



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

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 6506 - 895 W Tennyson, Hayward, CA

May 14, 1999

Mr. Phil Briggs
Chevron Products Co
P.O. Box 6004
San Ramon, CA 94583-0904

Mr. Jack Dorian
Asbek, Inc. and Janrus, Inc.
3508 Mt. Diablo Blvd., Suite J
Lafayette, CA 94549

Dear Messrs. Briggs and Dorian:

This letter confirms the completion of site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

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

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

Sincerely,

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection
Chuck Headlee, RWQCB
Dave Deaner, SWRCB
William McCammon, Alameda Co Fire Dept, QIC Code 41401
files-ec (gulf4)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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San Ramon, CA 94583-0904

Mr. Jack Dorian
Asbek, Inc. and Janrus, Inc.
3508 Mt. Diablo Blvd., Suite J
Lafayette, CA 94549

Re: Fuel Leak Site Case Closure for 895 W Tennyson Road, Hayward, CA

Dear Messrs. Briggs and Dorian:

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

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- up to 4,600ppm TPH as gasoline and 14ppm benzene exists in soil beneath the site;
- up to 2,900ppb TPHg exists in groundwater beneath the site; and,
- a site safety plan must be prepared for construction workers in the event of excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

If you have any questions, please contact me at (510) 567-6762.

eva chu
Hazardous Materials Specialist

enclosures: 1. Case Closure Letter 2. Case Closure Summary

c: James Sorenson, Alameda County Planning Dept, QIC Code 50506
files (gulf5)

CALIFORNIA WATER

SEP 1998

QUALITY CONTROL BOARD

RB # 01-0732

OK for Closure

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: August 5, 1998

Agency name: **Alameda County-HazMat**
City/State/Zip: **Alameda, CA 94502**
Responsible staff person: **M Logan**

Address: **1131 Harbor Bay Pkwy**
Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Former gulf Service Station**
Site facility address: **895 W Tennyson Road, Hayward, CA 94542**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **6506**
URF filing date: **SWEEPS No: N/A**

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Phil Briggs Chevron	6001 Bollinger Canyon Rd, Bldg L San Ramon, CA 94583	(925) 842-9136

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
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Unknown number of tanks removed, but probably occurred in the mid 1970s.

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **7/6/98**
Monitoring Wells installed? **Yes** Number: **9 MWs**
Proper screened interval? **Yes, 5' to 23.5' in C-6**
Highest GW depth below ground surface: **3.76'** Lowest depth: **8.20' in C-6**
Flow direction: **SW to SE**
Most sensitive current use: **Residential**
Are drinking water wells affected? **No** Aquifer name: **San Leandro Cone**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **Unknown**
Report(s) on file? **YES** Where is report(s) filed? **Alameda County** and **Hayward Fire Dept**
1131 Harbor Bay Pkwy and **25151 Clawiter Rd**
Alameda, CA 94502 and **Hayward, CA 94545**

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	Unknown number removed in mid 1970s		
Soil	400 cy	unknown disposal destination	
Groundwater	690,000 gallon	treated and disposed to sanitary sewer	
Vapor	1,630 pounds	treated by catalytic converter or carbon unit	

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before¹</u>	<u>After²</u>	<u>Before³</u>	<u>After⁴</u>
TPH (Gas)		4,600	19,000	2,900
TPH (Diesel)				
Benzene		14	1,900	< 6.5
Toluene		110	290	< 2.5
Ethylbenzene		82	1,300	110
Xylenes		510	4,100	72
MTBE		NA	150	45

Other

- NOTE: 1 no report/analytical results of soil samples collected when USTs were removed in mid 1970s
 2 soil samples collected after limited overexcavation, sample G-8 in 9/92
 3 maximum concentrations from wells C-4 or C-6, in 4/92 and 9/92
 4 most recent groundwater concentrations, 6/97

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

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

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

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

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

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **No, pending site closure**

Number Decommissioned: **0** Number Retained: **9 MWs, 8 DVE wells**

List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu**

Title: **Haz Mat Specialist**

Signature: 

Date: 7/14/98

Reviewed by

Name: **Madhulla Logan**

Title: **Haz Mat Specialist**

Signature: 

Date: 7/14/98

Name: **Thomas Peacock**

Title: **Supervisor**

Signature: 

Date: 9-10-98

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response:

RWQCB Staff Name: **Chuck Headlee**

Title: **EG**

Signature: 

Date: 9/17/98

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is currently vacant and is located at the northeast corner of Tennyson Road and Tyrrell Ave in Hayward, CA (see Fig 1). A Gulf Service Station occupied the site through the mid 1970s when the property was sold and demolished. It is believed all the USTs and associated piping were removed at this time.

In February 1990 nine soil borings (SB-1 through SB-9) were drilled across the site to the water table which was encountered at ~7' bgs. The site is underlain by sandy to silty clays to a minimum depth of 8' bgs. Soil samples were collected from each boring and screened with a PID in the field. Four soil samples (SB-2, SB-3, SB-6 and SB-9) and one grab water sample (SB-7) were selected for laboratory analysis (BTEX and TPHg). Analytical results show that soils and groundwater at the site was impacted by petroleum hydrocarbons. (See Fig 2, Tables 1, 2, and 3)

By August 1991 a total of nine groundwater monitoring wells (C-1 through C-9) were installed to delineate the extent of the contaminant plume. A groundwater extraction well, C-10, was also installed. Soil samples from boring C-2, C-4, C-5, C-6, and C-7 contained detectable levels of petroleum hydrocarbons. (See Fig 4 and Table 4)

In September 1992 ~400 cy of hydrocarbon-impacted soil was excavated to a depth of ~8' bgs. The excavation consisted of a main trench extending from grid B9 through G9 and from grid G9 to G7, in an approximate "L"-shaped pattern. Additional spot samples were collected in other locations by removing topsoil to a specific depth and collecting a soil sample from the backhoe bucket. Confirmatory soil samples collected at 7.5' to 9' bgs still contained TPHg concentrations ranging from <1 to 4,600 ppm and benzene concentrations ranging from <0.12 to 14 ppm. (See Fig 5, Table 5)

In December 1992 a soil vapor extraction pilot test was performed using extraction well C-10. Based on the test results, a dual vacuum extraction system (DVE) was selected and installed to remediate the smear zone. The DVE consisted of six soil vapor/groundwater extraction wells (C-11 through C-16). The extracted air and water were pumped into a vapor/liquid separator. The water was sent through activated carbon and disposed through the sanitary sewer. The extracted vapor flowed to the catalytic oxidizer for incineration. When the vapor extraction rate dropped to below 15 pounds per day, the catalytic converter was removed and a vapor phase carbon system installed. Two interim dual extraction wells (VE-1 and VE-2) were installed on July 11, 1994 in locations of high vapor concentration to improve the extraction coverage in the source area. The DVE system operated from May through July 1994, and restarted in February through May 1995 at which time cleanup goals were achieved (that is, when the total system extraction rate was 10 pounds per day with no individual well having an extraction rate greater than 5 pounds per day). Approximately 1,630 pounds of TPH have been removed by the system and ~690,000 gallons of groundwater was removed from the groundwater extraction system. (See Fig 6)


Groundwater has been sampled from August 1991 to June 1997. Gasoline constituents in groundwater have decreased or have stabilized. Contaminant levels in the source area have not increased after the DVE system was shut down. The contaminant plume has been delineated, has stabilized, and is shrinking. (See Table 6)

A RBCA analysis was performed for the site. It was found that remediation activities conducted at the site have lowered the contaminant concentrations to levels that do not present a threat to human health. Continued monitoring is not warranted.

In summary, case closure is recommended because:

