LAW OFFICES OF
TOMMY A. CONNER

444 De Haro Street
Suite 121
San Francisco, CA 94107
Tel 415-621-3939
Fax 415-621-3999

#4610

February 3, 1998

Alameda County Health Care Services
Environmental Health Services
ATTN : Mr. Barney Chan
1131 Harbor Bay Parkway, Suite 250
Alameda, California 95402-6577

Re: Groundwater Sampling Point Installation and Sampling Report
3927 East 14th Street
Oakland, California

Dear Mr. Chan:

Enclosed is a copy of the *Groundwater Sampling Installation and Sampling Report* prepared for Ruben Hausauer's 3927 East 14th Street, Oakland, California site. This report documents the installation of an additional groundwater monitoring well and the results of the groundwater monitoring performed at the well. Groundwater monitoring was performed on 18 November 1997 by Artesian Environmental personnel. This report was prepared by Artesian Environmental at the request of Ruben Hausauer.

If you have any questions or comments, please call either Artesian Environmental at (510) 307-9943, or me at (415) 621-3939. Than you for your time and attention.

Very truly yours,

Tommy A. Conner

TAC:syr/Enclosure

cc: State Water Resources Control Board (w/encl)
P. O. Box 944212
Sacramento, California 94244-2120

Regional Water Quality Control Board (w encl)
ATTN: Fuel Leaks
2101 Webster Street, Suite 500
Oakland, CA 94612

[illegible]

ARTESIAN ENVIRONMENTAL

January 30, 1998

Mr. Ruben Hausauer
c/o The Law Offices of Tommy A. Conner
444 De Haro Street, Suite 121
San Francisco, California 94107

RE: Groundwater Sampling Point Installation and Sampling Report
3927 East 14th Street
Oakland, California

Dear Mr. Conner:

Artesian Environmental Consultants (Artesian) has been retained by Ruben Hausauer (Client) to install and sample one groundwater monitoring well (HMW-4) in the down gradient direction of a former underground storage tank (UST) at 3927 East 14th Street in Oakland, California (Site) (Figures 1 and 2). The work was requested by the Alameda County Health Care Services Agency (ACHCSA). The work was authorized by the client by a signed contract dated August 13, 1997.

BACKGROUND

The Hausauer site is presently occupied by New Genico, an auto repair facility. The site is located in a commercial and residential area at 3927 East 14th Street at 40th Avenue in Oakland, California. The site is at an elevation of approximately 30 feet above mean sea level (MSL) in western Alameda County The Brooklyn Basin Tidal Channel is approximately 3/4 mile to the south west. The site lies in a gently sloping plain dipping south west towards San Francisco Bay. The Oakland Hills are located approximately 2 miles to the north east.

One 550 gallon UST was removed from beneath the sidewalk along 40th Avenue in August 1996. Soil samples collected from beneath the UST contained up to 5,000 milligrams per kilogram (mg/kg) (equivalent to parts per million [ppm]) total petroleum hydrocarbons as motor oil (TPH-mo), 1,700 ppm total petroleum hydrocarbons as diesel (TPH-d), and 940 ppm total petroleum hydrocarbons as gasoline (TPH-g). Groundwater samples collected from groundwater monitoring well MW-1 (closest to the former UST) contained 7,400 micrograms per liter (µg/L) (equivalent to parts per billion [ppb]) TPH-g and 1,200 ppb benzene. The furthest down gradient well (MW-2) contained 6,300 ppb TPH-g, 7,400 ppb TPH-d, 2,100 ppb TPH-mo and 170 ppb benzene. Several subsurface investigations have occurred at the Hausauer site since September 1993. There are presently four groundwater monitoring wells at the Hausauer site including the new groundwater sampling point.

An adjacent site (Motor Partners site) located southwest (cross-gradient) of the Hausauer site, is reported to have petroleum impacted soil and groundwater associated with two former USTs located at 1234 40th Avenue. A 1,000 gallon gasoline UST and a 500 gallon waste oil UST were removed from the site in October 1990 Soil samples collected from beneath the USTs contained up to 1,600 ppm TPH-g and 650 ppm TPH-d. Groundwater samples collected from Motor Partners monitoring well MW-1 contained

229 Tewksbury Avenue Point Richmond California 94801 (510) 307-9943 FAX (510) 232-2823

X 224 Town

67,000 ppb TPH-g, 53,000 TPH-d, and 1,200 ppb benzene. There are presently four groundwater monitoring wells at the Motor Partners site.

GROUNDWATER SAMPLING POINT INSTALLATION

On November 18, 1997, Artesian drilled and installed one groundwater monitoring well using a direct push technology (DPT) drill rig. A groundwater monitoring well construction permit was obtained from the Alameda County Public Works Agency Water Resource Section and an excavation permit was obtained from the City of Oakland Office of Planning and Building. Underground utilities were located by Underground Service Alert (USA) prior to drilling. Artesian provided additional limited magnetic and induction line locating services to aid in locating other buried pipes and utilities prior to drilling. Groundwater monitoring well HMW-4 is located approximately 250 feet in the down gradient of the former UST and approximately 100 feet down gradient of groundwater monitoring well HMW-2. Figure 2 shows the groundwater monitoring well locations.

The drilling was performed by Artesian, a California-licensed driller (C-57 624461). Logging of soils encountered was performed by a geologist under the direct supervision of a California Registered Geologist using the Unified Soils Classification System (ASTM D2488-90). The boring log and well completion diagram are attached. A copy of the well installation permit, excavation permit and the State Department of Water Resources (DWR Form 188) well registry are attached. Drill cuttings were placed in a labeled 5-gallon DOT pail pending disposal.

