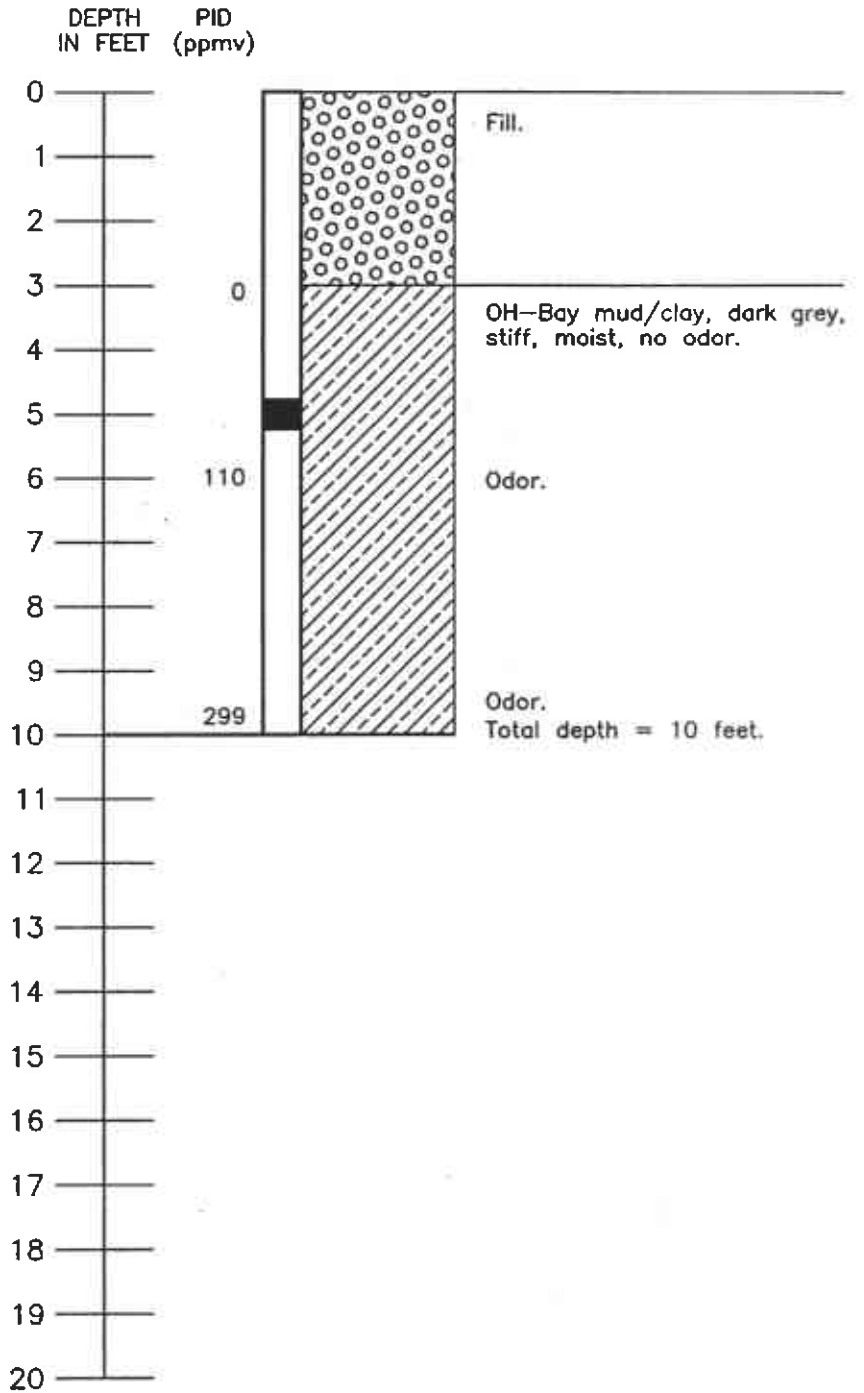
BORING/
WELL
GP-16

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-17

Job No.
SNK01.001

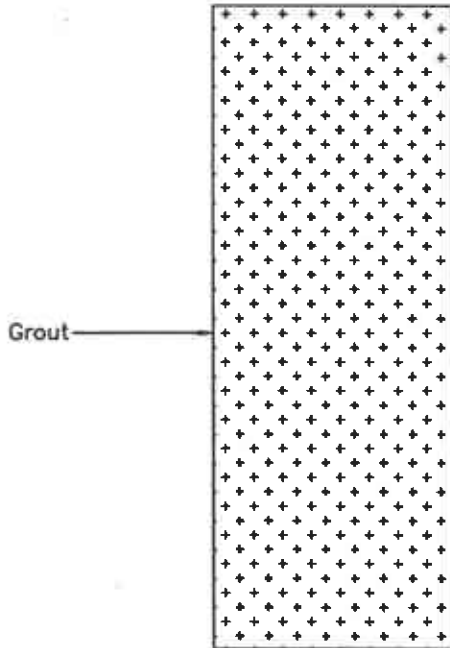
Andante Project
3992 San Pablo Avenue
Emeryville, California

BORING/
WELL

2/5/03

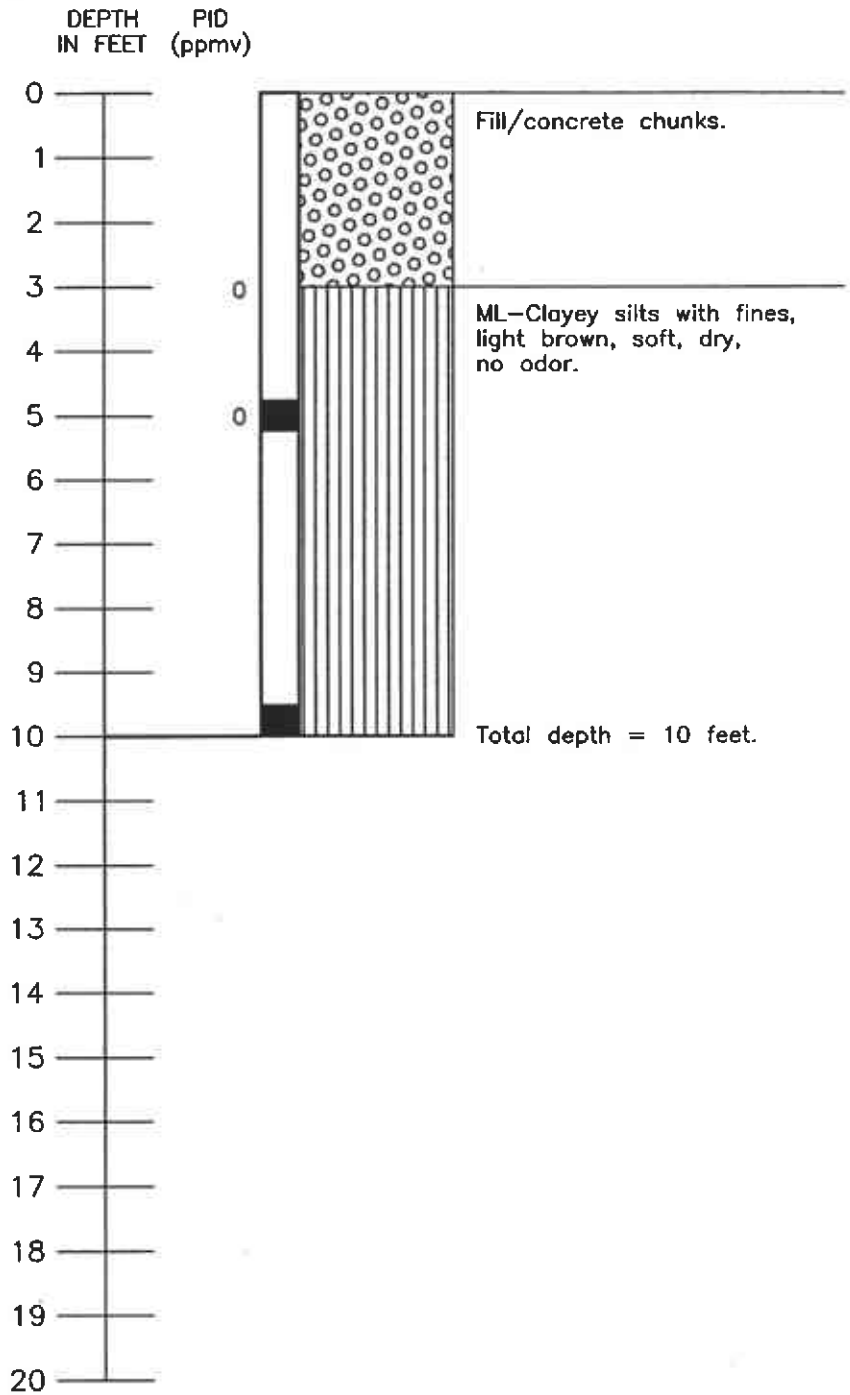
GP-17

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- - - - Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-18

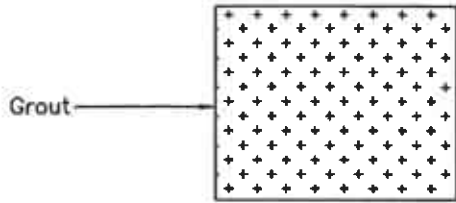
Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California

2/5/03

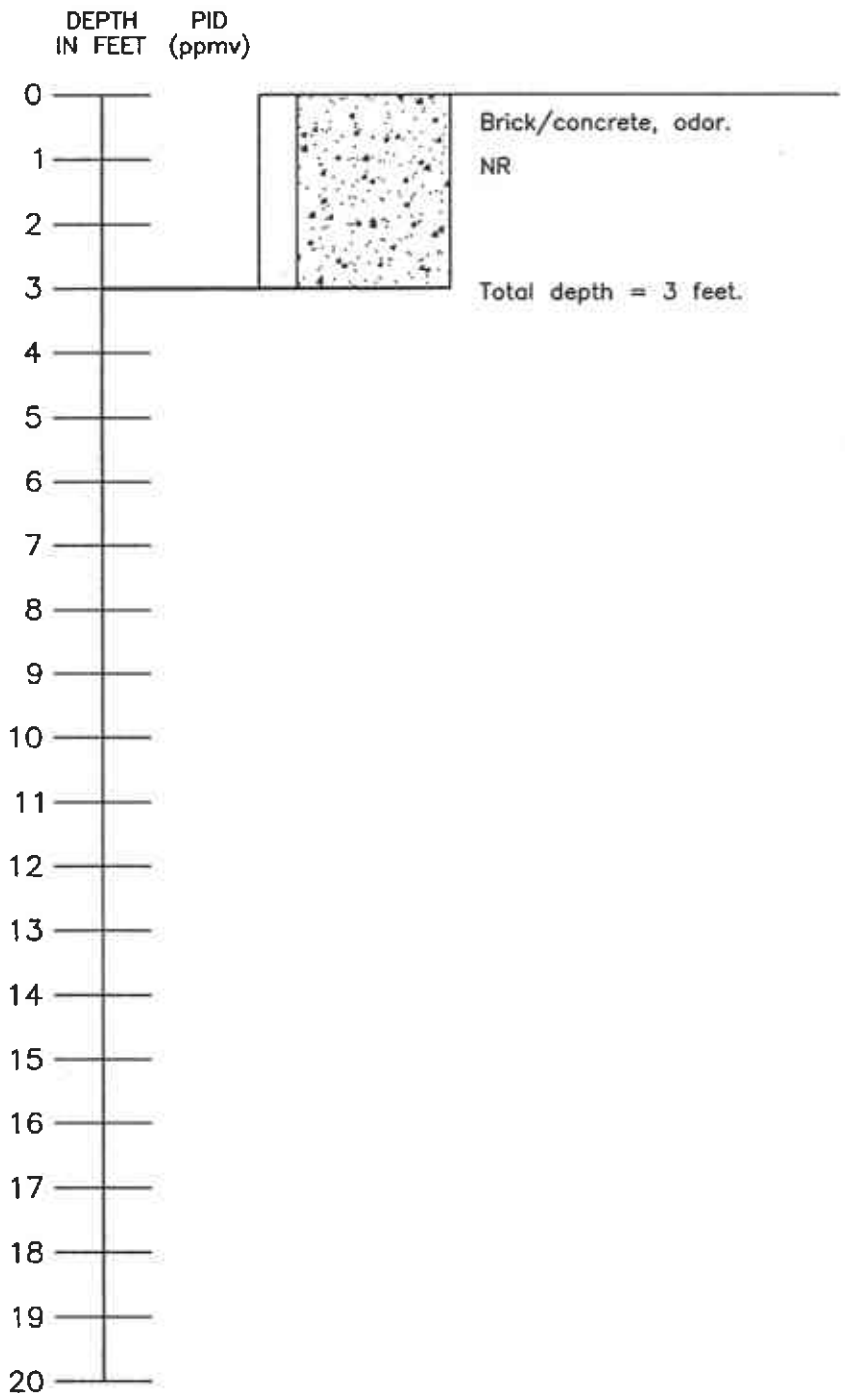
BORING/
WELL
GP-18

**BORING/WELL
CONSTRUCTION
DETAIL**



**GRAPHIC
LOG**

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- - - Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