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

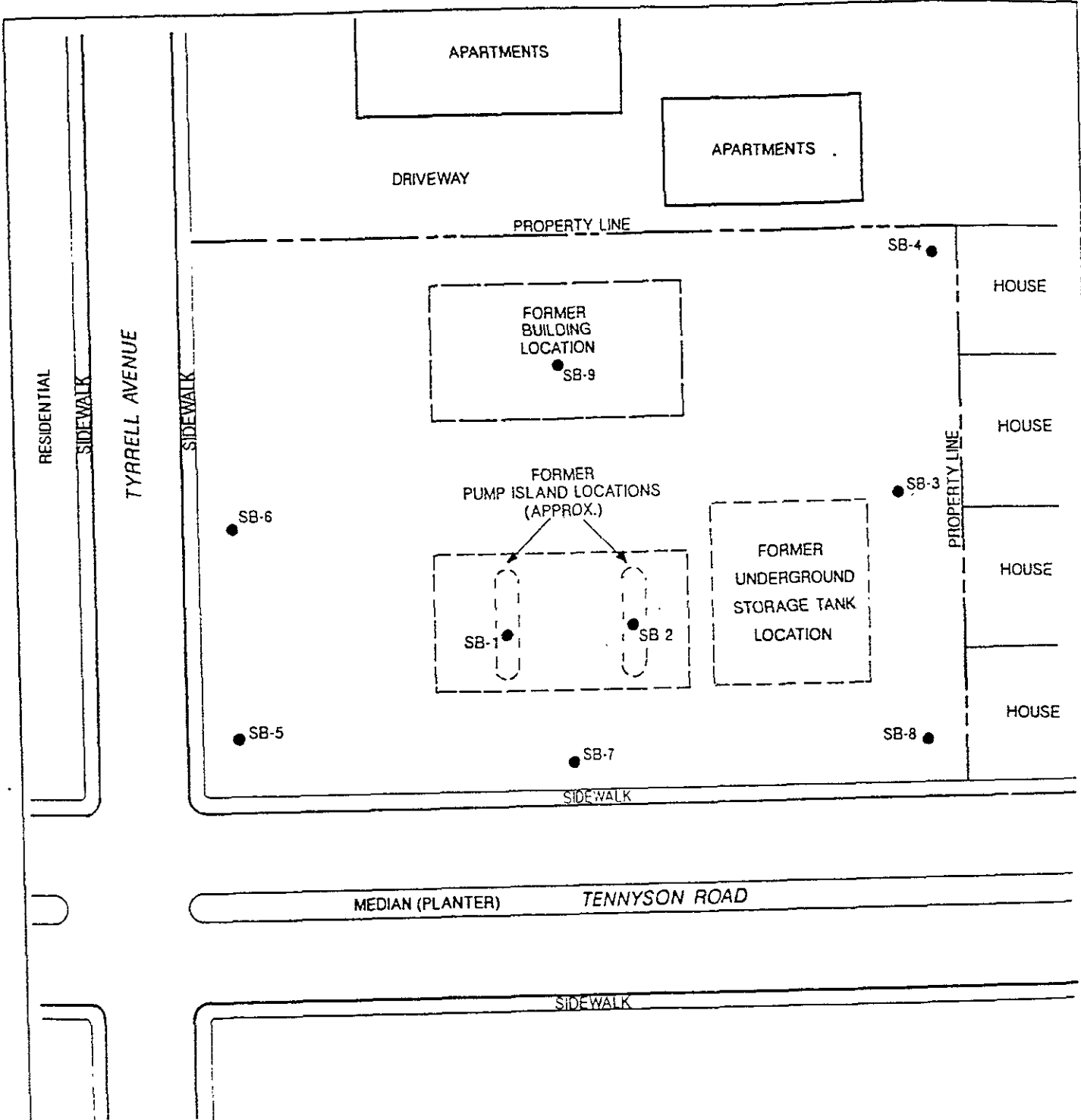




TERRA
VAC

Project No.	30-0131
Date	12/14/93
Scale	1.5" = 0.5mi
Revision	0
Drawn by	MLC

FIGURE 1
 VICINITY MAP
 895 WEST TENNYSON ROAD
 HAYWARD, CALIFORNIA



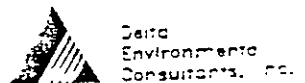
LEGEND

● SB-1 SOIL BORING LOCATION



FIGURE 2
SITE MAP
CASPER'S HOT DOGS
N.E. CORNER OF TENNYSON RD AND TYRRELL AVE
HAYWARD, CA

PROJECT NO. 40-90-001	PREPARED BY MJO 3/6/90
AUTOCAD NO.	REVIEWED BY



SITE ASSESSMENT

Vacant lot on the Northeast Corner of Tennyson Road
and Tyrrell Avenue
Hayward, California
Delta Project No. 40-90-001
Page 3

Soil samples were collected at depths of 5.0 and 6.5 feet from each soil boring and screened with a PID in the field. A summary of the field screening results is presented in Table 1. Measurable PID readings were obtained from soil samples collected from soil borings SB-1, SB-2, SB-3, SB-7, SB-8, and SB-9. Details of the sampling and field screening procedures are presented in Appendix C.

TABLE 1

Field Screening Readings Obtained From
the Photoionization Detector (PID)
Concentrations in parts per million (ppm)

<u>Soil Boring</u>	<u>Sample Depth in Feet</u>	<u>Readings in Parts Per Million</u>
SB-1	5.0	0
	7.0	190
	10.0	4
SB-2	5.0	1
	6.5	240
SB-3	5.0	32
	6.5	24
SB-4	5.0	0
	6.5	0
SB-5	5.0	0
	6.5	0
SB-6	5.0	0
	6.5	0
SB-7	5.0	130
	6.5	120
SB-8	5.0	72
	6.5	--- ^a
SB-9	5.0	180
	6.5	164

^a--- = Reading not taken.

SITE ASSESSMENT

Vacant lot on the Northeast Corner of Tennyson Road
and Tyrrell Avenue
Hayward, California
Delta Project No. 40-90-001
Page 4

4.3 Soil Chemistry

Four soil samples were selected for chemical analysis to document the presence or absence of petroleum hydrocarbons across the site. The soil samples were submitted to Coast to Coast Analytical Laboratories in San Luis Obispo, California, for chemical analysis. The following analyses were conducted: BTEX and TPH by EPA Method 8240/8260 by gas chromatography and mass spectrometry. The results are summarized in Table 2, and the laboratory data sheets are presented in Appendix D.

TABLE 2

Chemical Analysis of Soil Samples
Concentrations in parts per million (ppm)

<u>Sample Location</u>	<u>Date Sampled</u>	<u>Sample Depth (ft)</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>	<u>TPH^a</u>
SB-2	02/01/90	8.0	2.4	20.0	13.0	43.0	600.0
SB-3	02/01/90	6.5	0.025	0.002	0.001	0.005	0.4
SB-6	02/01/90	8.0	<0.001	<0.001	<0.001	0.002	<0.1
SB-9	02/01/90	6.5	<0.001	0.12	0.13	0.33	680.0 ^b

^aTotal Petroleum Hydrocarbons identified as gasoline.

^bIdentified as Stoddard solvent.

Concentrations of BTEX ranged from below detection (<0.001) to 43.0 parts per million (ppm) in soil sample SB-3 collected at a depth of 8.0 feet below ground surface. Concentrations of TPH ranged from below detection (<0.1) to 680.0 ppm in soil boring SB-9 at a depth of 6.5 feet.

SITE ASSESSMENT

Vacant lot on the Northeast Corner of Tennyson Road
and Tyrrell Avenue
Hayward, California
Delta Project No. 40-90-001
Page 5

4.4 Ground Water

Ground water was encountered at a depth of 7.0 feet below ground surface at the site. A grab sample of ground water was obtained through the hollow stem auger at soil boring SB-7. Chemical results of this water sample are summarized in Table 3, laboratory data sheets are presented in Appendix D. The water sample was analyzed for BTEX and TPH by EPA Method 8240/8260.

TABLE 3

Chemical Analysis of Ground Water Sample
Concentrations in parts per million (ppm)

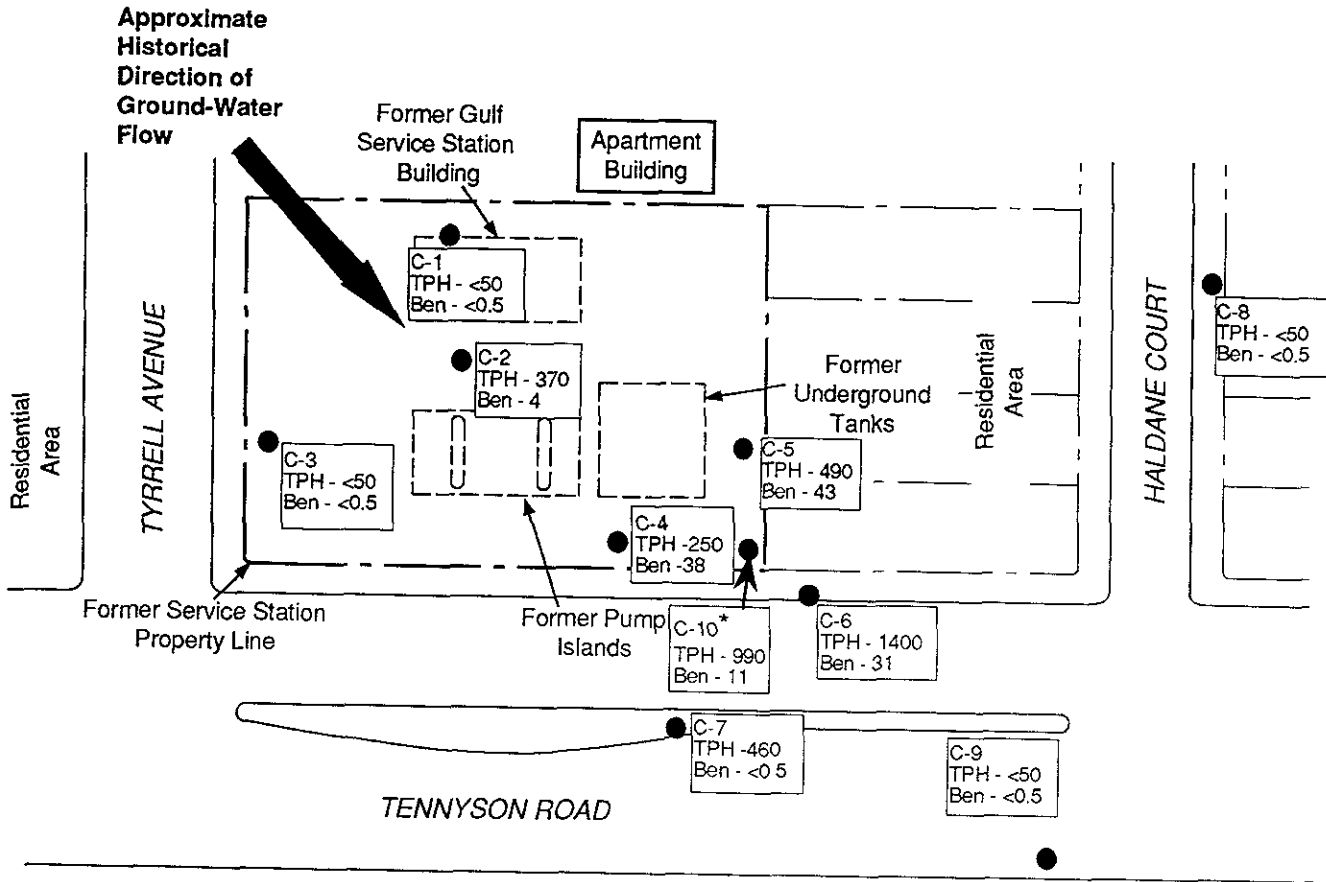
<u>Sample Location</u>	<u>Date Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>	<u>TPH^a</u>
SB-7	02/01/90	6.3	6.7	5.1	28.0	130.0

^aTotal Petroleum Hydrocarbons identified as gasoline.

5.0 DISCUSSION

5.1 Drilling and Subsurface Soils

The drilling and sampling program was undertaken to identify whether gross contamination of the soils from the former underground gasoline storage tanks existed. The layout of the former distribution lines were not known before drilling. Soil borings were advanced near locations of former dispensers and tanks as indicated in the 1976 aerial photograph of the site. The site is underlain by sandy to silty clays which were encountered to a depth of 8 feet below ground surface. Soil borings SB-1 and SB-2 were located near the former pump islands. Soil boring SB-3 was located near the former tank cluster as observed in the aerial photograph and during an on-site inspection. Soil borings SB-4, SB-5, SB-6, SB-7, SB-8, and SB-9 were located in the field to define the areal extent of soil contamination.

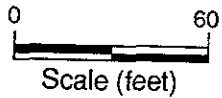


EXPLANATION

C-3
TPH <50
Ben <0.5

- Ground-Water Monitor Well Sampling Results; TPH-as-gasoline (USEPA 8015, modified) concentration (µg/L), benzene (USEPA 8020) concentration (µg/L) Sampled by Alton Geoscience, September 21, 1992.

* Collected by Geraghty & Miller at end of SVE pilot test, December 2, 1992.



