ALAMEDA COUNTY

HEALTH CARE SERVICES







August 30, 2001

Mr. Kevin Romak Romak Iron Works 380 Industrial Court Benicia, California 94510-1138 ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

ENVIRONMENTAL HEALTH SERVICES

RE: Fuel Leak Site Case Closure (STID # 379 / RO # 249)

Romak Iron Works 3250 Hollis Street, Oakland, California 94608

Dear Mr. Romak:

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 Services, Local Oversight Program 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:

- Eleven parts per million (ppm) Total Petroleum Hydrocarbon (TPH) as Gasoline; 0.12 ppm benzene; 0.01 ppm toluene; 0.10 ppm ethylbenzene; and 0.40 ppm xylene remain in soil at the site.
- Eight hundred forty parts per billion (ppb) TPH gasoline; 1,100 ppb TPH diesel; 55 ppb benzene; 0.7 ppb toluene; 7.5 ppb ethyl benzene and 23 ppb methyl tertiary butyl ether (MTBE) remain in groundwater beneath the site.
- A risk management plan (RMP) is required to address residual soil and groundwater contamination left at the site
 during any construction activities at the subject site.

If you have any questions, please contact me at (510) 567-6780. Thank you.

Sincerely,

Susan L. Hugo

Acting Supervisor, Hazardous Materials Specialist

Enclosures:

- 1. Case Closure Letter
- 2. Case Closure Summary
- c: Leroy Griffin, Oakland Fire Department, 1605 Martin Luther King Jr. Way, Oakland, CA 94612 SH / files

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

August 30, 2001

Mr. Kevin Romak Romak Iron Works 380 Industrial Court Benicia, California 94510-1138

RE: RO# 249 / STID# 379

Romak Iron Works

3250 Hollis Street, Oakland, California 94608

Dear Mr. Romak:

This letter confirms the completion of a site investigation and remedial action for the two 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 tanks are greatly appreciated.

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

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

c: Chuck Headlee, San Francisco Bay RWQCB
Dave Deaner, SWRCB, UST Cleanup Fund Program (with enclosure)
Leroy Griffin, Oakland Fire Services
SH / file

HEALTH CARE SERVICES

AGENCY





ENVIRONMENTAL HEALTH SERVICES

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

August 3, 2001

Mr. Kevin Romak Romak Iron Works 3250 Hollis Street Oakland, California 94608

SUBJECT: Case Closure for Romak Iron Works (STID# 379 / RO #249)

3250 Hollis Street, Oakland, California 94608

Dear Mr. Romak:

This letter serves to notify you that this office has received concurrence from the San Francisco Bay RWQCB to close the case file for the above referenced site. The groundwater monitoring well (MW-1) at the site must be properly decommissioned. You can proceed with the well abandonment at the site. Please contact Alameda County Public Works for permit requirements to abandon the well. A well abandonment report must be submitted prior to the issuance of the Remedial Action Completion Certification.

Please notify this office at least 72 hours of the well abandonment work at the site. I can be reached at (510) 567-6780 if you have any questions regarding this letter or the subject site.

Sincerely,

Susan L. Hugo

Acting Supervisor

Hazardous Materials Specialist

Chuck Headlee, San Francisco Bay RWQCB
 Robert Kitay, ASE, 208 West El Pintado, Danville, CA 94526
 SH / files

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: July 25, 2001

Agency Name: Alameda County-HazMat Address: 1131 Harbor Bay Parkway

City/State/ Zip: Alameda, CA 94502 Phone: (510) 567-6700

Responsible Staff Person: Susan L. Hugo Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Romak Iron Works
Site Facility Address: 3250 Hollis Street

RB LUSTIS Case No.: N/A Local Case No./ LOP Case No. 379 / RO #249

URF Filing Date: 01/27/92 SWEEPS No.: N/A

Responsible Parties: Addresses: Phone Numbers: Romak Iron Works 3250 Hollis Street (510) 658-0588

Attn: Kevin Romak Oakland, CA 94608

Tank No: Size in gal. Contents: Closed in-place or removed?: Date:

1 1,000 Unleaded Gasoline Removed 01/15/92 2 1,000 Unleaded Gasoline Removed 01/15/92

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**Site characterization complete: **Yes**Date approved by oversight agency: 8/4/2000

Monitoring wells installed? **Yes**

Pate approved by oversight agency, 6442666

Number: One (1) Proper screened interval? Yes (5 feet to 22 feet depth)

Highest GW depth below ground surface: 5.13 feet Lowest depth: 12.54 feet

Flow direction: West to southwest Most sensitive current use: Commercial / Light Industrial

Are drinking water wells affected? NO Aquifer Name: Unknown
Is surface water affected? Unknown Nearest affected SW name: NA

Off-site beneficial use impacts (address / location): Unknown

Report (s) on file? Yes

Where is report (s) filed? Alameda County, 1131 Harbor Bay Parkway, Alameda, CA 94502

Treatment and Disposal of Affected Materials:

Materials Amount (Include Units) Action (Treatment /or Disposal w/ Destination) Date

Tank 2-1,000 gallons Disposed @ Erickson, Richmond, CA 01/15/92

Soil 20 cubic yards Aerated and reused at site

Water / Oil 200 gallons Recycled at Demenno Kerdoon, Compton, CA 01/15/92

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program Page 2 of 4

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	So	il (ppm)	Wat	er (ppb)
	Before*	After**	Before***	After***
TPH gasoline	180	11	12,000	840
TPH Diesel	-	-	7,600	1,100
Benzene	0.51	0.12	7.6	55
Toluene	0.27	0.01	9.7	0.7
Ethylbenzene	0.12	0.10	9,9	7.5
Xylene	17.0	0.40	29	<0.5
MTBE	-	(<0.005)		23

- * Soil sample (AEAST) collected following removal of the tank in 1992.
- ** Confirmation soil sample (OEXC-1A) collected following overexcavation in 1992.
- *** Groundwater sample collected from monitoring well (MW-1) collected on 8/4/93.
- *****Groundwater sample collected from well MW-1 on 8/17/00 which was the last sampling conducted at site. MTBE was not detected in any of the soil samples collected from the six borings drilled in 2000.

Comments (Depth of Remediation, etc.): See "Additional Comments" section.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?

UNKNOWN

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan ? **UNKNOWN**

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

Site management requirements: A risk management plan (RMP) is required to address residual soil and groundwater contamination left at the site during any construction activities at the subject site.

Should corrective action be reviewed if land use changes ? YES

Monitoring wells Decommissioned: NO (will decommission upon closure of the case)

Number Decommissioned: NA

Number Retained: ONE

List enforcement actions taken: NONE

List enforcement actions rescinded: NA

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program Page 3 of 4

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Susan, L. Hugo Title: Acting Manager, LOP Program

Signature: Susan & Augs Date: 8/1/01

Reviewed by:

Name: Ariu Levi Title: Chief, Environmental Health Department

Signature: Date: f/2/o)

VI. RWOCB NOTIFICATION

Date Submitted to RB: RB Response:

RWQCB Staff Name: Chuck Headlee Title: Associate Engineering Geologist

Signature: Chief Headle Date: 8/3/01

VII. ADDITIONAL COMMENTS, DATA, ETC.

The subject site is located at 3250 Hollis Street in Oakland, close to city boundary of Emeryville. In January 1992, two underground gasoline storage tanks (USTs) were removed from the site. Soil sample collected following the removal of the USTs showed contamination listed in Table 1. Approximately 20 cubic yards of contaminated soil was overexcavated on January 16, 1992 and confirmatory soil samples were collected (see Table 2).