Soil samples were collected continuously using a 4-foot drive sampler equipped with polyethylene terephthalate glycol (PETG) liners for logging purposes. Soil samples were screened for organic vapors in the field using a photoionization detector (PID). PID readings are presented on the boring log. A soil sample was collected from immediately above the current groundwater table for chemical analyses. The soil sample was stored in a refrigerated environment and transported under chain-of-custody control to a California state certified laboratory. Artesian's standard operating procedures for groundwater monitoring well installation, organic vapor screening and soil sampling are attached.

The boring was hand augured to 5 feet below ground surface (bgs) with a 6-inch diameter auger, the remainder of the boring was drilled with DPT equipment to form a 2.2-inch diameter boring from 5 to 19 feet bgs. Ten feet of prepack screen and 5 feet of riser were lowered down the open borehole. The prepack screen is constructed of 1.6-inch outside diameter (OD) and 0.60-inch inside diameter (ID) Schedule 40 PVC. The prepack screen consists of 0.010-inch slotted PVC packed with Monterey No. 2/12 sand. The well riser consist of 0.6-inch ID schedule 40 PVC. Additional sand was placed 1-foot above the prepack and sealed with 2-feet of hydrated bentonite pellets, the remaining annulus was sealed with neat cement and capped with a traffic rated, weather tight well box set in concrete.

On December 10, 1997, David L. Contreras, a licensed surveyor, surveyed the top of the well casing for HMW-4 as well as monitoring wells HMW-1, HMW-2, and HMW-3 within 0.01 foot accuracy horizontally and vertically. The monitoring well survey map is attached

Groundwater monitoring well HMW-4 was developed on November 24, 1997 by surging, followed by purging with a peristaltic pump. Development purge water was temporarily stored on site in labeled 5-gallon DOT pail pending disposal.

GROUNDWATER MONITORING WELL SAMPLING

On November 26, 1997, Artesian measured depth to water from groundwater monitoring well HMW-4. (Groundwater monitoring wells HMW-1, HMW-2, and HMW-3 were sampled by ATC Environmental on the same day.) The well was purged by pumping a minimum of three well casing volumes of groundwater while pH, temperature, and electrical conductivity were measured between each well casing volume. The well was considered stabilized and ready for sampling when two subsequent measurements of these three parameters were within 10% of each other. Groundwater samples were collected using a peristaltic pump and new disposable polyethylene tubing, and decanted into labeled bottles supplied by the laboratory. In order to reduce the loss of volatile hydrocarbons, samples for TPH-g and BTEX analysis were dispensed from the bailer into labeled 40-milliliter volatile organic analysis (VOA) vials. The VOA vials were filled completely, leaving no head space. Groundwater samples collected for TPH-d and TPH-mo were contained in labeled 950 milliliter amber bottles. The samples were stored in a refrigerated environment and transported under chain-of-custody control to a California state certified laboratory for the analyses requested. Artesian's standard operating procedures for well sampling are attached. Purge water was temporarily stored on site in labeled 5-gallon DOT pails pending disposal.

SUBSURFACE CONDITIONS

Soil encountered in boring was generally brown silty clay from the concrete paved surface to 7 feet bgs; gray silty clay from 7 to 9 feet bgs; gray, silty sand from 9 to 10 feet bgs; gray, gravelly silty sand from 10 to 16 feet bgs; orange brown silty clay from 16 feet bgs to total explored depth. See the attached Log of Boring for detailed soil descriptions.

Depth to water measured from the groundwater monitoring well HMW-4 on November 26,1997 was 7.42 feet. Depth to water measurements are presented on Table 1.

LABORATORY ANALYTICAL RESULTS

The soil sample collected during the drilling of groundwater monitoring well HMW-4 was analyzed by McCampbell Analytical Inc. (McCampbell) of Pacheco, California, for TPH-g and TPH-d and TPH-mo by EPA Method 8015M and Methyl tert-Butyl Ether (MTBE) and BTEX by EPA Method 8020. The groundwater samples collected from the new groundwater monitoring well was analyzed by McCampbell for TPH-g and TPH-d and TPH-mo by EPA Method 8015M and MTBE and BTEX by EPA Method 8020.

The soil sample collected during the drilling of groundwater monitoring well HMW-4 was reported by the laboratory to contain 29 ppm of an unknown hydrocarbon in the TPH-g range, 14 ppm of an unknown hydrocarbon in the TPH-d range, 0.070 ppm toluene and 0.19 ppm total xylenes. TPH-mo, benzene, ethyl benzene and MTBE were not detected in the soil sample.

The groundwater sample collected from groundwater monitoring well HMW-4 contained 1,600 ppb of an unknown hydrocarbon in the TPH-g range, 400 ppb TPH-d, 4.2 ppb benzene, 3.1 ppb toluene, 1.7 ppb ethyl benzene, and 5.9 ppb total xylenes. TPH-mo and MTBE were not detected in the groundwater sample. Laboratory reports, quality assurance forms, and the chain of custody records are attached. Laboratory analytical results for soil and groundwater samples are summarized in Table 2.

SUMMARY

One small diameter groundwater monitoring well was installed approximately 100 feet in the approximate down gradient direction from monitoring well HMW-2. Laboratory results of the groundwater sample collected from groundwater monitoring well HMW-4 during this sampling event indicate that groundwater approximately 250 feet the former UST is impacted with petroleum hydrocarbons. No free product was observed in the groundwater from HMW-4. Groundwater monitoring wells HMW-1, HMW-2, and HMW-3 were sampled the same day by ATC Environmental. California Department of Health Services Maximum Contaminant Levels (MCLs) for drinking water standards were exceeded only for benzene in the groundwater sample collected from monitoring well HMW-4. Groundwater at the site is approximately 7.5 feet bgs.