Site data from: GeoStrategies Inc., Site Plan, 8/91 and 11/90; and Delta Environmental Consultants, Inc Site Map, 3/90



**Concentrations of Hydrocarbons
in Ground Water**
FORMER GULF SERVICE STATION #897
895 Tennyson Road
Hayward, California

FIGURE
3

Project No. RC09500

TABLE 4

SOIL ANALYSES DATA

SAMPLE NO	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	TPH-S (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
C-1-5.5	17-Sep-90	21-Sep-90	<1	<10	<0.05	<0.05	<0.05	<0.05
C-1-9.0	17-Sep-90	21-Sep-90	<1	<10	<0.05	<0.05	<0.05	<0.05
C-2-5.5	17-Sep-90	21-Sep-90	<1	<10	<0.05	<0.05	<0.05	<0.05
C-2-8.5	17-Sep-90	25-Sep-90	310	<10	<0.05	0.21	4.8	21
C-2-25	17-Sep-90	27-Sep-90	<1	<10	<0.05	<0.05	<0.05	<0.05
C-3-5.5	17-Sep-90	25-Sep-90	<1	<10	<0.05	<0.05	<0.05	<0.05
C-3-8.5	17-Sep-90	21-Sep-90	<1	<10	<0.05	<0.05	<0.05	<0.05
C-4-5.0	17-Sep-90	21-Sep-90	8	<10	0.41	<0.05	0.33	0.50
C-4-9.0	17-Sep-90	21-Sep-90	1400	<10	11	68	32	170
C-5-5.5	17-Sep-90	21-Sep-90	<1	<10	<0.05	<0.05	<0.05	<0.05
C-5-9.0	17-Sep-90	24-Sep-90	1000	<10	1.8	24	21	100

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline

TPH-S = Total Petroleum Hydrocarbons calculated as Stoddard Solvent

PPM = Parts Per Million

Note: 1. All data shown as <x are reported as ND (none detected).

cont TABLE 4

SOIL ANALYSES DATA							
BORING NO	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
C-6-5.0	05-Feb-91	13-Feb-91	3	0.007	0.006	0.083	0.180
C-6-10.0	05-Feb-91	13-Feb-91	4	<.005	0.009	0.040	0.180
C-6-14.5	05-Feb-91	13-Feb-91	<1	<.005	<.005	<.005	0.016
C-7-5.0	05-Feb-91	13-Feb-91	<1	<.005	0.005	<.005	0.005
C-7-10.0	05-Feb-91	13-Feb-91	89	<.030	<.030	1	4
C-7-15.0	05-Feb-91	13-Feb-91	<1	<.005	<.005	<.005	0.007

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline
 PPM = Parts Per Million

Note: 1. All data shown as <x are reported as ND (not detected).

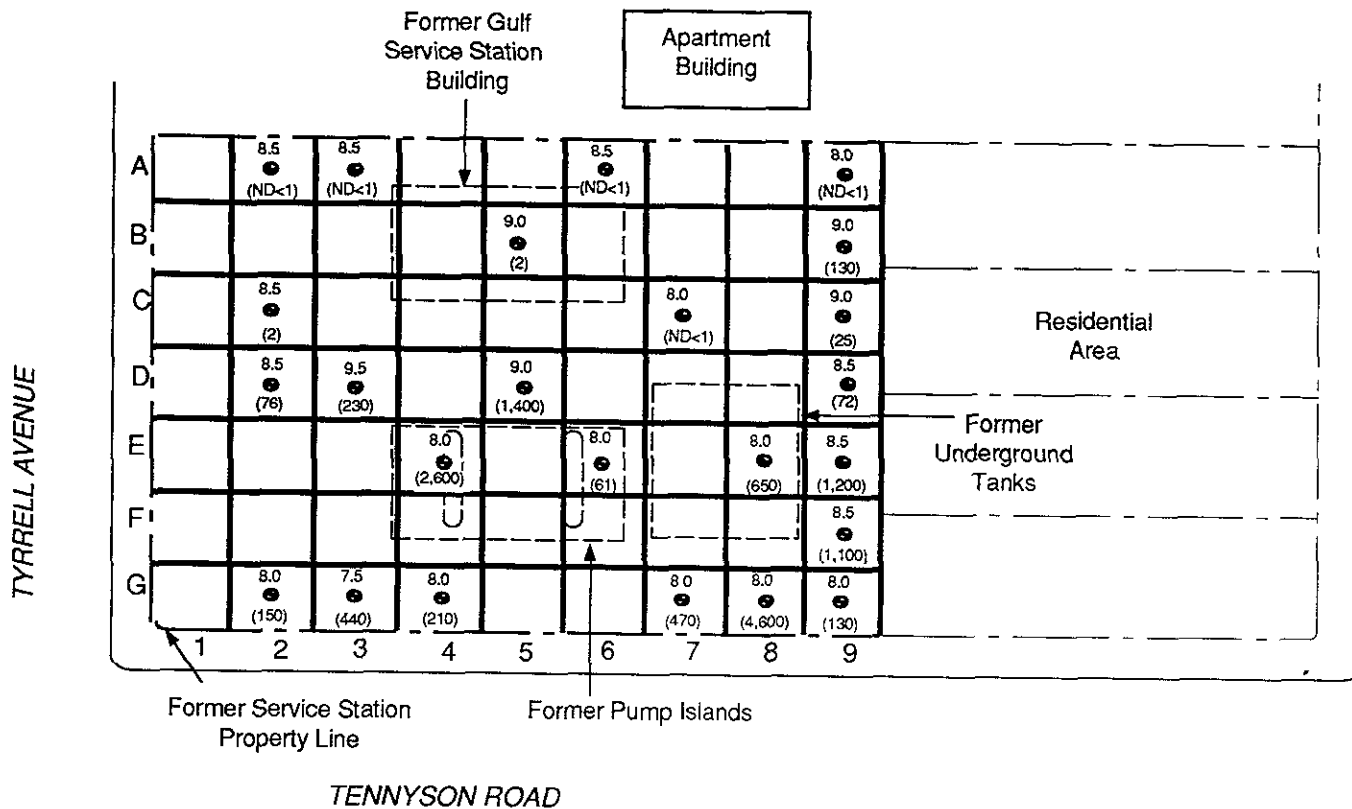
cont. TABLE 4

SOIL ANALYSES DATA							
SAMPLE NO	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
C-8-8.5	31-Jul-91	07-Aug-91	<1	<.005	<.005	<.005	<.005
C-9-6	14-Aug-91	16-Aug-91	<1	<.005	<.005	<.005	<.005
C-9-11.5	14-Aug-91	16-Aug-91	<1	<.005	<.005	<.005	<.005

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline

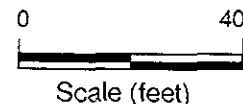
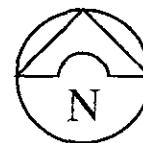
PPM = Parts Per Million

Note: 1. All data shown as <x are reported as ND (not detected).



EXPLANATION

- G 15 square foot area boundary and grid location
- 1
- 8.5 Approximate depth in feet of soil boring
- Approximate location of soil boring
- (76) Concentration of TPH-G in soil sample in mg/kg



Soil samples collected September 17, 1992. Analysis by USEPA Method 8015, modified (total petroleum hydrocarbons as gasoline) and USEPA Method 8020 (benzene, toluene, ethylbenzene, and xylenes).

Site data from: GeoStrategies Inc., Site Plan, 8/91 and 11/90; and Delta Environmental Consultants, Inc Site Map, 3/90



Project No. RC09500

**SOIL SAMPLE LOCATIONS AND
TPH-G CONCENTRATIONS**
FORMER GULF SERVICE STATION #897
895 Tennyson Road
Hayward, California

FIGURE
4
2



Table 5

Geraghty & Miller
Attn: Dave Serena

Project RC09502
Reported 10/07/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
86775- 1	D-3	09/17/92	09/30/92 Soil
86775- 2	G-8	09/17/92	09/30/92 Soil
86775- 3	G-3	09/17/92	09/30/92 Soil
86775- 4	A-3	09/17/92	09/30/92 Soil
86775- 5	D-2	09/17/92	09/30/92 Soil
86775- 6	B-9	09/17/92	09/30/92 Soil
86775- 7	G-4	09/17/92	09/30/92 Soil
86775- 8	A-9	09/17/92	09/30/92 Soil
86775- 9	D-9	09/17/92	10/01/92 Soil
86775-10	E-9	09/17/92	10/01/92 Soil

RESULTS OF ANALYSIS

Laboratory Number: 86775- 1 86775- 2 86775- 3 86775- 4 86775- 5

Gasoline:	230	4600	440	ND<1	76
Benzene:	ND<0.12	14	0.46	ND<.005	ND<0.12
Toluene:	ND<0.12	110	2.2	0.006	0.18
Ethyl Benzene:	6.0	82	9.4	ND<.005	1.4
Xylenes:	16	510	48	0.011	7.5
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

Laboratory Number: 86775- 6 86775- 7 86775- 8 86775- 9 86775-10

Gasoline:	130	210	ND<1	72	1200
Benzene:	ND<0.12	.12	ND<.005	ND<0.12	1.7
Toluene:	0.15	.24	ND<.005	0.11	48
Ethyl Benzene:	0.21	3.5	ND<.005	0.52	33
Xylenes:	0.46	18	ND<.005	2.8	140
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg



Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

Cont. Table 5

Geraghty & Miller
Attn: Dave Serena

Project RC09502
Reported 10/07/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
86775-11	F-9	09/17/92	10/01/92	Soil
86775-12	C-9	09/17/92	10/03/92	Soil
86775-13	G-9	09/17/92	09/30/92	Soil
86775-14	A-6	09/17/92	10/01/92	Soil
86775-15	E-8	09/17/92	09/30/92	Soil
86775-16	C-7	09/17/92	10/01/92	Soil
86775-17	E-6	09/17/92	10/01/92	Soil
86775-18	B-5	09/17/92	09/30/92	Soil
86775-19	D-5	09/17/92	09/30/92	Soil
86775-20	C-2	09/17/92	10/01/92	Soil

RESULTS OF ANALYSIS

Laboratory Number:	86775-11	86775-12	86775-13	86775-14	86775-15
Gasoline:	1100	25	130	ND<1	650
Benzene:	ND<1.2	0.25	0.14	ND<.005	ND<1.2
Toluene:	2.0	1.3	0.36	ND<.005	4.1
Ethyl Benzene:	22	0.40	1.9	ND<.005	12
Xylenes:	100	1.5	10	ND<.005	84
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Laboratory Number:	86775-16	86775-17	86775-18	86775-19	86775-20
Gasoline:	ND<1	61	2	1400	2
Benzene:	ND<.005	0.071	ND<.005	3.4	ND<.005
Toluene:	0.008	0.17	ND<.005	4.3	0.010
Ethyl Benzene:	0.021	0.19	ND<.005	33	0.063
Xylenes:	0.071	0.52	0.017	180	0.32
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg



Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

cont. Table 5

Geraghty & Miller
Attn: Dave Serena

Project RC09502
Reported 10/07/92

TOTAL PETROLEUM HYDROCARBONS

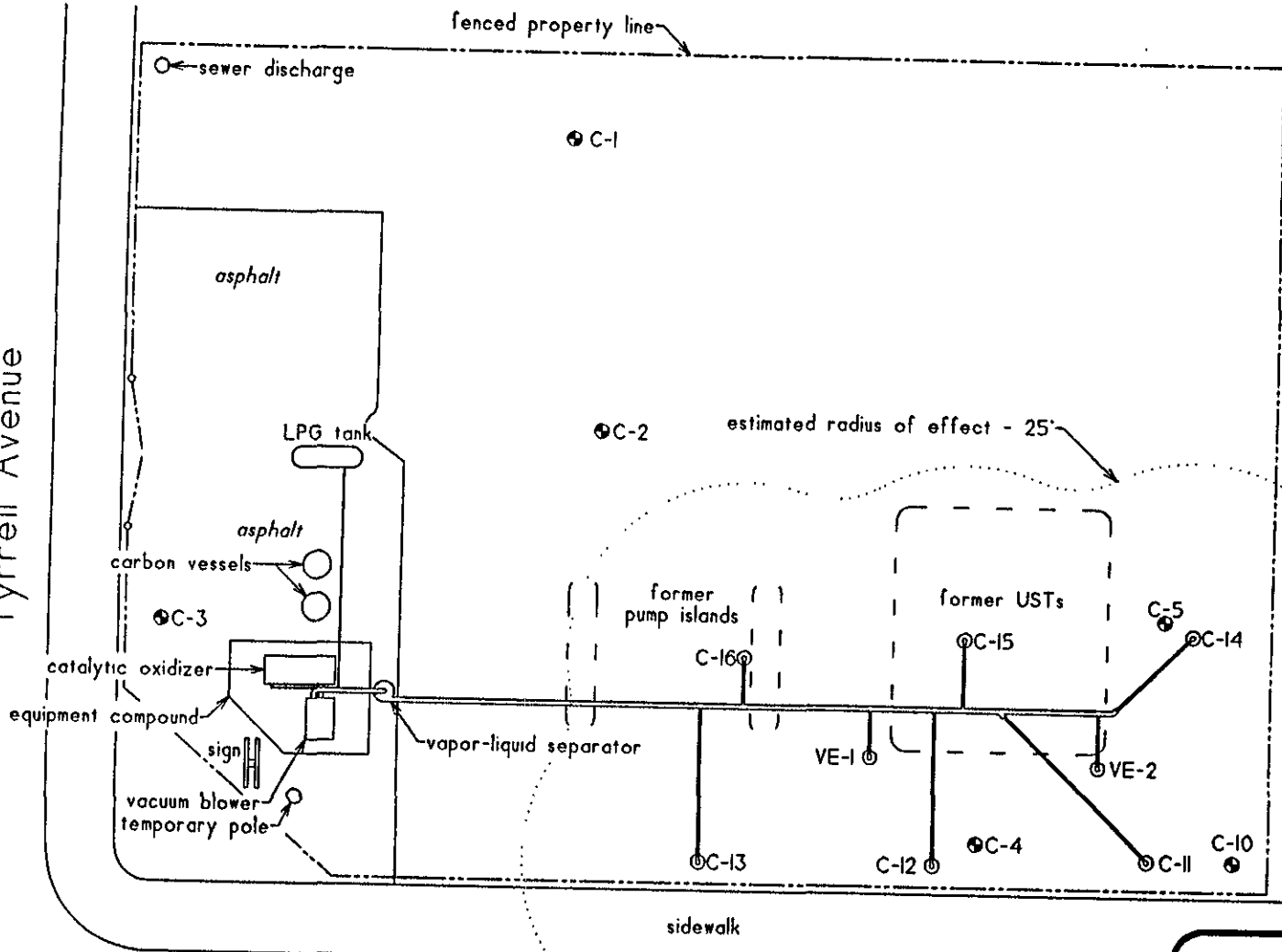
Lab #	Sample Identification	Sampled	Analyzed Matrix
86775-21	E-4	09/17/92	10/01/92 Soil
86775-22	A-2	09/17/92	10/01/92 Soil
86775-23	G-2	09/17/92	10/01/92 Soil
86775-24	G-7	09/17/92	10/01/92 Soil

RESULTS OF ANALYSIS

Laboratory Number: 86775-21 86775-22 86775-23 86775-24

Gasoline:	2600	ND<1	150	470
Benzene:	8.3	ND<.005	ND<0.25	2.8
Toluene:	29	ND<.005	1.1	25
Ethyl Benzene:	65	ND<.005	2.6	13
Xylenes:	390	.008	12	68
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg

Tyrrell Avenue

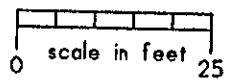


Residences

Legend

- ⊙ vacuum extraction well
- monitoring well

Tennyson Road



Plot Plan
895 Tennyson Road
Hayward, California

Project	30-0131	Drawn by	G. Beyke
Date	18 JUL 94	Revision	4
Scale	1"=25'	Checked	JBL

TERRA VAC 14798 Wicks Boulevard
San Leandro, CA 94577
(510) 351-8900 Fax: -210

Figure
5

Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Analytical results are in parts per billion (ppb)							
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-1											
10/11/90	20.91	11.99	8.92	--	/50/	<0.5	<0.5	<0.5	<0.5	--	<50
02/12/91	20.91	13.13	7.78	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/91	20.91	13.12	7.79	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/19/91	20.91	12.27	8.64	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/19/91	20.91	12.27	8.64	Duplicate	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/91	20.91	12.62	8.29	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/92	20.91	13.39	7.52	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	20.91	13.64	7.27	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/10/92	20.91	12.79	8.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/21/92	20.91	11.63	9.28	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/04/93	20.91	14.44	6.47	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/31/93	20.91	14.49	6.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/22/93	20.91	13.35	7.56	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/22/93	20.91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/02/93	20.91	13.53	7.38	--	--	--	--	--	--	--	--
03/07/94	20.91	14.02	6.89	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/17/94	20.91	12.55	8.36	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/94	20.91	12.95	7.96	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/29/94	20.91	14.19	6.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/29/95	20.91	14.03	6.88	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/17/95	20.91	13.91	7.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/12/95	20.91	13.21	7.70	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/21/95	20.91	14.07	6.84	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/01/96	20.91	15.33	5.58	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/26/96	20.91	13.56	7.35	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/17/96	20.91	13.34	7.57	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/11/96	20.91	14.99	5.92	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/04/97	20.91	13.73	7.18	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/24/97	20.91	13.38	7.53	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

cont. Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-2											
10/11/90	20.91	11.61	9.30	--	120	3.7	<0.5	2.8	3.5	--	<50
02/12/91	20.91	12.65	8.26	--	890	20	0.7	44	150	--	--
05/03/91	20.91	12.79	8.12	--	840	22	<0.5	60	140	--	--
08/19/91	20.91	12.10	8.81	--	2200	30	<0.5	130	420	--	--
10/29/91	20.91	12.25	8.66	--	7000	210	<0.5	560	1600	--	--
01/13/92	20.91	13.23	7.68	--	3300	96	<0.5	325	940	--	--
04/02/92	20.91	13.56	7.35	--	4000	81	<0.5	150	500	--	--
06/10/92	20.91	12.58	8.33	--	2900	110	<0.5	230	540	--	--
09/21/92	20.91	11.41	9.50	--	370	4.0	<0.5	6.7	53	--	--
01/04/93	20.91	14.33	6.58	--	2400	19	<0.5	140	300	--	--
03/31/93	20.91	14.45	6.46	--	970	25	1.0	170	340	--	--
06/22/93	20.91	13.26	7.65	--	3200	46	2.0	260	570	--	--
09/22/93	20.91	13.24	7.67	--	3500	26	5.0	200	390	--	--
12/02/93	20.91	13.45	7.46	--	1900	25	1.0	150	180	--	--
03/07/94	20.91	13.96	6.95	--	1500	18	0.9	120	160	--	--
06/17/94	20.91	12.19	8.72	--	530	<0.5	<0.5	5.5	26	--	--
09/02/94	20.91	12.91	8.00	--	890	9.3	0.7	25	63	--	--
11/29/94	20.91	14.15	6.76	--	73	<0.5	<0.5	4.7	3.9	--	--
03/29/95	20.91	13.63	7.28	--	1300	<5.0	<5.0	80	95	--	--
06/17/95	20.91	13.69	7.22	--	730	4.1	<0.5	50	28	--	--
09/12/95	20.91	13.14	7.77	--	640	0.84	<0.5	34	44	--	--
12/21/95	20.91	14.06	6.85	--	160	0.56	<0.5	14	5.8	<2.5	--
03/01/96	20.91	15.30	5.61	--	120	1.6	<0.5	8.9	4.2	4.7	--
06/26/96	20.91	13.52	7.39	--	390	<0.5	<0.5	13	4.4	11	--
09/17/96	20.91	13.31	7.60	--	860	<1.0	<1.0	23	18	36	--
12/11/96	20.91	14.95	5.96	--	220	<0.5	<0.5	6.2	4.6	3.7	--
03/04/97	20.91	13.79	7.12	--	<50	<0.5	<0.5	0.99	<0.5	<2.5	--
06/24/97	20.91	13.36	7.55	--	760	6.5	<0.5	18	9.8	6.8	--

