



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

**REMEDIAL ACTION COMPLETION CERTIFICATION**

**StID 4081 - 2651 Grant Avenue, San Lorenzo, CA  
(diesel fuel release on February 12, 1999)**

July 17, 2000

Mr. Karl Royer  
East Bay Dischargers  
2651 Grant Avenue  
San Lorenzo, CA 94580-1841

Dear Mr. Royer:

This letter confirms the completion of site investigation and corrective action for the underground storage tank located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Chuck Headlee, RWQCB (w/o attachment)  
Allan Patton, SWRCB (w/o attachment)  
files-ec (EBDA-6)

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**

**I. AGENCY INFORMATION**

**Date: July 6, 2000**

Agency name: **Alameda County-HazMat**  
City/State/Zip: **Alameda, CA 94502**  
Responsible staff person: **Eva Chu**

Address: **1131 Harbor Bay Pkwy**  
Phone: **(510) 567-6700**  
Title: **Hazardous Materials Spec.**

**II. CASE INFORMATION**

Site facility name: **East Bay Dischargers**  
Site facility address: **2651 Grant Avenue, San Lorenzo, CA 94580**  
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **4081**  
URF filing date: **2/26/99** SWEEPS No: **N/A**

| <u>Responsible Parties:</u>                    | <u>Addresses:</u>                                       | <u>Phone Numbers:</u> |
|--|---|-----------------------|
| <b>East Bay Dischargers<br/>c/o Karl Royer</b> | <b>2651 Grant Avenue<br/>San Lorenzo, CA 94580-1841</b> | <b>(510) 278-5910</b> |

| <u>Tank No:</u> | <u>Size in gal.:</u> | <u>Contents:</u> | <u>Closed in-place or removed?:</u> | <u>Date:</u> |
|-----------------|----------------------|------------------|-------------------------------------|--------------|
|-----------------|----------------------|------------------|-------------------------------------|--------------|

**Not Applicable**

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: **Faulty float switch allowed the day tank to overflow.**  
Site characterization complete? **YES**  
Date approved by oversight agency: **5/11/00**  
Monitoring Wells installed? **No, but a total of five direct-push boreholes were advanced at the site.**  
Proper screened interval? **NA**  
Highest GW depth below ground surface: **Groundwater was encountered at 11.5 to 13 feet bgs**  
Flow direction: **Groundwater is assumed to flow west to southwest based on the proximity to the SF Bay and data from an adjacent site.**  
Most sensitive current use: **Water treatment pump station**  
Are drinking water wells affected? **No** Aquifer name:  
Is surface water affected? **No** Nearest affected SW name:  
Off-site beneficial use impacts (addresses/locations): **None**  
Report(s) on file? **YES** Where is report(s) filed? **Alameda County** City of San Leandro  
**1131 Harbor Bay Pkwy and 835 E. 14<sup>th</sup> St.**  
**Alameda, CA 94502** **San Leandro, CA 94557**

**Treatment and Disposal of Affected Material:**

| <u>Material</u> | <u>Amount<br/>(include units)</u> | <u>Action (Treatment<br/>or Disposal w/destination)</u>  | <u>Date</u> |
|-----------------|-----------------------------------|--|-------------|
| Soil            | 75 tons                           | Disposed at Altamont L.F., in Livermore<br>Disposed at Statewide Environmental Services,<br>in Los Angeles, CA | 4/99        |
| Free Product    | 3 drums                           |  | 5/99        |

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

| Contaminant  | Soil (ppm)          |                    | Water (ppb)         |                    |
|--------------|---------------------|--------------------|---------------------|--------------------|
|              | Before <sup>1</sup> | After <sup>2</sup> | Before <sup>3</sup> | After <sup>4</sup> |
| TPH (Diesel) |                     | 4,700              | 3,300               | 330                |
| Benzene      |                     | ND                 | ND                  | ND                 |
| Toluene      |                     | ND                 | 8.1                 | 8.1                |
| Ethylbenzene |                     | ND                 | ND                  | ND                 |
| Xylenes      |                     | ND                 | 2.8                 | ND                 |
| MTBE         |                     |                    |                     |                    |

- NOTE: 1 No soil samples collected immediately after the diesel spill.  
 2 Soil samples collected after excavation of diesel-impacted soil, 2/99. BTEX and MTBE concentrations are from boreholes advanced in 9/99.  
 3 Grab groundwater samples from direct-push boreholes advanced in Sep 1999.  
 4 Grab groundwater samples from boreholes advanced, in 2/00, approximately 20 feet further downgradient of initial borings.

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? \_\_\_\_\_  
 Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? \_\_\_\_\_  
 Does corrective action protect public health for current land use? **YES**  
 Site management requirements: **None**  
 Should corrective action be reviewed if land use changes? **YES**  
 Monitoring wells Decommissioned: **NA**  
 Number Decommissioned: **NA** Number Retained:  
 List enforcement actions taken: **NA**  
 List enforcement actions rescinded: **NA**

**V. LOCAL AGENCY REPRESENTATIVE DATA**

Name: **Eva Chu**

Title: **Haz Mat Specialist**

Signature: 

Date: **7/6/00**

**Reviewed by**

Name: **Don Hwang**

Title: **Haz Mat Specialist**

Signature: 

Date: **7/6/00**

Name: **Thomas Peacock**

Title: **Supervisor**

Signature: 

Date: **7-6-00**

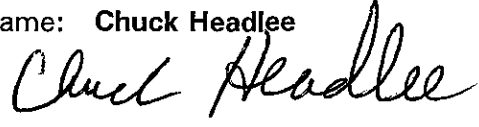
**VI. RWQCB NOTIFICATION**

Date Submitted to RB: **7/6/00**

RB Response: **Concur**

RWQCB Staff Name: **Chuck Headlee**

Title: **AEG**

Signature: 

Date: **7/13/00**

**VII. ADDITIONAL COMMENTS, DATA, ETC.**

On February 12, 1999 a release of approximately 555 gallons of diesel fuel occurred at the Oro Loma Effluent Pumping Station (OLEPS). A faulty float switch caused the day tank to overflow. Diesel fuel spilled out of the vent pipe. The spill was immediately contained. Approximately 220 gallons of fuel was recovered and stored in drums. The northwest corner of the building, where the diesel spill occurred, was overexcavated to a depth of approximately 7.5 feet below ground surface (bgs). The material excavated was mostly fill-material comprised of gravels and sands. Bay mud was encountered at approximately 6.5' bgs. A total of approximately 75 tons of soil was removed. Based on the number of drums of diesel fuel and tons of soil removed, it was estimated that between 450 and 550 gallons of diesel fuel was recovered. (See Fig 1 and 2)