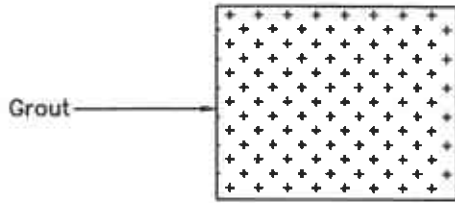
Boring/Well Log
Details GP-19

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

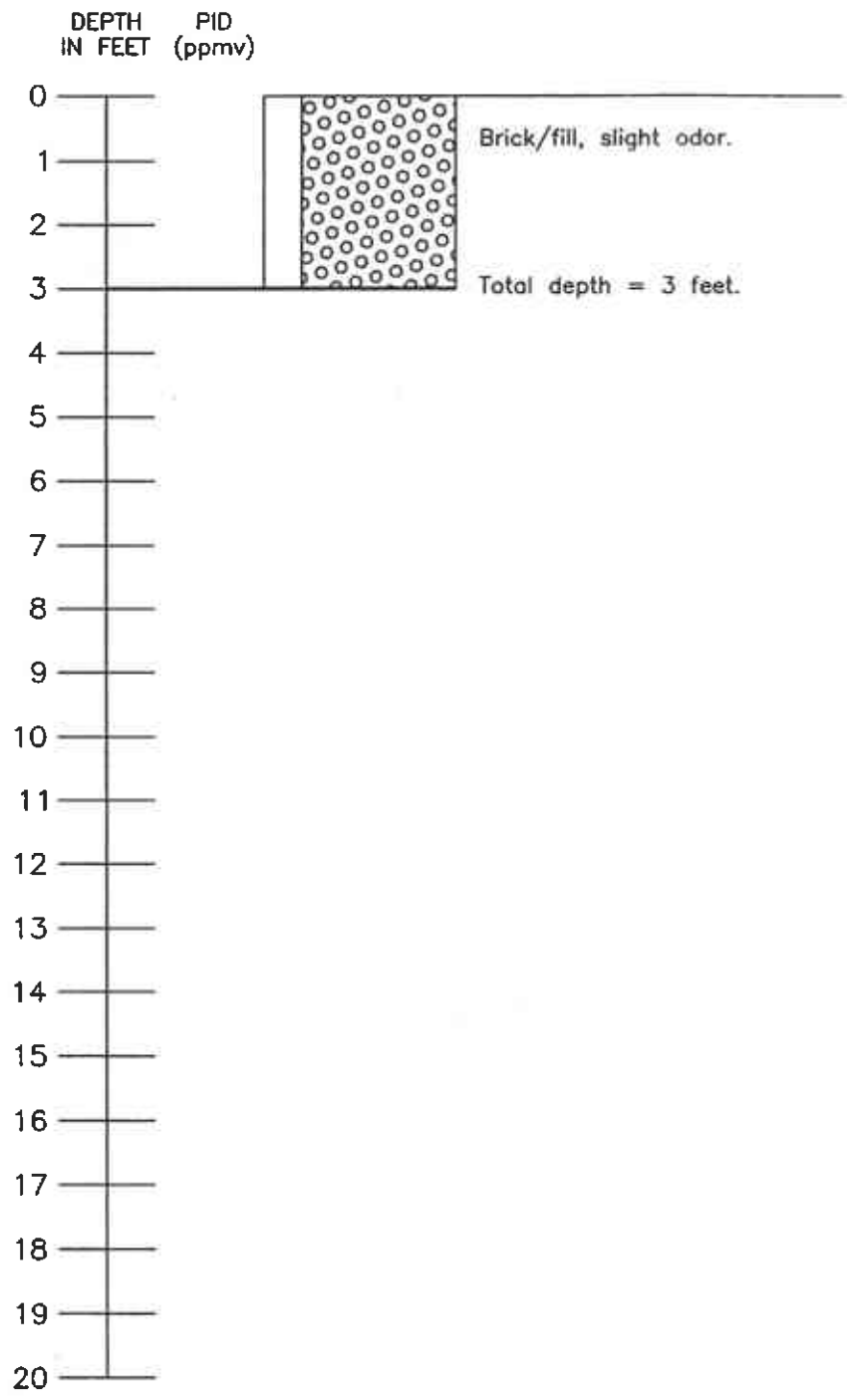
BORING/
WELL
GP-19

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-20

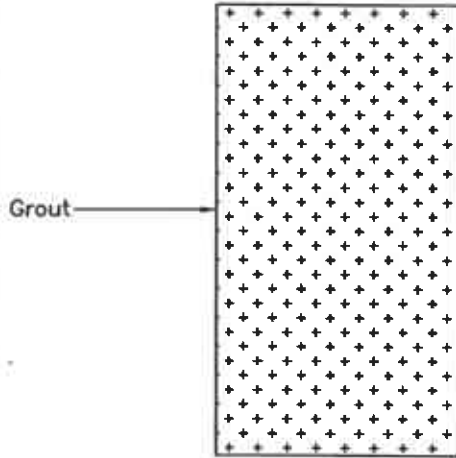
Andante Project
3992 San Pablo Avenue
Emeryville, California

2/5/03

Job No.
SNK01.001

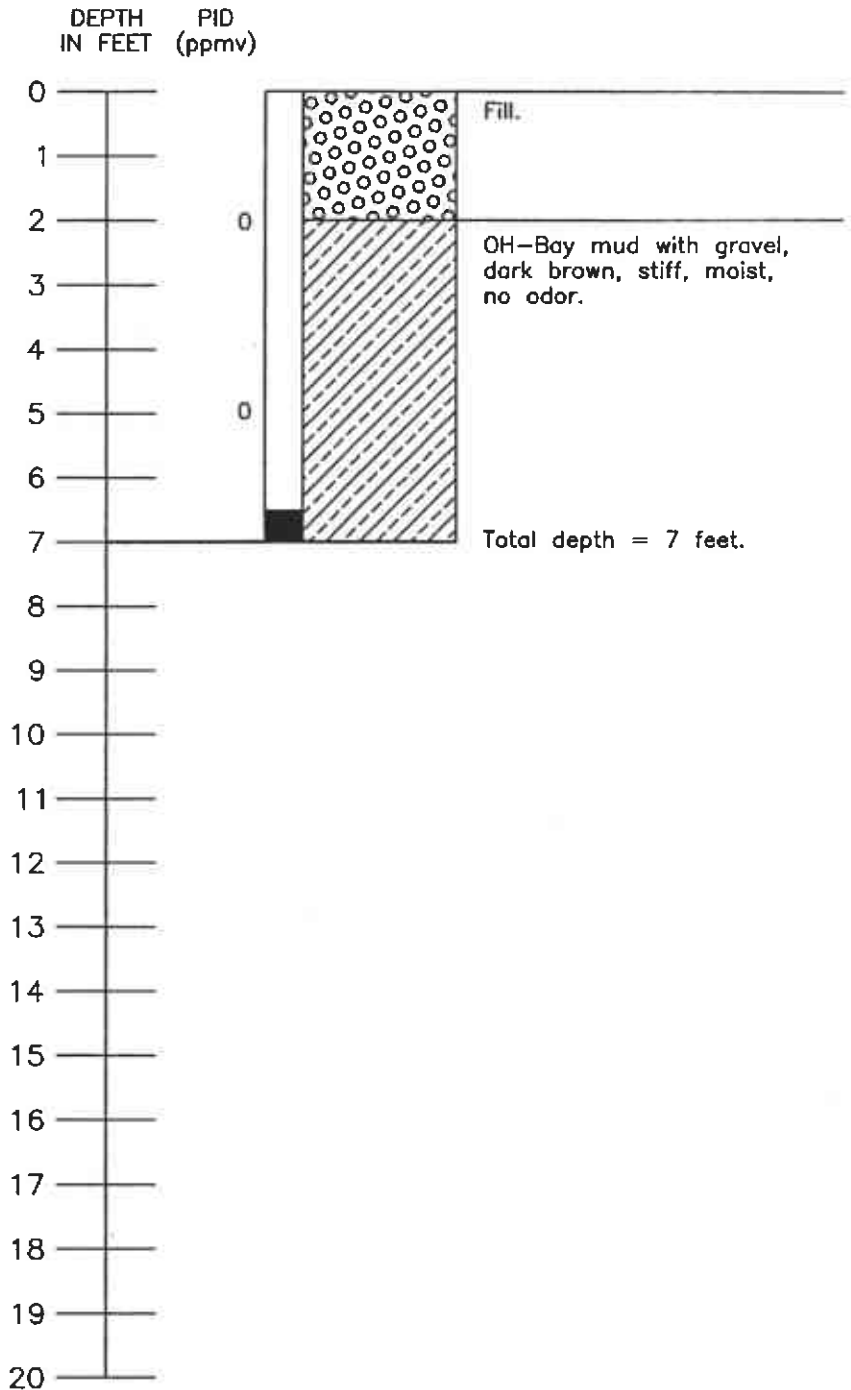
BORING/
WELL
GP-20

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

▼ Water level during drilling

▽ Water level in completed well

□ Location of recovered drill sample

■ Location of sample sealed for chemical analysis

□ Sieve sample

□ Grab sample

Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary

NR No recovery

CONTACTS:

— Solid where certain

..... Dotted where approximate

----- Dashed where uncertain

— Hoched where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-21

Andante Project
3992 San Pablo Avenue
Emeryville, California

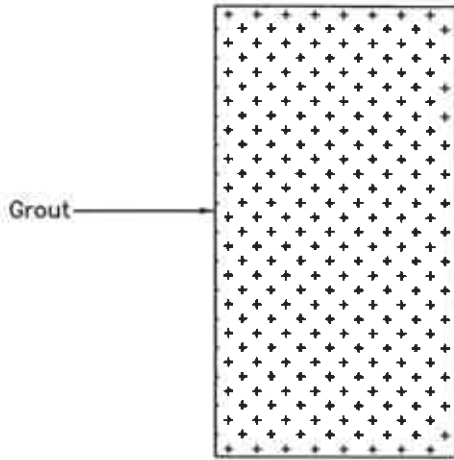
2/5/03

Job No.
SNK01.001

BORING/
WELL

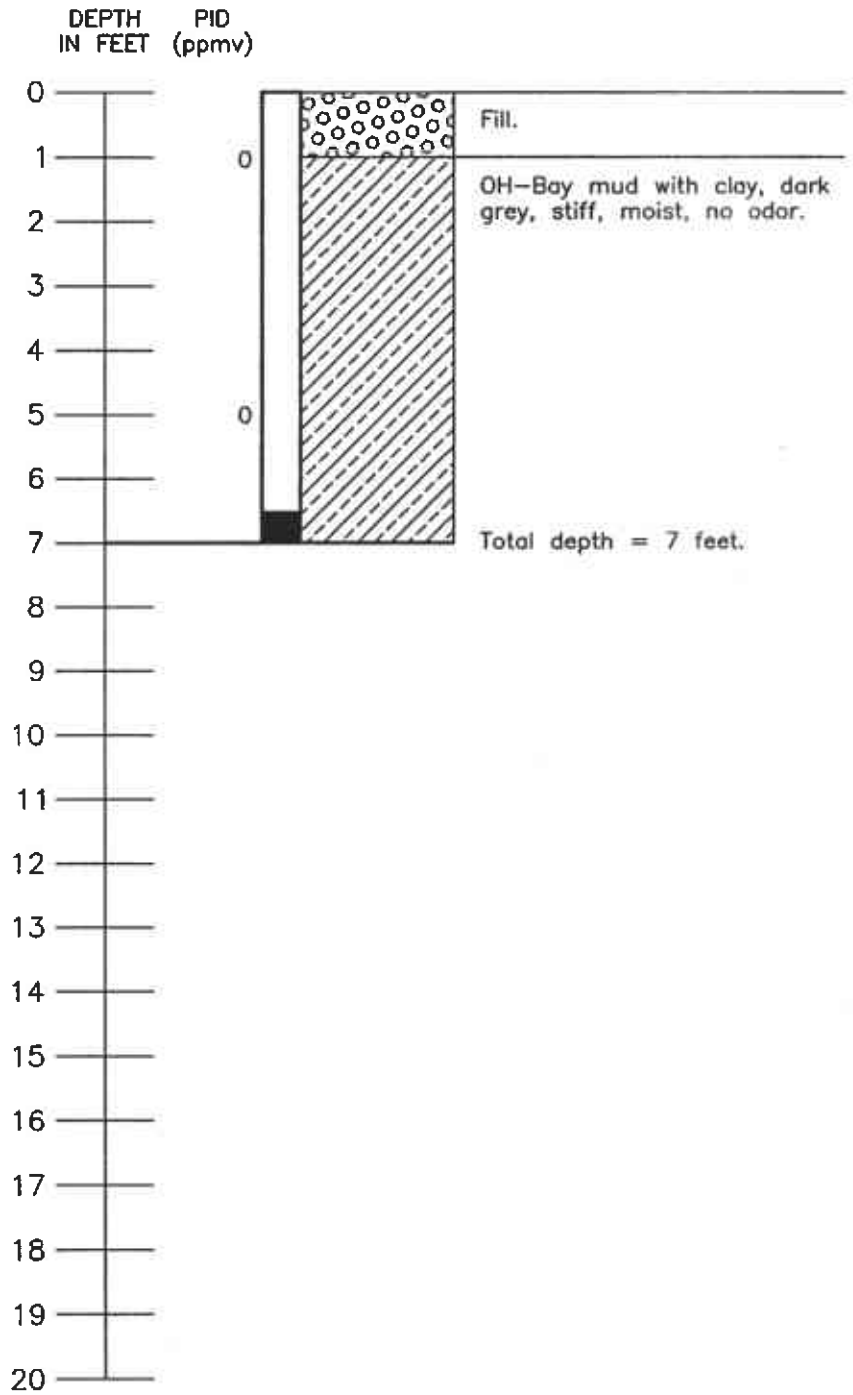
GP-21

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-22

Job No.
SNK01.001

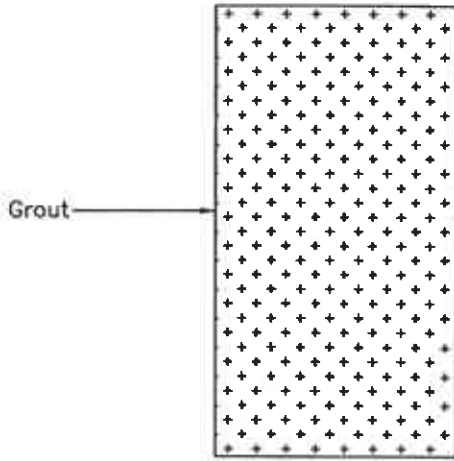
Andante Project
3992 San Pablo Avenue
Emeryville, California

BORING/
WELL

2/5/03

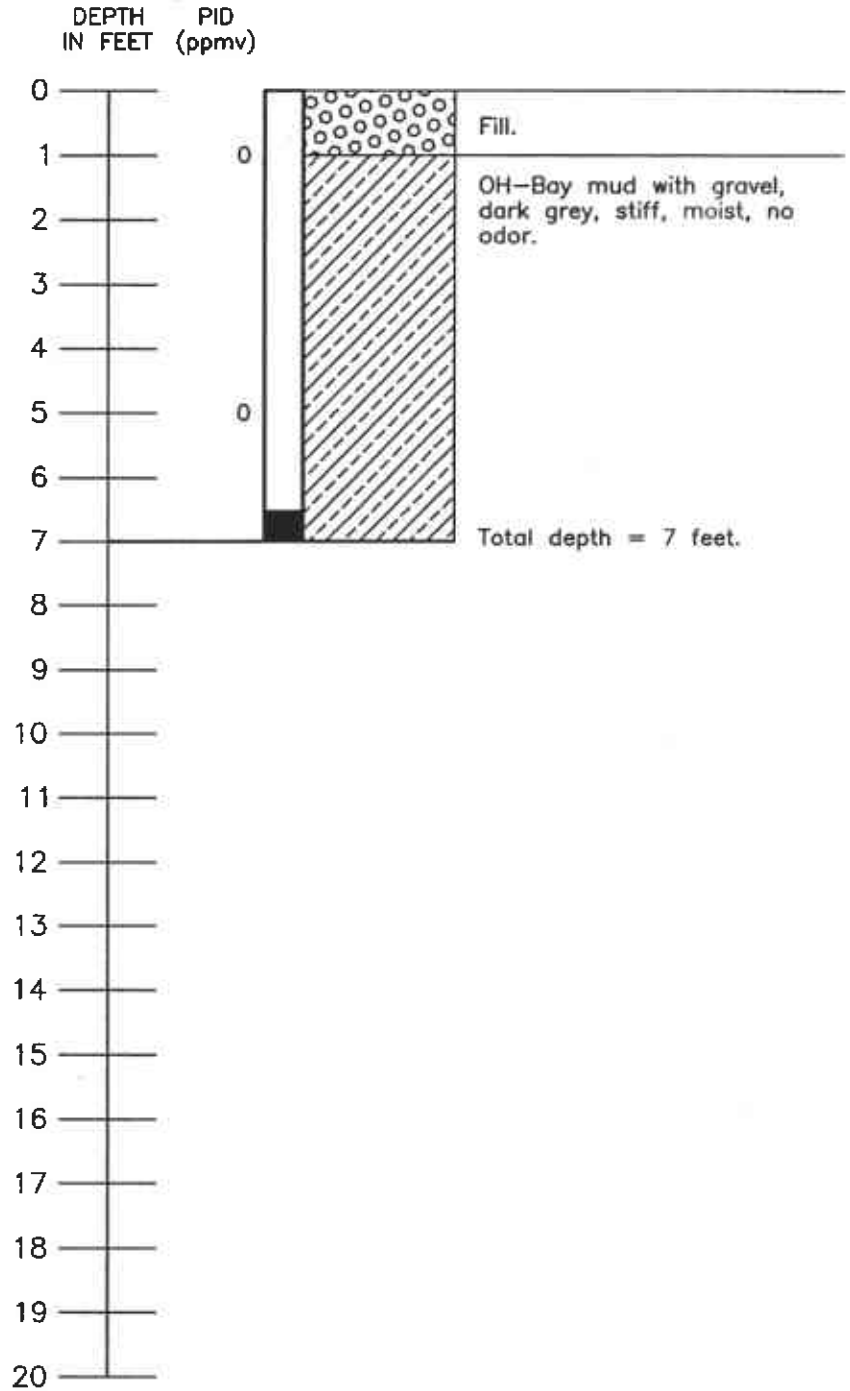
GP-22

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

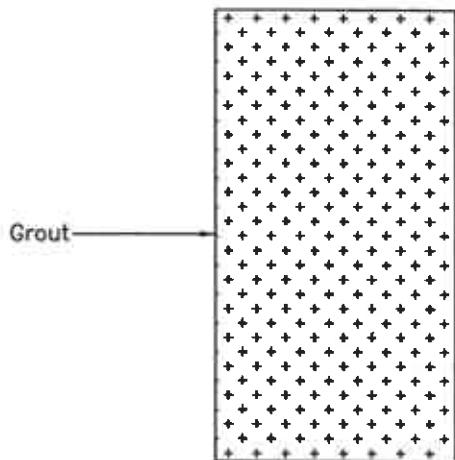
Boring/Well Log
Details GP-23

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

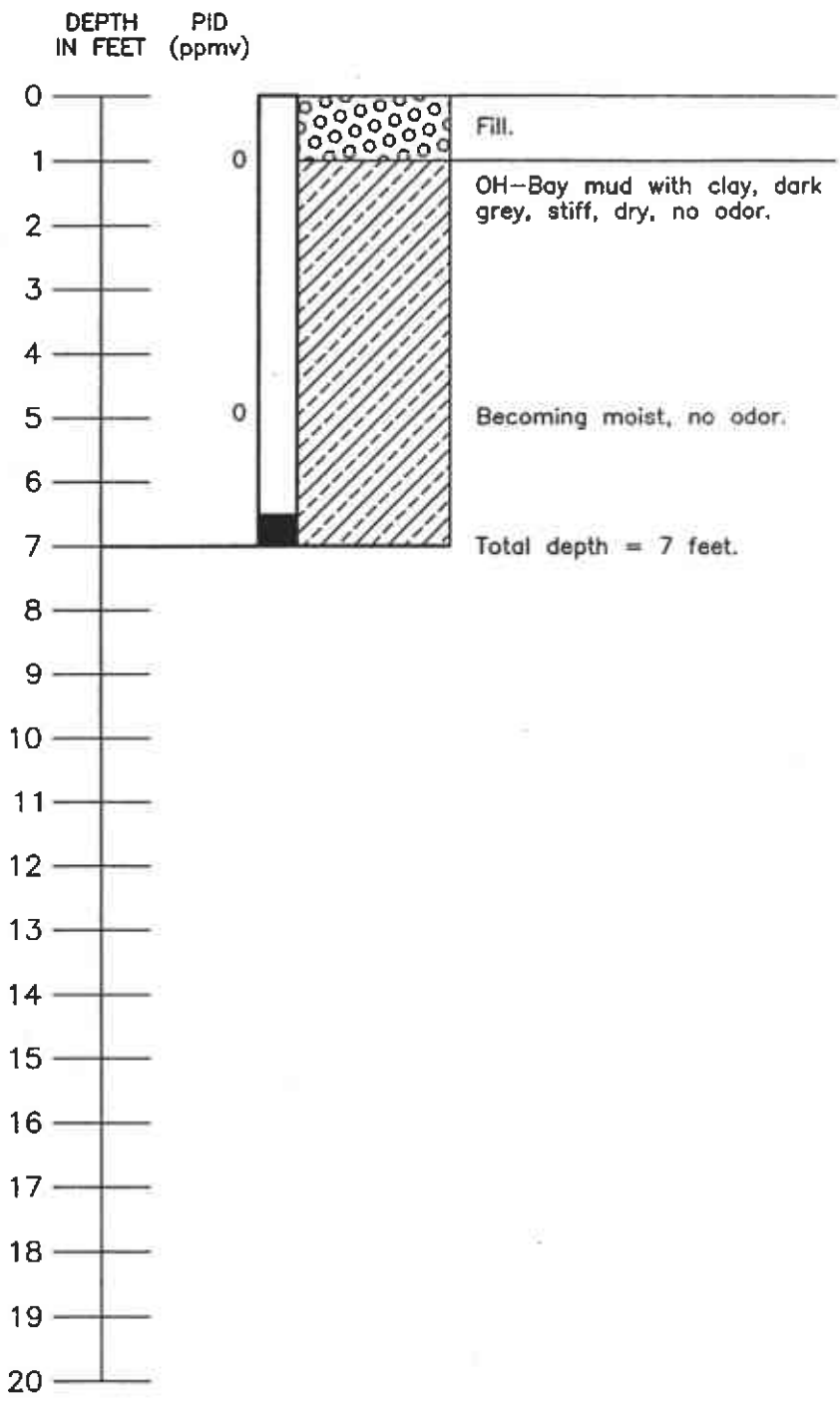
BORING/
WELL
GP-23

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

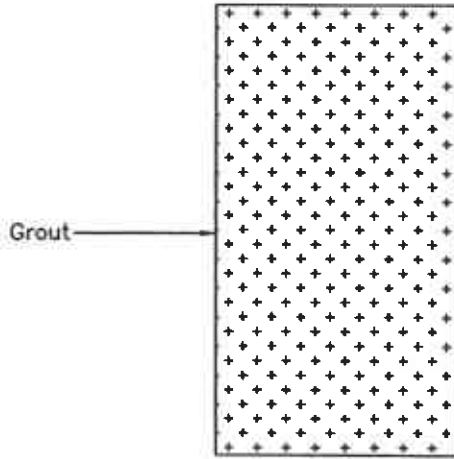
Boring/Well Log
Details GP-24

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

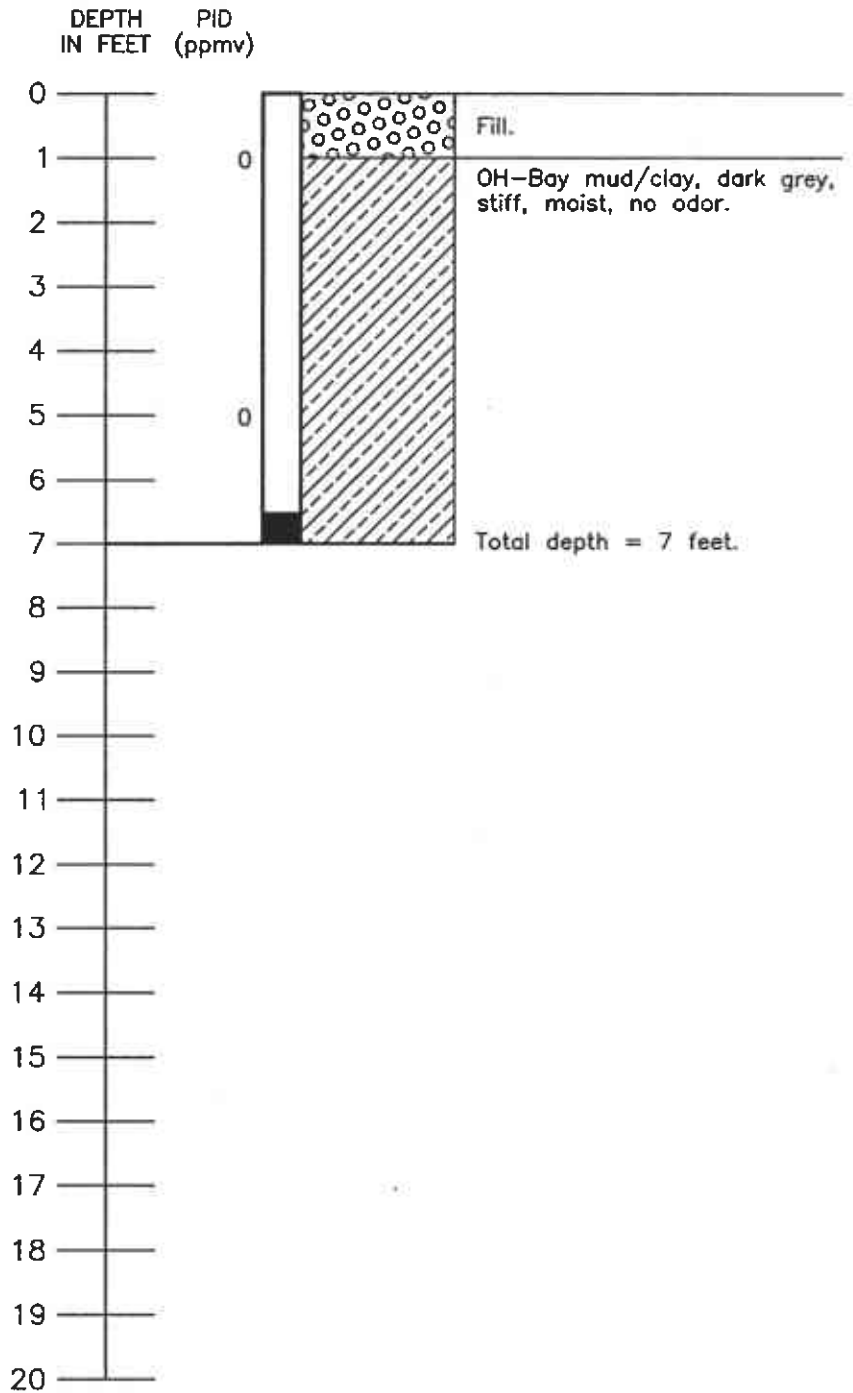
BORING/
WELL
GP-24

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability
est K (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

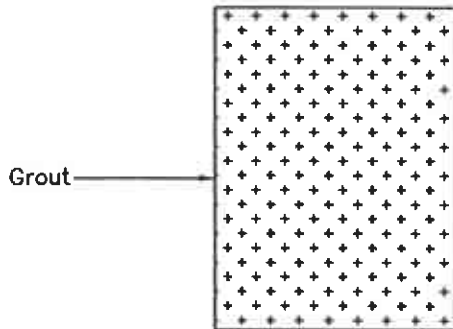
Boring/Well Log
Details GP-25

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

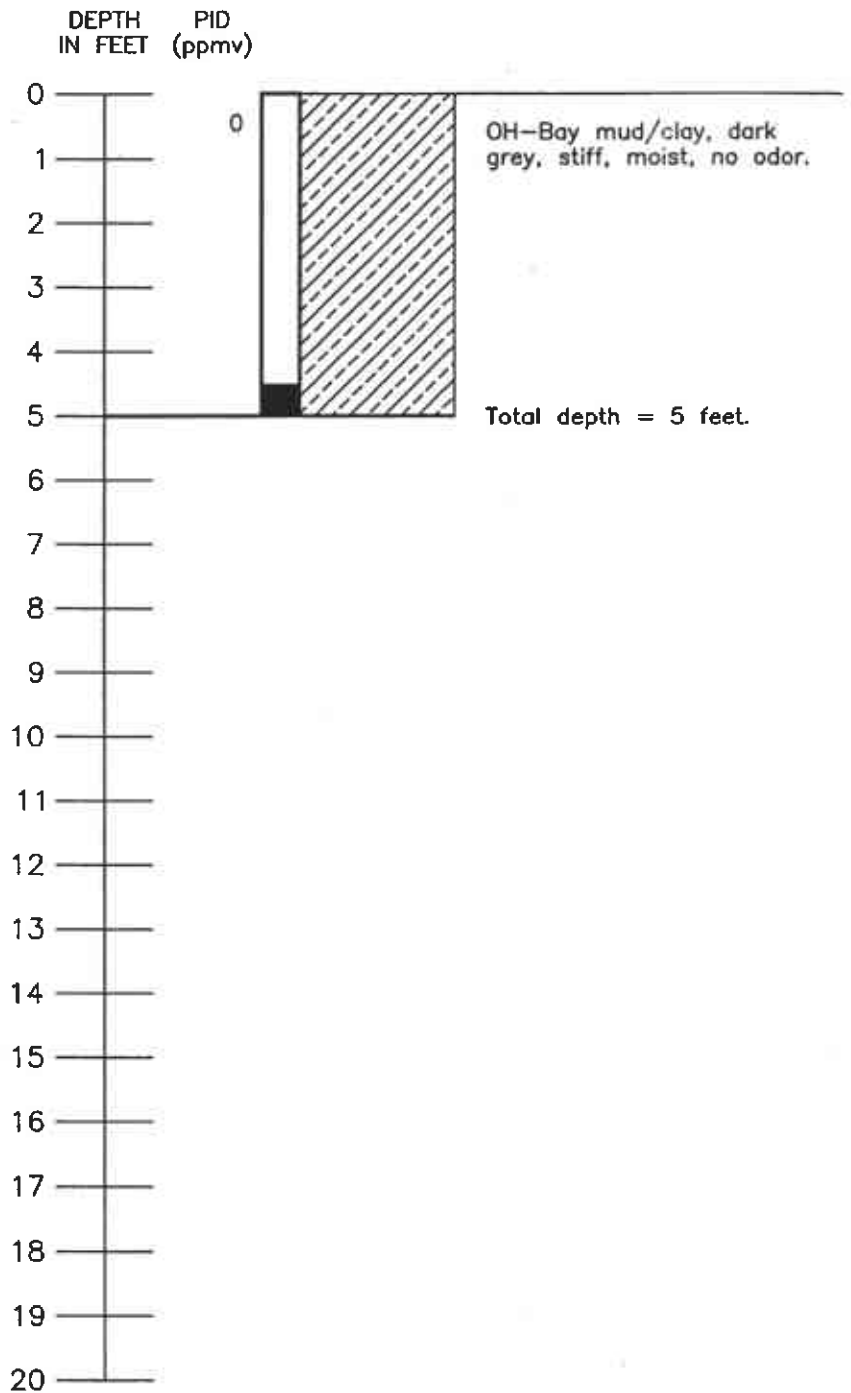
BORING/
WELL
GP-25

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-26

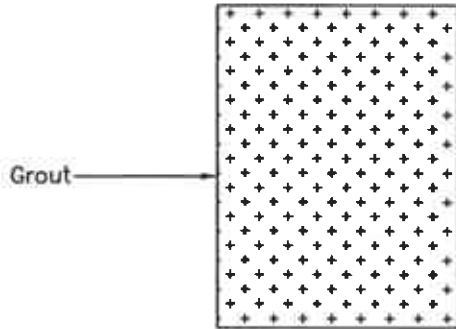
Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California

2/5/03

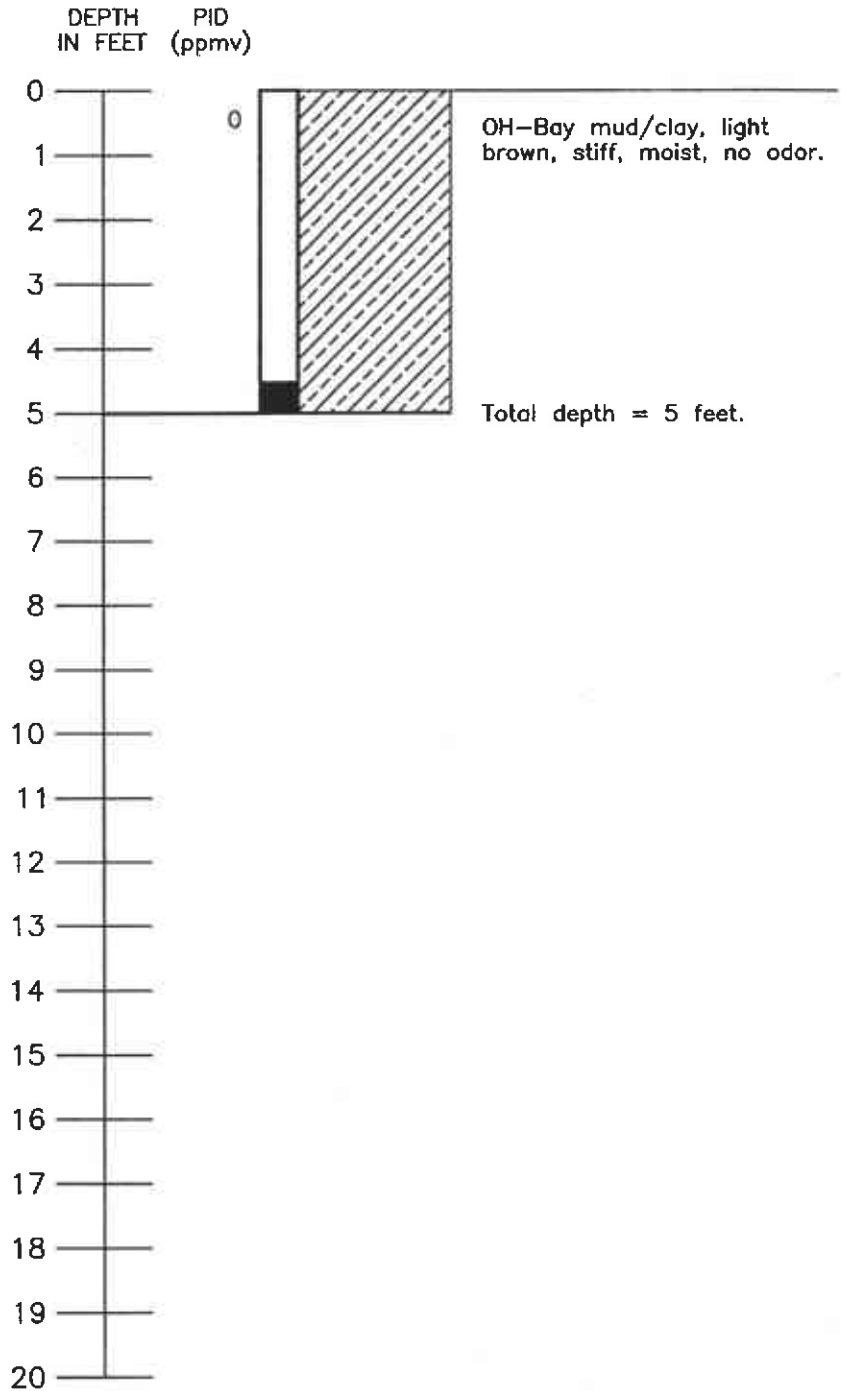
BORING/
WELL
GP-26

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-27

Job No.
SNK01.001

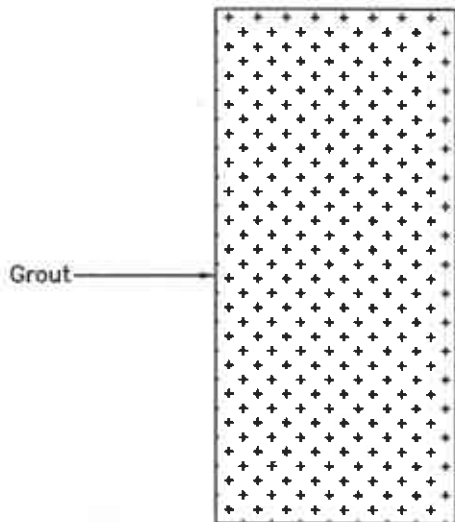
Andante Project
3992 San Pablo Avenue
Emeryville, California

2/5/03

BORING/
WELL

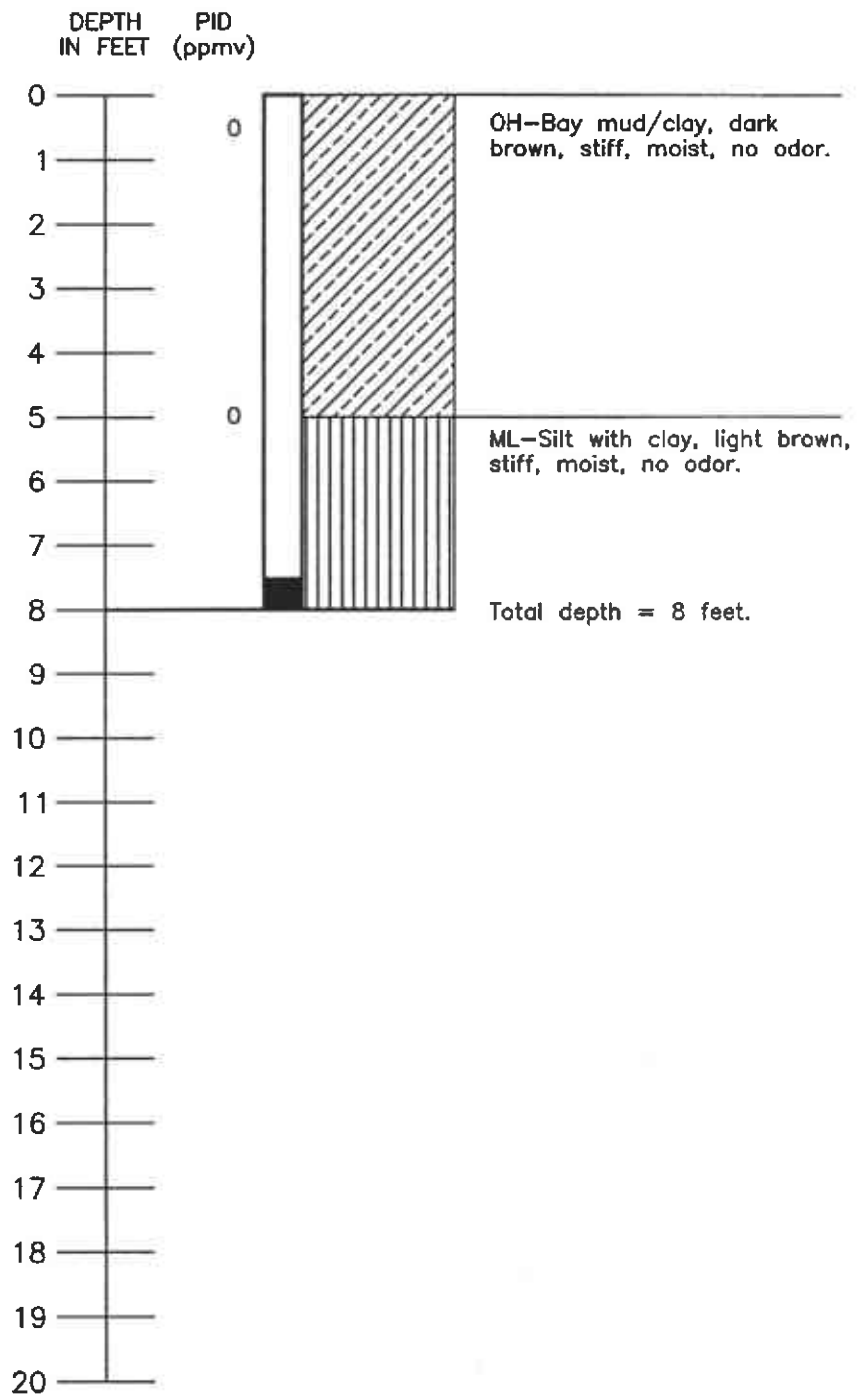
GP-27

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- ▼ Water level during drilling
- ▽ Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- est K Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- - - - Dashed where uncertain
- Hochured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-28

Job No.
SNK01.001

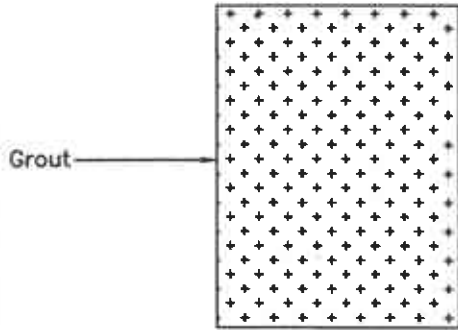
Andante Project
3992 San Pablo Avenue
Emeryville, California

BORING/
WELL

2/5/03

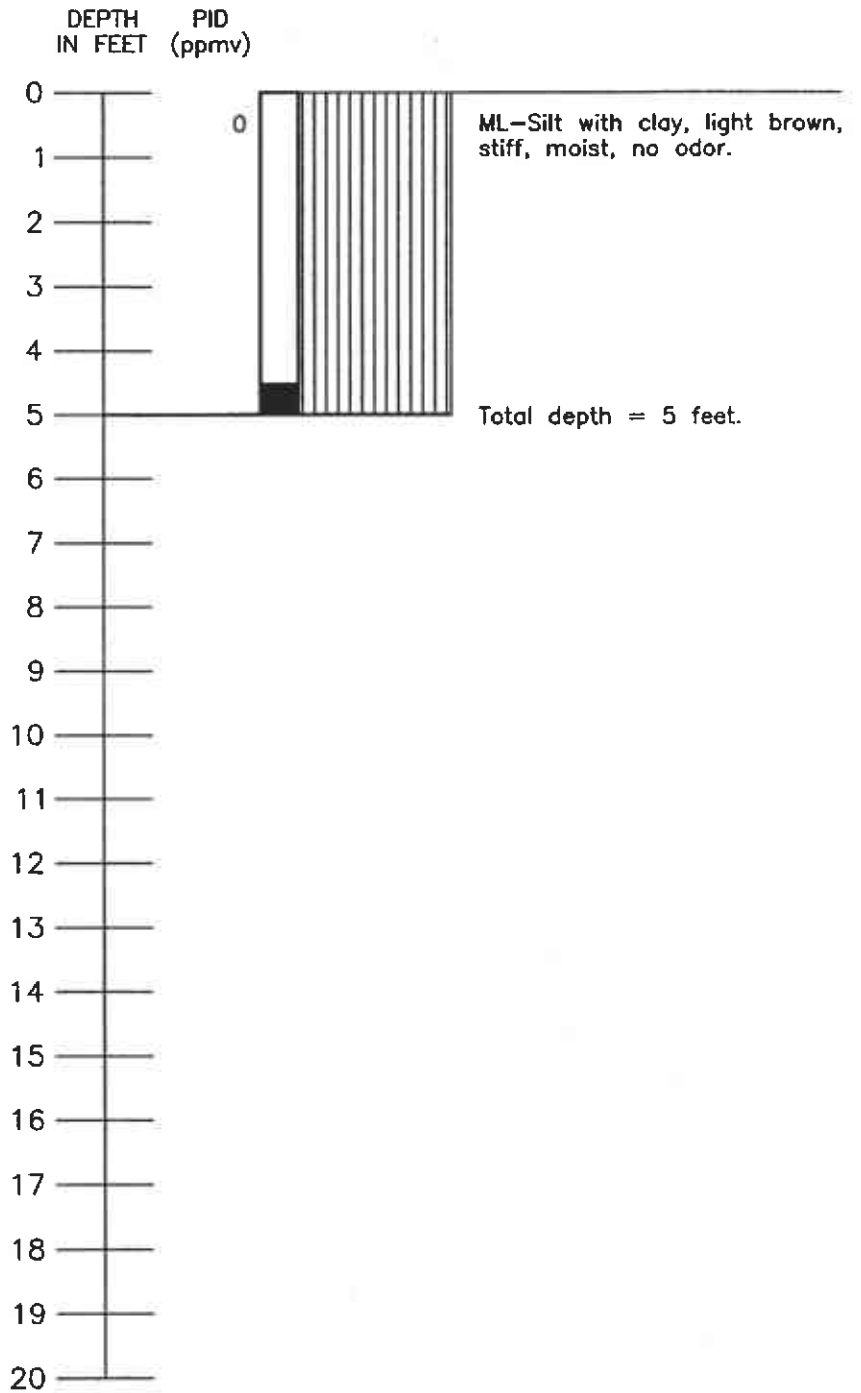
GP-28

BORING/WELL CONSTRUCTION DETAIL



GRAPHIC LOG

DESCRIPTION



EXPLANATION:

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Estimated permeability (hydraulic conductivity)
1K=primary, 2K=secondary
- NR No recovery

CONTACTS:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

APEX ENVIROTECH, INC.

Boring/Well Log
Details GP-29

Job No.
SNK01.001

Andante Project
3992 San Pablo Avenue
Emeryville, California
2/5/03

BORING/
WELL
GP-29

APPENDIX B

APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.

STANDARD OPERATING PROCEDURES

SOP-1

SOIL BORING SAMPLING

During drilling, soil samples for chemical analysis are collected in thin-walled brass tubes, of varying diameters and lengths (e.g., 4 or 6 inches long by 2 inches outside diameter). Three or four of the selected tubes, plus a spacer tube, are set in an 18-inch long split-barrel sampler of the appropriate inside-diameter.

Where possible, the split-barrel sampler is driven its entire length either hydraulically or using a 140-pound drop hammer. The sampler is extracted from the borehole and the brass tubes, containing the soil samples, are removed. Upon removal from the sampler, the selected brass tubes are either immediately trimmed and capped with aluminum foil or "Teflon" sheets and plastic caps or the samples are extruded from the tubes and sealed within other appropriate, cleaned sample containers. The samples are then hermetically sealed, labeled, and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. These procedures minimize the potential for cross-contamination and volatilization of volatile organic compounds (VOC) prior to chemical analysis.

One soil sample collected at each sampling interval is analyzed in the field using either a portable photoionization detector (PID), flame ionization detector, organic vapor analyzer, catalytic gas detector, or an explosimeter. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons, and the samples to be analyzed at the laboratory. The soil sample is sealed in either a brass tube, glass jar, or plastic bag to allow for some volatilization of VOC. The PID is then used to measure the concentrations of hydrocarbons within the containers's headspace. The data is recorded on both field notes and the boring logs at the depth corresponding to the sampling point.

Other soil samples are collected to document the soil and/or stratigraphic profile beneath the project site, and estimate the relative permeability of the subsurface materials. All drilling and sampling equipment are either steam cleaned or washed in solution and doubly rinsed in deionized water prior to use at each site and between boreholes to minimize the potential for cross-contamination.

In the event the soil samples cannot be submitted to the analytical laboratory on the same day they are collected (e.g., due to weekends or holidays), the samples are temporarily stored until the first opportunity for submittal either on ice in a cooler, such as when in the field, or in a refrigerator at Apex's office.

SOP-2

SOIL EXCAVATION AND SAMPLING

Excavation and subsequent soil sampling is performed under the direction of a registered geologist or civil engineer. To reduce the potential for cross-contamination, all excavation equipment is either steam cleaned or washed prior to use and between excavations. Soil samples for chemical analysis are collected in cleaned, thin-walled brass tubes of varying diameters and lengths (e.g., 6 inches long by 2 inches outside diameter) or other appropriate cleaned sample container. If used, one tube may be set in a 2-inch inside diameter, hand-driven sampler. To reduce the potential for cross-contamination between samples, the sampler is washed in a solution and doubly rinsed between each sampling event.

Upon recovery, a portion of the soil sample is sealed for later screening with either a portable photoionization detector, flame ionization detector, or an explosimeter. Another portion of the sample is used for description of the excavated materials. A third portion of the sample is hermetically sealed, labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. These procedures minimize the potential for cross-contamination and volatilization of

volatile organic compounds prior to chemical analysis.

In the event the soil samples cannot be submitted to the analytical laboratory on the same day they are collected (e.g., due to weekends or holidays), the samples are temporarily stored until the first opportunity for submittal either on ice in a cooler, such as when in the field, or in a refrigerator at Apex's office.

SOP-3

SOIL CLASSIFICATION

Soil samples are classified according to the Unified Soil Classification System. Representative portions of the samples may be submitted, under strict chain-of-custody, to an analytical laboratory for further examination and verification of the in-field classification and analysis of soil mechanical and/or petrophysical properties. The soil types are indicated on logs of either excavations or borings together with depths corresponding to the sampling points and other pertinent information.

SOP-4

SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on-site personnel, and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP-5

LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and periodic instrument maintenance;

4. "Out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports.

SOP-6

HOLLOW-STEM AUGER MONITORING WELL INSTALLATION AND DEVELOPMENT

Boreholes for monitoring wells are drilled using a truck-mounted, hollow-stem auger drill rig. The borehole diameter will be a minimum of 4 inches larger than the outside diameter of the casing when installing well screen. The hollow-stem auger provides minimal interruption of drilling while permitting soil sampling at desired intervals. Soil samples are collected by either hammering (with a 140-pound drop hammer) or hydraulically pushing a conventional split-barrel sampler containing pre-cleaned 2-inch-diameter brass tubes. A geologist or engineer from Apex Envirotech, Inc., continuously logs each borehole during drilling and constantly checks drill cuttings for indications of both the first recognizable occurrence of groundwater and volatile hydrocarbons using either a portable photoionization detector, flame ionization detector, or an explosimeter. The sampler is rinsed between samples and either steam cleaned or washed with all other drilling equipment between borings to minimize the potential for cross-contamination.

Monitoring wells are cased with threaded, factory-perforated and blank Schedule 40 PVC. The perforated interval consists of slotted casing, generally with 0.020-inch wide by 1.5-inch long slots, with 42 slots per foot. A PVC cap may be secured to the bottom of the casing with stainless steel screws; no solvents or cements are used. Centering devices may be fastened to the casing to ensure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and/or steam cleaned, or may be purchased as pre-cleaned, prior to installation.

After setting the casing inside the hollow-stem auger, sand or gravel filter material is poured into the annular space to fill from boring bottom to generally 1 foot above the perforated interval. A 1- to 2-foot thick bentonite plug is set above this filter material to prevent grout from infiltrating the filter pack. Either neat cement, containing about 5 percent bentonite, or sand-cement grout is then tremmed into the annular space from the top of the bentonite plug to near surface. A traffic-rated vault is installed around each wellhead for wells located in parking lots or driveways, while steel "stovepipes" are usually set over wellheads in landscaped areas.

After installation, the wells are thoroughly developed to remove residual drilling materials from the wellbore, and to improve well performance by removing fine material from the filter pack that may pass into the well. Well development techniques used may include pumping, surging, bailing, swabbing, jetting, flushing, and air-lifting. All development water is collected either in drums or tanks for temporary storage, and properly disposed of depending on laboratory analytical results. To minimize the potential for cross-contamination between wells, all development equipment is either steam cleaned or properly washed prior to use. Following development, the well is allowed to stand undisturbed for a minimum of 24 hours before its first sampling.

SOP-7

GROUNDWATER PURGING AND SAMPLING

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten wetted-casing volumes of groundwater have been recovered, or the well is bailed dry. When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC

bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

The groundwater sample is decanted into each VOA vial in such a manner that there is no meniscus at the top of the vial. A cap is quickly secured to the top of the vial. The vial is then inverted and gently tapped to see if air bubbles are present. If none are present, the vial is labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. Label information should include a unique sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

For quality control purposes, a duplicate water sample is collected from each well. This sample may also be analyzed or put on hold at the laboratory. When required, a trip blank, prepared at the laboratory, is placed in the transport cooler. It is labeled similar to the well samples, remains in the cooler during transport, and is analyzed by the laboratory along with the groundwater samples. In addition, a field blank may be prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been either steam cleaned or properly washed, prior to use in the next well, and is analyzed along with the other samples. The field blank analysis demonstrates the effectiveness of the in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all well development and water sampling equipment not dedicated to a well is either steam cleaned or properly washed between use. As a secondary precautionary measure, wells are sampled in order of least to highest concentrations as established by available previous analytical data.

In the event the water samples cannot be submitted to the analytical laboratory on the same day they are collected (e.g., due to weekends or holidays), the samples are temporarily stored until the first opportunity for submittal either on water ice in a cooler, such as when in the field, or in refrigerator at Apex's office.

SOP-8

ROTARY DRILLING MONITORING WELL INSTALLATION AND DEVELOPMENT

Boreholes for monitoring wells may be drilled using truck-mounted drill rigs capable of air- and mud-rotary drilling, and continuous coring and/or drilling with tri-cone roller or fixed-blade drag bits. Generally, rotary drilling is used when more conventional hollow-stem auger drilling either is or becomes infeasible. Various drilling fluids (mud or air), used to keep the borehole from caving and to remove drill cuttings, are chosen according to the nature of the soils and/or geologic formations expected to be encountered as well as the monitoring program. Samples may be collected directly from cores. A geologist or engineer from Apex Envirotech, Inc., continuously logs each boring during drilling and checks returned drill cuttings for indications of both the first recognizable occurrence of groundwater and volatile hydrocarbons, using either a portable photoionization detector (PID), flame ionization detector, or explosimeter. All drilling equipment is either steam cleaned or washed between borings to minimize the potential for cross-contamination.

Frequently, hollow-stem augers are used to drill and sample to either a minimum depth or auger refusal. In such cases, the augers may be left in place as temporary surface casing, with the center plug removed and drilling/coring carried out through the augers. Alternatively, a shallow conductor casing, or surface casing, may be set by drilling to a desired depth with a large-diameter bit, then setting the casing and proceeding with the drilling/coring. After total drill depth (TD) is reached, the borehole may be logged by geophysical means or hydraulically tested. If casing is not set to the

bottom of the borehole, the lower portion of the hole may be grouted or backfilled accordingly. The borehole may be drilled out (reamed) Upon reaching TD, drilling fluid is circulated to remove cuttings. Selected casing is then run into the borehole and set to the desired depth. Monitoring wells are cased with clean, threaded, factory-perforated and blank casing. The perforated interval consists of slotted casing, generally with 0.020-inch-wide by 1.5-inch-long slots, with 42 slots per foot. Centering devices may be fastened to the casing to ensure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and/or steam cleaned, or may be purchased as pre-cleaned, prior to installation. All recoverable drilling fluid and/or cuttings are collected for temporary storage and disposed of properly pending analytical results.

After setting the casing, sand or gravel filter material is poured into the annular space to fill from boring bottom to generally 1 foot above the perforated interval. A 1- to 2-foot-thick bentonite plug is set above this filter material to prevent grout from infiltrating the filter pack. Either neat cement, containing about 5 percent bentonite, or sand-cement grout is then tremmied into the annular space from the top of the bentonite plug to near surface. A traffic-rated vault is installed around each wellhead for wells located in parking lots or driveways, while steel "stovepipes" are usually set over wellheads in landscaped areas.

After installation, the wells are thoroughly developed to remove residual drilling materials from the wellbore, and to improve well performance by removing fine material from the filter pack that may pass into the well. Well development techniques used may include pumping, surging, bailing, swabbing, jetting, flushing, and air-lifting. All development water is collected either in drums or tanks for temporary storage, and properly disposed of pending laboratory analytical results. To minimize the potential for cross-contamination between wells, all development equipment is either steam cleaned or properly washed prior to use. Following development, the well is allowed to stand undisturbed for a minimum of 24 hours before its first sampling.

SOP-9

VAPOR SAMPLING: "TEDLAR" BAG SAMPLING TECHNIQUE

Prior to vapor sampling, the vacuum system must reach a stabilized air flow (cubic feet per minute) for approximately 15 minutes. Prior to the actual collection of the vapor sample, the following data is recorded: air flow, temperature, and pressure at collection ports and gauges.

The sampling equipment consists of a "Tedlar" bag (available in 1, 3, 5, and 10 liter sizes), a diaphragm pump, and 1/4-inch-diameter polyethylene tubing (approximately 1 foot long).

The sampling ports are brass connections, fitted with a silicone septa, and threaded into a tapped hole in the system piping. The sampling procedure requires one end of the tubing be slipped over the sampling port and the other end over the diaphragm pump to acquire an air-tight connection. The sampling pump is purged for 1 minute with the extracted vapor to be sampled. Following purging, the discharge of the pump is then diverted through a two-way valve into the "Tedlar" bag, which should be filled to 3/4 of volume capacity. Caution should be taken not to overfill the sampling bag. The sample is placed in a non-refrigerated dry cooler with sufficient packing to eliminate damage during transport. Cooling samples will cause condensation of moisture within the sample, thereby distorting laboratory analysis.

For quality control purposes, a duplicate vapor sample should be collected from each sampling port. This sample is then put on hold at the laboratory pending initial analysis. To ensure quality control and minimize the potential for cross-contamination prior to and during sampling, the diaphragm pump is thoroughly purged for approximately 5 minutes with nitrogen or clean air (i.e., compressed clean air). A "blank" sample of the discharged air is captured in a

as necessary with a large-diameter bit.

"Tedlar" bag at the end of the purging procedure and may be analyzed to ensure the purging was effective.

To minimize the potential for cross-contamination between air samples, the polyethylene tubing, if not sample dedicated, is thoroughly cleaned and rinsed.

Vapor samples are subject to very limited holding times, typically 48 hours. Thus, care must be taken to avoid delays in submittal of vapor samples to the laboratory. In the event the vapor samples cannot be submitted to the analytical laboratory on the same day they are collected, they are to be temporarily stored in the dry, non-refrigerated, packed cooler until the very first opportunity for submittal well within the required holding time, taking into account the time needed for shipment to and receipt by the laboratory.

SOP-10

VAPOR SAMPLING: SYRINGE SAMPLING TECHNIQUE

Prior to vapor sampling, the vacuum system must reach a stabilized air flow (cubic feet per minute) for approximately 15 minutes. Prior to the actual collection of the vapor sample, the following data is recorded: air flow, temperature, and pressure at collection ports and gauges.

The sampling equipment consists of a clean, 100cc, gas-tight syringe and silicone septa.

The sampling ports are brass connections, fitted with silicone septa, and threaded into a tapped hole in the system piping. Samples are collected by inserting a clean syringe into the septum and the plunger actuated several times. Each syringe should be purged of three syringe volumes before collecting the sample. On the fourth purge, the plunger is extracted slowly until the syringe is filled with a gas sample, then the syringe is withdrawn and the needle immediately plugged with a silicone stopper. The sample should be placed in a non-refrigerated, dry cooler with sufficient packing to eliminate breakage during transport. Cooling samples will cause condensation of moisture, thereby distorting laboratory analysis.

For quality control purposes, a duplicate air sample should be collected from each port. This sample is put on hold at the laboratory pending initial analysis.

Vapor samples are subject to very limited holding times, typically 48 hours. Thus, care must be taken to avoid delays in submittal of vapor samples to the laboratory. In the event the vapor samples cannot be submitted to the analytical laboratory on the same day they are collected, they are to be temporarily stored in the dry, non-refrigerated, packed cooler until the very first opportunity for submittal well within the required holding time, taking into account the time needed for shipment to and receipt by the laboratory.

SOP-11

VAPOR SAMPLING: CANISTER SAMPLING TECHNIQUE

Prior to vapor sampling, the vacuum system must reach a stabilized air flow (cubic feet per minute) for approximately 15 minutes. Prior to the actual collection of the vapor sample, the following data is recorded: air flow, temperature, and pressure at collection ports and gauges.

The sampling equipment consists of a sterilized, gas-tight, "Vacu-Sampler" stainless steel canister, and 1/4-inch-diameter polyethylene tubing approximately 2 feet in length.

The sampling ports are brass connections fitted with silicone septa and threaded into a tapped hole in the system piping. The sampling procedure requires one end of the tubing to be slipped over the sampling port and the other end over the canister nozzle to acquire an air-tight connection. The actuator on top of the canister is depressed for 10 seconds. At the end of the 10 seconds, the canister is disconnected from the tubing and the tubing is

disconnected from the sampling port. Immediately following the sample collection, complete sampling information is recorded on the label on the air sampling canister (e.g., sample ID, date, time, location, and temperature). The sample is placed in a non-refrigerated, dry cooler with sufficient packing to ensure against For quality control purposes, a duplicate vapor sample should be collected from each sampling port. This sample is then put on hold at the laboratory pending the initial analysis. To minimize the potential for cross-contamination between vapor samples, the polyethylene tubing, if not sample dedicated, is thoroughly cleaned and rinsed.

Vapor samples are subject to very limited holding times, typically 48 hours. Thus, care must be taken to avoid delays in submittal of vapor samples to the laboratory. In the event the vapor samples cannot be submitted to the analytical laboratory on the same day they are collected, they are to be temporarily stored in the dry, non-refrigerated, packed cooler until the very first opportunity for submittal well within the required holding time, taking into account the time needed for shipment to and receipt by the laboratory.

SOP-12 MEASURING LIQUID LEVELS USING WATER LEVEL METER OR INTERFACE PROBE

Field equipment used for liquid-level gauging typically includes the measuring instrument (water-level meter or interface probe) and product bailer(s). The field kit also includes cleaning supplies (buckets, solution, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurement, the instrument tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indication and the DTW measurement is made accordingly. The steady tone indicates floating liquid hydrocarbons (FLH). In this case, the probe is slowly raised until the steady tone ceases. This is the depth-to-product (DTP) indication and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When FLH are indicated by the probe's response, a product bailer is lowered partially through the FLH-water interface to confirm the FLH on the water surface and as further indication of the FLH thickness, particularly in cases where the FLH layer is quite thin. This measurement is recorded on the data sheet as "FLH thickness."

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

damage during transport. Cooling samples will cause condensation of any moisture within the air sample, thereby distorting laboratory analysis.

APPENDIX C

**ANALYTICAL LABORATORY DATA REPORT AND
CHAIN-OF-CUSTODY FORM**



Report Number : 31349

Date : 2/18/2003

Kasey Jones
Apex Envirotech Inc.
11244 Pyrites Way
Gold River, CA 95670-4481

Subject : 31 Soil Samples
Project Name : Andante Redevelopment Project
Project Number : SNK01.001

Dear Mr. Jones,

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

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

Sincerely,



Joel Kiff



Report Number : 31349

Date : 2/18/2003

Subject : 31 Soil Samples
Project Name : Andante Redevelopment Project
Project Number : SNK01.001

Case Narrative

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples GP-5@10', GP-7@5', GP-7@10', GP-8@10', GP-9@5', GP-10@6', GP-11@5', GP-13@8', GP-16@5', GP-18@10', GP-23@7', GP-24@7', GP-25@7', GP-5@5', GP-2@8', GP-3@5', GP-4@8' and GP-11@10'.

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-1@5'**

Matrix : Soil

Lab Number : 31349-01

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/9/2003
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	2/9/2003
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	2/9/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/8/2003
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	2/8/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-2@5'**

Matrix : Soil

Lab Number : 31349-02

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.0093	0.0050	mg/Kg	EPA 8260B	2/11/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	2/11/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	2/11/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/8/2003
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	2/8/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-2@8'**

Matrix : Soil

Lab Number : 31349-03

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	6.6	0.025	mg/Kg	EPA 8260B	2/11/2003
Toluene	30	0.25	mg/Kg	EPA 8260B	2/14/2003
Ethylbenzene	19	0.025	mg/Kg	EPA 8260B	2/11/2003
Total Xylenes	150	1.0	mg/Kg	EPA 8260B	2/14/2003
Methyl-t-butyl ether (MTBE)	< 0.025	0.025	mg/Kg	EPA 8260B	2/11/2003
TPH as Gasoline	1600	50	mg/Kg	EPA 8260B	2/14/2003
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	2/11/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	2/11/2003
TPH as Diesel	69	1.0	mg/Kg	M EPA 8015	2/8/2003
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	2/8/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-3@5'**

Matrix : Soil

Lab Number : 31349-04

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.0081	0.0050	mg/Kg	EPA 8260B	2/15/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/15/2003
Ethylbenzene	0.014	0.0050	mg/Kg	EPA 8260B	2/15/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/15/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/15/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/15/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	2/15/2003
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	2/15/2003
TPH as Diesel	1.6	1.0	mg/Kg	M EPA 8015	2/8/2003
1-Chlorooctadecane (Diesel Surrogate)	110		% Recovery	M EPA 8015	2/8/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-4@8'**

Matrix : Soil

Lab Number : 31349-05

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.6	0.25	mg/Kg	EPA 8260B	2/10/2003
Toluene	1.9	0.25	mg/Kg	EPA 8260B	2/10/2003
Ethylbenzene	7.7	0.25	mg/Kg	EPA 8260B	2/10/2003
Total Xylenes	35	0.25	mg/Kg	EPA 8260B	2/10/2003
Methyl-t-butyl ether (MTBE)	< 0.25	0.25	mg/Kg	EPA 8260B	2/10/2003
TPH as Gasoline	400	50	mg/Kg	EPA 8260B	2/10/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	2/10/2003
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	2/10/2003
TPH as Diesel	34	1.0	mg/Kg	M EPA 8015	2/11/2003
1-Chlorooctadecane (Diesel Surrogate)	111		% Recovery	M EPA 8015	2/11/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-5@5'**

Matrix : Soil

Lab Number : 31349-06

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.17	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	0.013	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	0.69	0.050	mg/Kg	EPA 8260B	2/13/2003
Total Xylenes	0.48	0.050	mg/Kg	EPA 8260B	2/13/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	42	5.0	mg/Kg	EPA 8260B	2/13/2003
Toluene - d8 (Surr)	95.2		% Recovery	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	115		% Recovery	EPA 8260B	2/7/2003
TPH as Diesel	130	1.0	mg/Kg	M EPA 8015	2/8/2003
1-Chlorooctadecane (Diesel Surrogate)	117		% Recovery	M EPA 8015	2/8/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-5@10'**

Matrix : Soil

Lab Number : 31349-07

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.31	0.0050	mg/Kg	EPA 8260B	2/12/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/12/2003
Ethylbenzene	0.53	0.0050	mg/Kg	EPA 8260B	2/12/2003
Total Xylenes	1.7	0.010	mg/Kg	EPA 8260B	2/12/2003
Methyl-t-butyl ether (MTBE)	0.0086	0.0050	mg/Kg	EPA 8260B	2/12/2003
TPH as Gasoline	31	1.0	mg/Kg	EPA 8260B	2/12/2003
Toluene - d8 (Surr)	96.8		% Recovery	EPA 8260B	2/12/2003
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	2/12/2003
TPH as Diesel	1.2	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**


Sample : **GP-6@5'**

Matrix : Soil

Lab Number : 31349-08

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8260B	2/7/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	105		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-6@11'**

Matrix : Soil

Lab Number : 31349-09

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	110		% Recovery	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	2/7/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/7/2003
1-Chlorooctadecane (Diesel Surrogate)	103		% Recovery	M EPA 8015	2/7/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-7@5'**

Matrix : Soil

Lab Number : 31349-10

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Toluene	0.0061	0.0050	mg/Kg	EPA 8260B	2/11/2003
Ethylbenzene	0.019	0.0050	mg/Kg	EPA 8260B	2/11/2003
Total Xylenes	0.0055	0.0050	mg/Kg	EPA 8260B	2/11/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
TPH as Gasoline	1.8	1.0	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	2/11/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	2/11/2003
TPH as Diesel	13	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	108		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-7@10'**

Matrix : Soil

Lab Number : 31349-11

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.12	0.0050	mg/Kg	EPA 8260B	2/10/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/10/2003
Ethylbenzene	1.2	0.0050	mg/Kg	EPA 8260B	2/10/2003
Total Xylenes	0.23	0.010	mg/Kg	EPA 8260B	2/10/2003
Methyl-t-butyl ether (MTBE)	0.0069	0.0050	mg/Kg	EPA 8260B	2/10/2003
TPH as Gasoline	25	1.0	mg/Kg	EPA 8260B	2/10/2003
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	2/10/2003
4-Bromofluorobenzene (Surr)	118		% Recovery	EPA 8260B	2/10/2003
TPH as Diesel	11	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	101		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-8@10'**

Matrix : Soil

Lab Number : 31349-12

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/9/2003
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	2/9/2003
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	2/9/2003
TPH as Diesel	3.4	1.0	mg/Kg	M EPA 8015	2/11/2003
1-Chlorooctadecane (Diesel Surrogate)	103		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-9@5'**

Matrix : Soil

Lab Number : 31349-13

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	19	2.5	mg/Kg	EPA 8260B	2/11/2003
Toluene	270	2.5	mg/Kg	EPA 8260B	2/11/2003
Ethylbenzene	230	2.5	mg/Kg	EPA 8260B	2/11/2003
Total Xylenes	1300	2.5	mg/Kg	EPA 8260B	2/11/2003
Methyl-t-butyl ether (MTBE)	0.061	0.050	mg/Kg	EPA 8260B	2/10/2003
TPH as Gasoline	12000	200	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	2/10/2003
4-Bromofluorobenzene (Surr)	114		% Recovery	EPA 8260B	2/10/2003
TPH as Diesel	1100	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	114		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-10@6'**

Matrix : Soil

Lab Number : 31349-14

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3.0	0.050	mg/Kg	EPA 8260B	2/9/2003
Toluene	8.8	0.050	mg/Kg	EPA 8260B	2/9/2003
Ethylbenzene	9.3	0.050	mg/Kg	EPA 8260B	2/9/2003
Total Xylenes	46	0.050	mg/Kg	EPA 8260B	2/9/2003
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	mg/Kg	EPA 8260B	2/9/2003
TPH as Gasoline	870	10	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	2/9/2003
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	2/9/2003
TPH as Diesel	420	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	104		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-11@5'**

Matrix : Soil

Lab Number : 31349-15

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3.3	0.25	mg/Kg	EPA 8260B	2/10/2003
Toluene	61	0.25	mg/Kg	EPA 8260B	2/10/2003
Ethylbenzene	92	0.25	mg/Kg	EPA 8260B	2/10/2003
Total Xylenes	590	2.5	mg/Kg	EPA 8260B	2/11/2003
Methyl-t-butyl ether (MTBE)	< 0.25	0.25	mg/Kg	EPA 8260B	2/10/2003
TPH as Gasoline	4900	100	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	2/10/2003
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	2/10/2003
TPH as Diesel	6.2	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	110		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

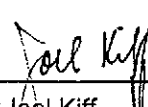
Sample : **GP-11@10'**

Matrix : Soil

Lab Number : 31349-16

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.34	0.025	mg/Kg	EPA 8260B	2/15/2003
Toluene	0.50	0.025	mg/Kg	EPA 8260B	2/15/2003
Ethylbenzene	0.61	0.025	mg/Kg	EPA 8260B	2/15/2003
Total Xylenes	2.5	0.025	mg/Kg	EPA 8260B	2/15/2003
Methyl-t-butyl ether (MTBE)	< 0.025	0.025	mg/Kg	EPA 8260B	2/15/2003
TPH as Gasoline	26	5.0	mg/Kg	EPA 8260B	2/15/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	2/15/2003
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	2/15/2003
TPH as Diesel	630	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	111		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-12@8'**

Matrix : Soil

Lab Number : 31349-17

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	2/11/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	2/11/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	109		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-13@8'**

Matrix : Soil

Lab Number : 31349-18

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.66	0.0050	mg/Kg	EPA 8260B	2/12/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/12/2003
Ethylbenzene	1.6	0.0050	mg/Kg	EPA 8260B	2/12/2003
Total Xylenes	3.2	0.050	mg/Kg	EPA 8260B	2/11/2003
Methyl-t-butyl ether (MTBE)	0.0075	0.0050	mg/Kg	EPA 8260B	2/12/2003
TPH as Gasoline	40	5.0	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	95.7		% Recovery	EPA 8260B	2/12/2003
4-Bromofluorobenzene (Surr)	108		% Recovery	EPA 8260B	2/12/2003
TPH as Diesel	1.5	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-16@5'**

Matrix : Soil

Lab Number : 31349-19

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
TPH as Gasoline	1.3	1.0	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	2/11/2003
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	2/11/2003
TPH as Diesel	1.4	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	100		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-17@5'**

Matrix : Soil

Lab Number : 31349-20

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	97.5		% Recovery	EPA 8260B	2/7/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-18@5'**

Matrix : Soil

Lab Number : 31349-21

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	96.8		% Recovery	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	2/7/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	122		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-18@10'**

Matrix : Soil

Lab Number : 31349-22

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/8/2003
Toluene - d8 (Surr)	95.9		% Recovery	EPA 8260B	2/8/2003
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	2/8/2003
TPH as Diesel	15	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	107		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-21@7'**

Matrix : Soil

Lab Number : 31349-23

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	2/7/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	113		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-22@7'**

Matrix : Soil

Lab Number : 31349-24

Sample Date : 2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
Total Xylenes	< 0.010	0.010	mg/Kg	EPA 8260B	2/11/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/11/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/11/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	2/11/2003
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	2/11/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	113		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-23@7**

Matrix : Soil

Lab Number : 31349-25

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/9/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/9/2003
Toluene - d8 (Surr)	96.3		% Recovery	EPA 8260B	2/9/2003
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	2/9/2003
TPH as Diesel	41	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	109		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-24@7'**

Matrix : Soil

Lab Number : 31349-26

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	94.1		% Recovery	EPA 8260B	2/7/2003
TPH as Diesel	140	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	111		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : GP-25@7'

Matrix : Soil

Lab Number : 31349-27

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/8/2003
Toluene - d8 (Surr)	95.4		% Recovery	EPA 8260B	2/8/2003
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	2/8/2003
TPH as Diesel	54	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	119		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-26@5'**

Matrix : Soil

Lab Number : 31349-28

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/8/2003
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	2/8/2003
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	2/8/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	118		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : **GP-27@5'**

Matrix : Soil

Lab Number : 31349-29

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/8/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/8/2003
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	2/8/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	2/8/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	112		% Recovery	M EPA 8015	2/9/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : GP-28@8'

Matrix : Soil

Lab Number : 31349-30

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/10/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/10/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/10/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/10/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/10/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/10/2003
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	2/10/2003
4-Bromofluorobenzene (Surr)	95.9		% Recovery	EPA 8260B	2/10/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/10/2003
1-Chlorooctadecane (Diesel Surrogate)	114		% Recovery	M EPA 8015	2/10/2003

Approved By:  Joel Kiff



Report Number : 31349

Date : 2/18/2003

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Sample : GP-29@5'

Matrix : Soil

Lab Number : 31349-31

Sample Date :2/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	2/7/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/10/2003
1-Chlorooctadecane (Diesel Surrogate)	112		% Recovery	M EPA 8015	2/10/2003

Approved By:  Joel Kiff

Report Number : 31349

Date : 2/18/2003

QC Report : Method Blank Data

Project Name : **Andante Redevelopment Project**

Project Number : **SNK01.001**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/7/2003
1-Chlorooctadecane (Diesel Surrogate)	93.0		%	M EPA 8015	2/7/2003
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	2/9/2003
1-Chlorooctadecane (Diesel Surrogate)	110		%	M EPA 8015	2/9/2003
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	101		%	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	110		%	EPA 8260B	2/7/2003
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	2/7/2003
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	2/7/2003
Toluene - d8 (Surr)	98.6		%	EPA 8260B	2/7/2003
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	2/7/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
-----------	----------------	------------------------	-------	-----------------	---------------

Approved By:  _____
 Joel Kiff

Report Number : 31349

Date : 2/18/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Andante Redevelopment**

Project Number : **SNK01.001**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	31349-24	<1.0	20.0	20.0	18.3	18.8	mg/Kg	M EPA 8015	2/9/03	91.3	93.9	2.78	60-140	25
TPH as Diesel	31349-09	<1.0	20.0	20.0	18.3	20.9	mg/Kg	M EPA 8015	2/7/03	91.5	104	13.2	60-140	25
Benzene	31324-01	<0.0050	0.0398	0.0394	0.0372	0.0374	mg/Kg	EPA 8260B	2/7/03	93.4	94.7	1.46	70-130	25
Toluene	31324-01	<0.0050	0.0398	0.0394	0.0357	0.0360	mg/Kg	EPA 8260B	2/7/03	89.7	91.3	1.71	70-130	25
Tert-Butanol	31324-01	<0.0050	0.199	0.197	0.188	0.183	mg/Kg	EPA 8260B	2/7/03	94.4	92.9	1.55	70-130	25
Methyl-t-Butyl Ether	31324-01	<0.0050	0.0398	0.0394	0.0402	0.0396	mg/Kg	EPA 8260B	2/7/03	101	100	0.522	70-130	25
Benzene	31349-26	<0.0050	0.0654	0.0658	0.0594	0.0620	mg/Kg	EPA 8260B	2/8/03	90.8	94.3	3.73	70-130	25
Toluene	31349-26	<0.0050	0.0654	0.0658	0.0541	0.0555	mg/Kg	EPA 8260B	2/8/03	82.8	84.4	1.91	70-130	25
Tert-Butanol	31349-26	<0.0050	0.327	0.329	0.293	0.303	mg/Kg	EPA 8260B	2/8/03	89.7	92.2	2.83	70-130	25
Methyl-t-Butyl Ether	31349-26	<0.0050	0.0654	0.0658	0.0665	0.0678	mg/Kg	EPA 8260B	2/8/03	102	103	1.32	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31349

Date : 2/18/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **Andante Redevelopment**

Project Number : **SNK01.001**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH as Diesel	20.0	mg/Kg	M EPA 8015	2/9/03	92.7	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	2/7/03	86.3	70-130
Benzene	0.0398	mg/Kg	EPA 8260B	2/7/03	96.0	70-130
Toluene	0.0398	mg/Kg	EPA 8260B	2/7/03	96.8	70-130
Tert-Butanol	0.199	mg/Kg	EPA 8260B	2/7/03	92.4	70-130
Methyl-t-Butyl Ether	0.0398	mg/Kg	EPA 8260B	2/7/03	100	70-130
Benzene	0.0400	mg/Kg	EPA 8260B	2/7/03	92.8	70-130
Toluene	0.0400	mg/Kg	EPA 8260B	2/7/03	84.6	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	2/7/03	91.1	70-130
Methyl-t-Butyl Ether	0.0400	mg/Kg	EPA 8260B	2/7/03	99.3	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



February 13, 2003

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 03-02-0406**
Client Reference: **Andante Redevelopment Project**


Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/8/2003 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,



Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Michael J. Crisostomo
Quality Assurance Manager



ANALYTICAL REPORT

Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

Date Received: 02/08/03
 Work Order No: 03-02-0406
 Preparation: Total Digestion
 Method: EPA 8010B

Project: Andante Redevelopment Project

Page 1 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-205	03-02-0406-1	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	6.35	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-205	03-02-0406-2	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	8.83	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-205	03-02-0406-3	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	4.16	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-205	03-02-0406-4	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	6.70	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-205	03-02-0406-5	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	4.58	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-205	03-02-0406-6	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	8.07	0.50	1		mg/kg

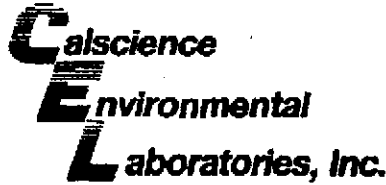
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-205	03-02-0406-7	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	3.80	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-205	03-02-0406-8	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	10.3	0.5	1		mg/kg

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers



ANALYTICAL REPORT

Kiff Analytical	Date Received:	02/08/03
2795 2nd Street, Suite 300	Work Order No:	03-02-0406
Davis, CA 95616-6693	Preparation:	Total Digestion
	Method:	EPA 6010B

Project: Andante Redevelopment Project

Page 2 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1011	03-02-0406-9	02/05/03	Solid	02/10/03	02/11/03	030210102

Parameter	Result	RL	DF	Qual	Units
Lead	6.03	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1015	03-02-0406-10	02/05/03	Solid	02/10/03	02/11/03	030210102

Parameter	Result	RL	DF	Qual	Units
Lead	10.3	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-7010	03-02-0406-11	02/05/03	Solid	02/10/03	02/11/03	030210102

Parameter	Result	RL	DF	Qual	Units
Lead	5.42	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-8010	03-02-0406-12	02/05/03	Solid	02/10/03	02/11/03	030210102

Parameter	Result	RL	DF	Qual	Units
Lead	3.01	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-8015	03-02-0406-13	02/05/03	Solid	02/10/03	02/11/03	030210102

Parameter	Result	RL	DF	Qual	Units
Lead	16.7	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1006	03-02-0406-14	02/05/03	Solid	02/10/03	02/11/03	030210102

Parameter	Result	RL	DF	Qual	Units
Lead	8.41	0.50	1		mg/kg

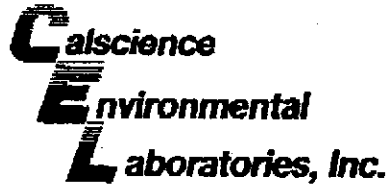
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1105	03-02-0406-15	02/05/03	Solid	02/10/03	02/11/03	030210102

Parameter	Result	RL	DF	Qual	Units
Lead	7.92	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-11010	03-02-0406-16	02/05/03	Solid	02/10/03	02/11/03	030210102

Parameter	Result	RL	DF	Qual	Units
Lead	6.84	0.50	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/08/03
Work Order No: 03-02-0406
Preparation: Total Digestion
Method: EPA 6010B

Project: Andante Redevelopment Project

Page 3 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1208	03-02-0406-17	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	6.05	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1308	03-02-0406-18	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	2.89	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1408	03-02-0406-19	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	5.57	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1708	03-02-0406-20	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	5.06	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-1808	03-02-0406-21	02/05/03	Solid	02/10/03	02/11/03	030210L02

Parameter	Result	RL	DF	Qual	Units
Lead	6.52	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-16010	03-02-0406-22	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	2.17	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2108	03-02-0406-23	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	6.10	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2807	03-02-0406-24	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	4.46	0.50	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/08/03
Work Order No: 03-02-0406
Preparation: Total Digestion
Method: EPA 8010B