Cont. Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-3											
10/11/90	20.12	11.93	8.19	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50
02/12/91	20.12	12.80	7.32	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/91	20.12	12.92	7.20	--	<50	<0.5	0.5	0.5	0.5	--	--
08/19/91	20.12	12.20	7.92	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/91	20.12	12.44	7.68	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/92	20.12	13.08	7.04	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	20.12	13.35	6.77	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/10/92	20.12	12.62	7.50	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/21/92	20.12	--	--	Inaccessible	--	--	--	--	--	--	--
01/04/93	20.12	13.96	6.16	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/31/93	20.12	14.06	6.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/22/93	20.12	13.12	7.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/22/93	20.12	12.82	7.30	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/02/93	20.12	13.22	6.90	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/07/94	20.12	13.70	6.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/17/94	20.12	12.75	7.37	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/94	20.12	12.73	7.39	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/29/94	20.12	13.80	6.32	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/29/95	20.12	13.89	6.23	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/17/95	20.12	13.40	6.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/12/95	20.12	12.93	7.19	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/21/95	20.12	13.72	6.40	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/01/96	20.12	14.59	5.53	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/26/96	20.12	13.33	6.79	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/17/96	20.12	13.13	6.99	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/11/96	20.12	14.51	5.61	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/04/97	20.12	13.43	6.69	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/24/97	20.12	13.16	6.96	--	<50	<0.5	<0.5	<0.5	<0.5	12	--
					<50	<0.5	<0.5	<0.5	<0.5	3.0	--

cont. Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-4											
10/11/90	19.92	11.71	8.21	--	230	23	30	7.0	43	--	<50
02/12/91	19.92	12.82	7.10	--	1400	290	26	55	130	--	--
02/12/91	19.92	12.82	7.10	Duplicate	2000	390	39	75	190	--	--
05/03/91	19.92	12.94	6.98	--	4000	1100	160	200	480	--	--
05/03/91	19.92	12.94	6.98	Duplicate	5000	1100	160	200	470	--	--
08/19/91	19.92	12.02	7.90	--	2200	440	14	110	220	--	--
10/29/91	19.92	12.32	7.60	--	240	54	0.9	24	11	--	--
01/13/92	19.92	13.14	6.78	--	170	57	2.1	3.8	11	--	--
04/02/92	19.92	13.45	6.47	--	12,000	1900	130	450	1400	--	--
06/10/92	19.92	12.53	7.39	--	1600	650	35	120	310	--	--
09/21/92	19.92	11.16	8.76	--	250	38	16	5.3	21	--	--
01/04/93	19.92	14.24	5.68	--	5700	660	170	170	490	--	--
03/31/93	19.92	14.22	5.70	--	1200	290	15	90	210	--	--
06/22/93	19.92	13.06	6.86	--	--	--	--	--	--	--	--
09/22/93	19.92	12.77	7.15	--	86	10	1.0	1.0	2.0	--	--
12/02/93	19.92	13.32	6.60	--	1200	210	3.0	49	120	--	--
03/07/94	19.92	13.91	6.01	--	690	160	5.8	33	76	--	--
06/17/94	19.92	10.97	8.95	--	<50	2.9	2.0	1.0	3.9	--	--
08/02/94	19.92	12.79	7.13	--	280	4.4	<0.5	10	11	--	--
11/29/94	19.92	14.04	5.88	--	540	1.9	<1.0	8.2	13	--	--
03/29/95	19.92	11.98	7.94	--	180	5.5	<0.5	2.3	5.0	--	--
06/17/95	19.92	13.57	6.35	--	130	<0.5	1.8	<0.5	10	--	--
09/12/95	19.92	13.02	6.90	--	89	1.1	<0.5	3.9	1.1	--	--
12/21/95	19.92	13.98	5.94	--	120	1.6	<0.5	7.5	9.2	2.6	--
03/01/96	19.92	15.13	4.79	--	3100	77	<5.0	320	510	<25	--
06/26/96	19.92	13.42	6.50	--	110	.89	<0.5	2.9	4.5	<2.5	--
09/17/96	19.92	13.18	6.74	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/11/96	19.92	14.83	5.09	--	97	<0.5	<0.5	3.8	10	<2.5	--
03/04/97	19.92	13.59	6.33	--	240	1.2	<0.5	3.6	5.9	4.2	--
06/24/97	19.92	13.26	6.66	--	<50	<0.5	<0.5	<0.5	<0.5	5.8	--

cont. Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-5											
10/11/90	19.79	11.83	7.96	--	550	20	18	15	79	--	<50
02/12/91	19.79	12.82	6.97	--	1100	47	24	44	110	--	--
05/03/91	19.79	12.95	6.84	--	530	42	8.0	31	60	--	--
08/19/91	19.79	12.05	7.74	--	3300	150	100	160	330	--	--
10/29/91	19.79	12.39	7.40	--	1500	93	26	140	180	--	--
01/13/92	19.79	13.13	6.66	--	450	38	26	25	73	--	--
04/02/92	19.79	13.42	6.37	--	420	27	20	18	29	--	--
06/10/92	19.79	12.54	7.25	--	120	17	1.2	10	11	--	--
09/21/92	19.79	10.78	9.01	--	490	43	20	13	60	--	--
01/04/93	19.79	14.27	5.52	--	1400	52	72	62	180	--	--
03/31/93	19.79	14.23	5.56	--	330	26	7.8	46	84	--	--
06/22/93	19.79	13.05	6.74	--	--	--	--	--	--	--	--
09/22/93	19.79	12.69	7.10	--	<50	14	0.8	<0.5	3.0	--	--
12/02/93	19.79	13.37	6.42	--	3200	77	77	110	400	--	--
03/07/94	19.79	13.88	5.91	--	770	19	13	25	78	--	--
06/17/94	19.79	11.59	8.20	--	220	3.6	3.5	6.0	22	--	--
09/02/94	19.79	12.79	7.00	--	250	7.3	3.1	11	19	--	--
11/29/94	19.79	14.09	5.70	--	92	1.7	0.90	2.8	6.5	--	--
03/29/95	19.79	13.57	6.22	--	88	1.7	<0.5	3.8	18	--	--
06/17/95	19.79	13.65	6.14	--	59	1.6	<0.5	4.4	5.9	--	--
09/12/95	19.79	13.04	6.75	--	110	1.4	<0.5	6.0	14	--	--
12/21/95	19.79	14.02	5.77	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/01/96	19.79	15.23	4.56	--	330	6.5	<0.5	28	44	<2.5	--
06/26/96	19.79	13.48	6.31	--	91	<0.5	<0.5	4.7	6.9	<2.5	--
09/17/96	19.79	13.22	6.57	--	100	2.1	<0.5	2.6	7.0	5.6	--
12/11/96	19.79	14.93	4.86	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/04/97	19.79	13.55	6.24	--	<50	<0.5	<0.5	1.1	1.4	<2.5	--
06/24/97	19.79	13.23	6.56	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

cont. Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-6											
02/12/91	19.06	12.87	6.19	--	24,000	170	410	600	2600	--	--
05/03/91	19.06	12.90	6.16	--	4600	50	90	220	840	--	--
08/19/91	19.06	12.05	7.01	--	17,000	140	200	620	2100	--	--
10/29/91	19.06	12.44	6.62	--	6800	110	120	380	1300	--	--
01/13/92	19.06	13.22	5.84	--	2900	41	42	210	700	--	--
04/02/92	19.06	13.49	5.57	--	9200	85	58	410	1100	--	--
06/10/92	19.06	12.57	6.49	--	2800	65	21	170	350	--	--
09/21/92	19.06	10.86	8.20	--	1400	31	15	79	260	--	--
01/04/93	19.06	14.33	4.73	--	4700	29	20	170	550	--	--
03/31/93	19.06	14.46	4.60	--	1400	25	15	140	390	--	--
06/22/93	19.06	13.30	5.76	--	13,000	170	73	850	2700	--	--
09/22/93	19.06	12.76	6.30	--	19,000	300	290	1300	4100	--	--
12/02/93	19.06	13.39	5.67	--	4700	63	36	200	710	--	--
03/07/94	19.06	13.96	5.10	--	2200	46	8.9	75	220	--	--
06/17/94	19.06	11.92	7.14	--	2100	6.3	38	58	210	--	--
09/02/94	19.06	12.80	6.26	--	3900	27	7.2	120	370	--	--
11/29/94	19.06	14.14	4.92	--	4700	17	<5.0	170	380	--	--
03/29/95	19.06	13.56	5.50	--	6500	62	<5.0	140	260	--	--
06/17/95	19.06	13.71	5.35	--	2900	20	<2.5	140	290	--	--
09/12/95	19.06	13.06	6.00	--	3300	11	<2.5	170	340	--	--
12/21/95	19.06	14.09	4.97	--	3500	39	<5.0	170	260	82	--
03/01/96	19.06	15.30	3.76	--	110	2.6	0.51	6.5	19	<2.5	--
06/26/96	19.06	13.50	5.56	--	760	3.0	<1.0	37	47	7.6	--
09/17/96	19.06	13.22	5.84	--	3000	47	<5.0	140	160	150	--
12/11/96	19.06	14.79	4.27	--	940	4.5	2.2	47	53	14	--
03/04/97	19.06	13.71	5.35	--	1000	2.7	<1.2	27	23	15	--
06/24/97	19.06	13.32	5.74	--	2900	<2.5	<2.5	110	72	45	--

cont. Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-7											
02/12/91	20.84	12.70	8.14	--	4800	8.0	2.0	300	610	--	--
05/03/91	20.84	13.23	7.61	--	810	5.0	<0.5	70	76	--	--
08/19/91	20.84	12.09	8.75	--	2300	8.7	4.2	160	150	--	--
10/29/91	20.84	12.24	8.60	--	520	<0.5	<0.5	60	74	--	--
01/13/92	20.84	12.78	8.06	--	460	5.1	<0.5	36	16	--	--
01/13/92	20.84	12.78	8.06	Duplicate	530	5	<0.5	38	18	--	--
04/02/92	20.84	13.33	7.51	--	660	<0.5	<0.5	38	25	--	--
06/10/92	20.84	12.43	8.41	--	390	<0.5	<0.5	30	19	--	--
09/21/92	20.84	11.05	9.79	--	460	<0.5	<0.5	9.9	15	--	--
01/04/93	20.84	13.99	6.85	--	880	3.5	<0.5	54	33	--	--
03/31/93	20.84	14.63	6.21	--	300	<0.5	<0.5	26	17	--	--
06/22/93	20.84	13.15	7.69	--	220	<0.5	0.8	21	9.0	--	--
09/22/93	20.84	12.67	8.17	--	130	<0.5	2.0	9.0	4.0	--	--
12/02/93	20.84	13.06	7.78	--	84	<0.5	<0.5	7.0	3.0	--	--
03/07/94	20.84	13.66	7.18	--	130	0.6	<0.5	12	2.8	--	--
06/17/94	20.84	11.78	9.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/94	20.84	12.66	8.18	--	80	<0.5	<0.5	18	5.0	--	--
11/29/94	20.84	13.96	6.88	--	<50	<0.5	<0.5	3.2	0.59	--	--
03/29/95	20.84	13.16	7.68	--	<50	<0.5	<0.5	0.52	<0.5	--	--
06/17/95	20.84	14.42	6.42	--	86	<0.5	<0.5	9.0	1.7	--	--
09/12/95	20.84	12.80	8.04	--	<50	<0.5	<0.5	1.9	<0.5	--	--
12/21/95	20.84	13.89	6.95	--	59	<0.5	<0.5	1.1	<0.5	<2.5	--
03/01/96	20.84	14.81	6.03	--	<50	<0.5	<0.5	7.2	<0.5	<2.5	--
06/26/96	20.84	13.10	7.74	--	<50	<0.5	<0.5	2.1	<0.5	<2.5	--
09/17/96	20.84	12.93	7.91	--	<50	<0.5	<0.5	0.87	<0.5	<2.5	--
12/11/96	20.84	14.66	6.18	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/04/97	20.84	13.33	7.51	--	59	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/24/97	20.84	13.06	7.78	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

