

**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**

ALEX BRISCOE, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

January 2, 2013

Chris Wilson
CalTrans
111 Grand Avenue
Oakland, CA 94612
(Sent via e-mail to: chris_wilson@dot.ca.gov)

Dvora Kotschedoff
Wells Fargo Bank Trust, Downes Trust
Unknown
Unknown

Subject: Case Closure for Fuel Leak Case No. RO0000347 and GeoTracker Global ID T0600100459, Sutta & Company, 3401 Wood St., Oakland, CA 94608

Dear Mr. Wilson and Ms. Kotschedoff:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Residual pollution remaining in soil beneath the site includes TPH as diesel (TPHd) at concentrations of up to 24 ppm.
- Maximum concentrations of up to 400 ppb TPHd remain in groundwater beneath the site.
- Case closure for the fuel leak site is granted for industrial land use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated.
- This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination posing a nuisance for subsurface work.

If you have any questions, please call Barbara Jakub at (510) 639-1287. Thank you.

Sincerely,

Donna L. Drogos, P.E.
Division Chief

Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

Mr. Wilson and Ms. Kotschedoff
January 2, 2013
Page 2

cc:

Leroy Griffin (w/enc via electronic mail:
lgriffin@oaklandnet.com)
Oakland, Fire Department

Barbara Jakub (w/ enc via e-mail), D. Drogos (w/ enc via e-mail), T. Le (via e-mail and w/orig enc)
Geotracker

ALAMEDA COUNTY
**HEALTH CARE SERVICES
AGENCY**

ALEX BRISCOE, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

REMEDIAL ACTION COMPLETION CERTIFICATION

January 2, 2013

Chris Wilson
CalTrans
111 Grand Avenue
Oakland, CA 94612
(Sent via e-mail to: chris_wilson@dot.ca.gov)

Dvora Kotschedoff
Wells Fargo Bank Trust, Downes Trust
Unknown
Unknown

Subject: Case Closure for Fuel Leak Case No. RO0000347 and GeoTracker Global ID T0600100459, Sutta & Company, 3401 Wood St., Oakland, CA 94608

Dear Mr. Wilson and Ms. Kotschedoff:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly 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 former underground storage tank(s) 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(s) 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.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

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,


Ariu Levi
Director

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

I. AGENCY INFORMATION

Date: August 26, 2008

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 639-1287
Responsible Staff Person: Barbara Jakub	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Sutta & Company		
Site Facility Address: 3401 Wood Street, Oakland, CA 94608		
RB Case No.: 01-0505	Local Case No.: 4264	LOP Case No.: RO0000347
URF Filing Date: 11/04/1991	Geotracker ID: T0600100459	APN: 007-0604-001-00
Responsible Parties	Addresses	Phone Numbers
Randy Barker, CalTrans,	111 Grand Ave., Oakland, CA 94612	(510)286-6121
Wells Fargo Bank, Downes Trust, Dvora Kotschedoff, Wayne W Downes, 3401 Wood St., Oakland, 94608	525 Market St. 18th Floor, San Francisco, CA 94105	

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	1,000	Diesel	Removed	8/14/1991
Piping				

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Diesel fuel released as a result of overfill according to URF.	
Site characterization complete? Yes	Date Approved By Oversight Agency:

Monitoring wells installed? Yes	Number: 3	Proper-screened interval? Yes
Highest GW Depth Below Ground Surface: 1.35	Lowest Depth: 3.57	Flow Direction: East, Southwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No production wells were identified in the area.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: San Francisco Bay
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health (Local CUPA where applicable) and DTSC

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1-1,000 gallon UST	Removed and disposed/ unknown destination	1991
Piping	----	----	----
Free Product	----	----	----
Soil	42 yd ³	Disposed at GSX/Laidlaw Class I in Buttonwillow, CA	1991
Groundwater	----	----	----

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments x – x for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	---	---	<50	<50
TPH (Diesel)	88,000 ^a	24	400	400
Oil and Grease	Not analyzed	Not analyzed	Not analyzed	Not analyzed
Benzene	<0.005	<0.005	<0.5	<0.5
Toluene	<0.005	<0.005	<0.5	<0.5
Ethylbenzene	<0.005	<0.005	<0.5	<0.5
Xylenes	0.398	<0.005	<0.5	<0.5
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	32*	32**	0.14 [†]	0.14 [‡]
MTBE	Not Analyzed ^b	Not Analyzed ^b	Not Analyzed ^b	Not Analyzed ^b
Other (8240/8270)				

* 0.5 ppm Cd, 23 ppm Cr, 32 ppm Pb, 30 ppm Ni, 30 ppm Zn

** 0.5 ppm Cd, 23 ppm Cr, 32 ppm Pb, 30 ppm Ni, 30 ppm Zn

† ND ppb Cd, 0.14 ppb Cr, 0.07 ppb Pb, 0.12 ppb Ni, Not Analyzed Zn

‡ ND ppb Cd, 0.14 ppb Cr, 0.07 ppb Pb, 0.12 ppb Ni, Not Analyzed Zn

^a Excavation sample for water was labeled aqueous by the consultant but analyzed and reported as soil by the laboratory.

^b MTBE and other oxygenates not analyzed. Tank reported to have stored diesel fuel only.

Site History and Description of Corrective Actions:

August 14, 1991 One- 1,000 gallon diesel UST was removed from the site. Soil samples indicated residual diesel and the area was overexcavated on September 5, 1991. Remaining concentrations of 86 ppm diesel in soil were overexcavated on October 15, 1991.

Three groundwater monitoring wells were installed on-site in May 1995. The three subsequent monitoring events did not detect TPHg or BTEX in site groundwater. However, diesel was detected in two wells during the last monitoring event at concentrations of 400 µg/L.

The DTSC became the lead for the rest of the site that did not include the diesel UST. DTSC closed their portion of the site in 2007.

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? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for industrial land use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated. This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination posing a nuisance for subsurface work.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 3	Number Retained: 3
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

<p>Considerations and/or Variances: This closure is issued for the diesel UST only. DTSC has issued closure for the rest of the site in June 18, 2007. The site is currently part of the footing for Highway 580 and is expected to remain so. UST reported to store only diesel fuel; MTBE analysis not performed.</p> <p>Conclusion: Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary for the diesel UST. ACEH staff recommend case closure for this site.</p>

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Barbara Jakub	Title: Hazardous Materials Specialist
Signature: <i>Barbara Jakub</i>	Date: 9/9/08
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: <i>Donna L. Drogos</i>	Date: 09/09/08

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>Cherie McCaulou</i>	Date: <i>12/1/08</i>

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH:	Date of Well Decommissioning Report: -----	
All Monitoring Wells Decommissioned:	Number Decommissioned:	Number Retained:
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature:		Date:

Attachments:

1. Site Location Map
2. Site Plans: UST Location, Well Location, DTSC Boring location Maps
3. Excavation Soil and Water Analytical Data
4. Monitoring Well Soil Analytical Data
5. Groundwater Analytical and Water Elevation Data
6. Well Logs


This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

Post-it® Fax Note	7671	Date <i>12/3/08</i>	# of pages <i>1</i>
To <i>Barbara Jacob</i>	From <i>Cherie McCaulou</i>		
Co./Dept. <i>ACEH - LOP</i>	Co. <i>RWQCB</i>		
Phone # <i>(510) 639-1287</i>	Phone # <i>(510) 622-2342</i>		
Fax # <i>(510) 337-9335</i>	Fax # <i>(510) 622-2464</i>		

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB: 9/10/2008
Signature:	Date: 12/3/2008

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 12/5/2008	Date of Well Decommissioning Report: 12/20/2012	
All Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 3
Reason Wells Retained: Wells damaged and lost during freeway construction. At least one well thought to be removed by excavation for a bridge column footing. Efforts to find the wells by surveying, metal detection and hand digging have not uncovered any of the wells.		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: 	Date: 12/27/2012	

Attachments:

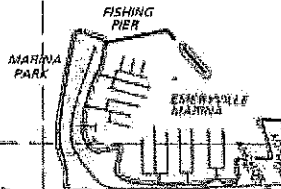
1. Site Location Map
2. Site Plans: UST Location, Well Location, DTSC Boring location Maps
3. Excavation Soil and Water Analytical Data
4. Monitoring Well Soil Analytical Data
5. Groundwater Analytical and Water Elevation Data
6. Well Logs

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

FRANCISCO BAY



Statute Miles



Site Location

OAKLAND

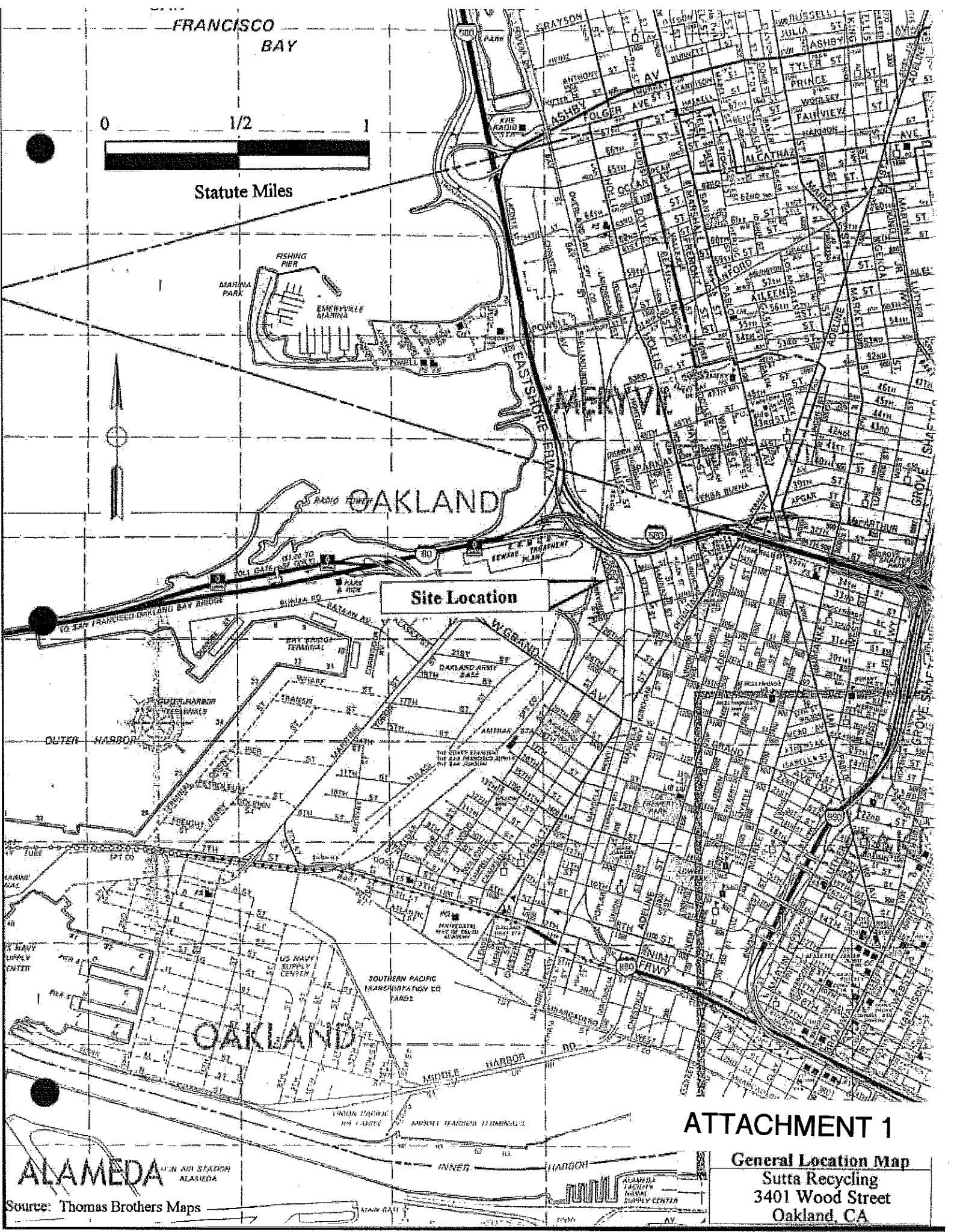
OAKLAND

ATTACHMENT 1

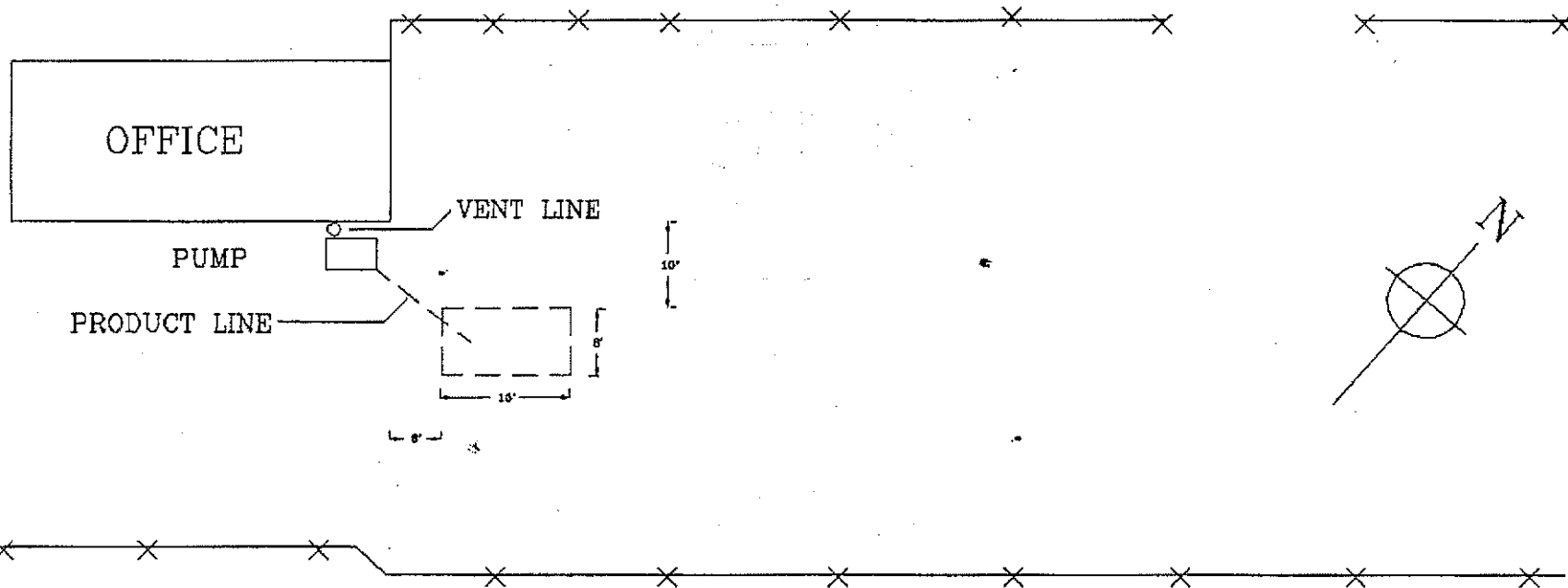
General Location Map
Sutta Recycling
3401 Wood Street
Oakland, CA

ALAMEDA

Source: Thomas Brothers Maps



WOOD STREET



LEGEND

[] Former Underground Storage Tank

ATTACHMENT 2

SUTTA CO.
3401 WOOD STREET
OAKLAND, CA

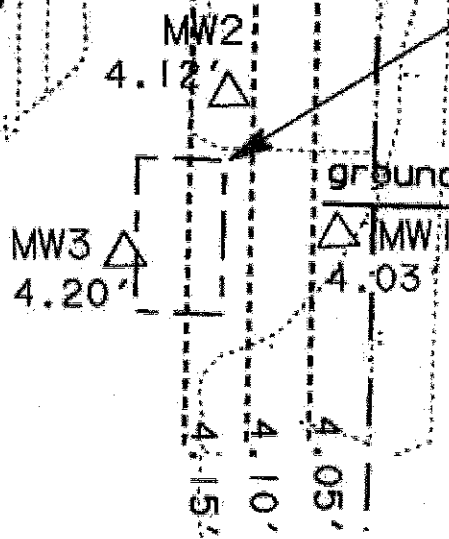
FIGURE: JOB NUMBER 8825-S DATE 6-26-19 DRAWN BY: M.S.A.

SCALE: 1"=30'



FORMER DIESEL
UST LOCATION

groundwater gradient=0.0049



34th St.

Wood St.

LEGEND

- △ MONITORING WELL LOCATION
- GROUNDWATER CONTOUR LINE

May 12, 1995

**GROUNDWATER TABLE
CONTOUR MAP**
Sutta Recycling
3401 Wood Street
Oakland, CA

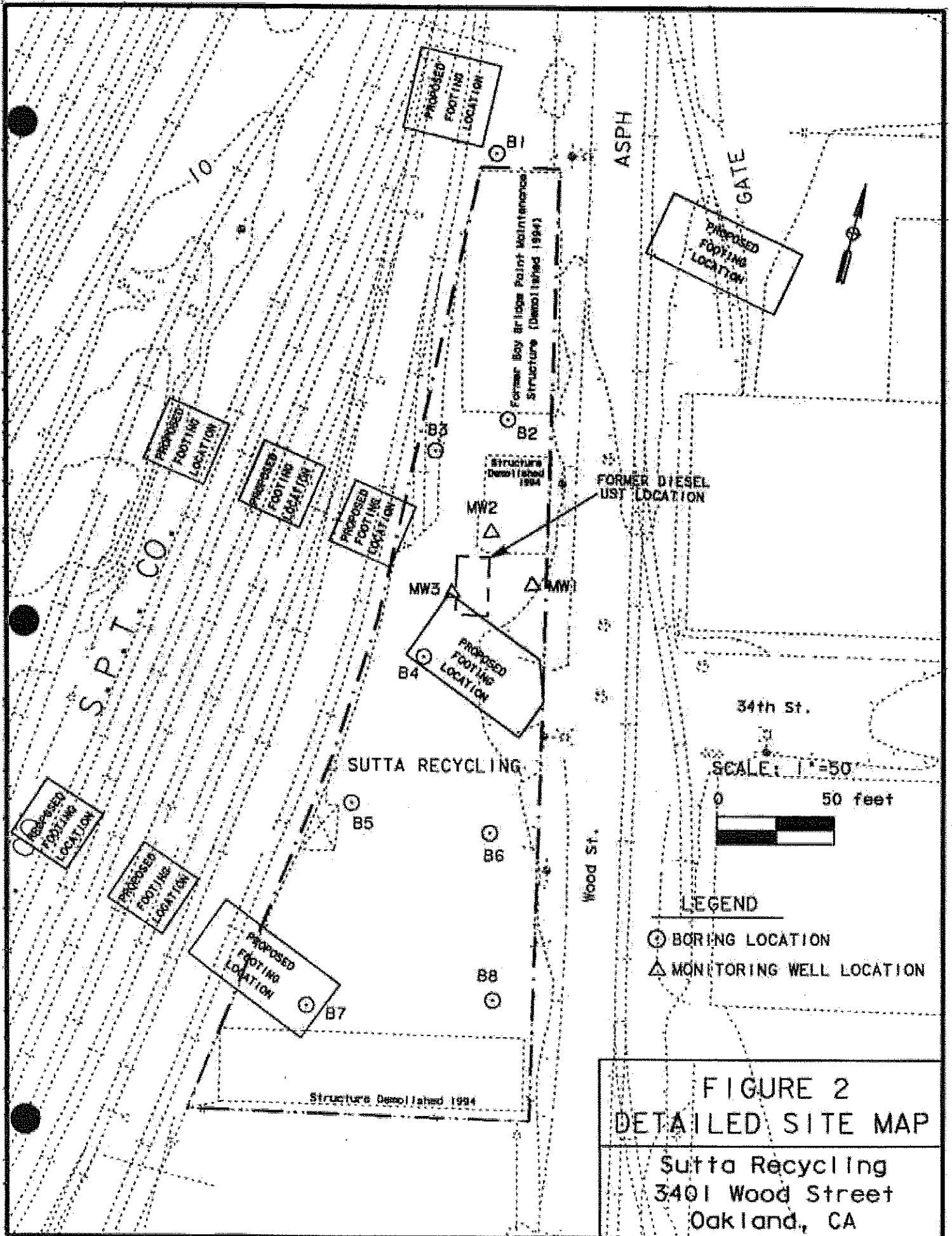


FIGURE 2
DETAILED SITE MAP
 Sutta Recycling
 3401 Wood Street
 Oakland, CA

from the north, south, east, and west sidewalls. On October 15, 1991, the site was revisited for further sidewall overexcavation and sampling. Samples were taken from the north and south sidewalls. Sampling was conducted under the direction of the ACHCSA.

Sampling protocol for soil and water samples may be found in C&Os standard operating procedures (SOP), attached.

Samples were analyzed for petroleum hydrocarbons as diesel (TPHd), and benzene, toluene, xylenes, and ethylbenzene (BTXE) [3550 GCFID + BTXE]. Results of the analyses are listed in Table I.

* 88,000 - water sample listed as soil by laboratory

Table I Analytic results summary.

DATE	SAMPLE	MATRIX	LOCATION	TPHd ppm	B ppb	T ppb	X ppb	E ppb
REPORTING LIMITS - WATER SAMPLES				200	0.5	0.5	0.5	0.3
8/14/91	AQ-1	WATER	Excavation Water	ND	ND	ND	2*	ND
REPORTING LIMITS - SOIL SAMPLES				5	5	5	5	5
8/14/91	S-1	SOIL	NORTH @ 6' BGS	130*	ND	ND	ND	ND
8/14/91	S-2	SOIL	SOUTH @ 6' BGS	49	ND	ND	ND	ND
8/14/91	S-3	SOIL	STOCKPILE	5300	ND	ND	398	ND
9/5/91	S-1	SOIL	NORTH SIDEWALL	86	ND	ND	ND	ND
9/5/91	S-2	SOIL	WEST SIDEWALL	ND	ND	ND	ND	ND
9/5/91	S-3	SOIL	SOUTH SIDEWALL	ND	ND	ND	ND	ND
9/5/91	S-4	SOIL	EAST SIDEWALL	18	ND	ND	ND	ND
10/15/91	S-10	SOIL	NORTH SIDEWALL	ND	ND	ND	ND	ND
10/15/91	S-11	SOIL	SOUTH SIDEWALL	ND	ND	ND	ND	ND
TPHd Total petroleum hydrocarbons as diesel B Benzene T Toluene X Total xylenes E Ethylbenzene				ppm Parts per million (mg/Kg) ppb Parts per billion (µg/Kg) ND Not detected (below reporting limits) * Values ≤ 100 ppm have reporting limits of 50 ppm; values < 100 ppm have reporting limits of 10 ppm.				

24

Table 1: Sutta Recycling Analytical Results

Sample No.	Depth (ft. bgs)	Hydrocarbons (mg/kg)				6010 Metals (mg/kg)																			Soluble Metals (mg/L)	Soluble Lead (WET)
		8015-m Diesel	8015-m Gasoline	418.1 TRPH	TTL	500	500	10,000	75	100	2500	8000	2500	1000	20	3500	2000	100	500	700	2400	5000	500			
						STLC	15	5	100	0.75	1	560	80	25	5	0.2	350	20	1	5	7	24	250	5		
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	7195 Chromium VI					
B1	1	ND	-	ND	ND	3.4	22.0	ND	ND	11.0	2.7	2.2	2.1	ND	ND	13.0	ND	ND	ND	6.9	7.8	-	-			
B1	4	ND	-	ND	ND	11.0	25.0	ND	0.8	21.0	2.5	9.7	9.5	0.09	ND	18.0	ND	ND	ND	25.0	34.0	-	-			
B1	8	ND	-	ND	ND	19.0	24.0	ND	1.4	18.0	5.2	10.0	8.7	ND	ND	27.0	ND	ND	ND	19.0	32.0	-	-			
B1 Water		-	-	ND	-	0.06	2.40	-	0.005	0.35	-	-	0.22	ND	-	0.44	ND	ND	-	-	-	-	-			
B2	1	-	ND	310.0	ND	1.9	54.0	ND	0.90	12.0	2.9	15.0	490.0	0.11	ND	12.0	ND	ND	ND	9.9	92.0	ND	12.0			
B2	4	-	ND	ND	ND	12	24.0	ND	1.00	12.0	5.8	7.4	7.2	ND	ND	20.0	ND	ND	ND	15.0	22.0	ND	-			
B3	1	-	ND	ND	-	7.5	37.0	-	ND	13.0	-	-	5.9	ND	-	12.0	ND	ND	-	-	-	-	ND			
B3	4	-	ND	ND	-	6.2	30.0	-	ND	11.0	-	-	5.7	ND	-	16.0	ND	ND	-	-	-	-	ND			
B3 Water		-	-	ND	-	0.25	8.10	-	0.038	1.00	-	-	4.90	0.006	-	1.90	ND	ND	-	-	-	-	-			
B4	1	ND	-	ND	-	ND	23.0	-	ND	2.6	-	-	16.0	ND	-	ND	ND	ND	-	-	-	-	-			
B4	4	ND	-	11	-	11.0	120.0	-	ND	17.0	-	-	7.0	ND	-	28.0	ND	ND	-	-	-	-	-			
B4	8	ND	-	ND	-	3.8	19.0	-	ND	23.0	-	-	7.1	0.08	-	25.0	ND	ND	-	-	-	-	-			
B5	1	-	ND	ND	-	15.0	180.0	-	0.9	12.0	-	-	8.4	0.08	-	16.0	ND	ND	-	-	-	-	-			
B5	4	-	ND	ND	-	4.4	62.0	-	ND	12.0	-	-	5.5	ND	-	11.0	ND	ND	-	-	-	-	-			
B6	1	ND	-	ND	ND	8.0	150.0	ND	1.0	13.0	4.4	9.2	6.3	0.06	ND	16.0	ND	ND	ND	17.0	32.0	ND	-			
B6	4	ND	-	ND	ND	10.0	40.0	ND	0.5	19.0	2.9	6.8	7.1	0.06	ND	15.0	ND	ND	ND	20.0	23.0	ND	-			
B6 Water		-	-	ND	-	0.24	3.80	-	0.024	0.37	-	-	1.30	0.01	-	0.33	ND	ND	-	-	-	-	-			
B7	1	-	ND	ND	ND	9.0	79.0	ND	0.6	ND	1.4	1.5	6.4	0.24	ND	ND	ND	ND	ND	7.2	33.0	ND	-			
B7	4	-	ND	ND	ND	13.0	25.0	ND	0.7	23.0	6.0	15.0	9.9	0.11	ND	27.0	ND	ND	ND	29.0	33.0	ND	-			
B7	8	-	ND	ND	ND	19.0	20.0	ND	0.7	18.0	4.6	7.5	5.7	ND	ND	32.0	ND	ND	ND	16.0	34.0	ND	-			
B7 Water		-	-	ND	-	0.10	1.50	-	0.013	0.18	-	-	0.10	0.001	-	0.20	ND	ND	-	-	-	-	-			
B8	1	ND	-	ND	-	6.8	95.0	-	ND	9.6	-	-	3.7	0.22	-	19.0	ND	ND	-	-	-	-	ND			
B8	4	ND	-	ND	-	11.0	24.0	-	ND	19.0	-	-	7.0	0.06	-	24.0	ND	ND	-	-	-	-	ND			
MW1	1	ND	-	ND	-	3.7	16.0	-	ND	13.0	-	-	8.1	ND	-	15.0	ND	ND	-	-	-	-	-			
MW1	4	ND	-	14	-	4.5	20.0	-	ND	21.0	-	-	13.0	0.14	-	27.0	ND	ND	-	-	-	-	-			
MW1	8	ND	-	ND	-	17.0	12.0	-	ND	19.0	-	-	5.3	ND	-	20.0	ND	ND	-	-	-	-	-			
MW2	1	ND	-	ND	ND	2.0	22.0	ND	ND	5.5	ND	1.1	2.8	ND	ND	2.8	ND	ND	ND	5.2	5.3	ND	-			
MW2	4	ND	-	ND	ND	9.1	38.0	ND	0.8	14.0	4.7	5.5	4.1	ND	ND	23.0	ND	ND	ND	13.0	16.0	ND	-			
MW2	8	ND	-	ND	ND	15.0	14.0	ND	1.5	17.0	4.7	7.6	5.9	ND	ND	24.0	ND	ND	ND	20.0	30.0	ND	-			
MW3	1	ND	-	370	-	8.3	73.0	-	0.5	13.0	-	-	32.0	0.11	-	21.0	ND	ND	-	-	-	-	-			
MW3	4	ND	-	ND	-	18.0	19.0	-	ND	22.0	-	-	12.0	0.13	-	30.0	ND	ND	-	-	-	-	-			
MW3	8	ND	-	ND	-	6.6	14.0	-	ND	23.0	-	-	6.0	ND	-	25.0	ND	ND	-	-	-	-	-			
MW1 Water		ND	ND	ND	-	ND	0.12	-	ND	0.14	-	-	0.05	ND	-	0.12	ND	ND	-	-	-	-	-			
MW2 Water		ND	ND	ND	-	ND	0.11	-	ND	0.09	-	-	0.07	ND	-	0.09	ND	ND	-	-	-	-	-			
MW3 Water		ND	ND	ND	-	ND	0.05	-	ND	0.04	-	-	0.02	ND	-	0.04	ND	ND	-	-	-	-	-			
Trip Blank		-	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

ND=Not Detected

-=Not Analyzed

Groundwater sample results are in mg/L

Table 1: Sutta Recycling Analytical Results

Sample No.	Depth (ft. bgs)	8240 VOCs (ug/kg)																											
		Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Methyl Ethyl Ketone	Carbon Tetrachloride	Chlorobenzene	Chloroethane	2-Chloroethylvinyl Ether	Chloroform	Chloromethane	Dibromochloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,2-Dichloropropane	Cis-1,3-Dichloropropene	Trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	Methylene Chloride	Methyl Isobutyl Ketone	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethene
B1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B3 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B4	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B4	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B6	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B7 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW2	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW2	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW3	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW3	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW3	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW1 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW2 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW3 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=Not Detected

--=Not Analyzed

Groundwater sample results are in ug/L

Table 1: Sutta Recycling Analytical Results

Sample No.	Depth (ft. bgs)	8240 VOCs (ug/kg) cont.								8270 Semi VOCs (ug/kg)																		
		Toluene	1,1,1-Trichloroethane	1,1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Total Xylenes	Phenol	Bis(2-Chloroethyl)Ether	2-Chlorophenol	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzyl Alcohol	1,2-Dichlorobenzene	2-Methylphenol	Bis(2-Chloroisopropyl)Ether	4-Methylphenol	N-Nitrosodi-N-Propylamine	Hexachloroethane	Nitrobenzene	Isophorone	2-Nitrophenol	2,4-Dimethylphenol	Benzoic Acid	Bis(2-Chloroethoxy)Methane	
B1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B3 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B4	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B4	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B4	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B6	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B7 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW2	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW2	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW3	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW3	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW3	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW1 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW2 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW3 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=Not Detected

--=Not Analyzed

Groundwater sample results are in ug/L

Table 1: Sutta Recycling Groundwater Analytical Results

MWell #	Date of Sampling	Hydrocarbons (mg/L)			8020 BTEX (ug/L)	Benzene	Ethyl Benzene	Toluene	Xylenes, Total
		8015-m Diesel	8015-m Gasoline	418.1/5520 B+F TRPH					
MW1	5/12/95	ND	ND	ND	ND	ND	ND	ND	
MW1	6/29/95	ND	ND	ND	ND	ND	ND	ND	
MW1	10/24/95	0.2	ND	ND	ND	ND	ND	ND	
MW2	5/12/95	ND	ND	ND	ND	ND	ND	ND	
MW2	6/29/95	ND	ND	ND	ND	ND	ND	ND	
MW2	10/24/95	0.4	ND	ND	ND	ND	ND	ND	
MW3	5/12/95	ND	ND	ND	ND	ND	ND	ND	
MW3	6/29/95	ND	ND	ND	ND	ND	ND	ND	
MW3	10/24/95	0.4	ND	-	ND	ND	ND	ND	

ND=Not Detected
 --Not Analyzed

Table 2
Sutta Recycling Groundwater Investigation
Groundwater Conductivity, pH, and Temperature Measurements

Well Number	Measuring Date	Conductivity (umhos/cm)	pH	Temperature (degrees fahrenheit)
MW1	05/12/95	1190	7.96	64.7
	06/29/95	2590	8.07	66.0
	10/24/95	1870	7.14	73.6
MW2	05/12/95	880	7.28	63.9
	06/29/95	860	8.05	68.6
	10/24/95	1640	6.66	74.8
MW3	05/12/95	1540	7.02	67.0
	06/29/95	3540	7.95	65.7
	10/24/95	3570	7.36	74.1

Table 3
Sutta Recycling Groundwater Investigation
Water Level Data

Well Number	Top of Casing Elevation*	Measuring Date	Depth To Water**	Water Level Elevation*
MW1	5.38	05/12/95	1.35	4.03
		06/29/95	1.64	3.74
		10/24/95	2.64	2.74
MW2	6.16	05/12/95	2.04	4.12
		06/29/95	2.27	3.89
		10/24/95	3.40	2.76
MW3	6.12	05/12/95	1.92	4.20
		06/29/95	2.17	3.95
		10/24/95	3.57	2.55

*=Measurement in feet above USGS Mean Sea Level

**=Measurement in feet from top of casing

Project Name: Sutta Recycling		Date: 5/3/1995	Boring Number: MW-1	
Project No: 95-903	Borehole Depth: 10.0 Feet	Surface Completion: Neat Cement		
Drilling Co: West Haz Mat	Well Depth: 10.0 Feet	Surface Elevation: N/A		
Drilling Equip: 8" HSA	Water Elev.: N/A	Logged By: RLN		
Sampler Type: 2" Split Barrel	Casing Elevation: 5.38 Feet	Checked By: CMM		

Description	Lithology	Depth (feet)	Sample Number	Casing	Annular Seal	Blows/6"	OVM (ppm)	Remarks
Olive brown (2.5 Y 4/3) poorly graded Sand (SP), (0% clay, 0% silt, 100% sand, 0% gravel), very fine grained sand, medium dense, wet		1	MW1-1			7	0	Locking ground level well box set in concrete Hydrated bentonite pellets
		2				10	10	
		3						
Dark greenish gray (5GY 4/1) fat Clay (CH), (100, 0, 0, 0) soft, saturated, faint hydrogen sulfide odor		4	MW1-4			3	0	Lonestar #2/12 sand 0.010" slotted, 2" diameter schedule 40 PVC well casing
		5				1	1	
		6						
		7						
		8						
		9						
		10						
		11						
Boring terminated at 10.0 feet		11	MW1-8			1	0	PVC end cap
		12				1	1	
		13						
		14						
		15						

Constituent percentages are visual field estimates only.

Project Name: Sutta Recycling		Date: 5-3-1995	Boring Number: MW-2
Project No: 95-903	Borehole Depth: 10.0 Feet	Surface Completion: Neat Cement	
Drilling Co: West Haz Mat	Well Depth: 10.0 Feet	Surface Elevation: N/A	
Drilling Equip: 8" HSA	Water Elev.: N/A	Logged By: RLN	
Sampler Type: 2" Split Barrel	Casing Elevation: 6.15 Feet	Checked By: CMM	

Description	Lithology	Depth (feet)	Sample Number	Casing	Annular Seal	Blows/6"	OVM (ppm)	Remarks
Fill: Dark yellowish brown (10YR 4/6) sandy silty Gravel (GW), (0% clay, 15% silt, 40% sand, 45% gravel), fine to coarse grained sand, medium dense, moist		1	MW2-1			4	0	Locking steel ground level well box set in concrete
		2						Lean cement with 5% bentonite powder
		7						Hydrated bentonite pellets
Dark greenish gray (5GY 4/1) silty Sand (SM), (0, 15, 85, 0), very fine to fine grained sand, loose, wet to saturated		3	MW2-4			2	0	Blank 2" diameter schedule 40 PVC well casing
		4						Lonestar # 2/12 sand
		5						
Dark greenish gray (5GY 4/1) fat Clay (CH), (100, 0, 0,0), soft, saturated		6	MW2-8			1	0	0.010" slotted, 2" diameter schedule 4-0 PVC well casing
		7						
		8						
Boring terminated at 10.0 feet		9				1	0	Constituent percentages are visual field estimates only.
		10						
		11						
		12						
		13						
		14						
		15						
								PVC end cap

Project Name: Sutta Recycling		Date: 5-3-1995	Boring Number: MW-3
Project No: 95-903	Borehole Depth: 10.0 feet	Surface Completion: Neat Cement	
Drilling Co: West Haz Mat	Well Depth: 10.0 Feet	Surface Elevation: N/A	
Drilling Equip: 8" HSA	Water Elev.: N/A	Logged By: RLN	
Sampler Type: 2" split Barrel	Casing Elevation: 6.12 Feet	Checked By: CMM	

Description	Lithology	Depth (feet)	Sample Number	Casing	Annular Seal	Blows/6"	OVM (ppm)	Remarks	
Fill: Dark yellowish brown (10YR 4/6) sandy silty Gravel (GM), (0% clay, 15% silt, 40% sand, 45% gravel), fine to coarse grained sand, fine gravel, medium dense, dry to moist	[Pattern]	1	MW3-1	[Pattern]	[Pattern]	7	0	Locking steel ground level well box set in concrete	
		2				12	0	Lean cement with 5% bentonite powder	
Dark greenish gray (5GY 4/1) fat Clay (CH) (100, 0, 0, 0), soft, wet to saturated, 1" thick interbeds of clayey sand	[Pattern]	3	MW3-4	[Pattern]	[Pattern]	26	0	Hydrated bentonite pellets	
		4				3	0	Blank 2" diameter schedule 40 PVC well casing	
		5				1	1		
		6							
		7							Lonestar # 2/12 sand
		8							0.010" slotted, 2" diameter schedule 40 PVC well casing
		9							
		10							
Boring terminated at 10.0 Feet	[Pattern]	11	MW3-8	[Pattern]	[Pattern]	3	0		
		12				2	0		
		13				2	0		
		14							
		15							

Constituent percentages are visual field estimates only.

PVC end cap