ALAMEDA COUNTY

HEALTH CARE SERVICES





DAVID J. KEARS, Agency Director

October 3, 2000

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

Catherine Jung Gong, Administrator of the Estate of Wesley D. Jung c/o Chase & Chase
11 Embarcadero West
Oakland, CA 94607

Dear Ms. Gong,

Subject:

Accutune, 4045 Broadway, Oakland, CA 94603

StId 1142

This office and the California Regional Water Quality Control Board, San Francisco Bay Region, have reviewed the case closure summary for the above referenced site and concur that no further action related to the underground tank release is required at this time. Before a remedial action completion letter is sent, the onsite monitoring wells, MW-1, MW-2, MW-3, and MW-4, must be decommissioned. Please submit a copy of the well destruction permit and a report of the well destruction so a closure letter can be issued. (Well destruction permits may be obtained from James Yoo, Alameda County Public Works Agency, at 510/670-6633.)

If you have any questions, I can be reached at (510) 567-6746.

Sincerely,

Don Hwang

Hazardous Materials Specialist

C: All Environmental, Inc., 901 Moraga Rd., Suite C, Lafayette, CA 94549

file

ALAMEDA COUNTY

HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director

November 17, 2000

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

Catherine Jung Gong, Administrator of the Estate of Wesley D. Jung c/o Chase & Chase 11 Embarcadero West Oakland, CA 94607

Dear Ms. Gong,

Subject:

Accutune, 4045 Broadway, Oakland, CA 94603

StId 1142

This office and the California Regional Water Quality Control Board, San Francisco Bay Region, have reviewed the case closure summary for the above referenced site and concur that no further action related to the underground tank release is required at this time. Before a remedial action completion letter is sent, the onsite monitoring wells, MW-1, MW-2, MW-3, and MW-4, must be decommissioned. Please submit a copy of the well destruction permit and a report of the well destruction so a closure letter can be issued. (Well destruction permits may be obtained from James Yoo, Alameda County Public Works Agency, at 510/670-6633.)

If you have any questions, I can be reached at (510) 567-6746.

Sincerely,

Don Hwang

Hazardous Materials Specialist

C: All Environmental, Inc., 3210 Old Tunnel Rd., Suite B, Lafayette, CA 94549

file

ALAMEDA COUNTY

HEALTH CARE SERVICES





DAVID J. KEARS, Agency Director

February 20, 2001

Catherine Jung Gong Administrator of the Estate of Wesley D. Jung c/o Chase & Chase 11 Embarcadero West Oakland, CA 94607 ENVIRONMENTAL PROTECTION

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

Dear Ms. Gong,

Subject:

Accutune, 4045 Broadway, Oakland, CA 94603

StId 1142

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 Protection Division 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:

- up to 1,700 ppm Total Petroleum Hydrocarbons as gasoline (TPHg), up to 84 ppm TPH as diesel (TPHd), up to 5.3 ppm Benzene, up to 8.1 ppm Toluene, up to 21 ppm Ethyl benzene, and up to 18 ppm Xylene (BTEX), 69 ppm Chromium exists in soil beneath the site. (sampled December 21, 1995, September 3, 1997)
- up to 950 ug/l TPHg, up to 310 ug/l TPHd, up to 31 ug/l Benzene, up to 29 ug/l Toluene, up to 19 ug/l Ethyl benzene, up to 88 ug/l Xylene (BTEX), and up to 1,900 ug/l Lead exists in groundwater beneath the site. (sampled May 31, 1996, October 9, 1998)

If you have any questions, please contact me at (510) 567-6746.

Sincerely,

Don Hwang

Hazardous Materials Specialist

a

Enclosures: 1. Remedial Action Completion Certificate 2. Case Closure Summary

C: Frank Kliewer, City of Oakland, Planning Dept., 1330 Broadway, 2nd Floor, Oakland, CA 94612

ALAMEDA COUNTY **HEALTH CARE SERVICES**

AGENCY



DAVID J. KEARS, Agency Director

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

February 9, 2001

Catherine Jung Gong, Administrator of the Estate of Wesley D. Jung c/o Chase & Chase 11 Embarcadero West Oakland, CA 94607

Dear Ms. Gong,

Subject:

Accutune, 4045 Broadway, Oakland, CA 94603

StId 1142

This letter confirms the completion of site investigation and remedial action for the one (1) 550 gallon waste oil underground storage tank 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 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, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact Don Hwang at (510) 567-6746 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

Chuck Headlee, RWQCB

Dave Deaner, SWRCB

Hernan Gomez, OFD

Peter McIntyre, All Environmental, Inc., 3210 Old Tunnel Rd., Suite B, Lafayette, CA

94549

File

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

AGENCY INFORMATION

Date: July 28, 2000

Agency name: Alameda County-HazMat

Address: 1131 Harbor Bay Pkwy

City/State/Zip: Alameda, CA 94502 Responsible staff person: Don Hwang Phone: (510) 567-6746 Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Accutune

Site facility address: 4045 Broadway, Oakland, CA 94603

RB LUSTIS Case No: N/A

Local Case No./LOP Case No.: 1142

URF filing date: April 10, 2000

SWEEPS No: N/A

Responsible Parties:

Catherine Jung Gong, Administrator of the Estate of Wesley D. Jung

c/o Chase & Chase, 11 Embarcadero West, Oakland, CA 94607 Addresses:

Phone Numbers:

Tank Size in

550

Contents:

Closed in-place

Date:

No: gal.:

waste oil

or removed?:

removed, Erickson, Inc., Richmond, CA December 21, 1995

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: tank was very corroded and had holes; groundwater

Site characterization complete? YES

Date approved by oversight agency: August 19, 1997

Monitoring Wells installed? YES

Number: 4

Proper screened interval? YES

Highest GW depth below ground surface: 8.11 ft.

Lowest depth: 10.22 ft.

Flow direction: 10/9/98, 5/15/98, 1/28/98: south- southwest, 9/24/97: southwest, 2/21/97:west, 9/24/96:

southwest

Most sensitive current use: commercial

Are drinking water wells affected?

no Aquifer name: na

Is surface water affected?

Nearest affected SW name: na

Off-site beneficial use impacts (addresses/locations):

Report(s) on file? YES Where is report(s) filed?

Alameda County

Oakland Fire Dept

1131 Harbor Bay Pkwy

505 – 14th St., Suite 510 and

Alameda, CA 94502

Oakland, CA 94612

Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment or Disposal w/destination)	<u>Date</u>
Tank	550 gallon	Disposal: Erickson, Inc., Richmond, CA	12/21/95
Soil	7 cy	Disposal: BFI, Livermore, CA	8/2/96

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm	1)	Water (ppb)
	Before ¹	After	Before After
TPH (Gas)	1700^{2}	NA^2	$18,000^5$ 950^8 6.800^4 310^8
TPH (Diesel)	84 ²	NA	$6,800^4$ 310 ⁸
Benzene	5.3 ²	NA	440 ⁴ 31 ⁸
Toluene	8.12	NA	$1,300^5$ 29^8
Ethylbenzene	21 ²	ΝA	200 ⁵ 19 ⁸
Xylenes	18 ²	NA	2,300 ⁵ 88 ⁸
Cadmium	< 0.5 ¹	NA	NA NA
Chromium	<0.5 ¹ 69 ¹	NA	NA NA
Lead	< 3.0 ¹	NA	1,900 ⁷ NA

^{1 12/21/95,}EB-N(5')
2 9/3/97,SB-6,5'
3 5/31/96,EB-10 Not Analyzed

^{4 9/26/96,} MW-2

^{5 9/26/96,} D-1

^{6 9/24/97,} MW-3

^{7 5/31/96,}W-2

^{8 10/9/98,}MW-2

^{₱ 10/9/98,}MW-4

ND=NonDetectable

NA=Not Analyzed

Nickel Zinc	86 ¹ 67 ¹	NA NA	NA NA	NA NA
Methyl Tertiary-Butyl Ether (MTBE)	5.3 ²	NA	180 ⁵	6.39
Total Oil & Grease	470 ³	NA	< 5.0 ⁶	< 5.0 ³
Polynuclear Aromatic Hydrocarbons	ND	NA	NA	NA

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the

Regional Board Basin Plan? undetermined

Does completed corrective action protect potential beneficial uses per the

Regional Board Basin Plan? undetermined

Does corrective action protect public health for current land use? YES

Site management requirements: A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: no

Number Decommissioned: (

Number Retained: 4

List enforcement actions taken: none List enforcement actions rescinded: none

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Don Hwang

Signature: Don Daniel

Title: Haz Mat Specialist

Date: 7/: 2/00

Reviewed by

Name: Eva Chu

Signature: www.

Name: Thomas Peacock

Signature: The Received

Title: Haz Mat Specialist

Date: 1/28/00

Title: Supervisor

Date: 9-11-00

VI. RWQCB NOTIFICATION

Date Submitted to RB: 9/12/00

RB Response: Concur

RWQCB Staff Name: Chuck Headlee

Chuck Headlee

Signature: Chief Headles

Title: AEG

Date: 9/19/00

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is currently an automotive repair facility.

On December 21, 1995, a 550 gallon waste oil tank was removed. The tank was very corroded and had holes on top and on the sides. Soil samples, EB-S-9 and EB-N-5, were collected beneath the tank at 9 and 5 feet below ground surface (bgs), respectively. The samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G), TPH-Diesel (TPH-D), benzene, toluene, ethyl benzene, xylene (BTEX), volatile halocarbons, and LUFT metals. EB-S-9 had 3.4 mg/kg TPH-D, 0.010 mg/kg xylene, 53 mg/kg chromium, 65 mg/kg nickel, and 53 mg/kg zinc. EB-N-5 had 6.0 mg/kg TPH-D, 0.012 mg/kg xylene, 69 mg/kg chromium, 86 mg/kg nickel, and 67 mg/kg zinc. TPH-G, benzene, toluene, ethyl benzene, volatile halocarbons, cadmium, and lead were Nondetectable (ND) for both samples. An additional sample, EB-10, was collected from the bottom of the excavation on May 31, 1996. This sample was collected at 10 feet bgs. The sample was analyzed for total oil & grease (TOG) and polynuclear aromatic hydrocarbons (PAHs). These concentrations were 470 mg/kg and ND, respectively.

On February 1, 1996, a geophysical survey done to determine if underground tanks were located under a patched area at another location on the property did not reveal any magnetic anomalies consistent with the presence of tanks.

On May 31, 1996, 3 soil borings, BH-2, BH-3, and BH-4, were drilled in the patched area and soil samples were collected at 6 and 11 feet bgs. Groundwater was encountered at 11 feet bgs. The 11 feet bgs samples were analyzed for TPH-G, TPH-D, BTEX, methyl tertiary-butyl ether (MTBE), and total lead. Concentrations of these constituents were found as high as 150, 86, 0.16, 0.30, 3.8, 3.7, 0.52, and 34 mg/kg, respectively. A grab groundwater sample, W-2, was collected from BH-3. This sample was analyzed for the same constituents as for soil. The results were 1200 ug/L, 1800 ug/L, ND, 1.4 ug/L, 3.8 ug/L, 3.7 ug/L, ND, and 1.9 mg/L.

On September 11, 1996, 3 soil borings, SB-1, SB-2, and SB-3, were drilled. Two of the soil borings, SB-1 and SB-2, were located around the patched area. SB-3 was located by the waste oil tank excavation. Samples were collected from each borings at 10 feet bgs for analysis. The borings were converted into groundwater monitoring wells, MW-1, MW-2, and MW-3, respectively. On September 24, 1996, groundwater samples, MW-1, MW-2, and MW-3, were collected from each of the wells. The soil and groundwater samples were analyzed for TPH-G, TPH-D, BTEX, MTBE, and SB-3 was additionally analyzed for TOG. The highest concentrations in soil were found in SB-2. These concentrations were 2900, 850, 1.6, 12, 49, 160, and 12 mg/kg, respectively. TOG was ND for SB-3. The highest concentrations in groundwater were also found in MW-2. Two samples were collected from this well, MW-2 and D-1. D-1 was a duplicate. The results found in the samples were consistent. The highest concentrations found were 20,000, 6,800, 440, 1,300, 200, 2,300, and 180 ug/L.

On February 21, 1997, groundwater samples were collected from each well for analyses for TPH-G, TPH-D, BTEX, and MTBE. MW-2 had the highest concentrations. These concentrations were 2,100, 1,600, 71, 82, 30, 110, and 27 ug/L. MW-1 and MW-3 were ND for all constituents.

On September 3, 1997, 8 soil borings, SB-1, SB-2, SB-3, SB-4, SB-5, SB-6, SB-7, and SB-8, were drilled. Soil borings, SB-1, SB-2, SB-3, and SB-4, were installed to delineate soil contamination around the patched area. Soil borings, SB-5, SB-6, SB-7, and SB-8, were installed to delineate soil contamination south of the patched area. Additionally, soil boring, SB-8, was used to collect a groundwater sample by the south boundary of the property. On September 12, 1997, a soil boring, SB-9, drilled by SB-8, was converted into a groundwater monitoring well, MW-4. Two samples from each of the soil borings were analyzed for TPH-G, TPH-D, BTEX, and MTBE. The highest concentrations for TPH-G in soil were 1700 mg/kg found in SB-6, 5', and 1400 mg/kg found in SB-9, 10'. The highest concentrations for TPH-D in soil was 150 mg/kg found in SB-2, 10'. The highest concentrations for BTEX were found in SB-9, 10'. The concentrations were 6.8, 3.3, 23, and 110 mg/kg, respectively. The next highest concentrations were found in SB-6, 5'. The concentrations were 4.3, 8.1, 21, and 18 mg/kg, respectively. MTBE was highest in SB-9, 10'. This was 27 mg/kg. On September 3, 1997, a grab groundwater sample was collected from SB-8. The sample was analyzed for TPH-G, TPH-D, BTEX, and MTBE. The concentrations found were 50, 51, 4.4, 1.5, 0.8, 3.8 ug/L, and ND. On September 24, 1997, groundwater samples were collected from each well, MW-1, MW-2, MW-3, and MW-4. These samples were analyzed for TPH-G, TPH-D, BTEX, and MTBE. Additionally, MW-3, was analyzed for TOG. MW-2 had 260, 170, 5.6, 6.8, 3.2, 9.4 ug/L, and ND, respectively. MW-4 had 160, 68, 19, 1.5, ND, 18 ug/L, and ND, respectively. MW-1 and MW-3 were ND for all constituents, including ND for TOG in MW-3.

On January 28, 1998, groundwater samples were collected from each well for analyses for TPH-G, TPH-D, BTEX, and MTBE. MW-2 had the highest concentrations. These concentrations were 990, 500, 74, 33, 21, 66 ug/L, and ND. MW-1 was ND for all constituents. MW-3 was ND for all constituents except TPH-D, which

was 53 ug/L. MW-4 was ND for TPH-G and TPH-D, 6.1, 0.65, ND, 0.74 ug/L, for BTEX, and 9.3 ug/L, for MTBE.

On May 15, 1998, groundwater samples were collected from each well for analyses for TPH-G, TPH-D, BTEX, and MTBE. All wells were ND for all constituents except MW-2 which had 6.6 ug/L benzene and 1.0 xylene, MW-4 with 110 ug/L TPH-D, 7.4 ug/L benzene, and 1.6 ug/L xylene.

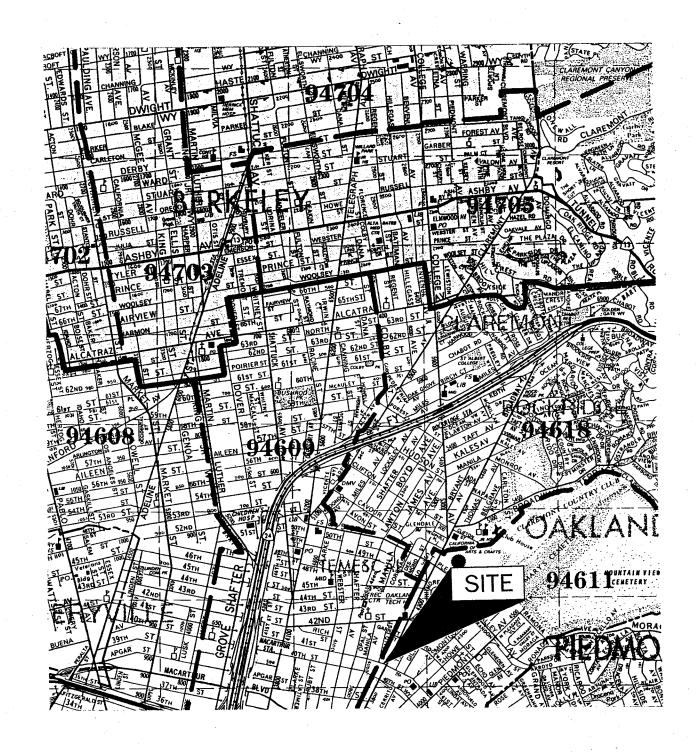
On October 9, 1998, groundwater samples were collected from each well for analyses for TPH-G, TPH-D, BTEX, and MTBE. MW-2 had 950, 310, 31, 29, 19, 88 ug/L, and ND. MW-4 had 5 ug/L benzene and 6.3 ug/L MTBE. MW-1 and MW-3 were ND for all constituents.

The near surface sediments beneath the site consist mainly of clayey and silty sand to approximately 18 feet bgs (soil boring logs by All Environmental, Inc.) The water-bearing stratum is comprised of silty sand, grading to clean sand at 20 feet bgs.

After 4 to 6 consecutive quarters of groundwater monitoring, hydrocarbon constituents show a declining trend. The plume extends 50 feet from the former tank pit. Residual hydrocarbons in groundwater should continue to naturally bioattenuate. Continued monitoring is not warranted.

In summary, case closure is recommended because:

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



N

THOMAS BROS. MAPS 1994

ALL ENVIRONMENTAL, INC. 3364 MT. DIABLO BOULEVARD, LAFAYETTE

SCALE: 1 IN = 2200 FT DATE: 17 JUNE 96 APPROVED BY:

DRAWN BY: REVISED:

SITE LOCATION MAP

4045 BROADWAY OAKLAND DRAWING NUMBER: FIGURE 1

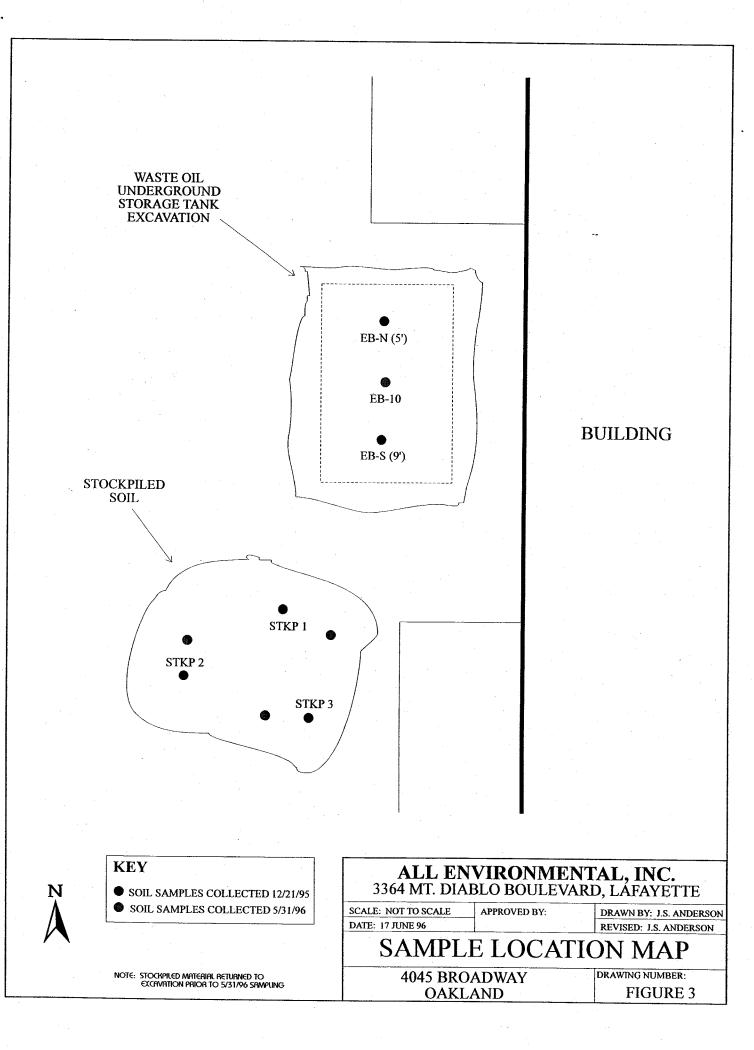


Table 1: Soil Sample Analyses

Sample I.D.	TPH as gasoline (mg/kg)	TPH as diesel (mg/kg)	benzene (mg/kg)	toluene (mg/kg)	ethyl- benzene (mg/kg)	total xylenes (mg/kg)	volatile halo- carbons (mg/kg)
EB-S (9')	<1.0	3.4	<0.005	<0.005	<0.005	0.010	N.D.
EB-N (5')	<1.0	6.0	<0.005	<0.005	<0.005	0.012	N.D.
STKP (1-3)*	32	120	<0.005	<0.005	<0.005	0.31	N.D.

Table 1: Soil Sample Analyses (cont.)

Sample I.D.	cadmium (mg/Kg)	chromium (mg/Kg)	lead (mg/Kg)	nickel (mg/Kg)	zinc (mg/Kg)
EB-S (9')	<0.5	53	<3.0	65	53
EB-N (5')	<0.5	69	<3.0	86	67
STKP (1-3)*	<0.5	52	0.023	90	55

(mg/kg) = ppm (parts per million)

N.D. = Not detected above reporting limit

At the request of ACHCSA-DEH, additional soil samples were collected from the stockpiled soil and excavation bottom on May 31, 1996. The samples were collected during a Phase II soil and groundwater investigation performed in the northeast corner of the property. One sample (EB-10) was collected from the bottom of the excavation at 10 feet bgs using a geoprobe drilling rig. Three discrete samples were collected from the stockpiled soil and analyzed as one composite sample. The soil samples collected were analyzed for total oil & grease (TOG) (EPA method

^{*} Composite soil sample

5520) and polynuclear aromatic hydrocarbons (PAHs) (EPA method 8270). The additional analyses are presented in the following table.

Table 2: Additional Soil Sample Analyses

Sample I.D.	TOG (mg/kg)	PAHs (mg/kg)
EB-10	470	N.D.
STKP (1-3)*	410	N.D.

(mg/kg) = ppm (parts per million)

N.D. = Not detected above reporting limit

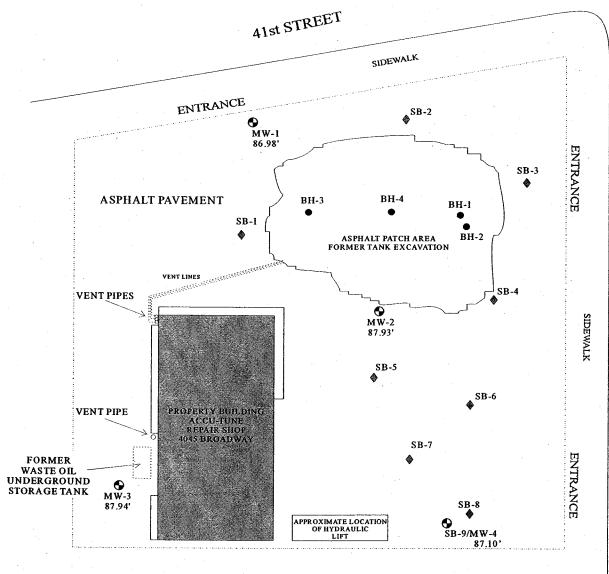
Copies of all analytical results and Chain of Custody documentation are located in Appendix D: Sample Analytical Documentation.

5.0 DISCUSSIONS AND CONCLUSIONS

On December 21, 1995, one 550-gallon waste oil underground storage tank was removed from behind the property building. The tank was transported as hazardous waste to the Erickson Disposal Facility in Richmond, California where the tank was cleaned and disposed of as scrap metal.

Soil samples collected from the bottom of the excavation were impacted with 470 ppm TOG and minor concentrations of TPH as diesel, xylenes and metals. TPH as gasoline, benzene, toluene, ethylbenzene, PAHs, volatile halocarbons were not present within the excavation bottom samples above the detection limits. Soil samples collected from the stockpiled material were impacted with 410 ppm TOG, 32 ppm TPH as gasoline, 120 ppm TPH as diesel and minor concentrations

^{*} Composite soil sample



PROPERTY BOUNDARY LINE

KEY

- FORMER SOIL BORING LOCATION ADVANCED 5/31/96
- GROUNDWATER MONITORING WELL LOCATION
- SOIL BORING LOCATION

1/2

ALL ENVIRONMENTAL, INC. 3364 MT. DIABLO BOULEVARD, LAFAYETTE

SCALE: 1 IN = 20 FT
DATE: 24 SEPTEMBER 97

APPROVED BY:

DRAWN BY: J. PUCCI REVISED: J. PUCCI

SOIL BORING AND WELL LOCATION MAP

4045 BROADWAY OAKLAND, CALIFORNIA DRAWING NUMBER:

FIGURE 2

Ms. C.J. Gong Gong Associates June 26, 1996 Page 2

IV Findings

Soil and groundwater samples collected during the investigation were transported to McCampbell Analytical, Inc. (DOHS Certification Number 1644) on June 3, 1996 for analysis. Analytical results of soil collected at eleven feet bgs from the borings indicated the presence of up to 150 ppm TPH as gasoline, 86 ppm TPH as diesel, 0.16 ppm benzene, 0.30 ppm toluene, 0.18 ppm ethylbenzene, 0.67 ppm xylenes and 0.52 MTBE.

The groundwater sample, W-2, collected from BH-3 indicated up to 1,200 ppb of TPH as gasoline, 1,800 ppb TPH as diesel, 1.4 ppb toluene, 3.8 ppb ethylbenzene and 3.7 ppb xylenes. Benzene and MTBE were not present within the groundwater sample above the detection limits.

The following tables summarize the soil and groundwater analytical results. The analytical results and chain of custody are included as Attachment B.

Table 1 - Soil Sample Analyses

Sample Identification	TPHg mg/kg	TPHd mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Xylenes mg/kg	MTBE mg/kg	Lead mg/kg
BH-2, L-2, (11')	30	86	0.028	0.059	0.13	0.11	0.087	16
BH-3, L-2, (11')	130	40	<0.005	0.14	0.16	<0.005	<0.1	18
BH-4, L-2, (11')	150	54	0.16	0.30	3.8	3.7	0.52	34

Table 2 - Groundwater Sample Analyses

Sample	TPHg	TPHd	Benzene	Toluene	Ethyl-	Xylenes	MTBE	Lead
Identification	ug/L	ug/L	ug/L	ug/L	benzene	ug/L	ug/L	mg/L
					ug/L			
W-2	1200	1800	<0.05	1.4	3.8	3.7	<0.05	1.9

Total Petroleum Hydrocarbons as gasoline = TPHg Total Petroleum Hydrocarbons as diesel = TPHd mg/kg = ppm ug/L = ppb Ms. C.J. Gong November 25, 1996 Project No. 1434 Page No. 8

TABLE 2 - Soil Sample Analytical Data

Sample Number/ Depth	TPH as gasoline (mg/kg)	TPH as diesel (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total Oil & Grease (mg/kg)
SB1,S-2,10	7.7	5.0	<0.05	<0.005	0.015	0.050	0.050	NA
SB2,S-2,10	2900	850	12	1.6	12	49	160	►\1 -<50
SB3,S-2,10	19	22.0	≤0.05	<0.005	0.017	<0.005	0.014	NA-

mg/kg = milligrams per kilogram (ppm) NA = Not Analyzed

Significant concentrations of dissolved petroleum hydrocarbons were present in groundwater collected from MW-2. Up to 18,000 parts per billion (ppb) TPH as gasoline, 6,800 ppb TPH as diesel, 170 ppb benzene, 1,200 ppb toluene, 190 ppb ethylbenzene and 2,200 xylenes were present in the groundwater. Results were consistent for the analysis of D-1, a duplicate groundwater sample from MW-2. Up to 190 ppb TPH as gasoline, 110 ppb TPH as diesel and 5.7 ppb xylenes were present in the groundwater sample collected from MW-1. No concentrations of petroleum hydrocarbons were detected during analysis of the water sample collected from MW-3. The groundwater sample analytical data is summarized below in Table 3.

TABLE 3 - Groundwater Sample Analytical Data

Sample Number/ Depth	TPH as gasoline (ug/L)	TPH as diesel (ug/L)	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)
MW-1	190	110	<5.0	<0.5	<0.5	<0.5	5.7
MW-2	18,000	6,800	170	440	1,200	190	2,200
MW-3	<50.0	<50.0	<5.0	<0.5	<0.5	≤0;5	<0.5
D-1	20,000	NA	180	410	1,300	200	2,300

ug/L = micrograms per liter (ppb)

NA = Not Analyzed

Laboratory results and chain of custody documentation are included in Appendix C.

Table 2 Soil Sample Analytical Data

Sample ID	TPH as gasoline (mg/kg)	TPH as diesel (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- Benzene (mg/kg)	Xylenes (mg/kg)
SB-1, 3' SB-1, 5' SB-2, 8' SB-2, 10' SB-3, 5' SB-3, 10' SB-4, 5' SB-4, 10' SB-5, 7' SB-6, 3' SB-6, 5' SB-7, 10' SB-7, 5' SB-8, 5' SB-8, 5' SB-9, 10'	<1.0 <1.0 1.8 240 <1.0 ND<120 <1.0 180 <1.0 470 4.9 1700 <1.0 <120 3.3 140 <1.0 1400	<1.0 3.4 95* 150* 3.7* 11 14* 17 20* 3.4 <1.0 84 4.9 <1.0 <1.0 6 46 45	<0.005 0.018 0.0078 <0.62 <0.005 ND<.62 0.012 0.8 <0.005 1.6 0.054 5.3 0.0057 ND<.62 0.071 ND<.62 <0.005 27	<0.005 0.0083 0.024 <0.62 <0.005 ND<.62 0.086 ND<.62 <0.005 1.8 0.18 4.3 0.009 ND<.62 0.056 ND<.62 <0.005 6.8	<0.005 <0.005 0.017 0.97 <0.005 ND<.62 <0.005 ND<1.2 0.015 8.1 <0.005 ND<.62 0.022 ND<.62 0.022 SOURCE OF THE OF T	<0.005 <0.005 0.012 0.78 <0.005 0.71 <0.005 1.3 <0.005 10 0.3 21 <0.005 ND<.62 0.064 1.4 <0.005 23	<0.005 0.0074 0.028 1.3 <0.005 1.8 0.024 4.6 <0.005 20 0.033 18 0.0086 ND<.62 0.073 7.5 <0.005

^{*} Motor oil detected in sample

Table 2
Groundwater Sample Analytical Data

Well ID	Date	TPHg (µg/L)	TPHd (µg/L)	Total Oil & Grease (mg/L)	MTBE (μg/L)	Benzene (µg/L)	Toluene (μg/l)	Ethyl- Benzene (µg/l)	Xylenes (μg/l)
						•		N. C.	
MW-1	9/24/96	190	110	NA	<5.0	< 0.5	< 0.5	< 0.5	5.7
	2/21/97	<50	< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	9/24/97	<50	< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	1/28/98	<50	< 50	NA	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	5/15/98	<50	< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	10/9/98	<50	<50	NA	<5.0	< 0.5	< 0.5	<0.5	<0.5
MW-2	9/24/96	18,000	6800	NA	170	440	1200	190	2200
	2/21/97	2,100	1,600	NA	27	71	82	30	110
	9/24/97	260	170	NA	< 5.0	5.6	6.8	3.2	9.4
	1/28/98	990	500	NA	ND<25	74	33	21	66
	5/15/98	<50	< 50	NA	< 5.0	6.6	<0.5	<0.5	1.0
	10/9/98	950	310	NA	ND<20	31	29	19	88.0
MW-3	9/24/96	<50	<50	NA	<5.0	<0.5	<0.5	<0.5	5.7
	2/21/97	<50	<50	NA	<5.0	<0.5	<0.5	<0.5	< 0.5
	9/24/97	<50	<50	<5.0	< 5.0	< 0.5	<0.5	<0.5	< 0.5
	1/28/98	<50	53	<5.0	<5.0	< 0.5	<0.5	<0.5	<0.5
	5/15/98	<50	<50	<5.0	<5.0	<0.5	<0.5	<0.5	< 0.5
	10/9/98	<50	<50	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
MW-4	9/24/97	160	68	NA	ND<10	19	1.5	<0.5	18
•	1/28/98	<50	<50	NA	9.3	6.1	0.65	<0.5	0.74
	5/15/98	<50	110	NA	<5.0	7.4	<0.5	<0.5	1.6
	10/9/98	<50	<50	NA.	6.3	5	<0.5	<0.5 < 0.5	<0.5

TPHg - Total Petroleum Hydrocarbons as gasoline

TPHd - Total Petroleum Hydrocarbons as diesel

TOG - Total Oil & Grease

MTBE - Methyl Tertiary Butyl Ether

μg/L - Micrograms per Liter (ppb)

mg/L - Milligrams per Liter (ppm)

NA - Not analyzed

	******		· · · · · · · · · · · · · · · · · · ·				
PRO	JECT	GONG - #1630	LOG OF BORI	EHOLE: SB-1			
BOR	ING I	OC.: West of former tank hold	ELEVATION, TOC:				
DRII	LLINC	CONTRACTOR: GREGG	START DATE: 9/3/97 END DATE: 9/3/97				
DRII	LLING	METHOD: DIRECT PUSH	TOTAL DEPTH: 12.	0'			
DRII	LLING	EQUIPMENT: GEOPROBE	DEPTH TO WATER: N	JA			
SAM	IPLIN	G METHOD: CONTINUOUS CORE	LOGGED BY: B.	. CAMPBELL			
HAM	IMER	WEIGHT and FALL: N/A		ROFESSIONAL: JPD			
DEPTH (feet)	SOIL YMBOLS	DESCRIPTION	SAMPLE SAMPLE NO. SELOW SHOW SHOW	COMMENTS			
		Concrete Pad Foundation; 3" Aggregate Base.					
1 - 4	AB ;						
2 -			L-1	Strong Hyd. Odor 30.0 ppm			
3 - 4 - 4		Clay: dark gray with green mottling' moderate plasticity					
5	ı		L-2	Strong Hyd. Odor 10.0 ppm			
6							
7 —							
8-		Clay (cont.)		•			
9-				Slight Hyd. Odor 10.0 ppm			
10				τοτο Κhπ			
11-							
12							
13		Borehole terminated.		Borehole backfilled with cement grout.			
13-							
		ALL ENVIRONMENTAL, IN	C.	page 1 of 1			

PR	OJEC'	r: GONG - #1630	LOG OF BOR	REHOLE: SB-2
ВО	RING	LOC.: North of former tank hold	ELEVATION, TO	OC:
DR	ULLING	97 END DATE: 9/3/9		
DR	ULLING	G METHOD: DIRECT PUSH	TOTAL DEPTH: 12	
DR	ILLINC	G EQUIPMENT: GEOPROBE	DEPTH TO WATER:	NA
SA	MPLIN	G METHOD: CONTINUOUS CORE	LOGGED BY:	3. CAMPBELL
	MMER	WEIGHT and FALL: N/A	RESPONSIBLE F	PROFESSIONAL: JPD
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLE NO.	
		Concrete Pad Foundation; 3" Aggregate Base.		
1 —	AB			
-				
2 -		Clare doubt grow with grown with		Slight Hyd Odo-
		<u>Clay</u> ; dark gray with green mottling' low plasticity	L-1	Slight Hyd. Odor 50.0 ppm
3				
4			_	
4	CL			
5				
6				
\dashv			$+$ $\ \cdot \ $	
7				Cit d A III A C A
		Clay (cont.); Low plasticity	L-2	Slight Hyd. Odor 137.0 ppm
8				
9 -				
-		Clayey Sand; dark gray		Chalant
0-	so		L-3	Slight Hyd. Odor 359.0 ppm
-				
1-				
2-				
2		Borehole terminated.		Borehole backfilled w
3-				cement grout.
4				
4			_	

PROJEC	T: GONG - #1630	LOG OF BOREHOLE: SB-3
BORING	LOC.: East of former tank hold	ELEVATION, TOC:
DRILLIN	G CONTRACTOR: GREGG	START DATE: 9/3/97 END DATE: 9/3/9
DRILLIN	G METHOD: DIRECT PUSH	TOTAL DEPTH: 12.0'
DRILLING	G EQUIPMENT: GEOPROBE	DEPTH TO WATER: NA
SAMPLIN	IG METHOD: CONTINUOUS CORE	LOGGED BY: B. CAMPBELL
HAMME	R WEIGHT and FALL: N/A	RESPONSIBLE PROFESSIONAL: JPD
DE SOIL SOIL SUBMYS	DESCRIPTION	SAMPLES PARTY MONEY AND MONEY PARTY MONEY COMMENTS
1 — AB	Concrete Pad Foundation; 3" Aggregate Base.	
3-	Silty Clay; dark gray; low plasticity	Slight Hyd. Odor 11.0 ppm
4 - CL 5 - CL	<u>Clay</u> (cont.)	L-2 Slight Hyd. Odor 11.0 ppm
6-7-		
8-		
0- SM	Silty Sand; gray, with dark yellowish orange modeling.	L-3 Strong Hyd. Odor 245.0 ppm
2		
3-	Borehole terminated.	Borehole backfilled with cement grout.
	ALL ENVIRONMENTAL, INC	c. page 1 of 1

PROJEC	r: GONG - #1630	LOG OF BORE	HOLE: SB-4
BORING	LOC.: South of former tank hold	ELEVATION, TOC:	
DRILLING	G CONTRACTOR: GREGG	START DATE: 9/3/97	Z END DATE: 9/3/97
DRILLING	G METHOD: DIRECT PUSH	TOTAL DEPTH: 12.0	
DRILLING	G EQUIPMENT: GEOPROBE	DEPTH TO WATER: NA	A
SAMPLIN	G METHOD: CONTINUOUS CORE	LOGGED BY: B.	CAMPBELL
1 1	WEIGHT and FALL: N/A		OFESSIONAL: JPD
(feet) SOIL SYMBOLS	DESCRIPTION	SAMPLE NO. NO. NO. NO. COUNTS COUNTS	COMMENTS
	Concrete Pad Foundation; 3" Aggregate Base.		
1 — AB			
2 -	Silty Clay; dark gray with dark green modeling.	L-1	Slight Hyd. Odor 5.0 ppm
3- 4- 4-			
5	Clay (cont.)	L-2	Slight Hyd. Odor 11.0 ppm
6-			
7-			
9 -			
10-SM	Silty Sand; gray, with dark yellowish orange modeling.	L-3	Strong Hyd. Odor 88.0 ppm
12	Donals-1. t		
13-	Borehole terminated.		orehole backfilled with ement grout.
14			
	ALL ENVIRONMENTAL, INC.	C.	page 1 of 1

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Constitution of the last

PROJEC	T: GONG - #1630	LOG	OF	BOR	EHO	DLE: SB-5
BORING	BORING LOC.: South of former tank hold				C:	
DRILLIN	G CONTRACTOR: GREGG	START D	ATE:	9/3/	97	END DATE: 9/3/97
DRILLIN	G METHOD: DIRECT PUSH	TOTAL D	EPTH	ł: 12	2.0'	
DRILLING	G EQUIPMENT: GEOPROBE	ДЕРТН Т	O WA	TER:	ΝA	
	IG METHOD: CONTINUOUS CORE	LOGGE	ED B	Y: E	B. CAI	MPBELL
	R WEIGHT and FALL: N/A	RESPO	NSII	BLE F	ROFE	ESSIONAL: JPD
(feet) DEPTH SOIL STORMS	DESCRIPTION		SAMPLE ON NO.	DLCW BLOW COUNTS	1	COMMENTS
	Concrete Pad Foundation; 3" Aggregate Base.					
1 – AB						
		_				
2	<u>Clay;</u> greenish gray; moderate plasticity.	_			Str	ong Hyd. Odor
	<u>Saw</u> , greenish gray, moderate plasticity.	· .	L-1		119	9.0 ppm
3						
4		- -				
CL						
5		· <u> </u>				
		_				
6						1
7	Clay; dark gray with dark green modeling, moderate plasticity.	<u> </u>	L-2		Slig 48.0	ht Hyd. Odor) ppm
8						
					. 3	
9		· · · · · · · · · · · · · · · · · · ·				
	Clay (cont.)		1 2	-	Str	ong Hyd. Odor
10-		<u> </u>	L-3		100	0.0 ppm
11		<u></u>				
12						
_	Borehole terminated.	,			Bore	hole backfilled with
13		·		-		
14-		:				
	ALL ENVIRONMENTAL, IN	C.			pa	ge 1 of 1

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PROJECT	: GONG - #1630	100 00 000	
BORING I	OC.: South of former tank hold	LOG OF BOREHOLE	: SB-6
1		ELEVATION, TOC:	
1	CONTRACTOR: GREGG	START DATE: 9/3/97 EN	D DATE: 9/3/97
1	METHOD: DIRECT PUSH	TOTAL DEPTH: 12.0'	
	EQUIPMENT: GEOPROBE	DEPTH TO WATER: NA	
HAMMER	G METHOD: CONTINUOUS CORE WEIGHT and FALL: N/A	LOGGED BY: B. CAMPB	
	WEIGHT AIR PALL. N/A	RESPONSIBLE PROFESSI	ONAL: JPD
CEET SOUR SOUR SOUR	DESCRIPTION	SAMPLE NO. COLVER OF THE COLVE	MMENTS
	Concrete Pad Foundation; 3" Aggregate Base.	9 2 0	
1 - AB			
2	Silks OL 1 1		
	<u>Silty Clay</u> ; dark gray with green modeling; low plasticity.	191.0 p	Hyd. Odor opm
3		L-1	
4 CL			
5	Silty Clay (cont.)	L-2 Strong	Hyd. Odor
		147.0 p	pm
6-			
7-			
8-			. ,
		-	
9			
10-	<u>Clay</u> (cont.)	L-3 Strong I	Hyd. Odor
		136.0 p _l	ρ m
11-			
12			
	Borehole terminated.	_ Borehole	backfilled with
13		cement gr	out.
14		_	
14-			
·	ALL ENVIRONMENTAL, INC	page 1	of 1

PROJEC	CT: GONG - #1630	LOG OF BORE	HOLE: SB-7		
BORING	LOC.: South of former tank hold	ELEVATION, TOC:			
DRILLIN	IG CONTRACTOR: GREGG	START DATE: 9/3/97 END DATE: 9/3			
DRILLIN	IG METHOD: DIRECT PUSH	TOTAL DEPTH: 12.0			
DRILLIN	IG EQUIPMENT: GEOPROBE	DEPTH TO WATER: NA			
	NG METHOD: CONTINUOUS CORE	LOGGED BY: B. (CAMPBELL		
	R WEIGHT and FALL: N/A	RESPONSIBLE PRO	OFESSIONAL: JPD		
CE SOIL SOIL	DESCRIPTION	SAMPLE SOMPLE NO. NO. NO. COUNTS COUNTS	COMMENTS		
	Concrete Pad Foundation; 3" Aggregate Base.				
1 — AB					
3	Silty Clay; moderate yellowish brown with green modeling.	L-1	Slight Hyd. Odor 4.0 ppm		
4 - CL					
5	Silty Clay (cont.)	L-2	Slight Hyd. Odor 24.0 ppm		
6-					
8-					
9-					
10-	Silty Clay (cont.)	L-3	Slight Hyd. Odor 79.0 ppm		
11-					
2	Borehole terminated.				
13-			orehole backfilled with ement grout.		
14—					
·	ALL ENVIRONMENTAL, IN	C. F	page 1 of 1		