cont. Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-8											
08/19/91	19.33	12.29	7.04	--							
10/29/91	19.33	12.24	7.09	--	51	<0.5	<0.5	<0.5	<0.5	--	--
10/29/91	19.33	12.24	7.09	Duplicate	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/92	19.33	12.46	6.87	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	19.33	13.77	5.56	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/10/92	19.33	12.79	6.54	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/21/92	19.33	11.57	7.76	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/04/93	19.33	14.73	4.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/31/93	19.33	14.72	4.61	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/22/93	19.33	13.69	5.64	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/22/93	19.33	11.92	7.41	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/02/93	19.33	13.81	5.52	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/07/94	19.33	14.36	4.97	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/17/94	19.33	13.04	6.29	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/94	19.33	13.22	6.11	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/29/94	19.33	14.47	4.86	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/29/95	19.33	14.26	5.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/17/95	19.33	14.26	5.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/12/95	19.33	13.48	5.85	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/21/95	19.33	14.48	4.85	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/01/96	19.33	15.77	3.56	--	<50	<0.5	<0.5	<0.5	<0.5	6.0	--
06/26/96	19.33	13.90	5.43	--	<50	<0.5	<0.5	<0.5	<0.5	5.8	--
09/17/96	19.33	13.62	5.71	--	<50	<0.5	<0.5	<0.5	<0.5	5.1	--
12/11/96	19.33	14.75	4.58	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/04/97	19.33	14.08	5.25	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/24/97	19.33	13.64	5.69	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
					<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

cont. Table 6

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
C-9											
08/19/91	19.23	11.08	8.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/91	19.23	11.41	7.82	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/92	19.23	12.24	6.99	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	19.23	12.50	6.73	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/10/92	19.23	11.56	7.67	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/21/92	19.23	10.65	8.58	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/04/93	19.23	13.25	5.98	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/31/93	19.23	13.37	5.86	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/22/93	19.23	12.46	6.77	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/22/93	19.23	11.91	7.32	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/02/93	19.23	12.52	6.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/07/94	19.23	13.17	6.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/17/94	19.23	12.14	7.09	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/94	19.23	11.96	7.27	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/29/94	19.23	13.35	5.88	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/29/95	19.23	13.68	5.55	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/17/95	19.23	12.72	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/12/95	19.23	12.16	7.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/21/95	19.23	13.19	6.04	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/01/96	19.23	14.20	5.03	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/26/96	19.23	12.50	6.73	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/17/96	19.23	12.24	6.99	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/11/96	19.23	14.00	5.23	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/04/97	19.23	12.71	6.52	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/24/97	19.23	12.32	6.91	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Field location of boring: (See Plate 2)

Project No.: 7272 Date: 09/17/90 Boring No: C-1

Client: Chevron USA (Gulf SS #897)

Location: N.E. Corner Tennyson Rd./Tyrrell

City: Hayward

Logged by: R.C.M. Driller: Bayland Sheet 1 of 2

Casing installation data:

Drilling method: Hollow Stem Auger

Hole diameter: 8-inches

Top of Box Elevation: 20.91' Datum: MSL

PTD (ppm)	Blows/ft or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level	9.0'	8.8		
								Time	10:40	14:00		
								Date	09/17/90	09/17/90		
Description												
				0								
				1								
				2								
				3								
				4								
0	350	S&H	C-1-5.5	5								
	350			6								
				7								
				8								
	2			9								
0	5	S&H	C-1-9	10								
	5			11								
				12								
				13								
				14								
0	2	S&H	C-1-15.5	15								
	3			16								
				17								
				18								
				19								

Remarks:

Field location of boring: (See Plate 2)	Project No.: 7272	Date: 09/17/90	Boring No:
	Client: Chevron USA (Gulf S: #897)		C-1
	Location: N.E. Corner Tennyson Rd./Tyrrell		Sheet 2
	City: Hayward, California		of 2
	Logged by: R.C.M.	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation:	Datum:
Hole diameter: 8-inches		

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description	
								Time					
	2												
0	3	S&H	C-1-19.5	20									
	4												
				21									
				22									
	9			23									
0	10												
	14	S&H	C-1-23.5	24									
	11												
				25									
				26									
				27									
				28									
				29									
				30									
				31									
				32									
				33									
				34									
				35									
				36									
				37									
				38									
				39									

Remarks:

Field location of boring: (See Plate 2)	Project No.: 7272	Date: 09/17/90	Boring No:
	Client: Chevron USA (Gulf SS #897)		C-2
	Location: N.E. Corner Tennyson Rd./Tyrrell		Sheet 1
	City: Hayward, California		of 2
	Logged by: R.C.M.	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation: 20.91'	Datum: MSL
Hole diameter: 8-inches		

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								9.5'	8.90	
								Time	11:45	15:20
								Date	09/17/90	09/17/90
				0						
				1						CLAY (CL) - very dark gray (10YR 3/1), stiff, damp, medium plasticity; 80% clay; 20% silt; no chemical odor.
				2						
				3						
				4						
5	3 5 8	S&H	C-2-5.5	5						no chemical odor.
				6						
				7						
732	5 6 6	S&H	C-2-8.5	8						COLOR CHANGE to olive gray (5Y 5/2) at 7.0 feet; increasing to 5% sand; strong chemical odor.
				9						
				10						saturated cuttings at 9.5 feet.
				11						
				12						
				13						
				14						
0	0 3	S&H	C-2-15	15						SILTY SAND (SM) - olive brown (2.5Y 4/4), very loose, saturated; 60% fine sand; 35% silt; 5% clay; no chemical odor.
				16						
				17						SAND (SP) - olive brown (2.5Y 4/4), very loose, saturated; 95% sand; 5% silt; no chemical odor.
				18						
				19						

Remarks:



GeoStrategies Inc.

Log of Boring

BORING NO.

C-2

JOB NUMBER
7272

REVIEWED BY RG/CEG
CAMP 08/12/92

DATE
9/90

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)	Project No.: 7272	Date: 09/17/90	Boring No:
	Client: Chevron USA (Gulf SS #897)		C-2
	Location: N.E. Corner Tennyson Rd./Tyrrell		Sheet 2
	City: Hayward, California		of 2
	Logged by: R.C.M.	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation:	Datum:
Hole diameter: 8-inches		

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
	7							
0	15	S&H	C-2-20.5	20				Increasing coarse sand at 19.5 feet.
	24			21				SAND (SW) - olive brown (2.5Y 4/4), dense, saturated; 85% sand; 10% gravel; 5% silt; no chemical odor.
				22				
				23				soft drilling at 22.0 feet.
				24				
0	4			25				CLAY (CL) - olive (5Y 4/3), stiff, moist, 80% clay; 20% silt, trace fine sand, medium plasticity; rootholes; no chemical odor.
	6	S&H	C-2-25.5	25				
	7			26				
				27				
				28				Bottom of Boring at 25.5 feet.
				29				Bottom of Sample at 25.5 feet.
				30				09/17/90
				31				
				32				
				33				
				34				
				35				
				36				
				37				
				38				
				39				

Remarks:

Field location of boring:
(See Plate 2)

Project No.: 7272. Date: 09/17/90 Boring No:
 Client: Chevron USA (Gulf SS #897) C-3
 Location: N.E. Corner Tennyson Rd./Tyrrell
 City: Hayward, California Sheet 1
 Logged by: R.C.M. Driller: Bayland of 2
 Casing installation data:

Drilling method: Hollow Stem Auger
 Hole diameter: 8-inches

Top of Box Elevation: 20.12' Datum: MSL
 Water Level 9.0' 8.2
 Time 8:55 12:48
 Date 09/17/90 09/17/90

PID (ppm)	Blows/ft or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)
				0			
				1			
				2			
				3			
	200			4			
0	200	S&H	C-3-5.5	5			
	400			6			
				7			
	250			8			
0	250	S&H	C-3-8.5	9			
	250			10			
				11			
	2			12			
0	4	S&H	C-3-10.5	13			
	4			14			
				15			
	2			16			
0	5	S&H	C-3-15.5	17			
	7			18			
				19			

Description

PAVEMENT SECTION - 0.5 feet.

SILTY CLAY (CL/ML) - very dark gray (10YR 3/1), medium stiff, damp, medium plasticity; 70% clay; 30% silt; trace fine sand; no chemical odor.

SILT (ML) - pale olive (5Y 6/3), soft, moist, 85% silt; 10% clay; 5% sand; no chemical odor

SILTY SAND (SM) - olive (5Y 5/3), loose, saturated; 85% fine sand; 15% silt.

SILT (ML) - olive (5Y 5/3), medium stiff, saturated; 70% silt; 20% sand; 10% clay; shell fragments; no chemical odor.

SAND (SP) - olive (5Y 5/3), loose, saturated; 95% fine sand; 5% silt; no chemical odor.

medium stiff; no chemical odor.

Remarks:



GeoStrategies Inc.

Log of Boring

BORING NO.