On June 30, 1993, soil boring BH-A was drilled approximately 10 feet southwest of the former tank pit in the assumed downgradient direction (based on groundwater data from a neighboring site located at 3421 Hollis Street). Monitoring well MW-1 was installed in boring BH-A. Soil sample collected from the boring at six feet depth showed no detectable level of petroleum hydrocarbon contamination. However, groundwater sample collected from the well found elevated concentration of petroleum hydrocarbon (see Table 4). Sheen was also detected in the well. Groundwater monitoring was conducted from 1993 to 2000 from well MW-1. Sheen was detected during the entire monitoring period until 1999.

In August 2000, six borings (BH-A to BH-F) were drilled to define the extent of soil and groundwater contamination at the site. The borings were drilled at depths ranging from 7.5 feet to 19.0 feet. Soil samples collected from the six borings

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program Page 4 of 4

showed no detectable level of petroleum hydrocarbons. Groundwater samples collected from the six borings showed non-detect to very low levels of Total Petroleum Hydrocarbon (TPH) as diesel (150 parts per billion {ppb}) and xylenes (0.81 ppb). Groundwater monitoring well MW-1 was also sampled during this time and showed decreasing petroleum hydrocarbon concentrations (see Table 5).

This case appears to be a "Low Risk Soil and Groundwater Case" as described in the San Francisco Bay Regional Water Quality Control Board (RWQCB) memorandum dated January 5, 1996 based on the following rationale:

- 1. The leak has been stopped and ongoing sources have been removed. The subject tanks were removed in 1992 and contaminated soil was overexcavated. Sheen was detected in the well from 1993 to 1999. However, during the last two samplings conducted in March and August 2000, no sheen was found.
- 2. The site has been adequately characterized. Monitoring well MW-1 was installed in 1993 and six additional borings (BH-A to BH-F) were drilled in 2000. No significant contamination was detected during the additional characterization conducted in 2000. Residual contaminants do not appear to be migrating off-site.
- 3. Groundwater at the site is not used as drinking water source. There are no known municipal or residential water wells or surface water bodies that are expected to be impacted from the release at the site.
- The site presents no significant risk to human health. Residual soil and groundwater contamination do not pose a
 risk under the current land use scenario.
- 5. A risk management plan will be required during any construction activities at the subject site. In addition, the site will be entered in Oakland's Permit Tracking System.

TABLE ONE: SOIL SAMPLE RESULTS, TOTAL PETROLEUM HYDROCARBONS GASOLINE & BENZENE, TOLUENE, ETHYLBENZENE, XYLENE

Sample NO.	TPH GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
110.	(PPM)	(PPB)	(PPB)	(PPB)	(PPB)
				~	
AWEST	2.7	13	5.3	16	170
AEAST	180	510	270	120	17000
ASTKP	850	770	610	4900	60000
BNORTH	N.D.	N.D.	N.D.	N.D.	N.D.
BSOUTH	N.D.	N.D.	N.D.	N.D.	13
BSTKP	1.5	N.D.	N.D.	N.D.	150
3DISP10	F1 N.D.	N.D.	N.D.	N.D.	N.D.

ND - Non Detectable at analytical method limits

PPM - parts per million

PPB - parts per billion

TABLE TWO: SOIL SAMPLE RESULTS, TOTAL PETROLEUM HYDROCARBONS GASOLINE & BENZENE, TOLUENE, ETHYLBENZENE, XYLENE

Sample	TPH GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
NO.	(PPM)	(PPB)	(PPB)	(PPB)	(PPB)
OEXC-1A	. 11	120	7.2	99	400
OEXC-2B		78	13	16	56
-		N.D.	N.D.	N.D.	N.D.
OEXC-3C				N.D.	N.D.
OEXC-4D	N.D.	N.D.	N.D.	IA'D'	14.55.

ND - Non Detectable at analytical method limits

PPM - parts per million

PPB - parts per billion

In total, approximately 20 cubic yards of material were removed from the excavation and stockpiled.

5.0 BACKFILLING AND RESURFACING

At the request of Danny Sutton, the purchasing agent of Romak Iron Works the tank pit was not backfilled and resurfaced. The excavated material and the clean imported backfill material is stockpiled next to the excavation.

6.0 DISCUSSION AND CONCLUSIONS

Two 1,000 gallon underground storage tanks last containing gasoline were removed from the site and transported as hazardous waste to the Erickson Facility in Richmond California, to be cleaned and disposed of as scrap metal.

6

TABLE THKEE

Summary of Chemical Analysis of SOIL BORING BH-A Samples TPH₇G and BTEX

Sample I.D.	TPH Gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)
BH-A 6.0'	<1.0	< 0.0050	<0.0050	<0.0050	<0.0050
EPA METHOD	5030/ 8015	8020	8020	8020	8020

ppm = parts per million

Summary of Chemical Analysis of GROUNDWATER Samples
TPH-G and BTEX

Sample I.D.	TPH Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)
MW-1	12,000	7.6	9.7	9.9	29
DTSC MCL	Not Established	1.0	100*	680	1,750
EPA METHOD	5030/ 8015	602	602	602	602

ppb = parts per billion

DTSC = California EPA Department of Toxic Substance Control

MCL = maximum contaminant level for drinking water

* = DTSC recommended action level for drinking water; MCL not established

8.0 CONCLUSIONS AND RECOMMENDATIONS

No hydrocarbons were detected in the soil sample collected from 6.0 to 6.5-feet bgs in boring BH-A.

12,000 ppb TPH-G and between 7.6 and 29 ppb BTEX were detected in groundwater samples from well MW-1. The benzene concentration of 7.6 ppb exceeds the DTSC MCL of 1 ppb.

ASE recommends sampling the groundwater monitoring well quarterly (every three months) for one year. A report of the analytical results should be forwarded to the ACHCSA and the California Regional Water Quality Control Board - San Francisco Bay Region (RWQCB).

9.0 REPORT LIMITATIONS

The results of this investigation represent conditions at the time of the soil

TABLE ONE FIVE Certified Analytical Results of GROUNDWATER Samples Monitoring Well MW-1 TPH-G, TPH-D, BTEX and MTBE All results are in parts per billion

		Sampling Date	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
		08-04-93	12,000		7,6	9.7	9.9	29 '	
due	9.65	11-18-93	10,270		3,169	<i>38</i> .3	661.2	659.4	
4.4.	11.04	02-09-94	17,000		6,200	64	<i>770</i>	420	
du	12. 42	<i>0</i> 5-25-94	24,000		6,200	27	1,100	210	
green	13.44-	→ 08-18-94	22,000		5,000	10	740	150	
Syen	12.54	11-14-94	20,000 20,000	ene 4,200	4,200	25	860	450	
dy	9.50	- 02 <i>-03-</i> 95 -	20,000	4,600	3,400	11	810	100	
Ship	-11.63	→ 05-02-95	21,000	3,400	3,100	21	910	13 <i>0</i>	
Sun	165	* 08-08-95	17,000	1,800	2,800	11	680	63	
Syllow	9.17	1 1-13-95	17,000	<1,000	2,300	8	55 <i>0</i>	69	
Juan	(),=(~	02-16-96	8,900	7,600	3,100	21	760	474	< 40
Shen	5.13 -	- 05-17-96	9,900	1,400	2,100	6	560	23	120
		08-01-96	11,000	5,100 ²	1,600	14	580	66	< 5 <i>0</i>
Shen	10.06	\1 1-12-96	13,000	6,000	910	27	440	440	85
Spelle	5.64	- 02-06-97	16,000	7,000	1,200	17 <i>0</i>	660	410	< 500
Jun	COY	- 05-21-97	8,600	2, <i>900</i> '	720	< 10	460	41	17 <i>0</i>
sheen	. gibl	- 09-24-97	6,400	2,600	52 <i>0</i>	12	310	13	210
cheen	7.4	-03-04-98	6,500	3,300 ²	650	2.3	290	35	98
5 10 ·	7.65	~ 09-18-98	5,400	2,000	980	1 1	150	24	< 50
dreen	, 1.21.	- 03-10-99	6,600	2,500 ²	470	85	130	20	< 50
.1	9.28	- 09-09-99	2,300	2,400 ²	33 <i>0</i>	11	48	19	61
Shew	٠,٠٠	03-02-00	6,700 ²	6702	440	< 2.5	65	< 2.5	77
		08-17-00*	840 ²	1,100 ²	55	0.74	7.5	< 0.5	23

Notes:

--- = Not analyzed

NE = Not established

DHS= California Department of Health Services MCL = maximum contaminant level for drinking water

1 = motor oil detected

2 = Fuel pattern does not match hydrocarbon standard

* = Motor Oil detected at 700 parts per billion

TABLE THO SIX

Summary of Chemical Analysis of SOIL Samples

Romak Iron Works - Collected on August 17, 2000

Petroleum Hydrocarbons

All results are in parts per million

Boring - Depth	TPH Gasoline	TPH Diesel	TPH Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
BH-A-15.5'	< 1.0	< 1.0	< 50	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-B-7.5'	< 1.0	< 1.0	< 50	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-C-18.0°	< 1.0	< 1.0	< 50	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-D-18.0'	< 1.0	< 1.0	< 5 <i>0</i>	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-E-19.0'	< 1.0	< 1.0	< 5 <i>0</i>	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BH-F-11.5'	< 1.0	< 1.0	< 5 <i>0</i>	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Notes:

MTBE = Methyl-t-butyl ether

PRG = United States Environmental Protection Agency Region IX Preliminary Remediation Goal for Residential Soil.

NE = PRG has not been established.

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in bold.

TABLE THREE SEVEN

Summary of Chemical Analysis of GROUNDWATER Samples

Romak Iron Works - Collected on August 17, 2000

Petroleum Hydrocarbons

All results are in parts per billion

Boring	TPH Gasoline	TPH Diesel	TPH Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
ВН-А	< 50	< 71**	< 710**	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
ВН-В	< 50	< <i>8</i> 3	< 830**	< 0.5	< <i>0.</i> 5	< 0.5	< 0.5	< 5.0
вн-с	< 50	150*	< 770**	< 0.5	< 0.5	< 0.5	0.8	< 5.0
ВН-О	< 50	< 100**	< 1,000**	< 0.5	< <i>0</i> .5	< 0.5	< 0.5	< 5.0
BH-E	< 50	< 61**	< 610**	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
BH-F	< 50	< 59**	< 590**	< 0.5	< 0.5	< 0.5	0.81	< 5.0
DHS MCL -	ra - NE∵	NE ME	ME NE	1	150	700		15.

Notes:

MTBE = Methyl-t-butyl ether

DHS MCL is the California Department of Health Services maximum contaminant level for drinking water.

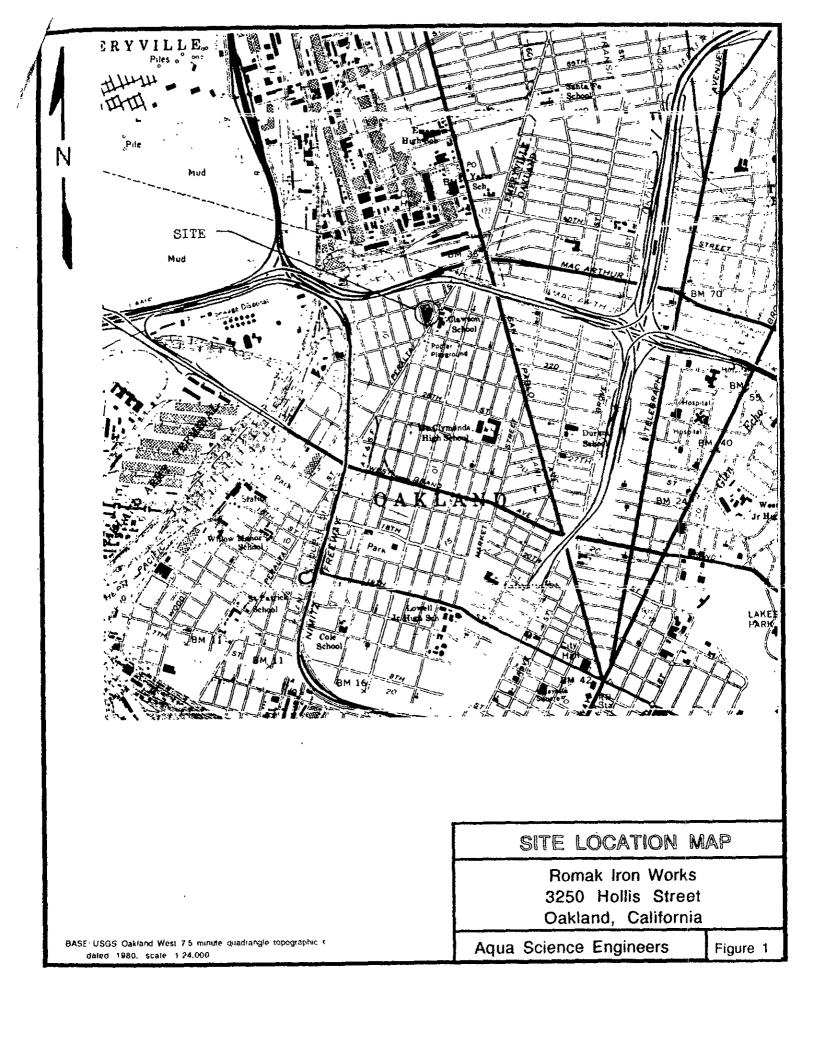
NE = DHS MCLs are not established.

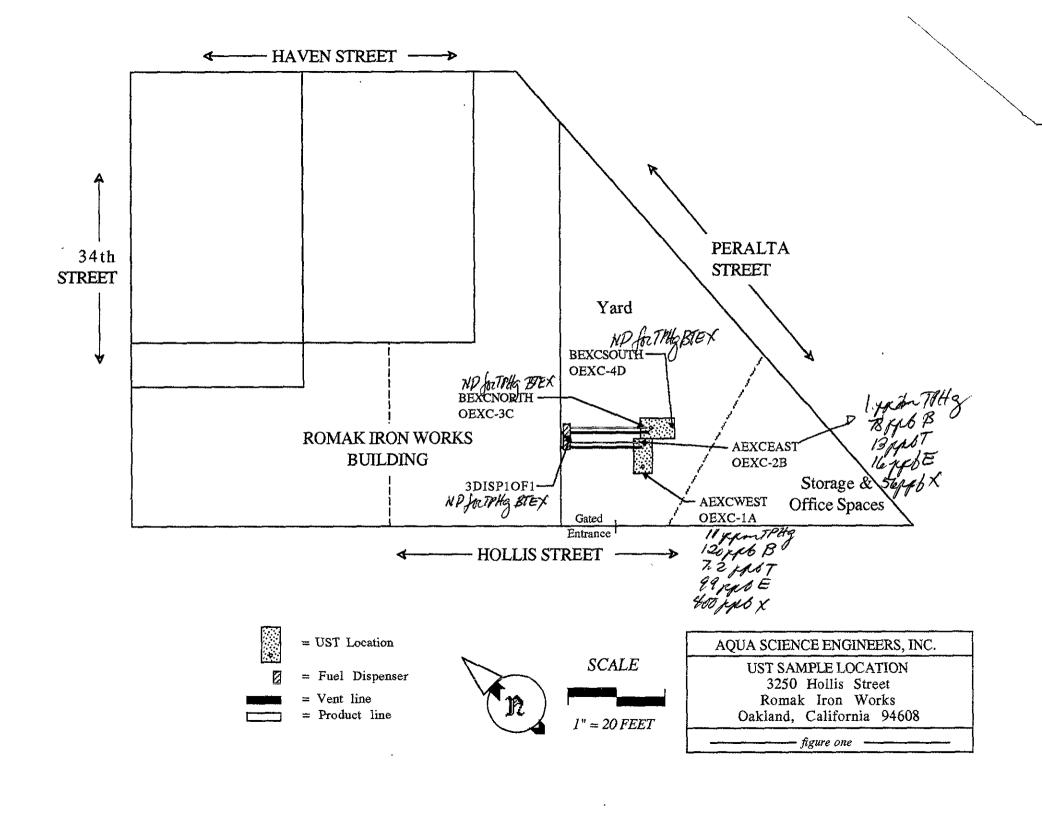
Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

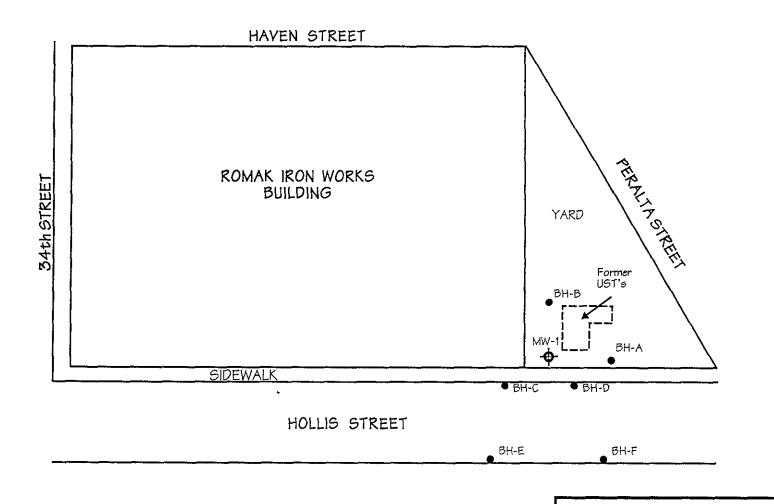
Detectable concentrations are in bold.

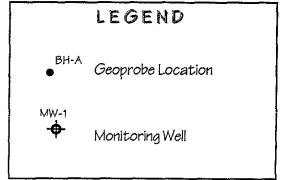
^{*} Hydrocarbon reported does not match the laboratory diesel standard.

^{**} Laboratory detection limits raised due to limited samples size.











MONTORING WELL AND BORING LOCATION

Romak Iron Works 3250 Hollis Street Oakland, California

AQUA SCIENCE ENGINEERS, INC.

FIGURE 2

Project Name: Romak Iron Works Project Location: 3250 Hollis St., Oakland, CA Page 1 of 1 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter Logged By: Ian T. Reed Date Drilled: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 16' Well Screen Type and Diameter: NA Static Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. O Asphalt Sandy SILT (ML); dark brown; damp; stiff; 75% silt; 25% fine to coarse sand; trace clay; very low plasticity; low estimated K; no odor Silty CLAY (CL); light brown; damp; very stiff; 60%	TOPING LOC AND MONITOPING WE	L COMPLETION PETALLO DE LA SULA
Driller: Vironex Logged By: Ian T. Reed Date Drilled: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 16' Static Depth of Water in Well: NA Total Depth of Boring: 24.0' BORING DETAIL BORING DETAIL Depth of Water First Encountered: 16' SOIL/ROCK SAMPLE DATA Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0' 1.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-statining, USCS designation. Asphalt Sandy SILT (ML): dark brown; damp; stiff; 75% stit; 25% fine to coarse sand; low plasticity; very low estimated K; no odor Sity CLAY (CL): giron brown; damp; very stirf; 60% clay; 20% sit; 20% fine to medium sand; 20% slit; trace gravel; medium plasticity; very low estimated K; no odor 20 End of Boring at 24.0' End of Boring at 24.0'		
Logged By: Ian T. Reed Date Drilled: August 17, 2000 Checked By: Robert E. Kitey, R.G. WATER AND WELL DATA Depth of Water First Encountered: 16' Static Depth of Water in Well: NA Total Depth of Water in Well: NA Total Depth of Boring: 24.0' Total Depth of Boring: 24.0' BORNG DETAIL BORN		ation: 3250 Hollis St., Oakland, CA Page 1 of 1
WATER AND WELL DATA Depth of Water First Encountered: 16' Static Depth of Water in Well: NA Total Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0" LD, Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-statining, USCS designation. Asphalt Sandy SILT (ML); dark brown; damp; very stiff; 60% clay; 20% silt; 20% fine to coarse sand; low plasticity; very low estimated K; no odor Asphalt Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor 15 Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor	Driller: Vironex Type of Rig:	Geoprobe Size of Drill: 2.0" Diameter
Depth of Water First Encountered: 16' Static Depth of Water in Well: NA Total Depth of Boring: 24.0' Total Depth of Boring: 24.0' BORING DETAIL BORING DETAIL O Asphalt Sandy SILT (ML); dark brown; damp; stiff; 75% silt; 25% fine to coarse sand; low plasticity; very low estimated K; no odor Solity CLAY (CL); light brown; damp; very sliff; 80% clay; 20% silt; 20% silt; 20% silt; 100 coarse sand; low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor End of Boring at 24.0'	Logged By: Ian T. Reed Date Drilled	: August 17, 2000 Checked By: Robert E. Kitay, R.G.
Static Depth of Water in Well: NA Total Depth of Borling: 24.0' Type and Size of Soil Sampler: 2.0' I.D. Macro Sampler DESCRIPTIONOF LITHOLOGY Sampler: 2.0' I.D. Macro Sampler DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Asphalt Sandy Silt. (Mt.); dark brown; damp; stiff, 75% silt; 25% fine to coarse sand; trace clay; very low plasticity; low estimated K; no odor 10 15 Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 20% silt; 20% silt; trace grave; medium plasticity; very low estimated K; no odor 15 Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor 15 Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor 25 End of Boring at 24.0'	WATER AND WELL DATA	Total Depth of Well Completed: NA
Total Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. O Asphatt Sandy SILT (ML); dark brown; damp; stiff; 75% silt; 25% fine to coarse sand; low plasticity; very low estimated K; no odor O Sity CLAY (CL); light brown; damp; very stiff; 60% clay; 30% fine to medium sand; 20% silt; trace gravel; medium plasticity; very low estimated K; no odor End of Boring at 24.0' End of Boring at 24.0'	Depth of Water First Encountered: 16'	Well Screen Type and Diameter: NA
SOIL/ROCK SAMPLE DATA BORING DETAIL Solid Region of Boring at 24.0' Sign of Boring DETAIL Solid Region of Boring at 24.0' DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCIS designation. Asphalt Sandy SILT (ML); dark brown; damp; stiff; 75% slit; 25% fine to coarse sand; trace clay; very low plasticity; iow estimated K; no odor Sity CLAY (CL); light brown; damp; very stiff; 60% clay; 20% slit; 20% fine to coarse sand; low plasticity; very low estimated K; no odor Sity CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% slit; trace gravel; medium plasticity; very low estimated K; no odor End of Boring at 24.0'	Static Depth of Water in Well: NA	Well Screen Slot Size: NA
DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Asphalt Sandy SILT (ML); dark brown; damp; stiff; 75% silt; 25% fine to coarse sand; trace clay; very low plasticity; low estimated K; no odor Sity CLAY (CL); light brown; damp; very stiff; 60% clay; 20% silt; 20% fine to coarse sand; low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace gravel; medium plasticity; very low estimated K; no odor End of Boring at 24.0' End of Boring at 24.0'		
Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Asphalt Sandy SiLT (ML); dark brown; damp; stiff; 75% slit; 25% fine to coarse sand; trace clay; very low plasticity; low estimated K; no odor Silty CLAY (CL); light brown; damp; very stiff; 60% clay; 20% silt; 20% fine to coarse sand; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace grave; medium plasticity; very low estimated K; no odor		DESCRIPTION OF LITHOLOGY
Asphalt Sandy SILT (ML); dark brown; damp; stiff; 75% silt; 25% fine to coarse sand; trace clay; very low plasticity; low estimated K; no odor Silty CLAY (CL); light brown; damp; very stiff; 60% clay; 20% silt; 20% fine to coarse sand; low plasticity; very low estimated K; no odor Sandy CLAY (CL); light brown; damp; very stiff; 60% clay; 20% silt; 20% fine to coarse sand; low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace gravel; medium plasticity; very low estimated K; no odor End of Boring at 24.0'	Descriptic Descriptic Sound Slow Coun Graphic Graphic Graphic Graphic Graphic Description of the country of the	standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
. Aqua science engineers, 1nc.	-0	Sandy SILT (ML); dark brown; damp; stiff; 75% silt; 25% fine to coarse sand; trace clay; very low plasticity; low estimated K; no odor Silty CLAY (CL); light brown; damp; very stiff; 60% clay; 20% silt; 20% fine to coarse sand; low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown; very moist; stiff; 50% clay; 30% fine to medium sand; 20% silt; trace gravel; medium plasticity; very low estimated K; no odor End of Boring at 24.0'

. / .				
OIL BORING LOG AND MONIT	ORING WELL	COMPLETION	DETAILS Boring: BH-B	
Project Name: Romak Iron Works	Project Location	on: 3250 Hollis St.,	Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: G	eoprobe	Size of Drill: 2.0" Diamete	er
Logged By: Ian T. Reed	Date Drilled:	August 17, 2000	Checked By: Robert	E. Kitay, R.G.
WATER AND WELL DATA		Total Depth of Wel	Il Completed: NA	
Depth of Water First Encountered: 20	.0'	Well Screen Type	and Diameter: NA	
Static Depth of Water in Well: NA	 	Well Screen Slot S	Size: NA	
Total Depth of Boring: 28.0'			Soil Sampler: 2.0" I.D. Macro	Sampler
W	SAMPLE DATA	Feet	DESCRIPTION OF LITHOLO)GY
Description Description Interval Blow Counts	Water Level Graphic Log	.⊑ standar	d classification, texture, restiffness, odor-staining, US	
-0 		silt; 40% of estimated k Silty CLAY very stiff; plasticity; very slight 10 speckled g trace grave 15 Silty SANE to medium medium es Silty CLAY very stiff;	(CL); light brown with spec 60% clay; 30% silt; 10% fix very low estimated K; no on the hydrocrabon odor at 7.5' treen, slight hydrocarbon odor et to 0.5" diameter (CM): brown; wet; medium sand; 30% silt; 10% clay; stimated K; no odor (CL); light brown with spect 60% clay; 30% silt; 10% fix very low estimated K; no odor	kled gray; damp; ne sand; low dor stiff; 60% fine low plasticity; ded gray; damp; ne sand; low
-30		30	End of Boring at 28.0'	
			aqua science engli	veers, inc.

Project Name: Romak Iron Works Driller: Vironex Type of Rig: Geoprobe Logged By: Ian T. Raed Date Drilled: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND. WELL DATA Depth of Water First Encountered: 13.0' Static Depth of Water in Well: NA Total Depth of Boring: 24.0' Type and Size of Drill: 2.0" LD. Macro Sampler Well Screen Type and Diameter: NA Well Screen Stot Size: NA Type and Size of Soil Sampler: 2.0" LD. Macro Sampler DETAIL Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0" LD. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. O Concrete Sandy SiLT (ML); brown to light brown; damp; very stiff; 60% silt; 20% fine to coarse sand; 20% clay; 10w plasticity; very low estimated K; no odor 10 brown to light brown; 70% clay; 20% silt; 10% fine sand wet at 13' gray to light brown; 70% clay; 30% silt; 10% fine sand wet at 13' gray to light brown; 70% clay; 30% silt; damp to moist; no odor 20 Centre Sandy Sill Sign Bergin Sill; 10% fine sand wet at 13' gray to light brown; 70% clay; 30% silt; damp to moist; no odor 10 Brown to light brown; 70% clay; 30% silt; 10% fine sand wet at 13' gray to light brown; 70% clay; 30% silt; damp to moist; no odor	Project Name: Romak Iron Works Project Location: 3250 Hollis St., Oakland, CA Page 1 of 1 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0° Diameter Logged By: Ian T. Reed Date Drilled: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 13.0° Static Depth of Water in Well: NA Well Screen Type and Diameter: NA Total Depth of Borling: 24.0° Type and Size of Soil Sampler: 2.0° 1.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DETAIL BORNS DETAIL	DIL BORING LOG AND M	ОПІТО	RING	WELL	COM	PLETION DETAILS Boring: BH-C
Driller: Vironex Logged By: Ian T. Reed Date Drilled: August 17, 2000 Checked By: Robert E. Kilay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 13.0' Static Depth of Water in Well: NA Total Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-steining, USCS designation. O Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor 10 10 10 10 11 10 11 11 12 13 14 15 16 17 18 18 19 19 19 10 10 10 10 11 11 11	Type of Rig: Geoprobe Logged By: Ian T. Reed Date Drillad: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 13.0' Static Depth of Water in Well: NA Total Depth of Water in Well: NA Total Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0' I.D. Macro Sampler DETAIL BORING DETAIL DETA						
Water And Well Screen Type and Diameter: NA Depth of Water First Encountered: 13.0' Static Depth of Water in Well: NA Total Depth of Boring: 24.0' Total Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0" 1.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, rolative moisture, donsity. sliffness, odor-staining, USCS designation. Concrete Soil Concrete Sandy SILT (ML); brown to light brown; tow plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% slit; 10% fine to coarse sand; 20% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown; 70% clay; 20% silt; 10% fine sand wet at 13' gray to light brown; 70% clay; 30% silt; damp to moist; no odor 10 25 End of Boring at 24.0'	WATER AND WELL DATA Depth of Water First Encountered: 13.0" Static Depth of Water First Encountered: 13.0" Well Screen Type and Diameter: NA Well Screen Slot Size: NA Total Depth of Boring: 24.0" DEFAIL DETAIL DESCRIPTION OF LITHCLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown to light brown; very stiff; 60% alit; 20% fine to coarse sand; 20% clay; 10w plasticity; very low estimated K; no odor SIII's CLAY (CL); brown with black speckles; damp; very stiff; 60% alit; 20% fine to coarse sand; 20% clay; 10w plasticity; very low estimated K; no odor DETAIL DETA			Гуре	of Rig: G	eoprobe	Size of Drill: 2.0" Diameter
Total Depth of Water First Encountered: 13.0' Well Screen Type and Diameter: NA	Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Well Screen Type and Diameter: NA Well Screen Stot Size: NA Total Depth of Water In Well: NA Total Depth of Borting: 24.0' BORING DETAIL BORING DETAIL BORING DETAIL BORING DETAIL BORING DETAIL Tell Depth of Borting: 24.0' Tell Depth of Borting: 24.0' Total Depth of Borting: 24.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML): brown to light brown; down estimated K; no odor Stiff, 60% silt; 20% fine to coarse sand; 20% clay; 10w plasticity; very low estimated K; no odor Total Depth of Water In Wall: NA Well Screen Type and Diameter: NA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML): brown to light brown; down; all to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor 10 10 10 10 10 10 10 10 10 1	Logged By: Ian T. Reed	ſ	Date	Drilled:	Augus	17, 2000 Checked By: Robert E. Kitay, R.G.
Berlin of Water First Encountered: 13.0' Static Depth of Water in Well: NA Total Depth of Borling: 24.0' Type and Size of Soil Sampler: 2.0' I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. O Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% cita; 20% fine to coarse sand; 20% clay; tow plasticity; very low estimated K; no odor Sity CLAY (CL); brown with black speckles; damp; very stiff; 60% cita; 30% cit; 10% fine to coarse sand; trace gravel to 0.5' diameter; low plasticity; very low estimated K; no odor 15 15 16 17 18 18 18 19 19 19 19 19 19 19	BORING DETAIL OF THE PROPERTY OF SAMPLE DATA Total Depth of Water First Encountered: 13.0' Well Screen Type and Diameter: NA Well Screen Stot Size: NA Type and Size of Soil Sampler: 2.0' I.D. Macro Sampler DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% silt; 20% fine to coarse sand; trace gravel to 0.5' diameter; low plasticity; very low estimated K; no odor Stiffy CAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5' diameter; low plasticity; very low estimated K; no odor 10 10 10 10 110 120 130 140 150 150 150 150 150 150 15					Total	Depth of Well Completed: NA
Total Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DETAIL DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% silt; 20% fine to coarse sand; 20% clay; low plasticity; very low estimated K; no odor DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% silt; 20% fine to coarse sand; low plasticity; very low estimated K; no odor Sity CLAY (CL); brown with black speckles; damp; very stiff; 60% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown with black speckles; damp; very stiff; 60% silt; 20% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.	Total Depth of Boring: 24.0' Type and Size of Soil Sampler: 2.0' I.D. Macro Sampler DESCRIPTION OF LITHCLOGY standard classification, texture, relative moisture, density, stliffness, odor-staining, USCS designation. Concrete Sandy SiLT (ML): brown to light brown; damp; very stliff, 60% clay; 30% silt; 10% fine to coarse sand; 20% clay; 10% plasticity; very low estimated K; no odor Silty CLAY (CL): brown with black speckles; damp; very stliff, 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5' diameter; low plasticity; very low estimated K; no odor Silty CLAY (CL): brown with black speckles; damp; very stliff, 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5' diameter; low plasticity; very low estimated K; no odor 10 10 10 110 12 13 14 15 15 16 17 18 18 19 10 10 10 10 10 10 10 110 110 110 120 130 140 150 150 160 17 180 180 180 180 180 180 180		d: 13.0	•		Well	Screen Type and Diameter: NA
Soll_PROCK SAMPLE DATA BORING FEATURE BORING FEATURE BORING FEATURE BORING FEATURE FEATURE FEATURE CONCrete Sandy SiLT (ML); brown to light brown; damp; very stiff; 60% slit; 20% fine to coarse sand; 20% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown vith black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown vith black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown vith black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown vith black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; 22% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown vith black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; 22% clay; low plasticity; very low estimated K; no odor	SOIL/ROCK SAMPLE DATA BORING DETAIL SOIL/ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% slit; 20% fine to coarse sand; 20% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); brown to light brown; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor DESCRIPTION OF LITHOLOGY STANDARD AND AND AND AND AND AND AND AND AND AN	Static Depth of Water in Well: No	۸			Well	Screen Slot Size: NA
BORING DETAIL Superbold S	BORING DETAIL Superior Super	Total Depth of Boring: 24.0'				Type	and Size of Soil Sampler: 2.0" I.D. Macro Sampler
SCHING DETAIL Set BORING DETAIL Set Boring at 24.0' Boring at 24.0'	Standard classification, texture, relative moisture, density, stiffness, cdor-staining, USCS designation. Standard classification, texture, relative moisture, density, stiffness, cdor-staining, USCS designation. Concrete			AMPI	LE DATA	eet	DESCRIPTION OF LITHOLOGY
Sandy SiLT (ML); brown to light brown; damp; very stiff; 60% silt; 20% fine to coarse sand; 20% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor brown to light brown; 70% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor brown to light brown; 70% clay; 20% silt; 10% fine sand wet at 13' gray to light brown; 70% clay; 30% silt; damp to moist; no odor End of Boring at 24.0'	Sandy SILT (ML); brown to light brown; damp; very stiff; 60% silt; 20% fine to coarse sand; 20% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor brown to light brown; fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor brown to light brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor brown to light brown; 70% clay; 30% silt; 10% fine sand wet at 13' gray to light brown; 70% clay; 30% silt; damp to moist; no odor End of Boring at 24.0' End of Boring at 24.0'	Description Description Description	Blow Counts OVM (ppmv	Water Level	Graphic	Depth in F	
	. AATA AATAA AATENAT ENAAMEERA MAA	-0 - 10 - 15 - 15 - 15 - 15 - 15 - 15 -	0	₹-		- 10 - 15 - 10 - 15 - 20	Sandy SILT (ML); brown to light brown; damp; very stiff; 60% silt; 20% fine to coarse sand; 20% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); brown with black speckles; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; trace gravel to 0.5" diameter; low plasticity; very low estimated K; no odor brown to light brown; 70% clay; 20% silt; 10% fine sand wet at 13' gray to light brown; 70% clay; 30% silt; damp to moist; no odor