PF	ROJEC	T: GONG - #1630	LOG OF BOI	REHC	DLE: SB-8
В	DRING	LOC.: Near southern property boundary	ELEVATION, TO		
1		G CONTRACTOR: GREGG	START DATE: 9/3/		END DATE: 9/3/97
DI	RILLIN	G METHOD: DIRECT PUSH			END DATE: 9/3/9/
DI	RILLING	G EQUIPMENT: GEOPROBE	DEPTH TO WATER:		·
SA	MPLIN	G METHOD: CONTINUOUS CORE	LOGGED BY:	B. CAN	APBELL.
	MMEF	R WEIGHT and FALL: N/A	RESPONSIBLE I	PROFE	
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES SAMPLE NO. NO. MITERVAL WILLIAM SHOWN SH		COMMENTS
_		Concrete Pad Foundation; 3" Aggregate Base.			
1 –	AB ,				
2 -			-		
-		<u>Clay;</u> dark gray with dark green modeling, moderate plasticity.		Slig 40.0	ht Hyd. Odor 9 ppm
3-			<u>L-1</u>		
4 —					
-	CL				
5		Clay (cont.)	L-2	Slig 67.0	ht Hyd. Odor) ppm
6					:
7					
			-		
8			.—		
9					
-		Silty Clay (cont.)			
10			L-3	Stro. 236.	ng Hyd. Odor 0 ppm
11					
12					
		Silty Sand, dark yellowish orange.			
3					
4-					
L-		ALL ENVIRONMENTAL, INC		nad	e 1 of O
		- INC	•	pag	e 1 of 2

PR	OJEC1	: GONG - #1630	LOG (OF B	OR	REHOLE: SB-8	
Ŧ				SAM	PLES		
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION		SAMPLE NO.	BLOW	COMMENTS	
	SM	Silty Sand (cont.)		L-4		Slight Hyd. Odor 61.0 ppm	
15 — —				-		or.o ppin	
16 —		Borehole terminated.				Borehole backfilled w	
17-			_			coment grout.	
18-							
19-			. 				
20-			<u> </u>				
21							
-			·				
2							
3							
4							
-							
5			,				
6							
7-			-				
-							
8							
9					-		
o							
1							

BORING LOC.: SOUTH OF FORMER TANK HOLD DRILLING CONTRACTOR: GREGG DRILLING DRILLING METHOD: HOLLOW STEM AUGER	LOG OF WELL NUMBER: SB-9/MW ELEVATION, TOC: 87.10
DRILLING CONTRACTOR: GREGG DRILLING	
	START DATE: 9/12/97 END DATE: 9/12/9
= = = = IIODLOW SIEW AUGER	TOTAL DEPTH: 20' SCREEN INT: 4.5-2
DRILLING EQUIPMENT: MOBILE B-61	DEPTH TO WATER: 12' CASING: 2" PVC
SAMPLING METHOD: 2" DRIVE SAMPLER	LOGGED BY: BC
HAMMER WEIGHT and FALL: 140 lb, 30"	RESPONSIBLE PROFESSIONAL: JPD
SOIL SYMBOLS DESCRIPTION	SAMPLES WELL GONSTRUCTION DETAILS
O.0 - 0.6; Asphalt, 3" Aggregate Base. CL O.6 - 9.0; Clay; dark gray, mod plasticity, slight hyd. Odor. 9.0 - 12.0; Clay, dark yellowish orange with light olive gray modeling, moderate plasticity, slight hyd. odor. 12.0 - 20.0; Silty Sand, dark yellowish orange, clasts up to 1/4", coarse, slight hyd. odor. ALL ENVIRONMENTAI	S-1 S-2 No. 3 Monterer Sand No. 3 Monterer Sand

Table 2
Groundwater Sample Analytical Data

Well ID	Date	TPHg (µg/L)	TPHd (µg/L)	Total Oil & Grease (mg/L)	MTBE (μg/L)	Benzene (µg/L)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Xylenes (µg/l)
MW-1	9/24/96	190	110	NA	<5.0	-0.5	-0.5		
147 44-7	2/21/97	<50	<50	NA NA		<0.5	<0.5	<0.5	5.7
	9/24/97	<50	<50		<5.0	<0.5	<0.5	<0.5	< 0.5
	1/28/98	<50		NA	<5.0	< 0.5	<0.5	<0.5	< 0.5
•	5/15/98		<50	NA NA	<5.0	<0.5	<0.5	<0.5	< 0.5
	10/9/98	<50	<50	NA	<5.0	<0.5	<0.5	<0.5	< 0.5
	10/3/38	<50	<50	NA	<5.0	<0.5	<0.5	<0.5	<0.5
MW-2	9/24/96	18,000	6800	NA	170	440	1200	190	2200
	2/21/97	2,100	1,600	NA	27	71	82	30	110
	9/24/97	260	170	NA	<5.0	5.6	6.8	3.2	9.4
*	1/28/98	990	500	NA	ND<25	74	33	21	66
	5/15/98	<50	<50	NA	<5.0	6.6	<0.5	<0.5	1.0
	10/9/98	950	310	NA	ND<20	31	29	19	88.0
MW-3	9/24/96	<50	<50	NA	<5.0	<0.5	<0.5	<0.5	5.7
	2/21/97	<50	<50	NA	<5.0	<0.5	<0.5	<0.5	
	9/24/97	<50	<50	<5.0	<5.0	<0.5	<0.5 <0.5	<0.5	<0.5
	1/28/98	<50	53	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5 <0.5
	5/15/98	<50	<50	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5 <0.5
	10/9/98	<50	<50	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5 <0.5
MW-4	9/24/97	160	68	NA	NID<10	10	1.5	-0.5	
*****	1/28/98	<50	<50		ND<10	19	1.5	<0.5	18
	5/15/98	<50		NA	9.3	6.1	0.65	<0.5	0.74
	3/13/98 10/9/98	< 50	110	NA NA	<5.0	7.4	<0.5	<0.5	1.6
	10/7/70	<20	<50	NA	6.3	5	<0.5	<0.5	< 0.5

TPHg - Total Petroleum Hydrocarbons as gasoline

TPHd - Total Petroleum Hydrocarbons as diesel

TOG - Total Oil & Grease

MTBE - Methyl Tertiary Butyl Ether

 μ g/L - Micrograms per Liter (ppb)

mg/L - Milligrams per Liter (ppm)

NA - Not analyzed

PROJECT:	GONG # 1434	LOG OF WELL N	UMBER: MW-1			
BORING LOC	C.: REFER TO SITE PLAN	ELEVATION, TOC:				
DRILLING C	ONTRACTOR: GREGG DRILLING	START DATE: 9/11/96	END DATE: 9/11/96			
DRILLING M	ETHOD: HOLLOW STEM AUGER	TOTAL DEPTH: 19'	SCREEN INT: 9'-19'			
	QUIPMENT: MOBILE B-61	DEPTH TO WATER: 12'	CASING: 2" PVC			
	IETHOD: 2" DRIVE SAMPLER	LOGGED BY: BC				
	EIGHT and FALL: 140 lb, 30"	RESPONSIBLE PRO	FESSIONAL: JPD			
E SOIL SYMBOLS	DESCRIPTION	SAMPLE SAMPLE NO NO NUTERVAL WITHOUT SHOWN SOUTH SAMPLE SA	WELL CONSTRUCTION DETAILS			
1 — SC	- 9.0; Clayey Sand; dark gray with k green modeling, moist, slight hyd. r. - 19.0; Silty Sand; gray with dark bw/orange modeling, very moist, and hyd. odor.	7 7 11 S-2 15 TMC	No. 3 Monterey Sand No. 3 Monterey Sand No. 3 Monterey Sand No. 3 Monterey Sand			

The second secon

PROJECT: GONG #1434			LOG OF BOREHOLE: MW-1						
E G	COT]			<u> </u>	WELI	
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION			SAMPLE NO.	BLOW	CON	ISTRU(DETAI	CTION
_								[: [] :	
l5 —				4	1	6		: : :	
		9.0 - 19.0; Silty Sand (cont.)		\perp		26		: :	
6-	SM .			5	3-3	1 29	٠.	: :	
-								: :	
7 —				_				: :	-
				_		-		1: 出:	
8-								: 日:	
				4				l: H:	End C
19-							-		1
_		Terminated at 19.0'		4					
20-									
_			-	4				* .	
21-				4					
-				_					
2 -									
\dashv				\dashv					
3 –									
-									
4									
-				\dashv					
5 –				-					
-				\perp					
6-									
-				-					
7-				\exists					
-				4					
8-									
				\dashv					
9 –									
4				4					
0-				4					
				-					
31-				-					
		ALL ENVIRONMENTAL	T7\	TO	i	1	സവർ	e 2 of	າ

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BORING LOC: REFER TO SITE PIAN BORING LOC: REFER TO SITE PIAN DRILLING CONTRACTOR: GREGG DRILLING DRILLING METHOD: HOLLOW STEM AUGER DRILLING METHOD: HOLLOW STEM AUGER DRILLING EQUIPMENT: MOBILE B-61 SAMPLING METHOD: 2' DRIVE SAMPLER HAMMER WEIGHT and FALL: 140 lb. 30" DESCRIPTION DESCRIPTION ABI: 0.0 - 0.6; Asphalt. 3" Aggregate Base. 1 ABI: 0.0 - 0.6; Asphalt. 3" Aggregate Base. 1 O.6 - 19.0; Clayey Sand: dark gray. slighty moist, strong hyd. odor. ALL ENVIRONMENTAL, INC. Page 1 of 2 ALL ENVIRONMENTAL, INC. Page 1 of 2	PROJECT: GONG # 1434	LOC OF WELL NI	IMPED. MULO			
DRILLING CONTRACTOR: GREGG DRILLING DRILLING METHOD: HOLLOW STEM AUGER DRILLING EQUIPMENT: MOBILE B-61 SAMPLING METHOD: 2° DRIVE SAMPLER HAMMER WEIGHT and FALL: 140 lb, 30° DESCRIPTION DESCRIPTI			•			
DRILLING METHOD: HOLLOW STEM AUGER DRILLING EQUIPMENT: MOBILE B-61 DRILLING EQUIPMENT: MOBILE B-61 SAMPLING METHOD: 2" DRIVE SAMPLER HAMMER WEIGHT and FALL: 140 lb, 30" PESSON DESCRIPTION WELL CONFERCE Well Cover Coment Grout Occument Grout Description DES	DRILLING CONTRACTOR: GREGG DRILLING		T			
DRILLING EQUIPMENT: MOBILE B-61 SAMPLING METHOD: 2" DRIVE SAMPLER HAMMER WEIGHT and FALL: 140 lb, 30" DESCRIPTION DESCRIPTION AB: O.O - 0.6: Asphalt, 3" Aggregate Base. O.6 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.6 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.6 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.6 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.7 - 0.6 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.6 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.7 - 0.6 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.7 - 0.6 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.8 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.8 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.8 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor. O.8 - 19.0; Clavey Sand (cont.), dark greenish gray, strong hyd. odor.						
SAMPLING METHOD: 2" DRIVE SAMPLER HAMMER WEIGHT and FALL: 140 lb, 30" RESPONSIBLE PROFESSIONAL: JPD SOME USES DESCRIPTION AB: 0.0 - 0.6: Asphalt, 3" Aggregate Base. 1						
SAMPLES SOIL DESCRIPTION SAMPLES CONSTRUCTION DETAILS	SAMPLING METHOD: 2" DRIVE SAMPLER	LOGGED BY: BC	CABANG. 2 TVC			
AB 0.0 - 0.6: Asphalt, 3" Aggregate Base.			SSIONAL: JPD			
1 - 2 - 3 - 3 - 4 - SC	E SOIL SYMBOLS DESCRIPTION	SAMPLES NOT BROWN COUNTS C	ONSTRUCTION			
ALL ENVIRONMENTAL, INC. page 1 of 2	0.0 - 0.6; Asphalt, 3" Aggregate Base. 1	S-1 2 3 5-1 5	Universal Well Cover Locking Wing Nut Neat Cement Grout Blank SCH 40 PVC (2") Bentonite No. 3 Monterey Sand			
	ALL ENVIRONMENTAL	, INC. pag	ge 1 of 2			

PROJECT: GONG #1434		LOG	LOG OF BOREHOLE: MW-2					
# _ ·					SAMPLES		WELL	
(feet)	SOIL SYMBOLS	DESCRIPTION		SAMPLE NO.	INTERVAL	BLOW	CONSTRU DETAI	CTION
5 —					V			
		0.6 - 19.0; <u>Clayey Sand</u> (cont.)	· · <u>-</u>	0.6	X.			
6 –	sc		. · · · <u>-</u>	S-3	\$ <u> </u>			
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7 —			· 				1: []:	

8 —			·					End (
9								End
		Terminated at 19.0'						
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		ALL ENVIRONMENTAL	. INC	ŗ			page 2 of	2

PROJEC: GONG # 1434	LOG OF WELL NU	MBER: MW-3				
BORING LOC.: REFER TO SITE PLAN		77.74				
DRILLING CONTRACTOR: GREGG DRILLING	START DATE: 9/11/96	END DATE: 9/11/96				
DRILLING METHOD: HOLLOW STEM AUGER	TOTAL DEPTH: 20	SCREEN INT: 9'-20'				
DRILLING EQUIPMENT: MOBILE B-61	DEPTH TO WATER: 12.5'	CASING: 2" PVC				
SAMPLING METHOD: 2" DRIVE SAMPLER	LOGGED BY: BC					
HAMMER WEIGHT and FALL: 140 lb, 30"	RESPONSIBLE PROFE	SSIONAL: JPD				
E SOIL SYMBOLS DESCRIPTION	SAMPLE SOUNTERVALLE SOUNTERVALL	WELL CONSTRUCTION DETAILS				
0.0 - 0.6; Asphalt, 3" Aggregate Base. 1 - 2 - 3 - 4 - CL 0.6 - 15.0; Clay: grayish balck, slightly moist, no hyd. odor. 5 - 6 - 7 - 8 - 9 - 0.6 - 15.0; Clay (cont.) 10 - 11 - 12 - 13 - 14 - 14 - 14 - 14 - 15 - 15 - 15 - 15	7 8 S-1 10 10 S-2 14	Well Cover Locking Wing Nut Neat Cement Grout Blank SCH 40 PVC (2") Bentonite Bentonite O20" Slotted Well Screen				
ALL ENVIRONMENTAL,	INC. pag	e 1 of 2				

PR	PROJECT: GONG #1434			LOG OF BOREHOLE: MW-3						
F_	·	SA			SAMPLES WELL					
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION		SAMPLE NO.	BLOW	CONSTI	RUCTION TAILS			
15 —					4					
16	sc	15.0 - 19.0; <u>Clayey Sand</u> ; pale yellowish brown with dark yellowish orange modeling, very moist, no hyd. odor.	_	S-3	8 12					
17 —										
18 —			_							
19-			-							
						-	End Cap			
20		Terminated at 20.0'								
21-										
22	2									
23 —										
24										
25 —										
26-										
27-										
28-										
29 —										
30										
31-										
		ALL ENVIRONMENTAL,	INC	•		page 2 o	of 2			

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