C-3

JOB NUMBER
7272

REVIEWED BY RG/CEG
CAMP 08/12/02

DATE
9/90

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)	Project No.: 7272	Date: 09/17/90	Boring No:
	Client: Chevron USA (Gulf SS #897)		C-3
	Location: N.E. Corner Tennyson Rd./Tyrrell		Sheet 2
	City: Hayward, California		of 2
	Logged by: R.C.M.	Driller: Bayland	

Drilling method: Hollow Stem Auger	Casing installation data:
Hole diameter: 8-inches	Top of Box Elevation: Datum:

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level			
								Time	Date		
	3							Description			
0	5	S&H	C-3-20.5	20				Brown discoloration; no chemical odor.			
	7			21							
				22				Hard drilling 21.0 to 23.0 feet.			
				23							
				24				Soft at 23.0 feet.			
0	5	S&H	C-3-25.5	25				CLAYEY SILT (ML/CL) - olive gray (5Y 5/2), stiff, saturated; 60% silt; 40% clay; greenish gray (5BG 6/1), discoloration, peat fragments, medium plasticity; no chemical odor.			
	8			26				Bottom of Sample 25.5 feet.			
				27				Bottom of Boring 25.5 feet.			
				28				09/17/90			
				29							
				30							
				31							
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							

Remarks:

Field location of boring: (See Plate 2)	Project No.: 7272	Date: 09/17/90	Boring No:
	Client: Chevron USA (Gulf SS #897)		C-4
	Location: N.E. Corner Tennyson Rd./Tyrrell		
	City: Hayward, California		Sheet 1
	Logged by: R.C.M.	Driller: Bayland	of 2

Drilling method: Hollow Stem Auger	Top of Box Elevation: 19.92'	Datum: MSL	
Hole diameter: 8-inches	Water Level	9.25	8.0

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				0				
				1				PAVEMENT SECTION - 6 inches
				2				CLAY (CL) - very dark gray (10YR 2/1), stiff, moist, medium plasticity; 75% clay; 20% silt; 5% sand; weak chemical odor.
				3				
				4				
413	350	S&H	C-4-5.0	5				moderate chemical odor.
	350			6				
				7				
	250			8				COLOR CHANGE to greenish gray (5GY 5/1) at 7.0 feet.
640	250	S&H	C-4-9	9				SAND (SP) - greenish gray (5GY 5/1), loose, saturated with gasoline; 90% fine sand; 5% silt; strong chemical odor.
	250			10				
				11				
				12				
				13				
				14				
25	0	S&H	C-4-15.5	15				SAND (SM) - olive brown (2.5 4/4), loose, saturated; 75% sand; 25% silt; no chemical odor
	3			16				
				17				
				18				
				19				

Remarks:

Field location of boring:

(See Plate 2)

Project No.: 7272	Date: 09/17/90	Boring No:
Client: Chevron USA (Gulf SS #897)		C-4
Location: N.E. Corner Tennyson Rd./Tyrrell		Sheet 2
City: Hayward, California		of 2
Logged by: R.C.M.	Driller: Bayland	
Casing installation data:		

Drilling method: Hollow Stem Auger

Hole diameter: 8-inches

Top of Box Elevation: Datum:

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								Time	Date	
	7									
2	8	S&H	C-4-20.5	20						SAND (SP) - olive brown (2.5Y 4/4), medium dense, saturated; 95% fine sand; 5% gravel; no chemical odor.
	8			21						
				22						CLAY (CL) - olive brown (2.5Y 4/4), stiff, moist, medium plasticity, 80% clay; 20% silt; trace fine sand; no chemical odor.
				23						
				24						
				25						Bottom of Sample at 20.5 feet. Bottom of Boring at 20.5 feet. 09/17/90
				26						
				27						
				28						
				29						
				30						
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						

Remarks:



GeoStrategies Inc.

Log of Boring

BORING NO.

C-4

JOB NUMBER
7272

REVIEWED BY RG/CEG
OMP CEG 1262

DATE
9/90

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)

Project No.: 7272 Date: 09/17/90 Boring No: C-5

Client: Chevron USA (Gulf SS #897)

Location: N.E. Corner Tennyson Rd./Tyrrell

City: Hayward, California Sheet 1 of 2

Logged by: R.C.M. Driller: Bayland

Casing installation data:

Drilling method: Hollow Stem Auger

Hole diameter: 8-inches

Top of Box Elevation: 19.79' Datum: MSL

PID (ppm)	Blows/ft or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								9.50'	5.00'	
								Time	16:30	18:10
								Date	09/17/90	09/17/90
				0						
				1						PAVEMENT SECTION - 0.5 feet
				2						CLAY (CL) - very dark gray (10YR 3/1), medium stiff, damp; trace fine sand, 80% clay, 20% silt; trace fine sand; no chemical odor.
				3						
				4						
	500			5						very stiff, gray mottling (possibly caliche) at 5.5 feet; no chemical odor.
0	20	S&H	C-5-5.5	5						
	26			6						
				7						
	3			8						SILTY SAND (SM) - greenish gray (5GY 5/1), medium dense, saturated with Gasoline; 60% sand; 30% silt; 10% clay, trace gravel; strong chemical odor.
	4			9						
771	5	S&H	C-5-9	9						
	7			10						
				11						
				12						
				13						
				14						
	1			15						
0	1	S&H		15						
	3			16						SAND (SP) - light olive brown (2.5Y 5/4), loose, saturated, 95% fine sand; 5% silt; no chemical odor. gravel in shoe.
				17						
				18						
				19						

Remarks:



GeoStrategies Inc.

Log of Boring

BORING NO.

C-5

JOB NUMBER 7272

REVIEWED BY RG/CEG
CMP #E61262

DATE 9/90

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)	Project No.: 7272	Date: 09/17/90	Boring No:
	Client: Chevron USA (Gulf SS #897)		C-5
	Location: N.E. Corner Tennyson Rd./Tyrrell		Sheet 2
	City: Hayward, California		of 2
	Logged by: R.C.M.	Driller: Bayland	

Drilling method: Hollow Stem Auger
 Hole diameter: 8-inches
 Top of Box Elevation: _____ Datum: _____

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description
								Time				
	3											
	6	S&H	C-5-20.5	20								SAND (SW) - very dark gray (5Y 3/1), medium dense, saturated; 90% medium to coarse sand; 10% gravel; no chemical odor.
	8			21								CLAY (CL) - olive (5Y 5/3), stiff, moist, medium plasticity; 80% clay; 10% silt; 10% sand; no chemical odor.
				22								
				23								Bottom of Sample at 20.5 feet.
				24								Bottom of Boring at 20.5 feet.
				25								09/17/90
				26								
				27								
				28								
				29								
				30								
				31								
				32								
				33								
				34								
				35								
				36								
				37								
				38								
				39								

Remarks:

Field location of boring: (See Plate 2)	Project No.: 727202	Date: 02/05/91	Boring No:
	Client: Chevron Service Station No. 0897		C-6
	Location: N.E. Corner Tennyson Rd/Tyrrell		
	City: Hayward, California		Sheet 1
	Logged by: KDM	Driller: Bayland	of 2
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation: 19.06	Datum: MSL
Hole diameter: 8-inches		

PID (ppm)	Blows/ft.* or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								8.5'	6.0'	
								Time	12:10	14:30
								Date	02/05/91	02/05/91
				0						PAVEMENT SECTION - 0.75 ft.
				1						
				2						CLAY (CH) - black (10YR 2/1), damp, medium to high plasticity; 95% clay; 5% silt.
				3						
	500	S&H		4						
	500	push		5						
44	500		C-6-5.0	5						
				6						
				7						
				8						
				9						SILTY SAND (SM) - dark olive gray (5Y 3/2), loose, saturated; 65% fine sand; 35% silt.
8	4	S&H	C-6-10.0	10						COLOR CHANGE to olive brown (2.5Y 4/4) at 10.0 ft.
				11						
				12						
				13						
				14						SILT (ML) - olive brown (2.5Y 4/4), soft, saturated, low plasticity; 60% silt; 35% clay; trace fine sand; rootholes.
1	4	S&H	C-6-14.5	15						
				16						
				17						
				18						
				19						

Remarks: Heavy rain prior to drilling.
 * Converted to equivalent Standard Penetration blows/ft.

Field location of boring: (See Plate 2)	Project No.: 727202	Date: 02/05/91	Boring No:
	Client: Chevron Service Station No. 0897		C-6
	Location: N.E. Corner Tennyson Rd/Tyrrell		Sheet 2
	City: Hayward, California		of 2
	Logged by: KDM	Driller: Bayland	

Drilling method: Hollow Stem Auger
 Hole diameter: 8-inches
 Casing installation data:
 Top of Box Elevation: _____ Datum: _____

PID (ppm)	Blows/ft.* or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description	
								Time					
0	11	S&H	C-6-19.5	20									
				21									COLOR CHANGE to light olive brown (2.5Y 5/4), stiff at 19.0 ft.
				22									
				23									
				24									SAND (SP) - olive (5Y 4/3), medium dense, saturated; 80% fine sand; 20% fines.
0	11	S&H	C-6-25.0	25									SILTY SAND (SM) - olive gray (5Y 4/2), medium dense, moist; 65% fine sand; 35% silt.
				26									
				27									CLAY (CL) - olive (5Y 4/4), stiff, moist, low to medium plasticity; 70% clay; 20% silt; 10% fine sand.
				28									
				29									Bottom of Boring at 25.0 ft. 02/05/91
				30									
				31									
				32									
				33									
				34									
				35									
				36									
				37									
				38									
				39									

Remarks:

Field location of boring: (See Plate 2)	Project No.: 727202	Date: 02/05/91	Boring No:
	Client: Chevron Service Station No. 0897		C-7
	Location: N.E. Corner Tennyson Rd/Tyrrell		
	City: Hayward, California		Sheet 1
	Logged by: KDM	Driller: Bayland	of 2
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation: 20.84	Datum: MSL
Hole diameter: 8-inches		

PID (ppm)	Blows/ft* or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								8.5'	7.5'	
								Time	10:24	13:30
								Date	02/05/91	02/05/91
				0						
				1						SANDY SILT (ML) - very dark brown (10YR 2/2), saturated, low plasticity; 50% silt; 35% fine sand; 15% clay; trace gravel.
				2						SAND with GRAVEL (SP) - dark grayish brown (2.5Y 4/2), saturated; 65% fine to coarse sand; 25% fine to coarse gravel; 10% fines.
				3						
	500	S&H		4						CLAY (CH) - black (10YR 2/1), moist, medium to high plasticity; 95% clay; 5% silt.
	500	push		5						
0	500		C-7-5.0	5						
				6						
				7						
				8						
				9						
				10						SILTY SAND (SM) - olive gray (5Y 4/2), loose, saturated; 65% fine sand; 35% silt.
642	4	S&H	C-7-10.0	10						
				11						
				12						
				13						
				14						
				15						SILT (ML) - light olive brown (2.5Y 5/6), soft, saturated, low plasticity; 95% silt; 5% fine sand
2	2	S&H	C-7-15.0	15						
				16						
				17						
				18						
				19						

Remarks: Heavy rain prior to drilling.
 * Converted to equivalent Standard Penetration blows/ft.