Project Name: Romak fron Works Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0° Diameter Logged By: Ian T. Reed Date Drillod: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 17.0° Static Dapth of Water in Well: NA Total Depth of Boring: 28.0° BORING BORING DETAIL DETAIL DETAIL Total Depth of Boring: 28.0° Checked By: Robert E. Kitay, R.G. Well Screen Stot Size: NA Type and Diameter: NA Well Screen Stot Size: NA Type and Size of Soil Sampler: 2.0° I.D. Macro Sampler DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS dealgnetion. DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS dealgnetion. DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS dealgnetion. DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS dealgnetion. DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS dealgnetion. DESCRIPTION OF LITHOLOGY Stilly CLAY (CL); light brown vith black speckles, damp; stiff, 50% clay; 25% slit; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Silly CLAY (CL); light brown with black speckles, damp; stiff, 60% clay; 25% slit; 15% fine to coarse send; low plasticity; very low estimated K; no odor Silly CLAY (CL); light brown with black speckles; damp; stiff, 60% clay; 25% slit; 15% fine to coarse send; low plasticity; very low estimated K; no odor Silly CLAY (CL); light brown with black speckles; damp; stiff, 60% clay; 25% slit; 15% fine to coarse send; low plasticity; very low estimated K; no odor End of Boring at 28.0° End of Boring at 28.0°	Driller: Vironex Logged By: Ian T. Reed Date Drilled: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 17.0' Static Depth of Water in Well: NA Total Depth of Boring: 28.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler BORING DETAIL BORING DETAIL SolL/ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL): light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
Legged By: Ian T. Reed Date Drillod: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 17.0' Static Depth of Water First Encountered: 17.0' Well Screen Type and Diameter: NA Wall Screen Slot Size: NA Total Depth of Boring: 28.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML): dark brown; damp; very stiff; 70% slit; 25% fine to coarse sand; 10% plasticity; very low estimated K; no odor Concrete Sandy CLAY (CL): light brown with black speckles; damp; stiff; 60% clay; 25% slit; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sitty CLAY (CL): light brown with black speckles; damp; stiff; 60% clay; 25% slit; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sitty CLAY (CL): light brown with black speckles; damp; stiff; 60% clay; 25% slit; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sitty CLAY (CL): light brown with black speckles; damp; stiff; 60% clay; 25% slit; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sitty CLAY (CL): light brown with black speckles; damp; stiff; 60% clay; 25% slit; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sitty CLAY (CL): light brown with black speckles; damp; stiff; 60% clay; 25% slit; 15% fine to coarse sand; low plasticity; very low estimated K; no odor End of Boring at 28.0'	Logged By: Ian T. Reed Date Drilled: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 17.0' Static Depth of Water in Well: NA Total Depth of Boring: 28.0' Type and Size of Soil Sampler: 2.0' I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DETAIL DESCRIPTION OF LITHOLOGY Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Sity CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
WATER AND WELL DATA Depth of Water First Encountered: 17.0" Static Depth of Water in Well: NA Total Depth of Boring: 28.0" Total Depth of Boring: 28.0" SOIL/ROCK SAMPLE DATA BORING DETAIL. BORING DETAIL. SOIL/ROCK SAMPLE DATA BORING DETAIL. SOIL/ROCK SAMPLE DATA BORING DETAIL. SOIL/ROCK SAMPLE DATA SOIL/ROCK SAMPLE DATA BORING DETAIL. SOIL/ROCK SAMPLE DATA SOIL/ROCK SAMPLE DATA SOIL/ROCK SAMPLE DATA Soil/	WATER AND WELL DATA Depth of Water First Encountered: 17.0' Static Depth of Water in Well: NA Total Depth of Boring: 28.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. O Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; low plasticity; very low estimated K; no odor Sity CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
Depth of Water First Encountered: 17.0" Static Depth of Water in Well: NA Total Depth of Boring: 28.0" Total Depth of Boring: 28.0" SOIL/ROCK SAMPLE DATA BORING DETAIL.	Depth of Water First Encountered: 17.0' Static Depth of Water in Well: NA Total Depth of Boring: 28.0' BORING DETAIL SOIL/ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY SITURD BORING DETAIL SOIL/ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% slit; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Sitty CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
Static Depth of Water in Well: NA Total Depth of Boring: 28.0' BORING DETAIL B	Static Depth of Water in Well: NA Total Depth of Boring: 28.0' SOIL/ROCK SAMPLE DATA BORING DETAIL DETAIL O O Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
Total Depth of Boring: 28.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. OCONCINE Sandy SILT (ML); dark brown; damp; very stiff; 70% slit; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Sity CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown to gray; damp; very stiff; 60% clay; 30% fine to coarse sand; 10% slit; very low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown to gray; damp; very stiff; 60% clay; 30% fine to coarse sand; 10% slit; very low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown to gray; damp; very stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Fine sand layer at 22' - 23' End of Boring at 28.0'	Total Depth of Boring: 28.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% slift; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown to gray; damp; very stiff; 60% clay; 30% fine to coarse sand; 10% silt; very low plasticity; very low estimated K; no odor Sandy CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor fine sand layer at 22' - 23' End of Boring at 28.0'	BORING DETAIL SOIL/ROCK SAMPLE DATA For a standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Sity CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sandy CLAY (CL); brown to gray; damp; very stiff; 60% clay; 30% fine to coarse sand; 10% silt; very low plasticity; very low estimated K; no odor Sity CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sity CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Sity CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Fine sand layer at 22' - 23' End of Boring at 28.0'	BORING DETAIL STATE OF THE PROPERTY OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
Sching Detail. Solution Solu	Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
Sandy SILT (ML); dark brown; damp; very stiff; 70% slit; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor 60% clay; 40% silt; trace sand; no odor Sandy CLAY (CL); brown to gray; damp; very stiff; 60% clay; 30% fine to coarse sand; 10% silt; very low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp; stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor fine sand layer at 22' - 23' End of Boring at 28.0'	Sandy SILT (ML); dark brown; damp; very stiff; 70% silt; 25% fine to coarse sand; 5% clay; low plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor
	plasticity; very low estimated K; no odor Silty CLAY (CL); light brown with black speckles; damp stiff; 60% clay; 25% silt; 15% fine to coarse sand; low plasticity; very low estimated K; no odor fine sand layer at 22' - 23'

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS Boring: BH-E										
Project Name: Romak Iron Works	Project Location	on: 3250 Hollis St., Oakland, CA Page 1 of 1								
Driller: Vironex	Type of Rig: Geo	seoprobe Size of Drill: 2.0" Diameter								
Logged By: Ian T. Reed	Date Drilled: A	August 17, 2000 Checked By: Robert E. Kitay, R.G.								
WATER AND WELL DATA		Total Depth of Well Completed: NA								
Depth of Water First Encountered: 12.	5'	Well Screen Type and Diameter: NA								
Static Depth of Water in Well: NA	\	Well Screen Slot Size: NA								
Total Depth of Boring: 24.0'	7	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler								
	SAMPLE DATA	DESCRIPTION OF LITHOLOGY								
Depth in Fe Ballade Interval Interval (ppmax)	Leve	standard classification, texture, relative moisture,								
Depth in Final Bounds Interval Blow Counts OVM (ppmv)	Water Level Graphic Log	standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.								
- ° ∅ ₩	200000000 E	O Concrete Sandy SHT (MI) y double								
		Sandy SILT (ML); dark brown; damp; very stiff; 60% silt; 30% fine to coarse sand; 10% clay; very low plasticity; very low estimated K; no odor								
	-									
		Silty CLAY (CL); light brown; damp; very stiff; 60%								
		clay; 30% silt; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor								
	Y	1 0 wet af 12.5'								
and Cement		wet at 12.5								
	F	,								
-15 \(\) \(\delta\) \(\delta\)		15								
	-									
	-2	20								
- 🛭 🙀 📗										
- 25	L_2	25								
-30		End of Boring at 28.0								
aqua science engineers, inc.										

Project Name: Romak Iron Works Driller: Vironex Type of Rig: Geoprobe Type of Rig: Geoprobe Size of Drill: 2.0" Diameter Checked By: Robert E. Kitay, R.G. Total Depth of Water First Encountered: 12.0" Water And Well. DATA Depth of Water in Well: NA Total Depth of Boring: 16.0" Total Depth of Boring: 16.0" BORING DETAIL. BORING DETAIL. Total Depth of Boring: 16.0" Solution of Boring: 16.0" Concrete Sility CLAY (GL): light brown; damp; very stiff; 60% clay; 30% stil; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor Solution of Boring at 16.0" End of Boring at 16.0" End of Boring at 16.0"	OIL BORING LOG AND MONITORING WELL COMPLETION DETAILS Boring: BH-F									
Driller: Vironox Type of Rig: Geoprobe Size of Drill: 2.0" Dlaneter Checked By: Robert E. Kitey, R.G. Checked By: Robert E. Kitey, R.G. Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Static Depth of Boring: 16.0" Total Depth of Boring: 16.0" Water and Driller: NA Static Depth of Boring: 16.0" BORING DETAIL BORING DETAIL O DETAIL O DEPTH DESCRIPTIONOF-LITHOLOGY Checked By: Robert E. Kitey, R.G. Well Screen Type and Diameter: NA Well Screen Type and Diameter: NA Type and Size of Soil Sampler: 2.0" LD. Macro Sampler DESCRIPTIONOF-LITHOLOGY Standard classification, texture, relative moisture, dansity, stiffness, odor-staining, USCS designation. O Concrete Silly CLAY (CL): light brown; damp; very stiff; 60% clay; 30% elli; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor Well Screen Type and Diameter: NA Type and Size of Soil Sampler: 2.0" LD. Macro Sampler DESCRIPTIONOF-LITHOLOGY Silly CLAY (CL): light brown; damp; very stiff; 60% clay; 30% elli; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Type and Size of Soil Sampler: 2.0" LD. Macro Sampler DESCRIPTIONOF-LITHOLOGY Silly CLAY (CL): light brown; damp; very stiff; 60% clay; 30% elli; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Type and Size of Soil Sampler: 2.0" LD. Macro Sampler DESCRIPTIONOF-LITHOLOGY Silly 100, 100, 100, 100, 100, 100, 100, 100	/									
Logged By: Ian T. Reed Date Drilled: August 17, 2000 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 12.0' Well Screen Type and Diameter: NA Well Screen Stot Size: NA Total Depth of Boring: 16.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. On the control of Boring at 16.0' Total Depth of Water in Well: NA Total Depth of Water in Well: NA Total Depth of Boring: 16.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. On the control of Boring at 16.0' Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Well Screen Stot Size: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. On the control of Boring at 16.0' Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Well Screen Stot Size: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Total Depth of Well Completed: NA Total Depth of Well Completed: NA Well Screen Stot Size: NA Total Depth of Well Completed: NA Total Depth of Well Complet		of Rig: G	eoprobe	Size of Drill: 2.0" Diameter						
Total Depth of Water First Encountered: 12.0' Well Screen Type and Diameter: NA Well Screen Siot Size: NA Total Depth of Boring: 16.0' Type and Size of Soll Sampler: 2.0" I.D. Macro Sampler Description of Water in Well: NA Total Depth of Boring: 16.0' Type and Size of Soll Sampler: 2.0" I.D. Macro Sampler Description of Further Water in Well: NA Description of Water in Well: NA Well Screen Siot Size: NA Total Depth of Boring: 16.0' Type and Size of Soll Sampler: 2.0" I.D. Macro Sampler Description of Further Water in Well: NA Description of Water in Well: NA Well Screen Siot Size: NA Total Depth of Boring: 16.0' Type and Size of Soll Sampler: 2.0" I.D. Macro Sampler Description of Further Water in Well: NA Description of Water in Well: NA Well Screen Type and Diameter: NA Well Screen Siot Size: NA Total Depth of Water in Well: NA Well Screen Type and Diameter: NA Description Of Scription Of Script		Drilled:	August 17, 2000 Checked By: Robert E. Kitay, R.G.							
Depth of Water First Encountered: 12.0' Well Screen Type and Diameter: NA Well Screen Slot Size: NA Total Depth of Boring: 18.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITTHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DETAIL DESCRIPTION OF LITTHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Silly CLAY (CL); light brown; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor wet at 12' End of Boring at 16.0'			Total De	Total Depth of Well Completed: NA						
Stalic Depth of Water in Well: NA Total Depth of Boring: 16.0' Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Silly CLAY (CL); light brown; damp: very stiff; 60% clay, 30% silt; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor Land of Boring at 16.0' End of Boring at 16.0' End of Boring at 16.0'				Well Screen Type and Diameter: NA						
BORING BORING DETAIL DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Sity CLAY (CL); light brown; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor 10 Wet at 12' End of Boring at 16.0' End of B				Well Screen Slot Size: NA						
BORING DETAIL BORING			Type a	and Size of Soil Sampler: 2.0" I.D. Macro Sampler						
BORING DETAIL OF THE LOCATION	SOIL/ROCK SAME	i	eet	DESCRIPTION OF LITHOLOGY						
Silty CLAY (CL); light brown; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor wet at 12' End of Boring at 16.0' End of Boring at 16.0'	Depth in Fe Description Interval Blow Count. OVM (ppmv Water Level	Graphic Log	Depth in F	standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.						
AQUA SCIENCE ENGINEERS, INC.			5 10 15 15 20	Silty CLAY (CL); light brown; damp; very stiff; 60% clay; 30% silt; 10% fine to coarse sand; very low plasticity; very low estimated K; no odor wet at 12' End of Boring at 16.0'						

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS Boring BH-A/Well MW-1									
Project Name: Romak Iron Works	Project	Location: 3250	Hollis Street, Oa		Page 1 of 1				
Driller: Solls Exploration Services	Type and Size of Auger: 8-inch O.D. Hollow-stem.								
Logged By: Robert E. Kitay	July 30, 1993 Checked By: David M. Schultz, P.E.								
WATER AND WELL DATA	Total Depth of Well Completed: 22.0'								
Depth of Water First Encountered: ≈	Well Screen Type and Diameter: 2" Diameter Schedule 40 PVC								
Static Depth of Water in Well: 9.43'	Well Screen Slot	Size: 0.020"							
Total Depth of Boring: 22.0'		Type and Size o	f Soil Sampler:	2" I.D., Calif.	Split-barrel				
5 c SOIL/RO	CK SAMPLE DATA	eet	DESCRIPTION	OF LITHOLO	OGY				
Description Description Description Description Description Description Description	Field VOC (ppmv) Graphic Log	□ standard	classification, stiffness, odor-s	texture, rela staining, USC	tive moisture, S designation.				
Street Box	3333333	O Concre	Concrete surface						
2 ID Sch. 40, 0.020" Slot PVC Casing Bentonite Seal Class "H" Portland Cement of E 2 10 1 1 1 1 1 1 1 1	343 at 5' 0 at 15' 0 at 20'	20% sith no odor -4.0'; 0 75% sith moderal hydrocal hydr	Clayey SILT (ML it; 15% clay; 10 ite plasticity; low arbon odor Silty CLAY (CL); stiff; moist; 80% iy; very low est atic Water Lev coundwater enco Sandy SILT (M iry fine to fine s y; low estimated Silty CLAY (CL is% clay; 30% si ity; very low est ity; very low est	chicity; very labeled to the color of the co	K; moderate In mottled blue silt; moderate ight hydrocarbon 13.5' ft; wet; 70% silt; ay; moderate ydrocarbon odor				
ASE Form 20A AQUA SCIENCE ENGINEERS, INC.									
ASE FUIII ZUA									

在水水里