LIMITATIONS

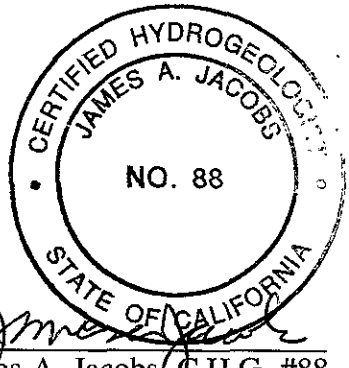
The authors and firm offer no assurance and assume no responsibility for site conditions or activities which were beyond the scope of work requested by the client and referenced in the introduction of this report. The compensation agreed to by the client and the firm corresponds to the scope of work defined, with the associated limitations which are an integral and important part of this report. This report was prepared with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This investigation was conducted solely as a tool in assessing environmental conditions of the soil and/or groundwater with respect to relative hydrocarbon product contamination in the immediate vicinity of the former underground storage tanks. No soil engineering or geotechnical recommendations are implied or should be inferred.

Evaluation of the geological conditions at the site for the purpose of this investigation is made from a limited number of observation points. There may be variations in subsurface conditions away from the sample points available. There are no representations, warranties, or guarantees that the points selected for sampling are in any way representative of the entire site. Data from this report reflects the sample conditions at specific locations at a specific point in time. No other interpretations, representations, warranties, guarantees, express or implied, are included or intended by this report. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation.

This project involved hazardous or toxic compounds and there are certain inherent risk factors involved (such as limitations on laboratory or analytical methods or equipment, variations in subsurface conditions, and risks associated with specific analysis not requested by the client), which may adversely affect the results of the project, even though the services were performed with such skill and care as are generally accepted professional standards for the environmental geology profession.

This report and all matters contained herein were prepared for the sole and exclusive benefit of the client specified herein, and is intended only for the use of the client. Neither all, nor any part of the contents of this report, or copy thereof, shall be used for any purpose by anyone but the client specified herein. Any person or entity who obtains or reads this report, or copy thereof, other than the client specified herein, expressly assumes all risk of damages to himself or third person arising out of reliance thereon or use thereof and waives the right to bring any action based on this report, directly or indirectly, and the author shall have no liability to any such person or entity.

Sincerely,
Artesian Environmental Consultants



Thomas Fortner
Project Geologist

James A. Jacobs, C.H.G. #88
Certified Hydrogeologist

TABLES

229 Tewksbury Avenue Point Richmond, California 94801 (510) 307-9943 FAX (510) 232-2823

TABLE 1: SUMMARY OF GROUNDWATER ELEVATION DATA
Groundwater Monitoring Well Installation
Hausauer Property
3927 East 14th Street
Oakland, California

Well Number	Date Measured	TOC Elevation (feet MSL)	DTW (feet)	Groundwater Elevation (feet MSL)
HMW-4	11/18/97	28.80	7.42	21.38

NOTES:
TOC Top of Casing
MSL Mean Sea Level
DTW Depth to Water
Monitoring Well Surveyed 12/10/97

ARTESIAN ENVIRONMENTAL CONSULTANTS

TABLE 2: SUMMARY OF SOIL AND GROUNDWATER LABORATORY ANALYTICAL DATA
Groundwater Monitoring Well Installation
Hausauer Property
3927 East 14th Street
Oakland, California

Soil Sample

Sample Number	Date Sampled	TPH-g mg/Kg	TPH-d mg/Kg	TPH-mo mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	MTBE µg/L
HMW-4-12	11/18/97	29†	14†	<0.005	<0.005	0.070	<0.005	0.19	<0.25

12' is within capillary zone & is indicative of gw contamination

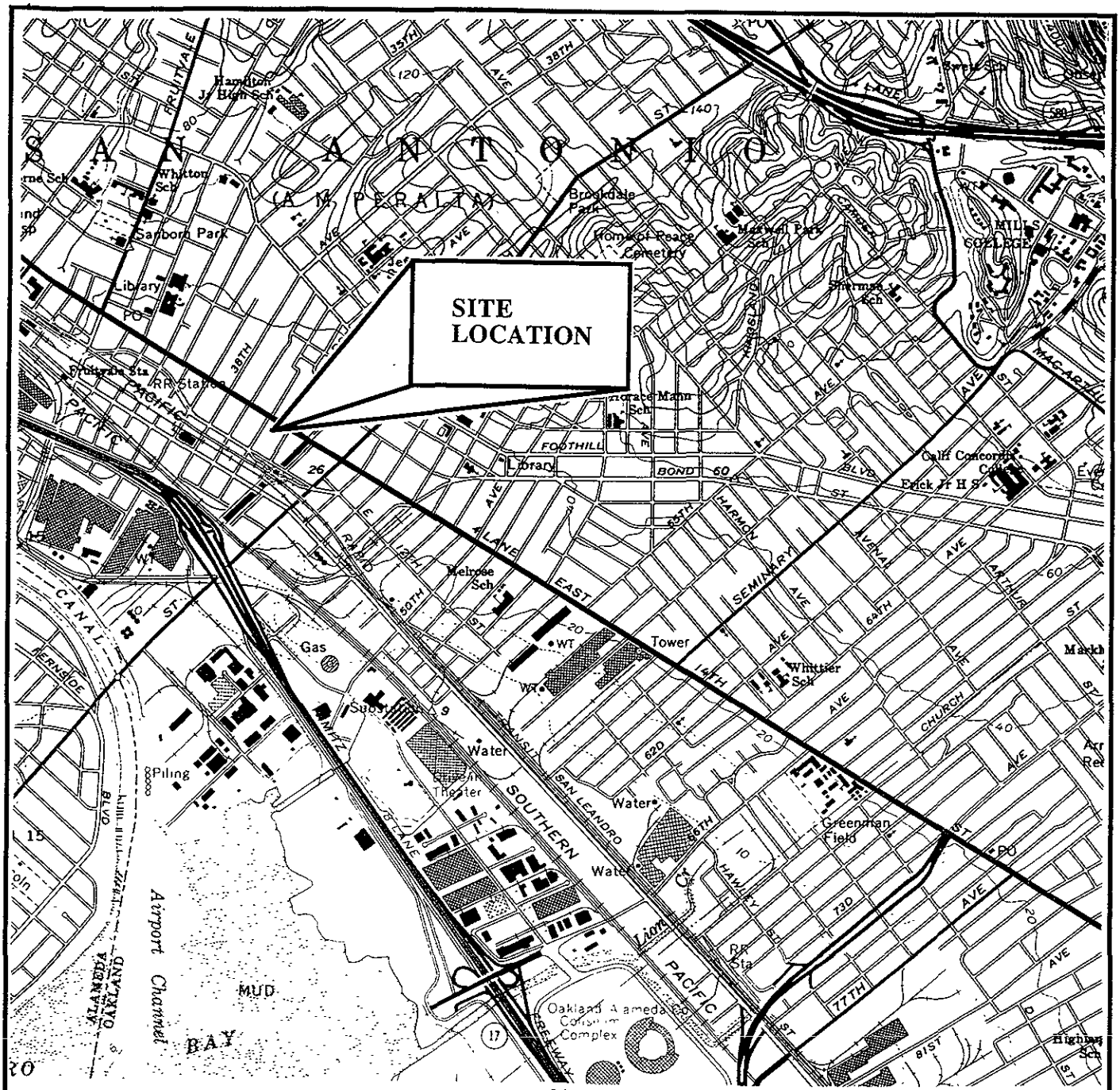
Groundwater Sample

Sample Number	Date Sampled	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L	MTBE µg/L
HMW-4	11/26/97	1,600†	400	<250	4.2	3.1	1.7	5.9	<62
MCL		ns	ns	ns	1	150	700	1,750	ns

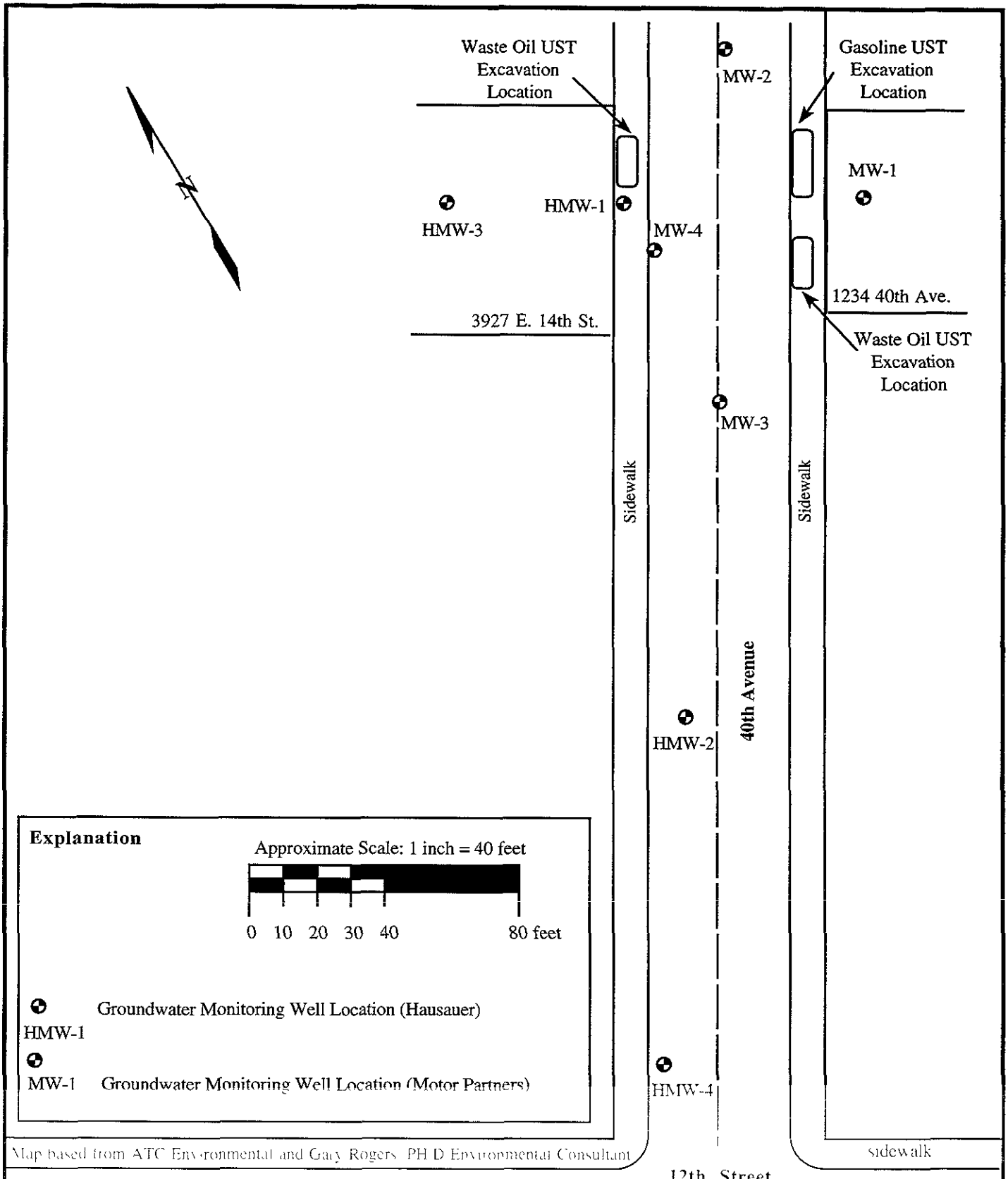
TPH-g	Total Petroleum Hydrocarbons as gasoline, analysis by EPA Method 8015M
TPH-d	Total Petroleum Hydrocarbons as diesel, analysis by EPA Method 8015M
TPH-mo	Total Petroleum Hydrocarbons as motor oil, analysis by EPA Method 8015M
mg/Kg	milligrams per Kilogram (equivalent to ppm)
µg/L	micrograms per liter (equivalent to ppb)
ns	No Standard
MTBE	Methyl tert-Butyl Ether, analysis by EPA Method 8020
BTEX	Benzene, Toluene, Ethyl benzene, and Total Xylenes, analysis by EPA Method 8020
MCL	Maximum Contaminant Level Established by the State of California Department of Health Services Water Quality Goals-Human Health and Welfare

FIGURES

229 Tewksbury Avenue Point Richmond California 94801 (510) 307-9943 FAX (510) 232-2823



ARTESIAN ENVIRONMENTAL 229 Tewksbury Avenue Point Richmond, California 94801 Phone (510) 307-9943 Fax (501) 232-2823	SITE LOCATION MAP Haasauer Property 3927 East 14th Street Oakland, California
Project No. 197-002-01 / Date 4/8/97	Prepared by T. Forster / Figure 1



ARTESIAN ENVIRONMENTAL 229 Tewksbury Avenue Point Richmond California 94801 Phone (510) 307-9943 Fax (501) 232-2823	SITE MAP Hausauer Property 3927 East 14th Street Oakland, California

Project No 197-002-01	Date 1/8/98	Prepared By T Fortner	Figure 2

ATTACHMENTS

229 Tewksbury Avenue Point Richmond, California 94801 (510) 307-9943 FAX (510) 232-2823

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 40th Ave @ E. 12th Street
Oakland, CA

California Coordinates Source _____ ft. Accuracy ± ____ ft.
CCN _____ ft CCE _____ ft.
APN _____

CLIENT
Name Ruben Hausauer
Address 3927 East 14th Street Phone _____
City Oakland CA Zip _____

APPLICANT
Name Artesian Environmental
Thomas Fortner Fax (510) 232-2728
Address 229 Tewksbury Ave Phone (510) 307-9943
City Point Richmond, CA Zip 94801

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	X	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other _____	X

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☐
Cable	☐	Other	X	direct Push	

DRILLER'S LICENSE NO. 624461

WELL PROJECTS
Drill Hole Diameter 6" in. Maximum
Casing Diameter 1 in. Depth 20 ft.
Surface Seal Depth 5 ft. Number 1 (HMW-4)

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 11/18/97
ESTIMATED COMPLETION DATE 11/18/97

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68

APPLICANT'S SIGNATURE _____ DATE 11/6/97

FOR OFFICE USE

PERMIT NUMBER 97WR210
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A) **GENERAL**
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

(C) **GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
(1) Minimum surface seal thickness is two inches of cement grout placed by tremie.
(2) Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. → 5 feet

D. GEOTECHNICAL
Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED _____ DATE 11/17/97

Job Site 3927 INTERNATIONAL BL Parcel# 033 -2156-004-01 Appl# X9701353

Descr installation of monitoring well . site location at 40th av. Permit Issued 11/13/97

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	HAUSAUER RUBEN & CATHERINE				
Contractor	ARTESIAN ENVIRONMENTAL CONSUL	X	(415)257-4801	624461 A	C57 B
Arch/Engr					
Agent					

Applic Addr 3100 KERNER BLVD, SAN RAFAEL CA, 94901

$246.00 TOTAL FEES PAID AT ISSUANCE

$41.00 Applic	$205.00 Permit
$.00 Process	$.00 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	

CITY OF OAKLAND

by: JI Receipt# 013965

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

PERMIT NUMBER X9701353		SITE ADDRESS/LOCATION 3927 INTERNATIONAL BL.
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS		CITY BUSINESS TAX #

ATTENTION:

1) State law requires that the contractor/owner call *Underground Service Alert (USA)* two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1 (800) 642-2444. UNDERGROUND SERVICE ALERT (USA) #: _____

2) **48 hours prior to starting work, YOU MUST CALL (510) 238-3651 TO SCHEDULE AN INSPECTION.**

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____, B&PC for this reason _____.

WORKER'S COMPENSATION

☐ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # _____ Company Name _____

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Chapter 6, Article 2 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law

Signature of Permittee ☐ Agent for ☒ Contractor ☐ Owner — Date 11/13/97

DATE STREET LAST RESURFACED 1972	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☒ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☒ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☒ NO
ISSUED BY M. Mella		DATE ISSUED 11/13/97	

for 40TH AVE. (WELL LOCATION)
6 2 4 6 1

UNIFIED SOIL CLASSIFICATION SYSTEM - ASTM D2488

MAJOR DIVISIONS			SYMBOL / GRAPHIC		DESCRIPTIONS
COARSE GRAINED SOILS (>50% by weight larger than #200 sieve)	GRAVEL AND GRAVELLY SOILS (more than 50% of coarse fraction is larger than the # 4 sieve)	Clean Gravels (little or no fines)	GW		Well Graded Gravels, Gravels - Sand Mixtures
			GP		Poorly Graded Gravels, Gravel - Sand Mixtures
		Gravels With Fines (appreciable amount of fines)	GM		Silty Gravels, Gravel - Sand - Silt Mixtures
			GC		Clayey Gravels, Gravel - Sand - Clay Mixures
	SAND AND SANDY SOIL (more than 50% of coarse fraction is smaller than the #4 sieve)	Clean Sands (little or no fines)	SW		Well Graded Sands, Gravelly Sands
			SP		Poorly Graded Sands, Gravelly Sands
		Sands With Fines (appreciable amount of fines)	SM		Silty Sands, Poorly Graded Sand - Silt Mixures
			SC		Clayey Sands, Poorly Graded Sand - Clay Mixures
FINE GRAINED SOILS (>50% smaller than #200 sieve)	SILTS AND CLAYS (liquid limit less than 50)		ML		Inorganic Silts and Very Fine Sands, Silty or Clayey Fine Sands
			CL		Inorganic Clays of Low to Medium Plasticity; Gravelly, Sandy or Silty Clays; Lean Clays
			OL		Organic Silts and Organic Silty Clays of Low Plasticity
	SILTS AND CLAYS (liquid limit greater than 50)		MH		Inorganic Silts, Micaceous or Diatomateous Fine Sand or Silty Soils, Elastic Silts
			CH		Inorganic Clays of High Plasticity, Fat Clays
			OH		Organic Clays of Medium to High Plasticity, Organic Silts
HIGHLY ORGANIC SOILS			PT		Peat and Other Highly Organic Soils

Indicates First Water

Indicates Static Water

Indicates Submitted Sample

bgs below ground surface

PID Photo-ionization detector readings

NR No Recovery

Asphalt

Concrete

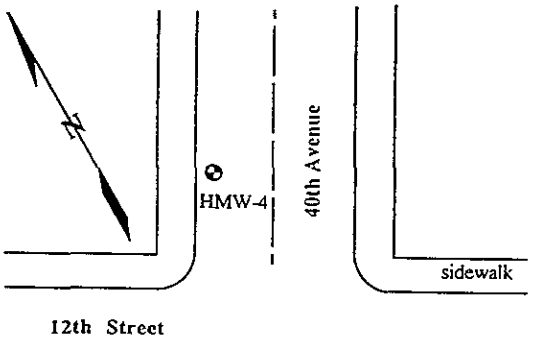
Cement Grout

Pea Gravel

Artesian Environmental Consultants
229 Tewksbury Avenue
Point Richmond, California 94801

KEY TO BORING LOGS

LOG OF BORING HMW-4

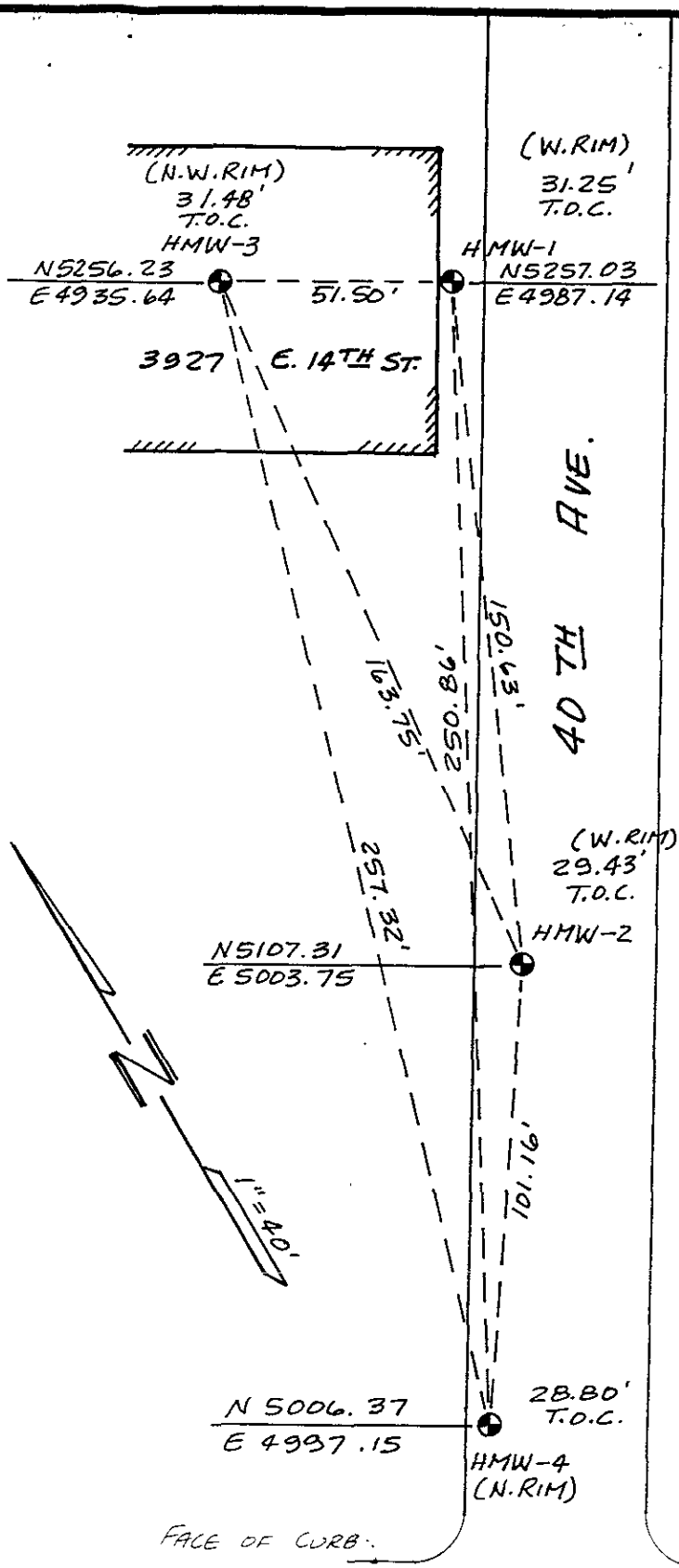


Hausauer-New Genico
3927 East 14th Street
Oakland, California

DATES DRILLED:	11/18/97	SAMPLING METH.:	2.2-inch MacroCore
DRILLING CO.:	Artesian	TOTAL DEPTH:	19 feet bgs
DRILL TOOLS:	Geoprobe 420U	LOGGED BY:	T. Fortner
DRILLER:	T. Fortner	DATE DEV :	11/24/97
PROJECT MANAGER:	T. Fortner	DRAWN BY:	T. Fortner
ARTESIAN JOB NO.:	197-002-01	DRAW DATE:	1/7/98

ARTESIAN ENVIRONMENTAL CONSULTANTS
229 Tewksbury Avenue, Point Richmond, California 94801
TEL (510) 307-9943 • FAX (510) 232-2823

DEPTH (feet)	SOIL SYMBOLS/ FIELD TEST DATA	SOIL DESCRIPTION	SAMPLE NO.	BLOWS /6 in.	PID ppm	COMPLETION DIAGRAM	DESCRIPTION
0		Concrete: 8.5-inches thick, 3.5-inches base rock.					Flush mounted well box traffic rated, weather tight, set in concrete.
		CL: Silty Clay, dark brown, some fine to coarse sand, plant roots, very stiff, dry.					Locking well plug.
							Cement grout seal (0 - 3 feet bgs).
-5					4		Bentonite pellets (3 - 4 feet bgs).
							0.6" Sch. 40 PVC blank casing (0.5 - 5 feet bgs).
11/26/97		CL: Silty Clay, olive gray, soft, moist.					1.6" Sch. 40 PVC 0.010" slotted prepack well screen (5 - 15 feet bgs)
-10					3		Filter pack #2/12 Monterey sand (4 - 15 feet bgs).
11/18/97		SM: Silty Sand, olive gray, fine to coarse sand, rare fine to medium gravel, loose, petroleum odors, moist.	HMW-4		740		
		GM: Gravelly Sand, olive gray, fine to coarse sand, fine to coarse gravel, petroleum odors, loose, damp.					
-15							Slip cap.
					106		
		CL: Silty Clay, orange brown, some fine sand, very stiff, moist					



MONITORING WELL SURVEY OF 3927 EAST 14TH ST. OAKLAND, CALIFORNIA FOR ARTESIAN ENVIRONMENTAL

DAVID L. CONTRERAS, LAND SURVEYOR
(415) 892-5905
20 VIVIAN CT. NOVATO, CA

SCALE: 1"=40' DECEMBER 10, 1997

NOTES

1) PUNCH MARK SET AT TOP OF CASING (AS NOTED) AT WELLS HMW-1 THROUGH HMW-4 IS BASIS OF MEASUREMENT OF COORDINATES, DISTANCES AND ELEVATIONS.

2) ELEVATION DATUM: ELEVATION OF HMW-1 = 31.25', HMW-2 = 29.43', HMW-3 = 31.48'; ALL VALUES SUPPLIED BY ARTESIAN ENVIRONMENTAL. THESE VALUES FIT FIELD MEASUREMENTS OF THIS SURVEY, AND WERE THE BASIS FOR DETERMINING TH ELEVATION OF HMW-4.

LICENSED LAND SURVEYOR DAVID L CONTRERAS 5065 STATE OF CALIFORNIA

DAVID L CONTRERAS L S 5065
LIC 6-30-99

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

9919 xA11

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

REPORT TO: Thomas Fortner BILL TO:

COMPANY: Astecion Environmental
229 Tewksbury Ave
Point Richmond, CA 94801

TELE: FAX #:

PROJECT NUMBER: 197-002-01 PROJECT NAME: Hausauer

PROJECT LOCATION: Oakland SAMPLER SIGNATURE:

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	MATRIX: OTHER	METHOD PRESERVED: HCL	METHOD PRESERVED: HNO3	METHOD PRESERVED: OTHER
HMW-4 12		11/18/97	16:32	1	RETG		X						

ANALYSIS REQUEST

BTEX & TPH as Gasoline (602/8020 & 8015) MTBE	TPH as Diesel (8015) + Motor Oil	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	OTHER
X	X														

83193

COMMENTS

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ___
PRESERVATION APPROPRIATE ___
CONTAINERS ✓

VOAS | O&G | METALS | OTHER

REMARKS:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
[signature]	11/19/97	14:35	[signature]
[signature]	11-19-97	1510	Milenia
	DATE	TIME	RECEIVED BY LABORATORY:

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #197-002-01; Hausauer	Date Sampled: 11/18/97
		Date Received: 11/19/97
	Client Contact: Thomas Fortner	Date Extracted: 11/19/97
	Client P.O:	Date Analyzed: 11/19/97

11/26/97

Dear Tom:

Enclosed are:

1). the results of **1** samples from your **#197-002-01; Hausauer** project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #197-002-01; Hausauer	Date Sampled: 11/18/97 Date Received: 11/19/97
	Client Contact: Thomas Fortner	Date Extracted: 11/19/97
	Client P.O:	Date Analyzed: 11/19/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
83193	HMW-4-12	S	29,j	ND<0.25	ND	0.070	ND	0.19	132#
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

[illegible] chromatogram; sample peak coelutes with surrogate peak

[illegible] following descriptions of the TPH chromatogram [illegible] is not responsible [illegible] unmodified or weakly modified gasoline [illegible] compounds are significant [illegible] lighter gasoline range compounds [illegible] range compounds having broad chromatographic peaks are significant, biologically altered gasoline [illegible] to be derived from gasoline [illegible] to a few isolated peaks present, g) strongly aged gasoline or diesel [illegible] lighter than water immiscible sheen is present, i) liquid sample that contains greater than [illegible] sediment [illegible]

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

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http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #197-002-01; Hausauer	Date Sampled: 11/18/97 Date Received: 11/19/97
	Client Contact: Thomas Fortner	Date Extracted: 11/19/97
	Client P.O:	Date Analyzed: 11/19/97

Diesel Range (C10-C23) and Oil-Range (C18+) Extractable Hydrocarbons as Diesel and Motor Oil*

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)$^+$	TPH(mo)$^+$	% Recovery Surrogate
83193	HMW-4-12	S	14,d,b	ND	106
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	250 ug/L	
		S	1.0 mg/kg	5.0 mg/kg	

* water samples are reported in ug/L, wipe samples in ug/wipe, [illegible] TCLP / STLC / SPLP extracts in ug/L

[illegible] chromatogram resulting in coeluted surrogate and sample peaks [illegible] surrogate has been diminished by dilution of original extract

The following descriptions of the TPH chromatogram are [illegible] McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) [illegible] range compounds are significant, no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; [illegible] pattern that does not match diesel [illegible] one to a few isolated peaks present; g) oil range compounds are significant; [illegible] visible sheen is present; [illegible] sample that contains greater than ~5 vol. % sediment

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 11/19/97 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#79459)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.803	1.806	2.03	89	89	0.2
Benzene	0.000	0.184	0.182	0.2	92	91	1.1
Toluene	0.000	0.194	0.190	0.2	97	95	2.1
Ethylbenzene	0.000	0.192	0.190	0.2	96	95	1.0
Xylenes	0.000	0.576	0.570	0.6	96	95	1.0
TPH(diesel)	0	290	288	300	97	96	0.4
TRPH (oil and grease)	0.0	19.9	19.9	20.8	96	96	0.0

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #197-002-01; Hausauer	Date Sampled: 11/26/97
		Date Received: 11/26/97
	Client Contact: Thomas Fortner	Date Extracted: 11/26/97
	Client P.O:	Date Analyzed: 11/26/97

12/05/97

Dear Tom:

Enclosed are:

1). the results of **1** samples from your **#197-002-01; Hausauer** project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

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http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental	Client Project ID: #197-002-01; Hausauer	Date Sampled: 11/26/97
229 Tewksbury Avenue		Date Received: 11/26/97
Point Richmond, CA 94801	Client Contact: Thomas Fortner	Date Extracted: 11/27-12/01/97
	Client P.O:	Date Analyzed: 11/27-12/01/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
83436	HMW-4	W	1600,j	ND<62	4.2	3.1	1.7	5.9	116#
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

The following descriptions of the TPH chromatogram are based on comments by McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant, b) heavier gasoline range compounds are significant (aged gasoline?), c) lighter gasoline range compounds are the most mobile fraction of the gasoline range compounds (showing broad chromatographic peaks are significant; biologically altered gasoline?), d) TPH pattern does not appear to be derived from gasoline (?), e) one to a few isolated peaks present, f) strongly aged gasoline or diesel range compounds are significant, g) lighter than water immiscible sheen is present, h) liquid sample that contains greater than ~5 vol. % sediment, i) no recognizable pattern.

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http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #197-002-01; Hausauer	Date Sampled: 11/26/97
		Date Received: 11/26/97
	Client Contact: Thomas Fortner	Date Extracted: 11/26/97
	Client P.O:	Date Analyzed: 11/29/97

Diesel Range (C10-C23) and Oil-Range (C18+) Extractable Hydrocarbons as Diesel and Motor Oil*

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	TPH(mo)+	% Recovery Surrogate
83436	HMW-4	W	400,d	ND	108
Reporting Limit unless otherwise stated, ND means not detected above the reporting limit		W	50 ug/L	250 ug/L	
		S	1.0 mg/kg	5.0 mg/kg	

*water samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP, STLC, SPLP extracts in ug/L

+) Cluttered chromatogram resulting in coeluted surrogate and sample peaks; surrogate peak is on elevated baseline; or surrogate was been compromised by dilution of original extract

The following descriptions of the TPH chromatogram are provided by the laboratory. McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant, b) diesel range compounds are significant, no recognizable pattern, c) aged diesel is significant, d) gasoline range compounds are significant, e) medium boiling point pattern that does not match diesel, f) one to a few isolated peaks present, g) oil range compounds are significant, h) lighter than water immiscible sheen is present, i) liquid sample that contains greater than 5 vol % sediment

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 11/27/97 Matrix: WATER

Analyte	Concentration (mg/L) Sample (#83335)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	100.2	107.3	100.0	100.2	107.3	6.8
Benzene	0.0	10.7	10.1	10.0	107.0	101.0	5.8
Toluene	0.0	11.0	10.4	10.0	110.0	104.0	5.6
Ethyl Benzene	0.0	11.1	11.1	10.0	111.0	111.0	0.0
Xylenes	0.0	33.5	31.8	30.0	111.7	106.0	5.2
TPH(diesel)	0	148	140	150	99	94	5.3
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 11/29/97 Matrix: WATER

Analyte	Concentration (mg/L) Sample (#83410)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TPH(diesel)	0	131	124	150	87	83	5.3
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 12/01/97 Matrix: WATER

Analyte	Concentration (mg/L) Sample (#83355)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	96.6	97.3	100.0	96.6	97.3	0.7
Benzene	0.0	9.1	9.3	10.0	91.0	93.0	2.2
Toluene	0.0	9.9	10.0	10.0	99.0	100.0	1.0
Ethyl Benzene	0.0	10.5	10.7	10.0	105.0	107.0	1.9
Xylenes	0.0	32.2	32.7	30.0	107.3	109.0	1.5
TPH(diesel)	0	150	151	150	100	100	0.4
TRPH (oil & grease)	0	22100	21400	23700	93	90	3.2

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

9981XA13

McCAMPBELL ANALYTICAL

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PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

REPORT TO: Thomas Fortner BILL TO:

COMPANY: Artesian Environmental

229 Tewksbury Ave
Point Richmond, CA 94801

TELE: (510) 307-9943 FAX #: (510) 232-2823

PROJECT NUMBER: 197-002-01 PROJECT NAME: Hausauer

PROJECT LOCATION: Oakland SAMPLER SIGNATURE:

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	METHOD PRESERVED: HCL	HNO_3	OTHER
+ HMW-4		11/26/97	9:02	5	VOA Liter	X					X		

ANALYSIS REQUEST

BTEX & TPH as Gasoline (602/8020 & 8015) MTBE	TPH as Diesel (8015) and Motor Oil	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	OTHER	COMMENTS
X	X															89436

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	11/26/97	14:12	Angel Burks (AERO)
Angel Burks (AERO)	11/26/97	3:22p	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:

REMARKS:

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATION APPROPRIATE ✓
CONTAINERS ✓

VOAS	O&G	METALS	OTHER