Field location of boring: (See Plate 2)	Project No.: 727202	Date: 02/05/91	Boring No:
	Client: Chevron Service Station No. 0897		C-7
	Location: N.E. Corner Tennyson Rd/Tyrrell		
	City: Hayward, California		Sheet 2
	Logged by: KDM	Driller: Bayland	of 2

Drilling method: Hollow Stem Auger
Hole diameter: 8-inches
Casing installation data:

PID (ppm)	Blows/ft.* or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description			
								Water Level	Time	Date	
2	1	S&H	C-7-19.5	20				SAND (SW) - very dark grayish brown (2.5Y 3/2), very loose, saturated; 95% fine and coarse sand; trace gravels.			
				21							
				22							
				23							
0	6	S&H	C-7-24.5	24				SILT (ML) - olive brown (2.5Y 4/4), medium stiff, moist, low plasticity; 85% silt; 15% fine sand.			
				25							
				26				Bottom of Boring at 25.5 ft. 02/05/91			
				27							
				28							
				29							
				30							
				31							
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							

Remarks:



Date Drilled: July 11, 1994 Boring/Well Number VE-1
 Project: Gulf Station #897 Project Number: 30-0131
 Address: 895 W. Tennyson Road, Hayward, CA
 Drilling Contractor: Guess Drilling Log by: M. L. Carlisle
 Drill Rig Mobil B-53 Auger Size/Type: 10 in Hollow Stem Sample Method: Split Spoon
 Total Depth: 14 ft Completed Depth: 14 ft Depth to Groundwater: 8.25 ft
 Well Casing/Screen Material: Sch. 40 PVC Diameter: 4 inch Slot Size: .010 inch
 Filter Material/Size: 12-20 grade sand Well Seal: Bentonite pellets Backfill/Grout Material: Type I/II neat cement

Completion Details	Depth (feet)	Sample Number	Time	Blows	OVM (ppm)	USCS	Description: Soil Type, Composition (%), Grain size, Inclusions, Color, Moisture, Plasticity, Consistency (stiffness/density), Other distinguishing features.
			0855	40	0.0	Fill	Baserock Fill; black (N1); dry
		VE1-2.5	0908	39	0.0		
		VE1-4.0	0916	36	0.0	CL	Silty (5-15%) clay with sand & gravel; olive black (5Y 2/1); damp; medium plasticity; hard; brown and red rootlets.
		VE1-5.5	0924	35	0.0		
			0933	16	0.0		
		VE1-10	0942	6	79	ML	Clayey (10-15%) silt with fine sand; light olive gray (5Y 5/2); moist; low plasticity; stiff; rootlets; black organics
		VE1-14.5	0954	10	0.3		increasing clay (15-20%), mottled medium dark gray (N4) with dark greenish gray (5G 4/1); wet; medium stiff
							light olive gray (5Y 5/2)

General Remarks:

- * Blow counts are recorded for 12 inches of sampler penetration using a 140 lb hammer unless otherwise specified.
- * OVM = hydrocarbon concentrations, as calibrated to isobutylene, field screened with a photoionization detector.
- * COLOR nomenclature is based upon 1) the color name and 2) the Munsell notation of color (consisting of separate notations for hue, value, and chroma, combined in that order to form the color designation). [Munsell Soil Color Chart]

This summary applies only at the location of this boring and at the time of drilling.
 The data presented is a simplification of actual conditions encountered.



Date Drilled: July 11, 1994 Boring/Well Number VE-2

Project: Gulf Station #897 Project Number: 30-0131

Address: 895 W. Tennyson Road, Hayward, CA

Drilling Contractor: Guess Drilling Log by: M. L. Carlisle

Drill Rig Mobil B-53 Auger Size/Type: 10 in Hollow Stem Sample Method: Split Spoon

Total Depth: 14 ft Completed Depth: 12.5 ft Depth to Groundwater: 8.02 ft

Well Casing/Screen Material: Sch. 40 PVC Diameter: 4 inch Slot Size: .010 inch

Filter Material/Size: 12-20 grade sand Well Seal: Bentonite pellets Backfill/Grout Material: Type I/II neat cement

Completion Details	Depth (feet)	Sample Number	Time	Blows	OVM (ppm)	USCS	Description: Soil Type, Composition (%), Grain size, Inclusions, Color, Moisture, Plasticity, Consistency (stiffness/density), Other distinguishing features.
			1115	29	1.1	Fill	Basereck Fill; black (N1); dry
		VE2-2.5	1120	46	0.0	CL	Silty (5-15%) clay; black (N1); damp; medium plasticity; hard; brown and red rootlets.
			1131	33	0.0		
		VE2-5.5	1143	26	0.0		
		VE2-7.0	1148	14	0.0	ML	Clayey (10-15%) silt with fine sand; light olive gray (5Y 5/2); moist; low plasticity; stiff; black organics; rootlets
		VE2-9.5	1156	8	56		
		VE2-14.5	1209	14	0.0	SM	silty (15-25%) sand; moderate yellowish brown (10YR 5/4) and light olive gray (5Y 5/2); wet; medium dense; (coarse to increasingly fine grains with depth)

General Remarks:

- * Blow counts are recorded for 12 inches of sampler penetration using a 140 lb hammer unless otherwise specified.
- * OVM = hydrocarbon concentrations, as calibrated to isobutylene, field screened with a photoionization detector.
- * COLOR nomenclature is based upon 1) the color name and 2) the Munsell notation of color (consisting of separate notations for hue, value, and chroma, combined in that order to form the color designation). [Munsell Soil Color Chart]


This summary applies only at the location of this boring and at the time of drilling.
The data presented is a simplification of actual conditions encountered.

Location of boring: (See Plate 2)	Project No.: 727202	Date: 08/14/91	Boring No:
	Client: Former Chevron SS No. 897		C-9
	Location: 895 West Tenryson Avenue		Sheet 1
	City: Hayward, California		of 2
	Logged by: R.S.Y.	Driller: W. Hazmat	
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation: 19.23	Datum: MSL
Hole diameter: 8-inches		

PID (ppm)	Blows/ft.* or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level			
								8.5'	9.0'	8.15'	
								Time	14:25	15:00	08:12
								Date	08/14/91	08/14/91	08/19/91
Description											
				1			ASPHALT SECTION - 12-inches				
				2							
				3			CLAY (CL) - black (2.5YR 2/0), medium stiff, moist; medium to low plasticity.				
				4							
	200			5							
	200		C-9-								
0	200	S&H	6.0	6			COLOR CHANGE to pale olive (5Y 6/3), at 6.0 feet; trace medium sand.				
				7							
				8							
				9							
				10			SAND (SP) - olive (5Y 4/3), medium dense, saturated; 10% fine subrounded gravel; fine sand.				
	250		C-9-	11							
0	250	S&H	11.5								
				12							
				13							
				14							
				15							
			C-9-	16			2-inch thick lenses of silt at 16.0 ft.				
0	26	S&H	16.5								
				17							
				18							
				19			CLAY (CL) - olive (5Y 5/3), stiff, saturated; medium plasticity; some silt; trace fine sand.				
				20							

Remarks:
 * Converted to equivalent Standard Penetration blows/ft.


GeoStrategies Inc.
Log of Boring
BORING NO. **C-9**

Field location of boring: (See Plate 2)	Project No.: 727202	Date: 08/14/91	Boring No:
	Client: Former Chevron SS No. 897		C-9
	Location: 895 West Tennyson Avenue		
	City: Hayward, California		Sheet 2
	Logged by: R.S.Y.	Driller: Bayland	of 2

Drilling method: Hollow Stem Auger
 Hole diameter: 8-inches
 Top of Box Elevation: _____ Datum: MSL

PID (ppm)	Blows/ft.* or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description
								Time				
				21								
				22								Bottom of Boring at 21.5 ft. 08/14/91
				23								
				24								
				25								
				26								
				27								
				28								
				29								
				30								
				31								
				32								
				33								
				34								
				35								
				36								
				37								
				38								
				39								
				40								

Remarks:

Field location of boring: (See Plate 2)	Project No.: 727202	Date: 07/31/91	Boring No:
	Client: Former Chevron SS No. 897		C-8
	Location: 895 West Tennyson Avenue		
	City: Hayward, California		Sheet 1
	Logged by: R.S.Y.	Driller: W. Hazmat	of 2
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation: 19.33	Datum: MSL
Hole diameter: 8-inches		

PID (ppm)	Blows/ft.* or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								7	7.04	
								Time		
								13:50	08:36	
								Date	07/31/91	08/19/91
				0						
				1						CLAY (CL) - very dark gray (10YR 3/1), stiff, dry, organic fragments.
				2						
				3						
				4						
				5						
				6						
				7						
				8						SILT (ML) - dark yellow brown (10YR 4/4), stiff, saturated, water in voids; minor clay.
0	13	S&H	C-8-8.5							
				9						
				10						
				11						increasing clay content at 11.5 ft.
0	11	S&H	C-8-11.5							
				12						
				13						
				14						
				15						SILTY SAND (SM) - olive gray (5Y 5/2), medium dense, saturated; 80% fine sand; lenses of silt.
0	16	S&H	C-8-15.5							
				16						
				17						
				18						
				19						

Remarks:
* Converted to equivalent Standard Penetration blows/ft.

Field location of boring: (See Plate 2)	Project No.: 727202	Date: 07/31/91	Boring No: C-8
	Client: Former Chevron SS No. 897		
	Location: 895 West Tennyson Avenue		Sheet 2 of 2
	City: Hayward, California		
	Logged by: R.S.Y.	Driller: W. Hazmat	

Drilling method: Hollow Stem Auger	Casing installation data:
------------------------------------	---------------------------

Hole diameter: 8-inches	Top of Box Elevation:	Datum: MSL
-------------------------	-----------------------	------------

PID (ppm)	Blows/ft.* or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level			Description	
								Time				
			C-8-	20							CLAY (CL) - olive gray (5Y 5/2), hard, saturated; trace fine sand; organic nodules.	
0	39	S&H	20.5									
				21								
				22								
				23								
			C-8-	24								COLOR CHANGE to olive (5Y 5/3) increasing silt content; mottled gray at 25.0 ft..
0	18	S&H	25.0	25								
				26								Bottom of Boring at 25.0 ft.
				27								07/31/91
				28								
				29								
				30								
				31								
				32								
				33								
				34								
				35								
				36								
				37								
				38								
				39								

Remarks: