

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

November 14, 1996

STID 4005

**REMEDIAL ACTION COMPLETION CERTIFICATION**

Mr. Andrew Clark-Clough  
City of Oakland, Environmental Affairs  
1333 Broadway, Suite 333  
Oakland CA 94612

RE: Emergency Operations Center, 3304 Joaquin Miller Road, Oakland, California 94602

Dear Mr. Clark-Clough,

This letter confirms the completion of site investigation and remedial action for one 1000-gallon diesel underground storage tank at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including current land use, and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to the regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations. (If a change in land use is proposed, the owner must promptly notify this agency.)

Please contact Dale Klettke at (510) 567-6880 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mee Ling Tung', is written over a light blue horizontal line.

Mee Ling Tung  
Director, Department of Environmental Health

c: Kevin Graves, RWQCB  
Lori Casias, SWRCB w/enclosure  
Joseph A. Cotton, 1333 Broadway, Suite 330, Oakland, CA 94612  
Dale Klettke--files

4005racc.dkt

CASE CLOSURE SUMMARY  
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: February 8, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy  
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700  
Responsible staff person: D. Klettke Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Emergency Operations Center  
Site facility address: 3304 Joaquin Miller Road, Oakland, CA 94602  
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4005  
URF filing date: SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:  
Andrew Clark-Clough, City of Oakland, Environmental Affairs  
1333 Broadway, Suite 333, Oakland, CA 94612 (510)238-6361

| <u>Tank No:</u> | <u>Size in gal.:</u> | <u>Contents:</u> | <u>Closed in-place or removed?:</u> | <u>Date:</u> |
|-----------------|----------------------|------------------|-------------------------------------|--------------|
| 1               | 1000-gallon          | diesel           | removed                             | 2/3/93       |

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown  
Site characterization complete? YES  
Date approved by oversight agency: March 1, 1993  
Monitoring Wells installed? None Number: N/A  
Proper screened interval? N/A  
Highest GW depth below ground surface: N/A Lowest depth: N/A  
Flow direction: currently unknown-wells not installed  
Most sensitive current use: outdoor amphitheater  
Are drinking water wells affected? unknown Aquifer name: N/A  
Is surface water affected? No Nearest affected SW name: N/A  
Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County  
1131 Harbor Bay Pkwy  
Alameda, CA 94502

**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> |
|--|-----------------------------------|---|-------------|
| Tank                                     | 1-1000 gallon                     | disposal/H & H Ship Service<br>San Francisco, CA 94107    | 2/3/93      |
| Piping<br>Free Product<br>Soil           | 100 cubic yards                   | Redwood Landfill<br>Novato, CA                            | 4/20/93     |
| Groundwater<br>Barrels<br>Tank Contents* | 630-gallons                       | disposal/ Alviso Independent<br>Oil Inc. Alviso, CA 95002 | 1/29/93     |

\*Tank contents consisted of a diesel fuel and water mixture.

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

| <u>Contaminant</u> | <u>Soil (ppm)</u> |              | <u>Water (ppb)</u> |              |
|--------------------|-------------------|--------------|--------------------|--------------|
|                    | <u>Before</u>     | <u>After</u> | <u>Before</u>      | <u>After</u> |
| TPH (Gas)          | <5                | N/A          |                    |              |
| TPH (Diesel)       | 1000              | <10          |                    |              |
| TPH (Motor Oil)    | <25               | N/A          |                    |              |
| Benzene            | <0.001            | <0.001       |                    |              |
| Toluene            | 0.013             | <0.001       |                    |              |
| Ethyl benzene      | 0.129             | <0.001       |                    |              |
| Xylenes            | 0.521             | <0.001       |                    |              |
| Oil & Grease       |                   |              |                    |              |
| Heavy metals       |                   |              |                    |              |
| Other              |                   |              |                    |              |

**Comments (Depth of Remediation, etc.):**

On January 29, 1993 approximately 630 gallons of a diesel and water mixture was pumped out of the diesel tank and disposed of by North Valley Oil Company. On February 3, 1993, Tank Protect Engineering (TPE) removed a 1000-gallon underground diesel fuel tank. Two soil samples (1 and 2) collected from beneath the tank at a depth of 9' below ground surface (bgs) detected concentrations of total extractable hydrocarbons (TEH) as diesel of 84 mg/kg and 1000 mg/kg, respectively. No benzene was detected in any of the original tank closure soil samples 1 and 2. The soils around the tank fill inlet were discolored.

On March 10, 1993, TPE deepened and enlarged the excavation in an attempt to remove the contaminated soils. Due to the rupturing of a water line, soil remediation activities were suspended. On April 5, 1993 the excavation was deepened to a depth of 14 feet and two bottom soil samples (5 and 6) were collected at an approximate depth of 14' bgs. In addition, four sidewall soil samples (7, 8, 9 and 10) were collected at an approximate depth

of 10' bgs. These confirmation soil samples were found to contain non-detectable concentrations of TEH as diesel and BTEX. Except for the occurrence of groundwater from the broken water line, no groundwater was encountered in the excavation. The excavation was then backfilled with clean fill and compacted to a 90 % relative compaction in accordance with ASTM methods and procedures.

On April 20, 1993, approximately 100 cubic yards of soil were transported and disposed of at the Redwood Landfill in Novato, California.

See Section VII, Additional Comments, etc...

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**  
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**  
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: **N/A**  
Number Decommissioned: **N/A** Number Retained: **N/A**  
List enforcement actions taken: **None**

List enforcement actions rescinded: **N/A**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Dale Klettke Title: Hazardous Materials Specialist

Signature: *Dale Klettke* Date: 2/8/96

Reviewed by

Name: Jennifer Eberle Title: Hazardous Materials Specialist

Signature: *J Eberle* Date: 2-8-96

Name: Barney Chan Title: Hazardous Materials Specialist

Signature: *Barney Chan* Date: 2/8/96

VI. RWQCB NOTIFICATION

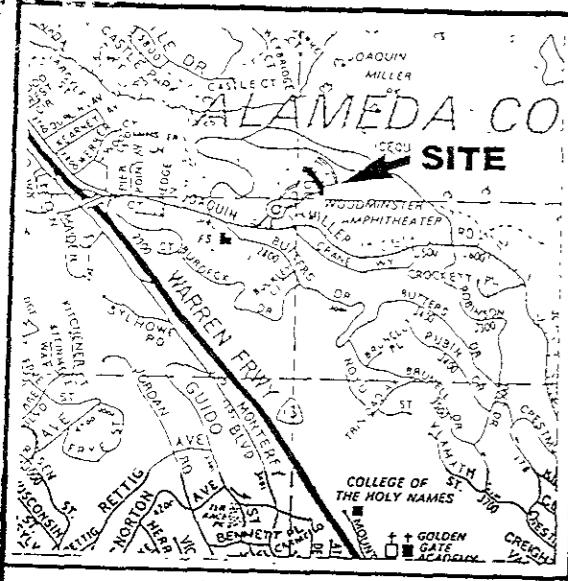
Date Submitted to RB: 4/18/96 RB Response: *Approved*

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: *Kevin Graves* Date: 5/5/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

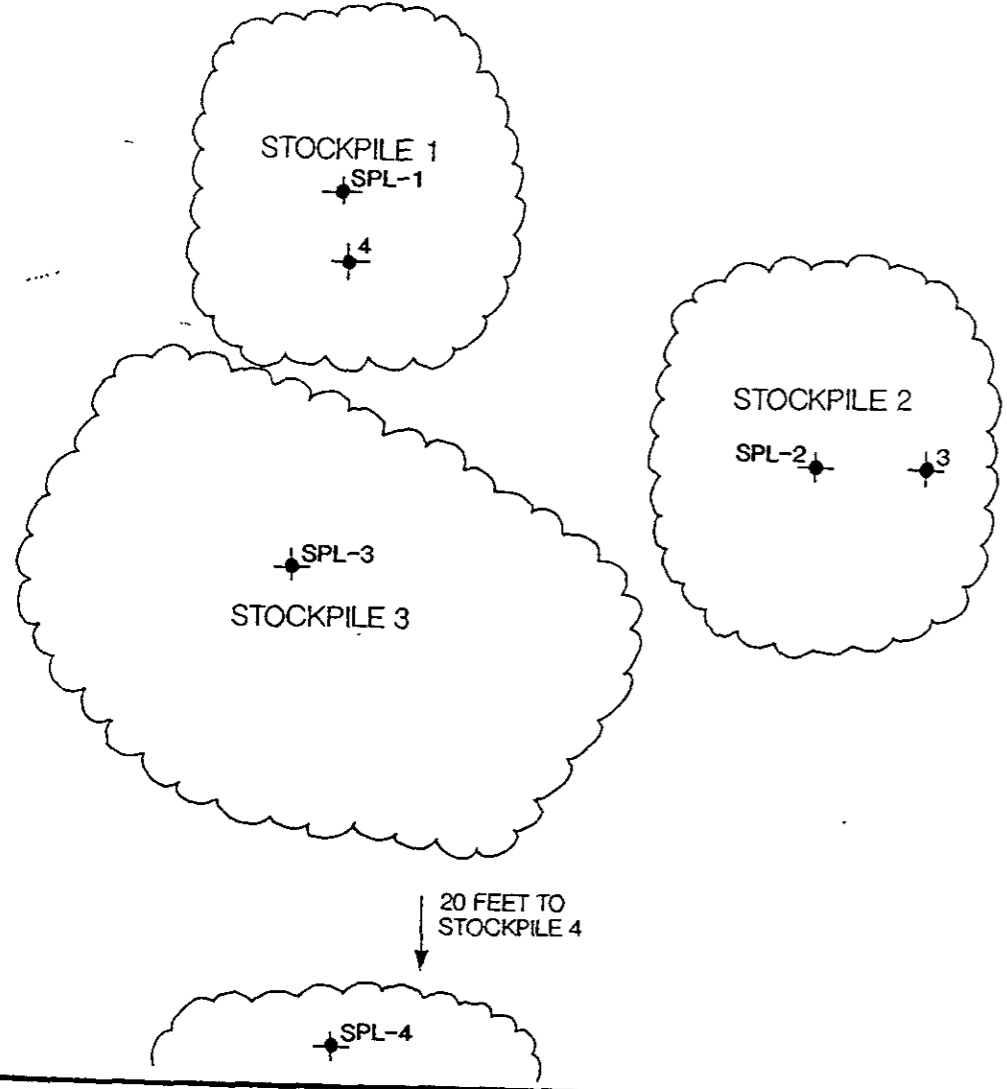
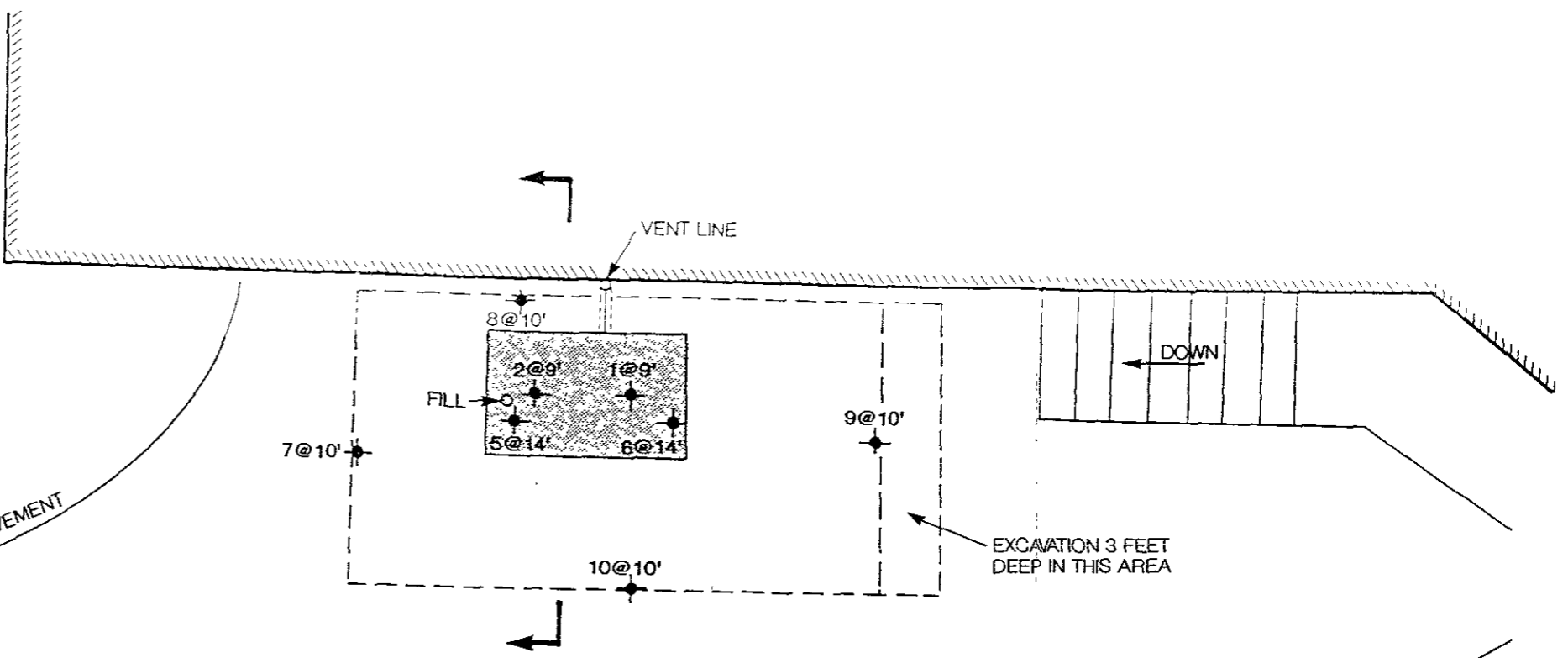
The analytical test results obtained from the excavation indicate that all diesel contaminated soils were removed from the tank area. Diesel and BTEX were not detected in soil samples obtained from the final tank excavation limits at concentrations above reporting limits. In addition, groundwater was not encountered during the excavation activities. Based on the limited extent of soil contamination, it appears that only small quantities of diesel were involved in the previous release. Therefore, it appears that this site qualifies as a "Low Risk Soil Case" as defined in the Regional Water Quality Control Boards "Interim Guidelines on Required Cleanup at Low Risk Fuel Sites", and that no additional remedial investigations are warranted for this site.



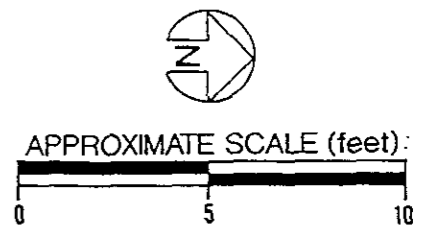
VICINITY MAP



EDGE OF PAVEMENT

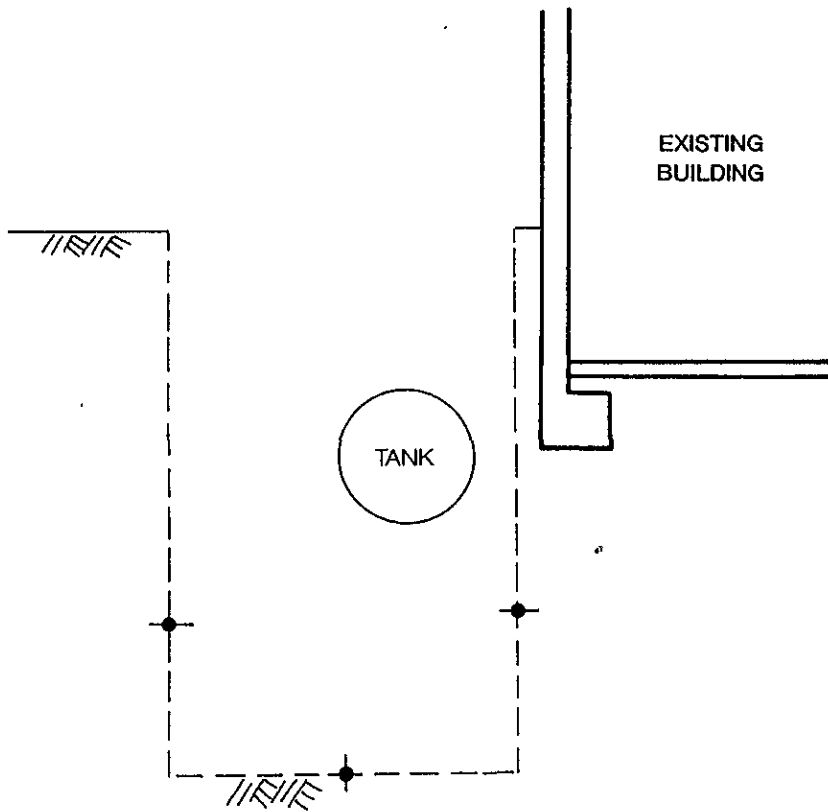


|  |                        |
|--|------------------------|
|  | EXISTING BUILDING      |
|  | TANK EXCAVATION LIMITS |
|  | TANK LOCATION          |
|  | SOIL SAMPLE LOCATION   |
|  | CROSS SECTION          |



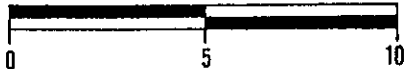
|                                    |                 |                       |          |
|------------------------------------|-----------------|-----------------------|----------|
| SITE PLAN                          |                 |                       | <b>1</b> |
| WOODMINSTER AMPHITHEATER - OAKLAND |                 |                       |          |
| JOB NUMBER<br>272.028              | DATE<br>4/14/93 | APPROVED<br><i>ME</i> |          |

Subsurface Consultants



|     |                            |
|-----|----------------------------|
| --- | LIMITS OF SOIL REMEDIATION |
| ⊕   | SOIL SAMPLE LOCATION       |

APPROXIMATE SCALE (feet)



### CROSS SECTION AND SAMPLING PLAN

# Subsurface Consultants

WOODMINSTER AMPHITHEATER - OAKLAND

JOB NUMBER  
272.028

DATE  
4/14/93

APPROVED  
*UK*

PLATE

# 2

Ms. Julie Carver  
City of Oakland  
SCI 272.028  
May 4, 1993  
Page 2

■ Subsurface Consultants, Inc.

and encapsulated in plastic sheeting. Two bottom and four sidewall samples were obtained from the excavation, at locations selected by Ms. Jennifer Eberle of the Alameda County Health Care Services Agency (ACHCSA). The sample locations are shown on Plate 1.

The samples were obtained from the bucket of a backhoe. Prior to obtaining the samples, approximately three inches of soil was removed from the exposed surface. A pre-cleaned 2-inch-diameter brass liner was then driven into the soil using a mallet. The liner ends were subsequently covered with Teflon sheeting and plastic caps prior to sealing them with duct tape. The samples were stored in an iced cooler until delivery to the analytical laboratory. The soil samples were transferred to the laboratory under Chain-of-Custody documents, copies of which are attached.

Eureka Laboratories, Inc., a laboratory certified by the California Department of Health Services (DHS), provided analytical services. The samples were analyzed for (1) total extractable hydrocarbons (TEH), as diesel, using EPA method 8015 modified, and (2) benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA 8020.

The analytical test results are summarized below.

TABLE 1  
HYDROCARBON CONCENTRATIONS IN CONFIRMATION SOIL SAMPLES

| <u>Sample Designation</u> | <u>TEH (mg/kg)<sup>1</sup></u> | <u>Benzene (ug/kg)<sup>2</sup></u> | <u>Toluene (ug/kg)</u> | <u>Ethyl-Benzene (ug/kg)</u> | <u>Xylenes (ug/kg)</u> |
|---------------------------|--------------------------------|------------------------------------|------------------------|------------------------------|------------------------|
| 1 @ 9'                    | 84                             | <1                                 | <1                     | <1                           | <1                     |
| 2 @ 9'                    | 1000                           | <1                                 | 13                     | 129                          | 521                    |
| 5 @ 14'                   | <10                            | <1                                 | <1                     | <1                           | <1                     |
| 6 @ 14'                   | <10                            | <1                                 | <1                     | <1                           | <1                     |
| 7 @ 10'                   | <10                            | <1                                 | <1                     | <1                           | <1                     |
| 8 @ 10'                   | <10                            | <1                                 | <1                     | <1                           | <1                     |
| 9 @ 10'                   | <10                            | <1                                 | <1                     | <1                           | <1                     |
| 10 @ 10'                  | <10                            | <1                                 | <1                     | <1                           | <1                     |

<sup>1</sup> mg/kg = milligrams per kilogram

<sup>2</sup> ug/kg = micrograms per kilogram



Soil Disposal

On April 9, 1993, a representative of TPE obtained four soil samples from the stockpiled soil (one from each stockpile). The samples were composited and analyzed for diesel, benzene, toluene, xylene and ethylbenzene (BTXE) and reactivity, corrosivity and ignitability (RCI) by Trace Analysis Laboratory, Inc. The analytical test results are summarized in Table 3. The analytical test reports are attached.

On April 20, 1993, approximately 100 cubic yards (loose) of soil was transported to and disposed of at the Redwood Landfill in Novato, California, by Trident Truckline Inc. An SCI representative observed the loading of the stockpiled soil and called Redwood Landfill to confirm soil disposal at their facility.

TABLE 3  
CONTAMINANT CONCENTRATIONS IN SOIL

| <u>Sample</u>          | <u>TEH<sup>1</sup></u><br><u>(mg/kg)<sup>2</sup></u> | <u>Benzene</u><br><u>(ug/kg)<sup>3</sup></u> | <u>Toluene</u><br><u>(ug/kg)</u> | <u>Ethyl</u><br><u>Benzene</u><br><u>(ug/kg)</u> | <u>Xylenes</u><br><u>(ug/kg)</u> | <u>Cyanide</u><br><u>(ug/kg)</u> | <u>Sulfide</u><br><u>(ug/kg)</u> |
|------------------------|--|--|----------------------------------|--|----------------------------------|----------------------------------|----------------------------------|
| 3                      | 692  | <1   | 45                               | 82   | 300                              | -- <sup>4</sup>                  | --                               |
| 4                      | <10  | <1   | 9                                | <1   | 27                               | --                               | --                               |
| Composite <sup>5</sup> | 40   | <5   | <5                               | <5   | <15                              | <300                             | <1000                            |

<sup>1</sup> Total extractable hydrocarbons, as diesel

<sup>2</sup> Milligrams per kilogram

<sup>3</sup> Micrograms per Kilogram

<sup>4</sup> Test not requested

<sup>5</sup> Composite of samples SPL-1, SPL-2, SPL-3 and SPL-4. Samples obtained by TPE.