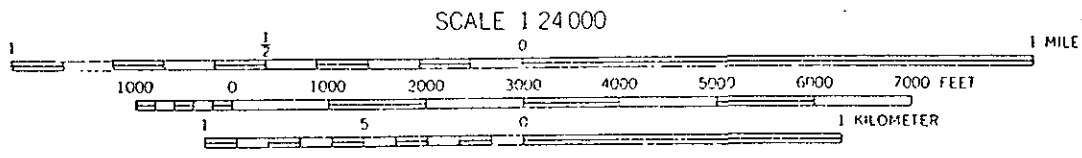
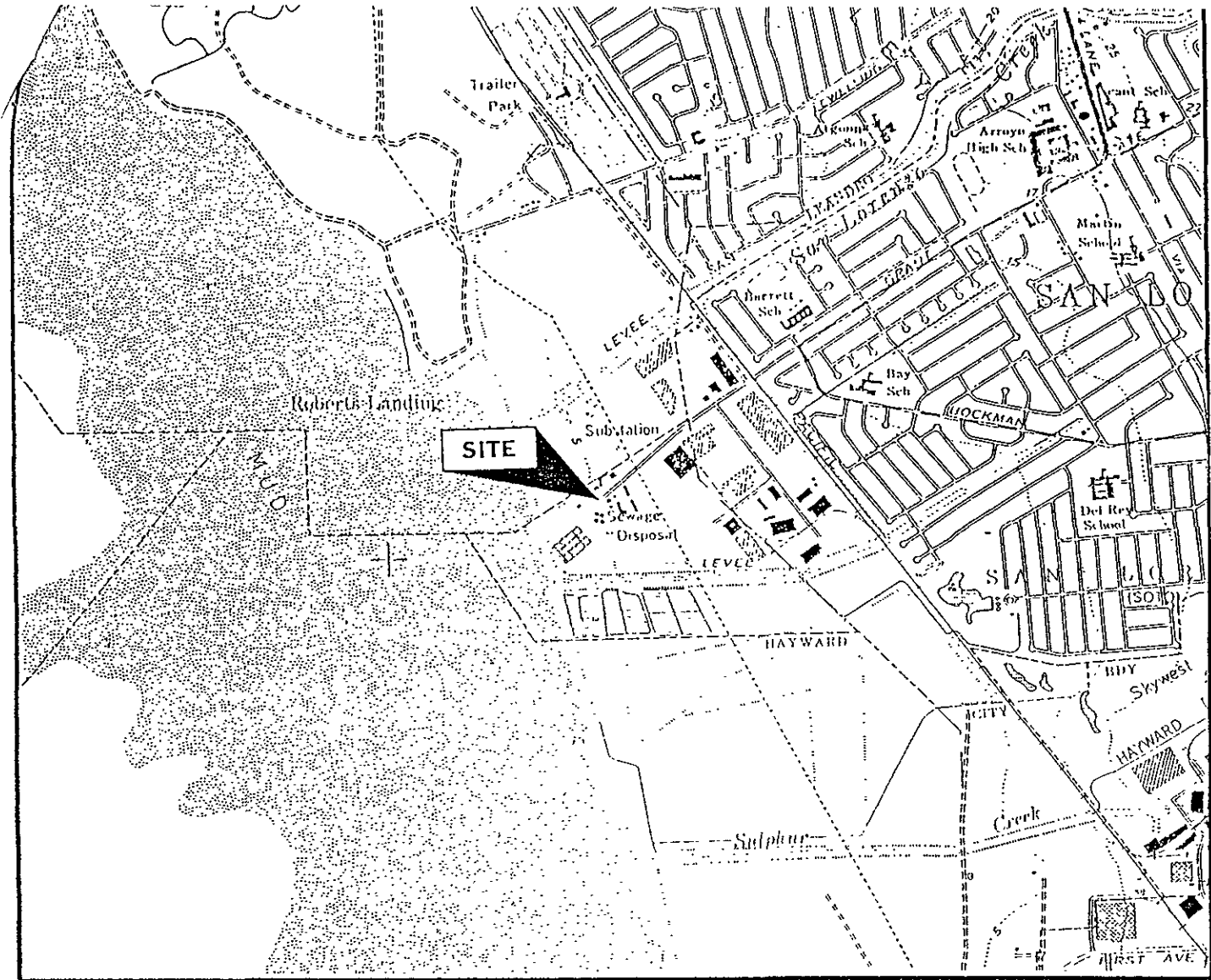
Confirmation soil samples were collected from the excavation. Sample EBDA#1 was collected at the westernmost end of the excavation at 6.5 feet bgs. EBDA#2 was collected adjacent to the concrete conduit chase leading to the transformer at a depth of 5.0 feet bgs. And sample EBDA#3 was collected from the excavation bottom at 7.5 feet bgs. All soil samples were analyzed for TPHd. Up to 4,700 ppm TPHd was detected in soil sample EBDA#2, along the transformer pad. (See Table 1)

In September 1999 three direct push boreholes were advanced around the former excavation (see Fig 3). Groundwater was encountered at approximately 11.5' bgs. Soil samples were collected at 11' and 11.5' bgs. Grab groundwater samples were also collected from each borehole. All samples were analyzed for TPHd, BTEX, and MTBE. None of the soil samples contained analytes sought above the laboratory detection limits. Groundwater from the west borehole (assumed downgradient direction) contained 3,300ppb TPHd. (See Table 2 and 3)

In February 2000, two additional direct-push boreholes were advanced approximately 20 feet further downgradient of the previous boreholes advanced in September 1999. These borings were advanced to delineate the extent of the TPHd plume. The grab groundwater samples from Boring SC4 contained 330 ppb TPHd (see Fig 4 and Table 4). However, the laboratory chromatogram suggests the compound detected was weathered diesel. It appears that the diesel fuel release in February 1999 did not significantly impact groundwater quality beneath the site. The source of the weathered diesel is not known. Residual TPHd in groundwater should continue to naturally bioattenuate. Although the San Francisco Bay is 500 feet west of the spill area, it is not likely that residual hydrocarbons in groundwater will migrate in the low permeable Bay Mud to impact aquatic life in the Bay.


In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved hydrocarbon plume is not migrating;
- no preferential pathways exist at the site;
- no water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.



CONTOUR INTERVAL 20 FEET  
 DOTTED LINES REPRESENT 5 FOOT CONTOURS  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929  
 DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER  
 SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER  
 THE MEAN RANGE OF TIDE IS APPROXIMATELY 5 FEET

Source: USGS San Leandro, California 7.5-Minute Quadrangle Map

|   |                       |  |
|---|-----------------------|--|
| <br>ENVIRONMENTAL<br>BIO-SYSTEMS, INC. | DATE:<br>8/9/99       | <b>FIGURE 1:</b><br><b>SITE LOCATION MAP</b> |
|   | DRAWN BY<br>DAS       |  |
|   | SCALE:<br>1" = 2,000' |  |



By: K. KRANSE  
Project No. A9098

Date: 2-24-99  
Sheet No. 1 of 1

# SAMPLING MAP

1/8" x 1/8"

100 yds  
to Bend

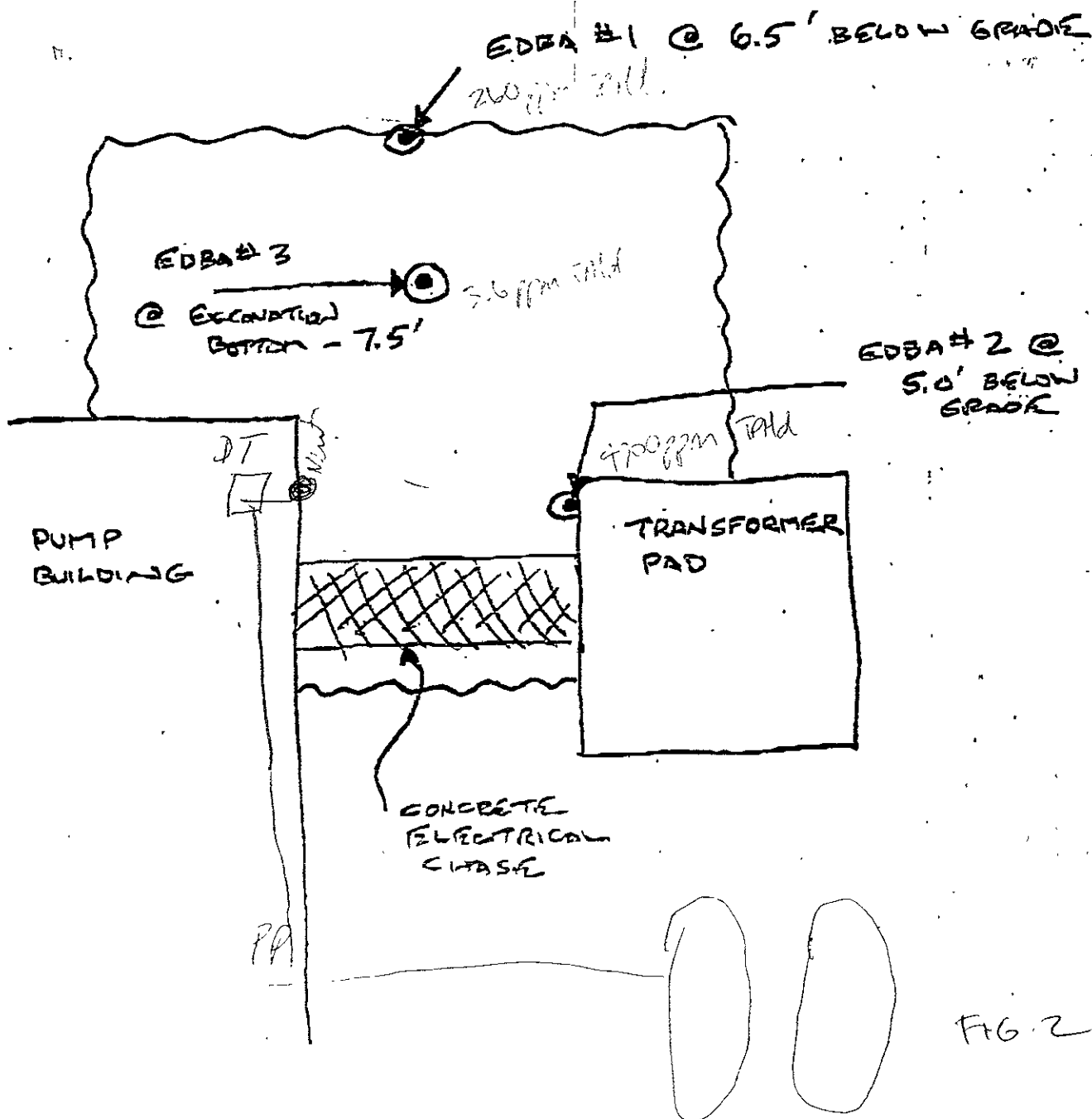


TABLE 1

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 9902315

February 26, 1999

FOSS ENVIRONMENTAL SERVICES

Atten: KEVIN KRAUSE

Project: EDBA SPILL  
Received: February 25, 1999

re: 3 samples for TPH - Diesel analysis.  
Method: EPA 8015M

Matrix: SOIL                      Extracted: February 25, 1999  
Run#: 17562                      Analyzed: February 25, 1999  
Sampled: February 24, 1999

| Spl#   | CLIENT SPL ID | DIESEL (mg/Kg) | REPORTING LIMIT (mg/Kg) | BLANK RESULT (mg/Kg) | BLANK SPIKE (%) | DILUTION FACTOR |
|--------|---------------|----------------|-------------------------|----------------------|-----------------|-----------------|
| 230351 | EDBA-1(W)     | 260            | 1.0                     | N.D.                 | 89.1            | 1               |

Note: Estimated concentration due to overlapping fuel patterns. Unknown hydrocarbons are in the early Diesel range. Surrogate Recoveries biased high due to Hydrocarbon co-elution.

|        |           |      |    |      |      |    |
|--------|-----------|------|----|------|------|----|
| 230352 | EDBA-2(C) | 4700 | 10 | N.D. | 89.1 | 10 |
|--------|-----------|------|----|------|------|----|

Note: estimated concentrations reported due to overlapping fuel patterns. Unknown hydrocarbons are in the early Diesel range. Surrogate Recoveries biased high due to Hydrocarbon co-elution.

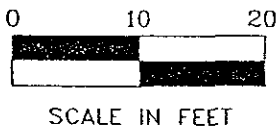
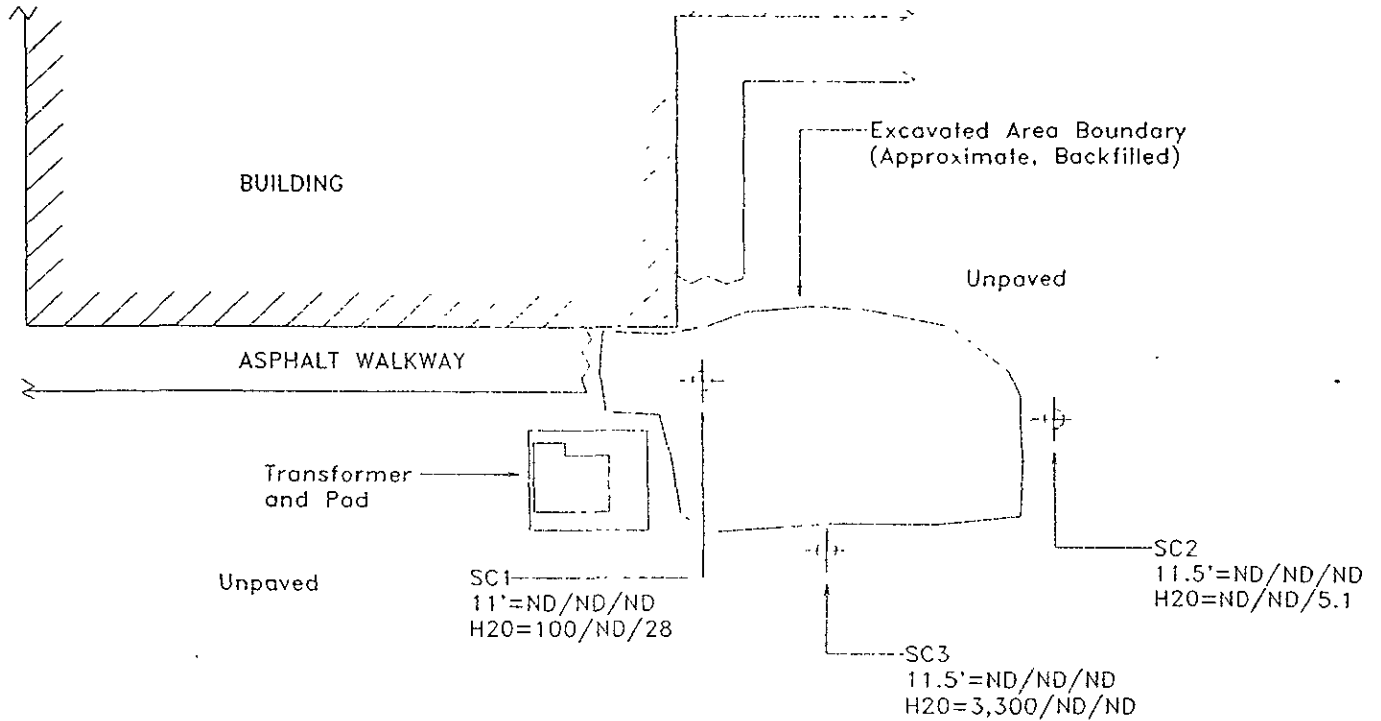
Matrix: SOIL                      Extracted: February 26, 1999  
Run#: 17562                      Analyzed: February 26, 1999  
Sampled: February 24, 1999

| Spl#   | CLIENT SPL ID | DIESEL (mg/Kg) | REPORTING LIMIT (mg/Kg) | BLANK RESULT (mg/Kg) | BLANK SPIKE (%) | DILUTION FACTOR |
|--------|---------------|----------------|-------------------------|----------------------|-----------------|-----------------|
| 230353 | EDBA-3(B)     | 3.6            | 1.0                     | N.D.                 | 89.1            | 1               |

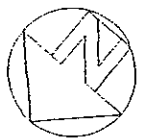
*Carolyn House*  
Carolyn House  
Analyst

*Bruce Havlik*  
Bruce Havlik  
Analyst





| NOTES   |                                     |
|---|-------------------------------------|
| SC3   | BOREHOLE LOCATION AND DESIGNATION   |
| 11.5'=ND/ND/ND  | SOIL SAMPLE DEPTH TPHd/BENZENE/MTBE |
| H2O=3,300/ND/ND   | WATER SAMPLE TPHd/BENZENE/MTBE      |
| ALL RESULTS IN $\mu\text{G/L}$ (WATER) OR $\mu\text{G/KG}$ (SOIL) |                                     |



DATE:  
10/15/99

PROJECT #:  
157-551B

SCALE:  
AS SHOWN

FIGURE 3.3 SITE MAP  
AND ANALYTICAL RESULTS

E. BAY DISCHARGERS AUTH.  
2651 GRANT AVENUE  
SAN LORENZO, CALIFORNIA



Table 2

TPH Diesel in Soil

| Lab # | Sample ID | Analysis | Result (mg/kg) | RDL (mg/kg) |
|-------|-----------|----------|----------------|-------------|
| 4465  | SC1-11'   | Diesel   | ND             | 5.0         |

|   |                                 |                               |
|---|---------------------------------|-------------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Extracted: <u>09/13/99</u> | QC Batch #: <u>897</u>        |
| Date Received: <u>09/10/99</u>  | Date Analyzed: <u>09/13/99</u>  | Method: <u>EPA 3550/8015M</u> |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                 |                               |

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| Lab # | Sample ID | Analysis | Result (mg/kg) | RDL (mg/kg) |
|-------|-----------|----------|----------------|-------------|
| 4466  | SC2-11.5' | Diesel   | ND             | 5.0         |

|   |                                 |                               |
|---|---------------------------------|-------------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Extracted: <u>09/13/99</u> | QC Batch #: <u>897</u>        |
| Date Received: <u>09/10/99</u>  | Date Analyzed: <u>09/13/99</u>  | Method: <u>EPA 3550/8015M</u> |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                 |                               |

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| Lab # | Sample ID | Analysis | Result (mg/kg) | RDL (mg/kg) |
|-------|-----------|----------|----------------|-------------|
| 4467  | SC3-11.5' | Diesel   | ND             | 5.0         |

|   |                                 |                               |
|---|---------------------------------|-------------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Extracted: <u>09/13/99</u> | QC Batch #: <u>897</u>        |
| Date Received: <u>09/10/99</u>  | Date Analyzed: <u>09/13/99</u>  | Method: <u>EPA 3550/8015M</u> |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                 |                               |



cont. Table 3

MTBE and BTEX in Soil

| Lab # | Sample ID | Analysis      | Result (mg/kg) | RDL (mg/kg) |
|-------|-----------|---------------|----------------|-------------|
| 4465  | SC1-11'   | MTBE          | ND             | 0.025       |
|       |           | Benzene       | ND             | 0.005       |
|       |           | Toluene       | ND             | 0.005       |
|       |           | Ethyl Benzene | ND             | 0.005       |
|       |           | Xylenes       | ND             | 0.015       |

|   |                                    |                        |
|---|------------------------------------|------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Analyzed: <u>09/20/99</u>     | QC Batch #: <u>898</u> |
| Date Received: <u>09/10/99</u>  | Method: <u>EPA 5030/8015M/8020</u> |                        |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                    |                        |

| Lab # | Sample ID | Analysis      | Result (mg/kg) | RDL (mg/kg) |
|-------|-----------|---------------|----------------|-------------|
| 4466  | SC2-11.5' | MTBE          | ND             | 0.025       |
|       |           | Benzene       | ND             | 0.005       |
|       |           | Toluene       | ND             | 0.005       |
|       |           | Ethyl Benzene | ND             | 0.005       |
|       |           | Xylenes       | ND             | 0.015       |

|   |                                    |                        |
|---|------------------------------------|------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Analyzed: <u>09/20/99</u>     | QC Batch #: <u>898</u> |
| Date Received: <u>09/10/99</u>  | Method: <u>EPA 5030/8015M/8020</u> |                        |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                    |                        |

| Lab # | Sample ID | Analysis      | Result (mg/kg) | RDL (mg/kg) |
|-------|-----------|---------------|----------------|-------------|
| 4467  | SC3-11.5' | MTBE          | ND             | 0.025       |
|       |           | Benzene       | ND             | 0.005       |
|       |           | Toluene       | ND             | 0.005       |
|       |           | Ethyl Benzene | ND             | 0.005       |
|       |           | Xylenes       | ND             | 0.015       |

|   |                                    |                        |
|---|------------------------------------|------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Analyzed: <u>09/20/99</u>     | QC Batch #: <u>898</u> |
| Date Received: <u>09/10/99</u>  | Method: <u>EPA 5030/8015M/8020</u> |                        |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                    |                        |



Table 3

TPH Diesel in Water

| Lab # | Sample ID            | Analysis   | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|------------|---------------|------------|
| 4468  | SC1-H <sub>2</sub> O | TPH/Diesel | 100           | 50         |

|   |                                 |                               |
|---|---------------------------------|-------------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Extracted: <u>09/13/99</u> | QC Batch #: <u>897w</u>       |
| Date Received: <u>09/10/99</u>  | Date Analyzed: <u>09/13/99</u>  | Method: <u>EPA 3510/8015M</u> |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                 |                               |

| Lab # | Sample ID            | Analysis   | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|------------|---------------|------------|
| 4469  | SC2-H <sub>2</sub> O | TPH/Diesel | ND            | 50         |

|   |                                 |                               |
|---|---------------------------------|-------------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Extracted: <u>09/13/99</u> | QC Batch #: <u>897w</u>       |
| Date Received: <u>09/10/99</u>  | Date Analyzed: <u>09/13/99</u>  | Method: <u>EPA 3510/8015M</u> |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                 |                               |

| Lab # | Sample ID            | Analysis   | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|------------|---------------|------------|
| 4470  | SC3-H <sub>2</sub> O | TPH/Diesel | 3,300         | 50         |

|   |                                 |                               |
|---|---------------------------------|-------------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Extracted: <u>09/13/99</u> | QC Batch #: <u>897w</u>       |
| Date Received: <u>09/10/99</u>  | Date Analyzed: <u>09/13/99</u>  | Method: <u>EPA 3510/8015M</u> |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                 |                               |



cont. Table 3

MTBE and BTEX in Water

| Lab # | Sample ID            | Analysis      | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|---------------|---------------|------------|
| 4468  | SC1-H <sub>2</sub> O | MTBE          | 28 ①          | 2.5        |
|       |                      | Benzene       | ND            | 0.5        |
|       |                      | Toluene       | ND            | 0.5        |
|       |                      | Ethyl Benzene | ND            | 0.5        |
|       |                      | Xylenes       | 1.9           | 1.5        |

|   |                                    |                        |
|---|------------------------------------|------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Analyzed: <u>09/15/99</u>     | QC Batch #: <u>899</u> |
| Date Received: <u>09/10/99</u>  | Method: <u>EPA 5030/8015M/8020</u> |                        |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                    |                        |

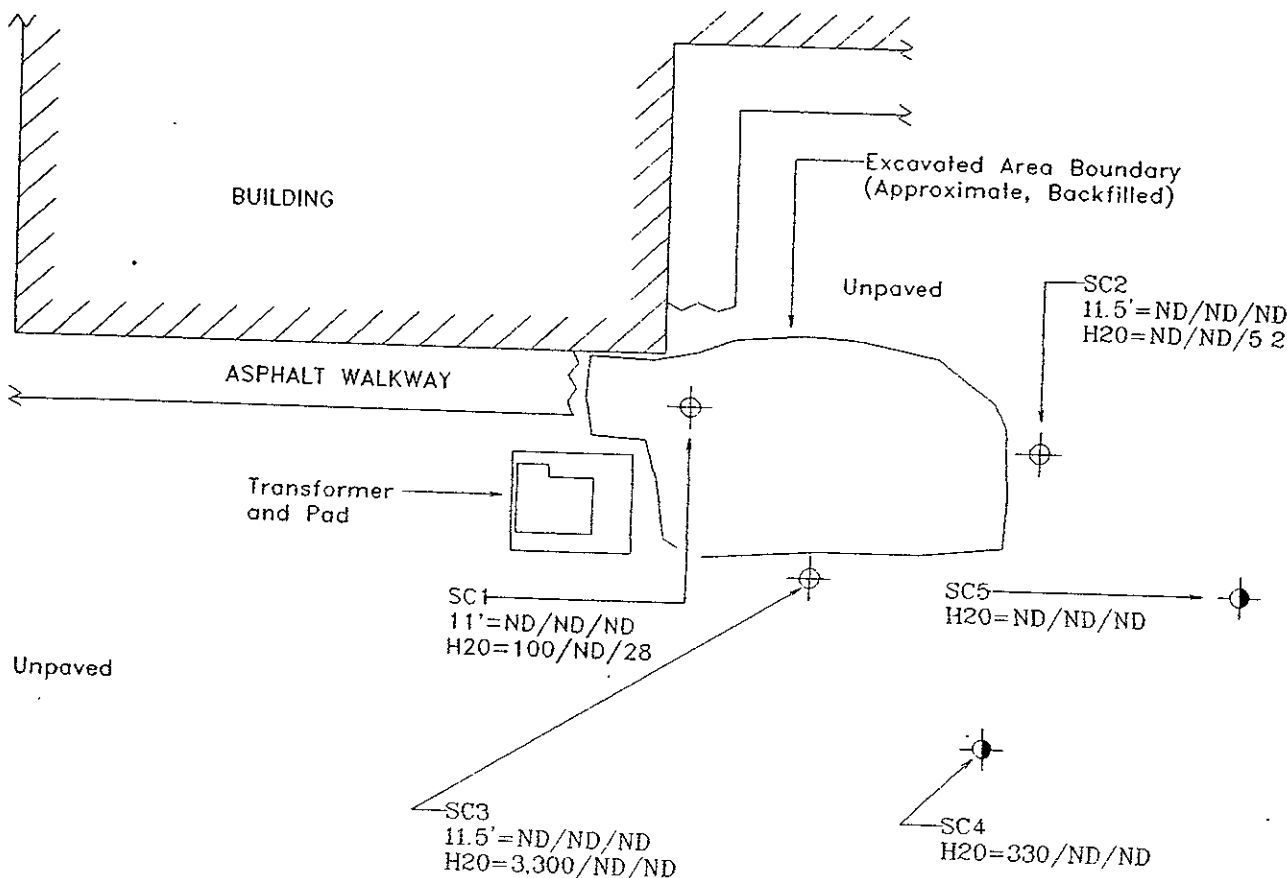
| Lab # | Sample ID            | Analysis      | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|---------------|---------------|------------|
| 4469  | SC2-H <sub>2</sub> O | MTBE          | 5.1           | 2.5        |
|       |                      | Benzene       | ND            | 0.5        |
|       |                      | Toluene       | 0.73          | 0.5        |
|       |                      | Ethyl Benzene | ND            | 0.5        |
|       |                      | Xylenes       | ND            | 1.5        |

|   |                                    |                        |
|---|------------------------------------|------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Analyzed: <u>09/15/99</u>     | QC Batch #: <u>899</u> |
| Date Received: <u>09/10/99</u>  | Method: <u>EPA 5030/8015M/8020</u> |                        |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                    |                        |

| Lab # | Sample ID            | Analysis      | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|---------------|---------------|------------|
| 4470  | SC3-H <sub>2</sub> O | MTBE          | ND            | 2.5        |
|       |                      | Benzene       | ND            | 0.5        |
|       |                      | Toluene       | 2.9           | 0.5        |
|       |                      | Ethyl Benzene | ND            | 0.5        |
|       |                      | Xylenes       | 2.8           | 1.5        |

|   |                                    |                        |
|---|------------------------------------|------------------------|
| Date Sampled: <u>09/09/99</u>   | Date Analyzed: <u>09/15/99</u>     | QC Batch #: <u>899</u> |
| Date Received: <u>09/10/99</u>  | Method: <u>EPA 5030/8015M/8020</u> |                        |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                    |                        |

① Confirmed by GC/MS (EPA 8260)

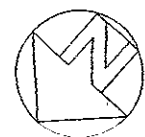
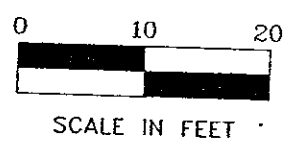


**NOTES**

⊕ SC3  
 11.5'=ND/ND/ND SOIL SAMPLE DEPTH TPHd/BENZENE/MTBE  
 H2O=3,300/ND/ND WATER SAMPLE TPHd/BENZENE/MTBE

⊙ CORE LOCATION AND DESIGNATION (2/00)

ALL RESULTS IN uG/L (WATER) OR uG/KG (SOIL)



**ENVIRONMENTAL  
BIO-SYSTEMS, INC.**

DATE:  
3/9/00

PROJECT :  
157-544B

SCALE:  
AS SHOWN

**FIGURE 40: CORE LOCATIONS  
AND ANALYTICAL RESULTS**

E. BAY DISCHARGERS AUTH.  
2651 GRANT AVENUE  
SAN LORENZO, CALIFORNIA



Table 4

TPH Diesel in Water

| Lab # | Sample ID            | Analysis   | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|------------|---------------|------------|
| 5681  | SC4-H <sub>2</sub> O | TPH/Diesel | 330 ①         | 50         |

|   |                          |                        |
|---|--------------------------|------------------------|
| Date Sampled: 02/15/00  | Date Extracted: 02/23/00 | QC Batch #: 1099       |
| Date Received: 02/16/00   | Date Analyzed: 02/23/00  | Method: EPA 3510/8015M |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                          |                        |

| Lab # | Sample ID            | Analysis   | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|------------|---------------|------------|
| 5682  | SC5-H <sub>2</sub> O | TPH/Diesel | ND ①          | 50         |

|   |                          |                        |
|---|--------------------------|------------------------|
| Date Sampled: 02/15/00  | Date Extracted: 02/23/00 | QC Batch #: 1099       |
| Date Received: 02/16/00   | Date Analyzed: 02/23/00  | Method: EPA 3510/8015M |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                          |                        |

① The extract was treated with silica gel prior to analysis to remove non-petroleum based polar hydrocarbons. The hydrocarbons present in the chromatogram are primarily in the chromatographic region where weathered diesel would be observed (see enclosed chromatograms A, B & C). There also appears to be some hydrocarbons present with a slightly higher boiling point than diesel. It should be considered that Silica Gel may not completely remove all naturally occurring hydrocarbons in a complex water collected very near the edge of the San Francisco Bay.



cont. Table 4

TPH Gasoline in Water

| Lab # | Sample ID            | Analysis      | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|---------------|---------------|------------|
| 5681  | SC4-H <sub>2</sub> O | MTBE          | ND            | 2.5        |
|       |                      | Benzene       | ND            | 0.5        |
|       |                      | Toluene       | 8.1           | 0.5        |
|       |                      | Ethyl Benzene | ND            | 0.5        |
|       |                      | Xylenes       | ND            | 1.5        |

|   |                             |                  |
|---|-----------------------------|------------------|
| Date Sampled: 02/15/00  | Date Analyzed: 02/17/00     | QC Batch #: 1080 |
| Date Received: 02/16/00   | Method: EPA 5030/8015M/8020 |                  |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                             |                  |

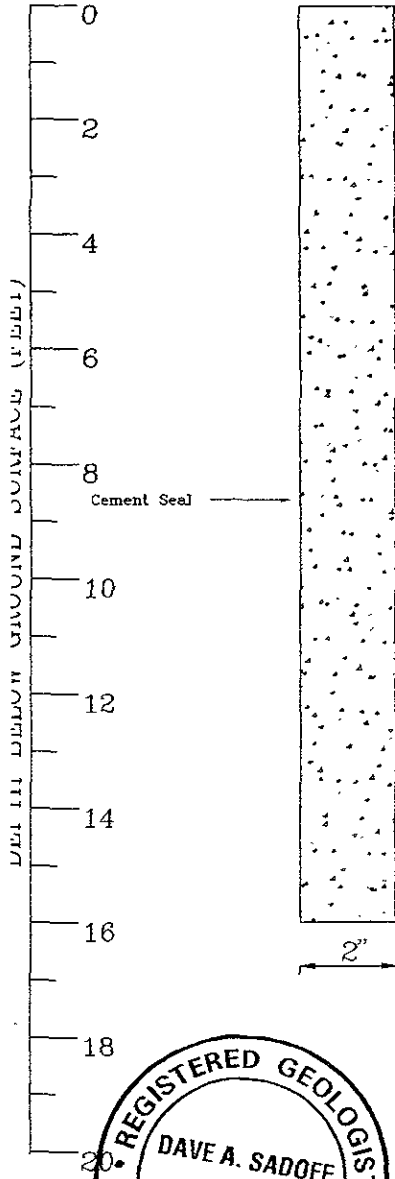
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| Lab # | Sample ID            | Analysis      | Result (ug/L) | RDL (ug/L) |
|-------|----------------------|---------------|---------------|------------|
| 5682  | SC5-H <sub>2</sub> O | MTBE          | ND            | 2.5        |
|       |                      | Benzene       | ND            | 0.5        |
|       |                      | Toluene       | ND            | 0.5        |
|       |                      | Ethyl Benzene | ND            | 0.5        |
|       |                      | Xylenes       | ND            | 1.5        |

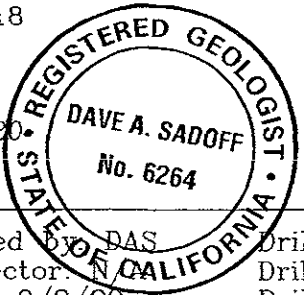
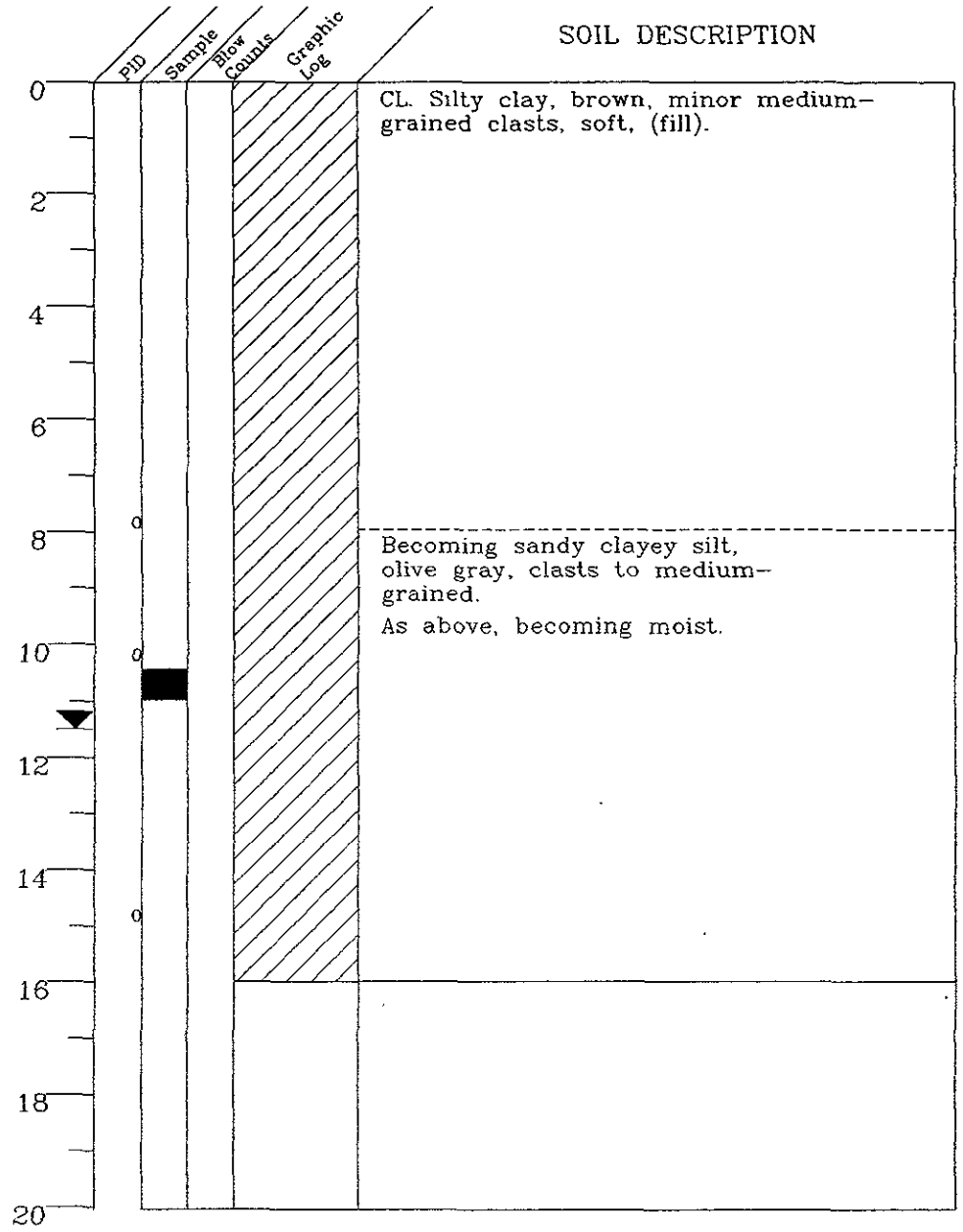
|   |                             |                  |
|---|-----------------------------|------------------|
| Date Sampled: 02/15/00  | Date Analyzed: 02/17/00     | QC Batch #: 1080 |
| Date Received: 02/16/00   | Method: EPA 5030/8015M/8020 |                  |
| Holding Time Met: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                             |                  |



## SOIL CORE DETAILS



## SOIL DESCRIPTION



Logged by: DAS  
 Inspector: N  
 Date: 9/9/99  
 Drilling Contractor: Fast-Tek  
 Drilling Method: DPT  
 Driller: Tom  
 Sanitary Seal/Backfill: Cement  
 Sampler Type: Acetate Sleeve  
 Total Boring Depth: 16 feet



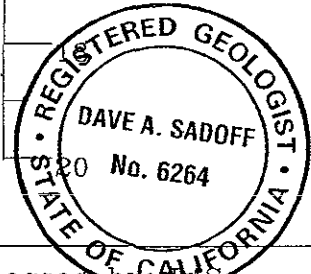
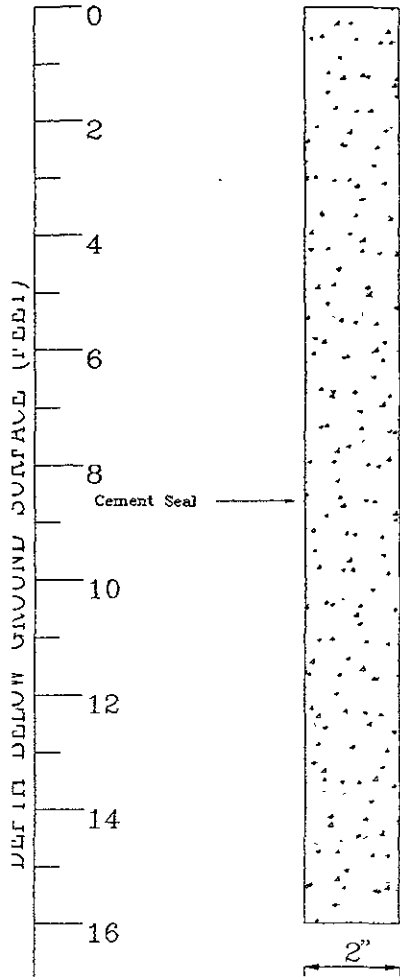
| EXPLANATION                 |                |
|-----------------------------|----------------|
| water level during drilling | gradational    |
| potentiometric water level  | NR no recovery |
| drill sample                | CONTACTS       |
| chemical analysis sample    | certain        |
| geotech. analysis sample    | appreciable    |
| grab sample                 | uncertain      |

**SITE:**  
 E. BAY DISCH. AUTH.  
 2651 GRANT AVENUE  
 SAN LORENZO, CA  
 PROJECT #157-531B  

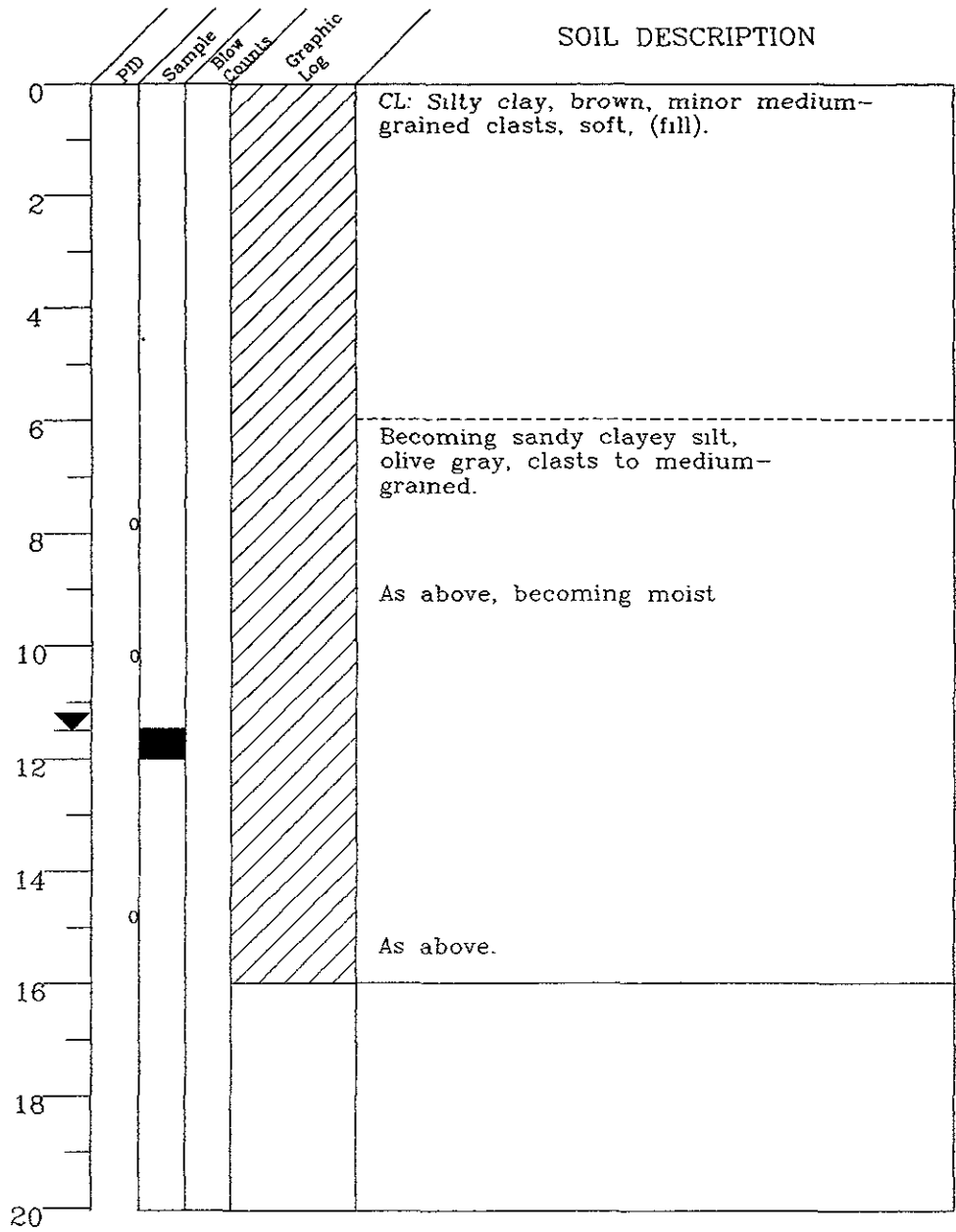

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**CLIENT:**  
 E. BAY DISCHARGERS AUTH  
 2651 GRANT AVENUE  
 SAN LORENZO CALIFORNIA

## SOIL CORE DETAILS



## SOIL DESCRIPTION



Logged by: DAS  
 Inspector: N/A  
 Date: 9/9/99

Drilling Contractor: Fast-Tek  
 Drilling Method: DPT  
 Driller: Tom

Sanitary Seal/Backfill: Cement  
 Sampler Type: Acetate Sleeve  
 Total Boring Depth: 16 feet



**ENVIRONMENTAL  
 BIO-SYSTEMS, INC.**

### EXPLANATION

- water level during drilling
- potentiometric water level
- drill sample
- chemical analysis sample
- grab analysis sample
- grab sample
- gradational
- no recovery
- CONTACTS
- certain
- approximate
- uncertain

### SITE:

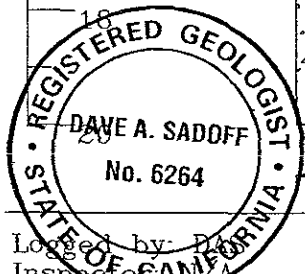
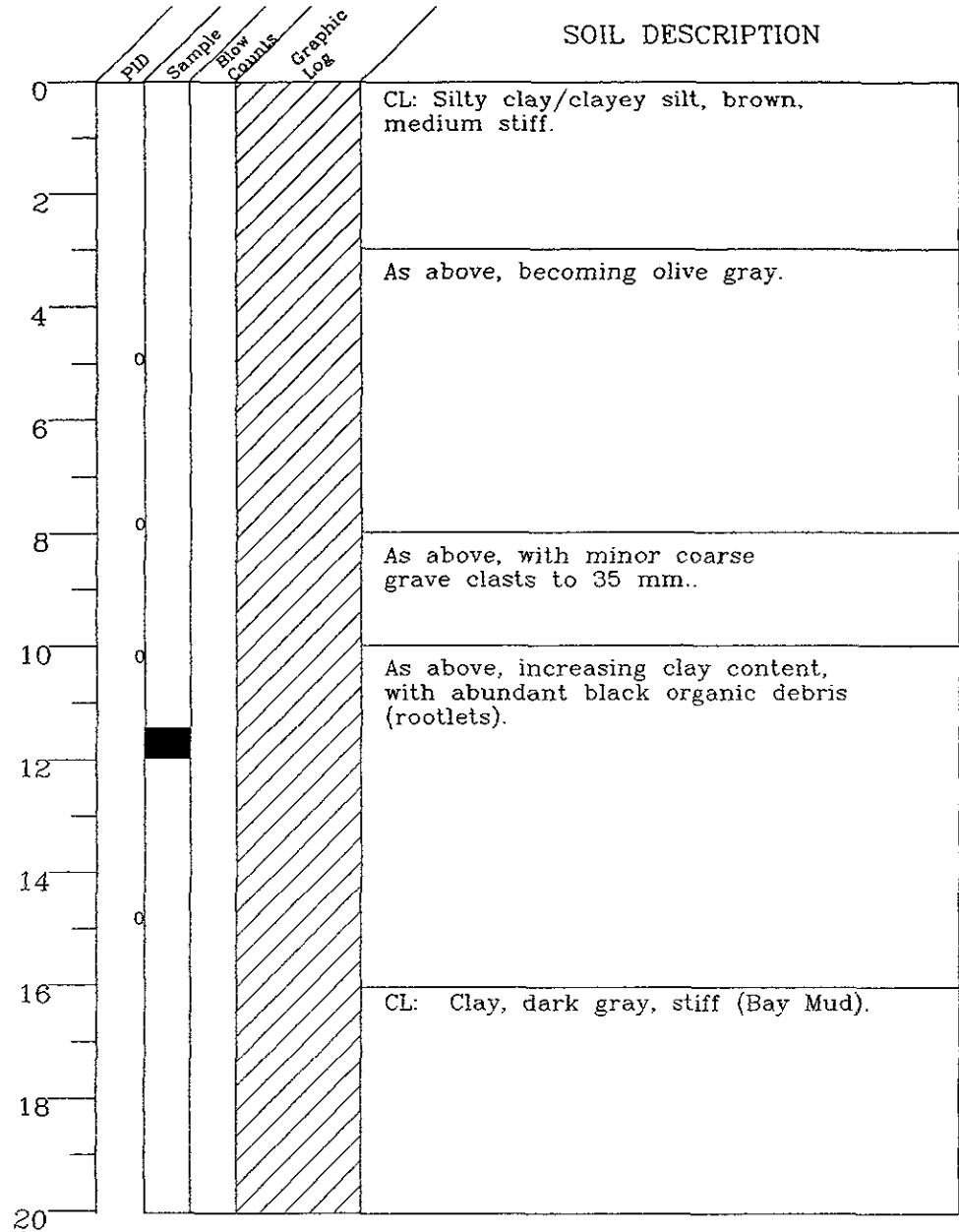
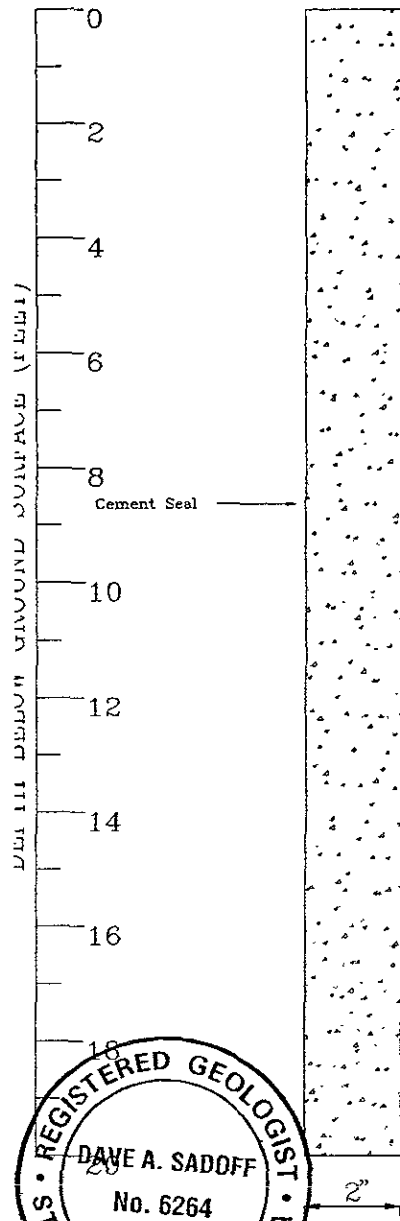
E. BAY DISCH. AUTH.  
 2651 GRANT AVENUE  
 SAN LORENZO, CA  
 PROJECT #157-531B

---

CLIENT  
 E. BAY DISCHARGERS AUTH  
 2651 GRANT AVENUE  
 SAN LORENZO CALIFORNIA

**SOIL CORE DETAILS**

**SOIL DESCRIPTION**



|   |   |   |
|---|---|---|
| Logged by: [Signature]<br>Inspected by: [Signature]<br>Date: 9/9/99 | Drilling Contractor: Fast-Tek<br>Drilling Method: DPT<br>Driller: Tom | Sanitary Seal/Backfill: Cement<br>Sampler Type: Acetate Sleeve<br>Total Boring Depth: 20 feet |
|---|---|---|



**ENVIRONMENTAL  
BIO-SYSTEMS, INC.**

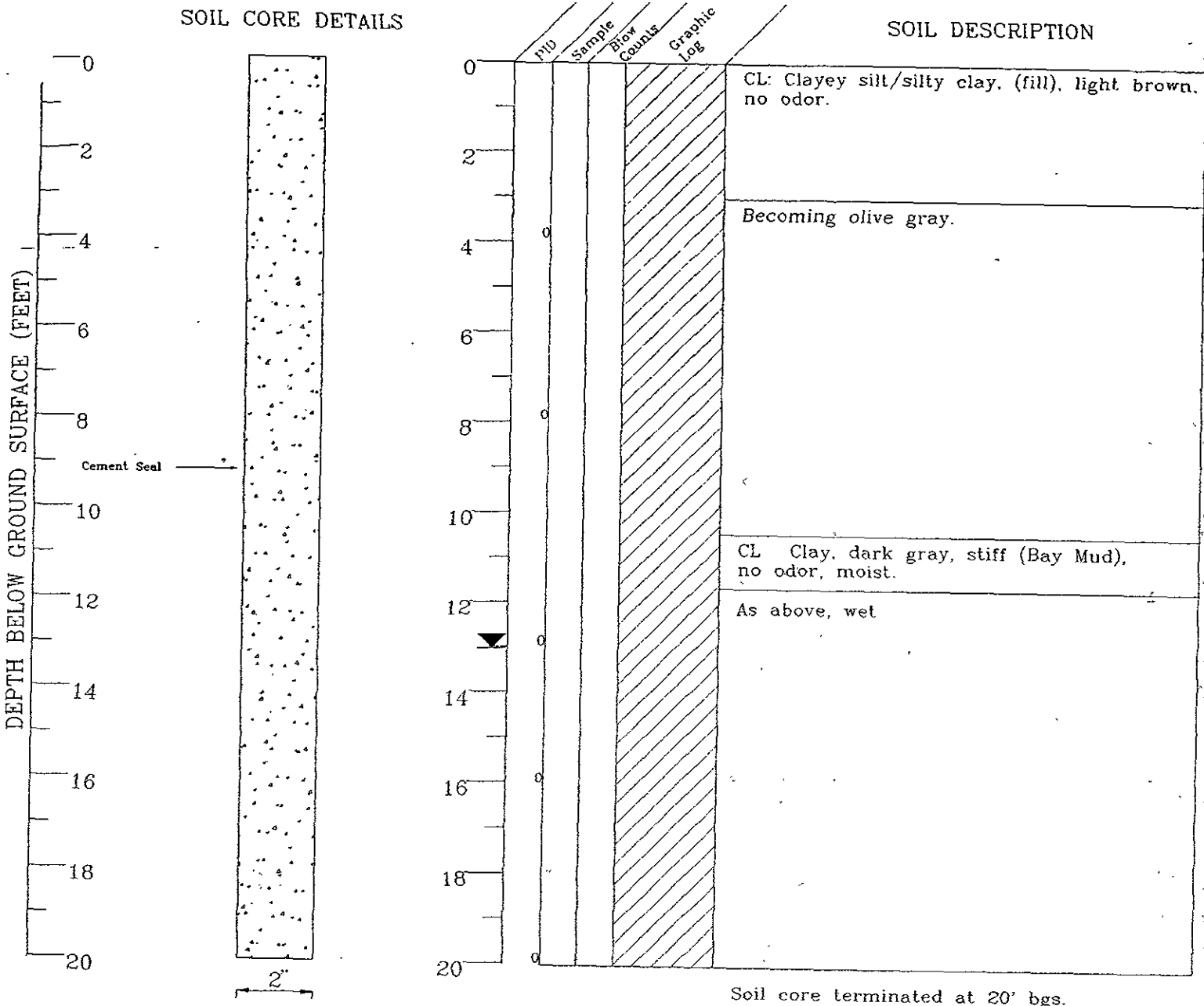
| EXPLANATION                 |                 |
|-----------------------------|-----------------|
| water level during drilling | gradational     |
| potentiometric water level  | NR no recovery  |
| drill sample                | CONTACTS        |
| chemical analysis sample    | --- certain     |
| grain analysis sample       | --- approximate |
| grab sample                 | --- uncertain   |

**SITE:**  
 E. BAY DISCH. AUTH.  
 2651 GRANT AVENUE  
 SAN LORENZO, CA  
 PROJECT #157-531B

---

**CLIENT:**  
 E. BAY DISCHARGERS AUTH.  
 2651 GRANT AVENUE  
 SAN LORENZO CALIFORNIA

# LOG OF SOIL BORING SC4



Logged by: DAS  
 Inspector: N/A  
 Date: 2/15/00

Drilling Contractor: Fast-Tek  
 Drilling Method: DPT  
 Driller: Eric

Sanitary Seal/Backfill: Cement  
 Sampler Type: Acetate Sleeve  
 Total Boring Depth: 20 feet



| EXPLANATION |                             |
|-------------|-----------------------------|
|             | water level during drilling |
|             | potentiometric water level  |
|             | drill sample                |
|             | chemical analysis sample    |
|             | geotech. analysis sample    |
|             | grab sample                 |

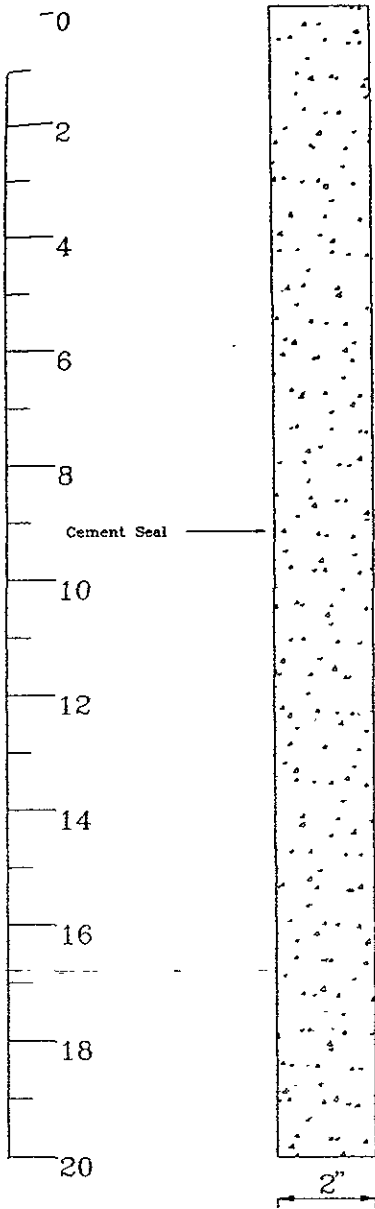
**SITE:**

E BAY DISCH AUTH.  
 2651 GRANT AVENUE  
 SAN LORENZO, CA  
 PROJECT #157-544B

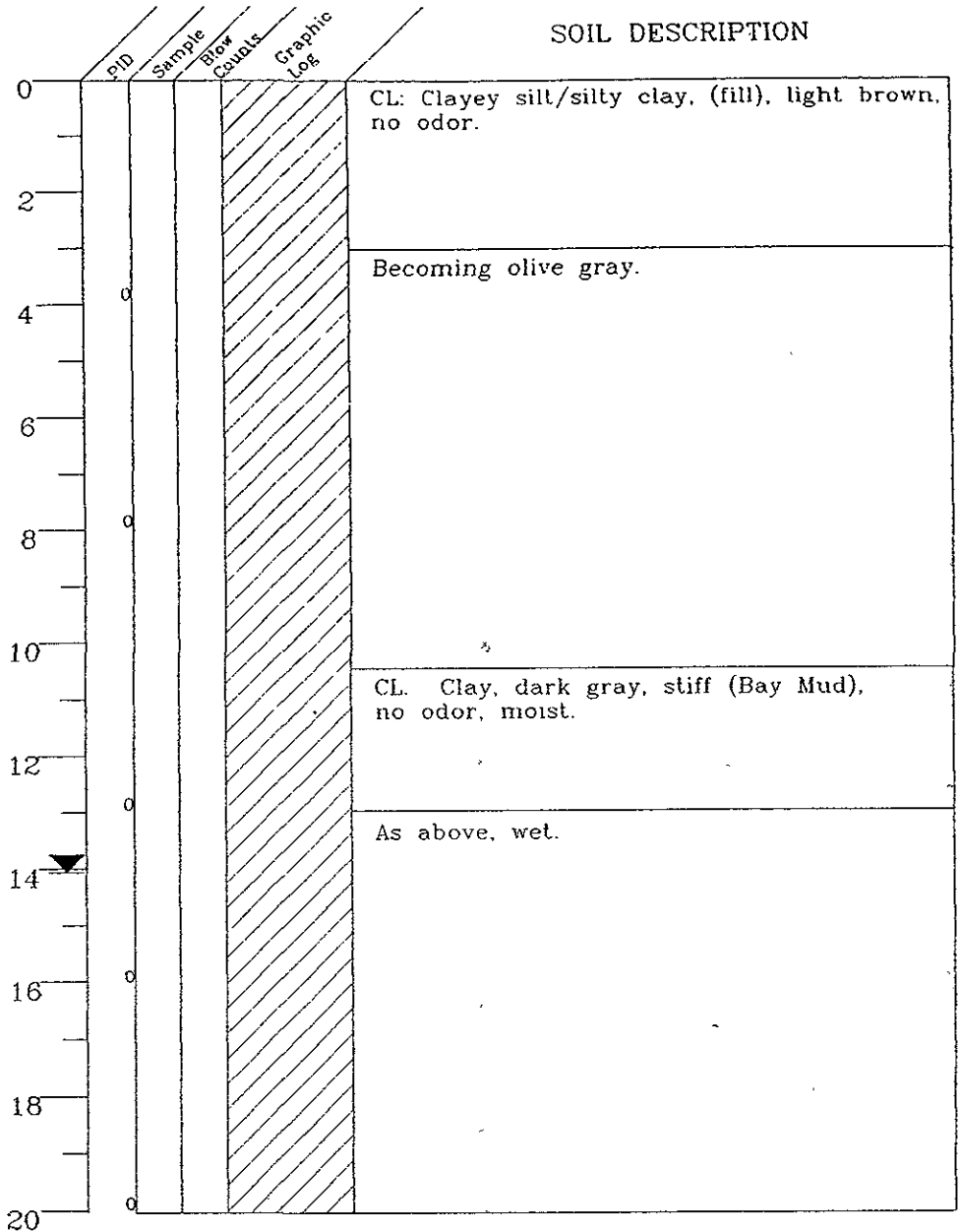
**CLIENT:**

E BAY DISCHARGERS AUTH  
 2651 GRANT AVENUE  
 SAN LORENZO CALIFORNIA

## SOIL CORE DETAILS



## SOIL DESCRIPTION



Soil core terminated at 20' bgs.

Logged by: DAS  
Inspector: N/A  
Date: 2/15/00

Drilling Contractor: Fast-Tek  
Drilling Method: DPT  
Driller: Eric

Sanitary Seal/Backfill: Cement  
Sampler Type: Acetate Sleeve  
Total Boring Depth: 20 feet



**ENVIRONMENTAL  
BIO-SYSTEMS, INC.**

### EXPLANATION

- water level during drilling
- potentiometric water level
- drill sample
- chemical analysis sample
- geotech analysis sample
- grab sample
- gradational
- NR no recovery
- CONTACTED
- certain
- approximate
- uncertain

### SITE:

E. BAY DISCH. AUTH.  
2651 GRANT AVENUE  
SAN LORENZO, CA  
PROJECT #157-544B

### CLIENT:

E. BAY DISCHARGERS AUTH  
2651 GRANT AVENUE  
SAN LORENZO CALIFORNIA