Project: Andante Redevelopment Project

Page 4 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2307	03-02-0406-26	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	4.58	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2407	03-02-0406-26	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	4.28	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2507	03-02-0406-27	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	4.58	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2605	03-02-0406-28	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	5.31	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2705	03-02-0406-29	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	4.14	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2805	03-02-0406-30	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	3.73	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GP-2905	03-02-0406-31	02/05/03	Solid	02/10/03	02/11/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	5.05	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	007-01-002-4,041	N/A	Solid	02/10/03	02/10/03	030210L03

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



ANALYTICAL REPORT

Kiff Analytical	Date Received:	02/08/03
2795 2nd Street, Suite 300	Work Order No:	03-02-0406
Davis, CA 95616-6593	Preparation:	Total Digestion
	Method:	EPA 6010B

Project: Andante Redevelopment Project

Page 5 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-002-4047	N/A	Solid	02/10/03	02/11/03	030240L02

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501



Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/08/03
Work Order No: 03-02-0406
Preparation: Total Digestion
Method: EPA 6010B

Project: Andante Redevelopment Project

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GP-200	Soil	ICP 3500	02/10/03	02/11/03	030210002

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	97	94	75-125	2	0-20	



Quality Control - Laboratory Control Sample

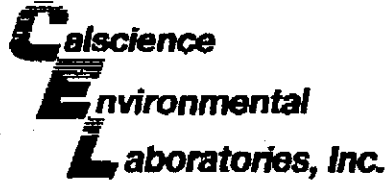
Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

Date Received: 02/08/03
 Work Order No: 03-02-0406
 Preparation: Total Digestion
 Method: EPA 6010B

Project: Andante Redevelopment Project

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
057-01-002-4,047	Solid	JCP-3300	02/11/03	030210-J-02	030210L02

Parameter	Conc. Added	Conc. Recovered	%Rec	%Rec CL	Qualifier
Lead	50.0	45.6	91	80-120	



Quality Control - Spike/Spike Duplicate

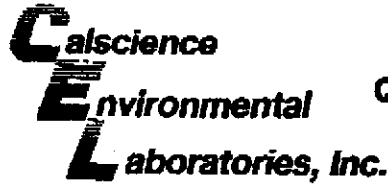
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/08/03
Work Order No: 03-02-0406
Preparation: Total Digestion
Method: EPA 6010B

Project: Andante Redevelopment Project

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GP-2003	Solid	ICP 3500	02/08/03	02/08/03	030210503

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	99	99	75-125	0	0-20	



Quality Control - Laboratory Control Sample

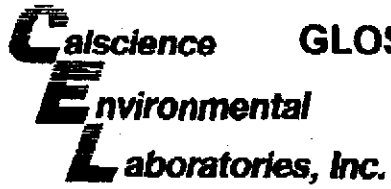
Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

Date Received: 02/08/03
 Work Order No: 03-02-0406
 Preparation: Total Digestion
 Method: EPA 6010B

Project: Andante Redevelopment Project

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
037-01-002-4-041	Solid	ICP 3300	02/10/03	030210-1-03	030210L03

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifier
Lead	60.0	46.4	93	80-120	



GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-02-0406

<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.



WORK ORDER #: 03-02-0406

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff

DATE: 2/8/03

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature.
°C Temperature blank.

LABORATORY (Other than Calscience Courier):

- 4 °C Temperature blank.
°C IR thermometer.
Ambient temperature.

Initial: [Signature]

CUSTODY SEAL INTACT:

Sample(s): Cooler: [checked] No (Not intact): Not Applicable (N/A):

Initial: [Signature]

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sample container label(s), Sample container(s) intact, Correct containers for analyses, Proper preservation noted, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: [Signature]

COMMENTS:

Blank lines for handwritten comments.



2795 Second Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Cal Science Environmental
 7440 Lincoln Way
 Garden Grove, CA 92841
 714-895-5494

Lab No. **0406**

Project Contact (Hardcopy or PDF to): **Joel Kiff** EDF Report? Yes No Chain-of-Custody Record and Analysis Request

Company/Address: **Kiff Analytical, LLC** Recommended but not mandatory to complete this section: Analysis Request Date Due: **February 13, 2003**

Phone No.: FAX No.: Global ID: For Lab Use Only

Project Number: **SNK01.001** P.O. No.: **31349** EDF Deliverable to (Email Address): February 13, 2003

Project Name: **Andante Redevelopment Project** E-mail address: **inbox@kiffanalytical.com**

Project Address: Sampling Container Preservative Matrix Total Lead

Sample Designation	Sampling		Container				Preservative				Matrix		Total Lead							
	Date	Time	Glass Jar	Poly	Amber	Sleeve	HCl	HNO3	ICE	NONE	WATER	SOIL								
GP-1@5'	2/5/2003	12:00	1					X				X	X	X					X	
GP-2@5'	2/5/2003	12:00	1					X				X	X	X					X	
GP-2@8'	2/5/2003	12:00	1					X				X	X	X					X	
GP-3@5'	2/5/2003	12:00	1					X				X	X	X					X	
GP-4@8'	2/5/2003	12:00	1					X				X	X	X					X	
GP-5@5'	2/5/2003	12:00	1					X				X	X	X					X	
GP-5@10'	2/5/2003	12:00	1					X				X	X	X					X	
GP-6@5'	2/5/2003	12:00	1					X				X	X	X					X	
GP-6@11'	2/5/2003	12:00	1					X				X	X	X					X	
GP-7@5'	2/5/2003	12:00	1					X				X	X	X					X	

Relinquished by: KIFF ANALYTICAL	Date: 2/5/03	Time: 1400	Received by:	Remarks:
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date: 2/5/03	Time: 1030	Received by Laboratory: [Signature]	Bill to:

FEB-13-2003 11:29 CAL SCIENCE ENVIRONMENTAL 714 894 7501 P.13/16



2785 Second Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Cal Science Environmental
 7440 Lincoln Way
 Garden Grove, CA 92841
 714-895-5494

Lab No. **0406**

Page 2 of 4

Project Contact (Hardcopy or PDF to): **Joel Kiff** EDF Report? Yes No Chain-of-Custody Record and Analysis Request

Company/Address: **Kiff Analytical, LLC** Recommended but not mandatory to complete this section:
 Sampling Company Log Code:

Phone No.: FAX No.: Global ID:

Project Number: **SNK01.001** P.O. No.: **31349** EDF Deliverable to (Email Address):

Project Name: **Andante Redevelopment Project** E-mail address: **inbox@kiffanalytical.com**

Project Address: Sampling Container Preservative Matrix

Sample Designation	Date	Time	Container				Preservative				Matrix		Total Lead	Date Due:	For Lab Use Only	
			Glass Jar	Poly	Amber	Sleeve	HCl	HNO3	ICE	NONE	WATER	SOIL				
GP-7@10'	2/5/2003	12:00	1							X			X	X		
GP-8@10'	2/5/2003	12:00	1							X			X	X		
GP-9@5'	2/5/2003	12:00	1							X			X	X		
GP-10@6'	2/5/2003	12:00	1							X			X	X		
GP-11@5'	2/5/2003	12:00	1							X			X	X		
GP-11@10'	2/5/2003	12:00	1							X			X	X		
GP-12@8'	2/5/2003	12:00	1							X			X	X		
GP-13@8'	2/5/2003	12:00	1							X			X	X		
GP-16@5'	2/5/2003	12:00	1							X			X	X		
GP-17@5'	2/5/2003	12:00	1							X			X	X		

Relinquished by: Kina A. Feinberg / KIFF ANALYTICAL	Date: 02/07/03	Time: 1400	Received by:	Remarks:
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date: 2/10/03	Time: 1030	Received by Laboratory: GA Perret	Bill to:



2795 Second Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Cal Science Environmental
 7440 Lincoln Way
 Garden Grove, CA 92841
 714-895-5494

Lab No.

0406

Page 3 of 4

Project Contact (Hardcopy or PDF to): **Joel Kiff** EDF Report? Yes No Chain-of-Custody Record and Analysis Request

Company/Address: **Kiff Analytical, LLC** Recommended but not mandatory to complete this section:
 Phone No.: FAX No.: Sampling Company Log Code:
 Project Number: **SNK01.001** P.O. No.: **31349** Global ID:
 EDF Deliverable to (Email Address):

Project Name: **Andante Redevelopment Project** E-mail address: **inbox@kiffanalytical.com**

Sample Designation	Sampling		Container				Preservative				Matrix		Total Lead	Data Due:	For Lab Use Only	
	Date	Time	Glass Jar	Poly	Amber	Sleeve	HCl	HNO3	ICE	NONE	WATER	SOIL				
GP-18@5'	2/5/2003	12:00	1					X				X	X			X
GP-18@10'	2/5/2003	12:00	1					X				X	X			X
GP-21@7'	2/5/2003	12:00	1					X				X	X			X
GP-22@7'	2/5/2003	12:00	1					X				X	X			X
GP-23@7'	2/5/2003	12:00	1					X				X	X			X
GP-24@7'	2/5/2003	12:00	1					X				X	X			X
GP-25@7'	2/5/2003	12:00	1					X				X	X			X
GP-26@5'	2/5/2003	12:00	1					X				X	X			X
GP-27@5'	2/5/2003	12:00	1					X				X	X			X
GP-28@8'	2/5/2003	12:00	1					X				X	X			X

Relinquished by: KIFF <i>Joel Kiff</i>	Date: 02/05/03	Time: 1400	Received by:	Remarks:
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date: 2/8/03	Time: 1030	Received by Laboratory: <i>[Signature]</i>	

Bill to:

FEB-13-2003 11:30 CALSCIENCE ENVIRONMENTAL 714 894 7501 P.15/16



2795 2nd Street Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 31349

Page 1 of 4

Project Contact (Hardcopy or PDF To): **California EDF Report?** Yes No
KASEY L. JONES

Company / Address: **Recommended but not mandatory to complete this section:**
 Apex Envirotech, Inc. 11244
 Pyrites Way, Gold River, CA 95670
Sampling Company Log Code:

Phone No.: **Global ID:**
 916.851.0174 916.851.0177

Project Number: **EDF Deliverable To (Email Address):**
 SNK01.001

Project Name: **Sampler Signature:**
 Andante Redevelopment Project *[Signature]*

Chain-of-Custody Record and Analysis Request

Analysis Request

Sample Designation	Sampling		Container				Preservative				Matrix		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas (8260B)	7 Oxygenates/TPH Gas (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL <input checked="" type="checkbox"/> W.E.T. <input type="checkbox"/>	TAT	For Lab Use Only				
	Date	Time	40 ml VOA	SLEEVE	POLY	AMBER	HCl	HNO ₃	ICE	NONE	WATER	SOIL																			
GP-1e5'	2/5/03	1200	X					X			X			X	X														X	-01	
GP-2e5'								X						X	X																-02
GP-2e8'								X						X	X																-03
GP-3e5'								X						X	X																-04
GP-4e8'								X						X	X																-05
GP-5e5'								X						X	X																-06
GP-5e10'								X						X	X																-07
GP-6e5'								X						X	X																-08
GP-6e11'								X						X	X																-09
GP-7e5'								X						X	X																-10

Relinquished by: *[Signature]* Date: 2/6/03 Time: _____ Received by: _____ Remarks: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: 02/06/03 Time: 1005 Received by Laboratory: B.A. Brown Kiff Analytical Bill to: _____



2795 2nd Street Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 31349

Page 2 of 4

Project Contact (Hardcopy or PDF To):

KASEY L. JONES

California EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Company / Address:

Apex Envirotech, Inc. 11244
 Pyrites Way, Gold River, CA 95670

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Phone No.:

916.851.0174

Fax No.:

916.851.0177

Global ID:

Project Number:

SNK01.001

P.O. No.:

EDF Deliverable To (Email Address):

Project Name:

Andante Redevelopment Project

Sampler

Signature: *[Handwritten Signature]*

Project Address:

3992 San Pablo Ave., Emeryville, CA

Sampling

Container

Preservative

Matrix

Sample Designation

Date

Time

40 ml VOA

SLEEVE

POLY

AMBER

HCl

HNO₃

ICE

NONE

WATER

SOIL

BTEX (8021B)

BTEX/TPH Gas/MTBE (8021B/M8015)

TPH as Diesel (M8015)

TPH as Motor Oil (M8015)

TPH Gas/BTEX/MTBE (8260B)

5 Oxygenates/TPH Gas (8260B)

7 Oxygenates/TPH Gas (8260B)

5 Oxygenates (8260B)

7 Oxygenates (8260B)

Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)

EPA 8260B (Full List)

Volatile Halocarbons (EPA 8260B)

Lead (7421/239.2) TOTAL W.E.T.

TAT

12hr

 24hr

 48hr

 72hr

 1wk

 2wk

For Lab Use Only

Sample Designation	Date	Time	40 ml VOA	SLEEVE	POLY	AMBER	HCl	HNO ₃	ICE	NONE	WATER	SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas (8260B)	7 Oxygenates/TPH Gas (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL <input checked="" type="checkbox"/> W.E.T. <input type="checkbox"/>	TAT	For Lab Use Only
GP-7 @ 10'	2/15/03	1200		X					X			X		X	X									X		X	-11
GP-8 @ 10'								X						X	X									X			-12
GP-9 @ 5'								X						X	X									X			-13
GP-10 @ 6'								X						X	X									X			-14
GP-11 @ 5'								X						X	X									X			-15
GP-11 @ 10'								X						X	X									X			-16
GP-12 @ 8'								X						X	X									X			-17
GP-13 @ 8'								X						X	X									X			-18
GP-16 @ 5'								X						X	X									X			-19
GP-17 @ 5'								X						X	X									X			-20

Relinquished by:

[Handwritten Signature]

Date

2/15/03

Time

Received by:

Remarks:

Relinquished by:

Date

Time

Received by:

Relinquished by:

Date

02/02/03

Time

1005

Received by Laboratory:

[Handwritten Signature]

K:GG

Analytical

Bill to:

