

2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

June 23, 1992

Mr. Gil Wistar County of Alameda Department of Environmental Health Hazardous Materials Division 80 Swan Way, Room 200 Oakland, California 94621

Reference:

Shell Service Station 999 San Pablo Avenue Albany, California WIC# 204-0079-0109

Mr. Wistar:

As requested by Mr. Dan Kirk of Shell Oil Company, we are forwarding a copy of the June 23, 1992 Quarterly Report for the above referenced location. The report presents the results of the ground-water sampling conducted during the second quarter of 1992.

If you have any questions, please call.

Sincerely,

Ellen Fostersmith

Ellen Jesteremid

Geologist

EF/shl

cc:

Mr. Dan Kirk, Shell Oil Company

Mr. Tom Callaghan, Regional Water Quality Control Board



QUARTERLY REPORT

Shell Service Station 999 San Pablo Avenue Albany, California WIC 204-0079-0109



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

June 23, 1992

Shell Oil Company P.O. Box 5278 Concord, California

Attn: Mr. Dan Kirk

Re: QUARTERLY REPORT

Shell Service Station 999 San Pablo Avenue Albany, California WIC# 204-0079-0109

Mr. Kirk:

This Quarterly Report has been prepared by GeoStrategies Inc. (GSI) presents the results of the 1992 second quarter sampling for the above referenced site (Plate 1). Sampling data were furnished by the Shell Oil Company sampling contractor.

There are currently seven monitoring wells at the site; Wells S-1 through S-7 (Plate 2). These wells were installed in 1990.

CURRENT QUARTER SAMPLING RESULTS

Depth to water-level measurements were obtained in each monitoring well on May 6, 1992. Static ground-water levels were measured from the surveyed top of each well box and recorded to the nearest ± 0.01 foot. Water-level elevations, referenced to Mean Sea Level (MSL) datum and the stabilized values of measured physical parameters are presented in the EMCON Monitoring Report (Appendix A). Water-level data were used to construct a quarterly potentiometric map (Plate 2). Shallow ground-water flow is to the south and west at an approximate hydraulic gradient of 0.04.

Each well was checked for the presence of floating product. Floating product was observed in Well S-5 at a measured thickness of 5.66 feet.

Shell Oil Company June 23, 1992 Page 2

Ground-water samples were collected on January 28, 1992. Samples were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline), according to EPA Method 8015 (Modified) and for BTEX according to EPA Method 8020. The ground-water samples were analyzed by Anametrix Inc., a California State-certified laboratory located in San Jose, California. The laboratory analytical report and Chain - of - Custody form are presented in Appendix A. These data are summarized and included with the historical chemical analytical data presented in Appendix A. A chemical isoconcentration map for benzene is presented on Plate 3.

If you have any questions, please call.

Ellenc. Frateumer

GeoStrategies Inc. by,

Ellen C. Fostersmith

Geologist

Michael C. Carey

Engineering Geologist

C.E.G. 1351

ECF/MCC/shl

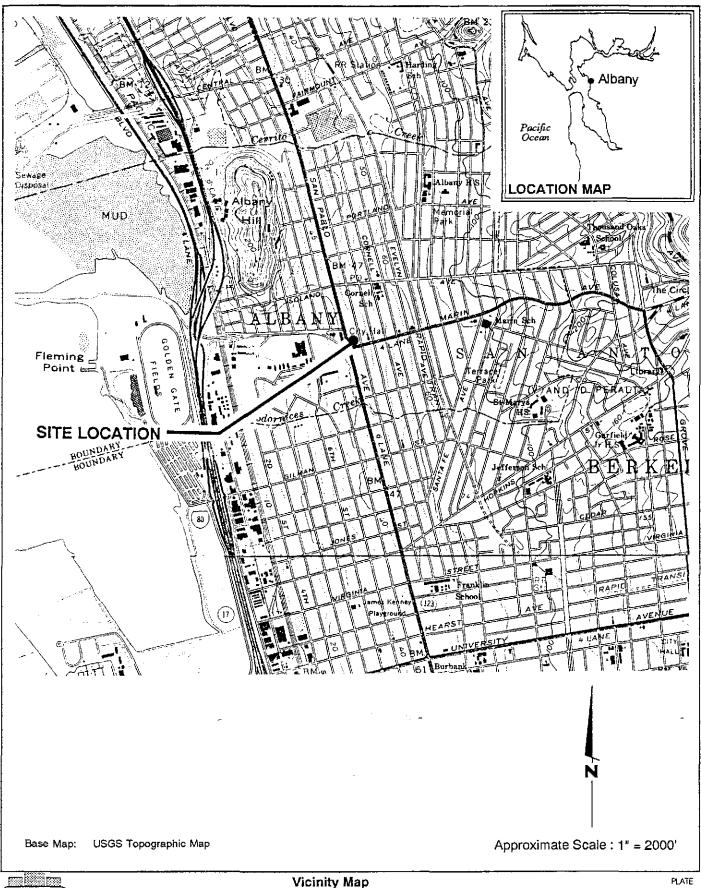
Plate 1. Vicinity Map

Plate 2. Site Plan/Potentiometric Map

Plate 3. Benzene Isoconcentration Map

Appendix A: EMCON Monitoring Report and Chain-of-Custody Form

QC Review





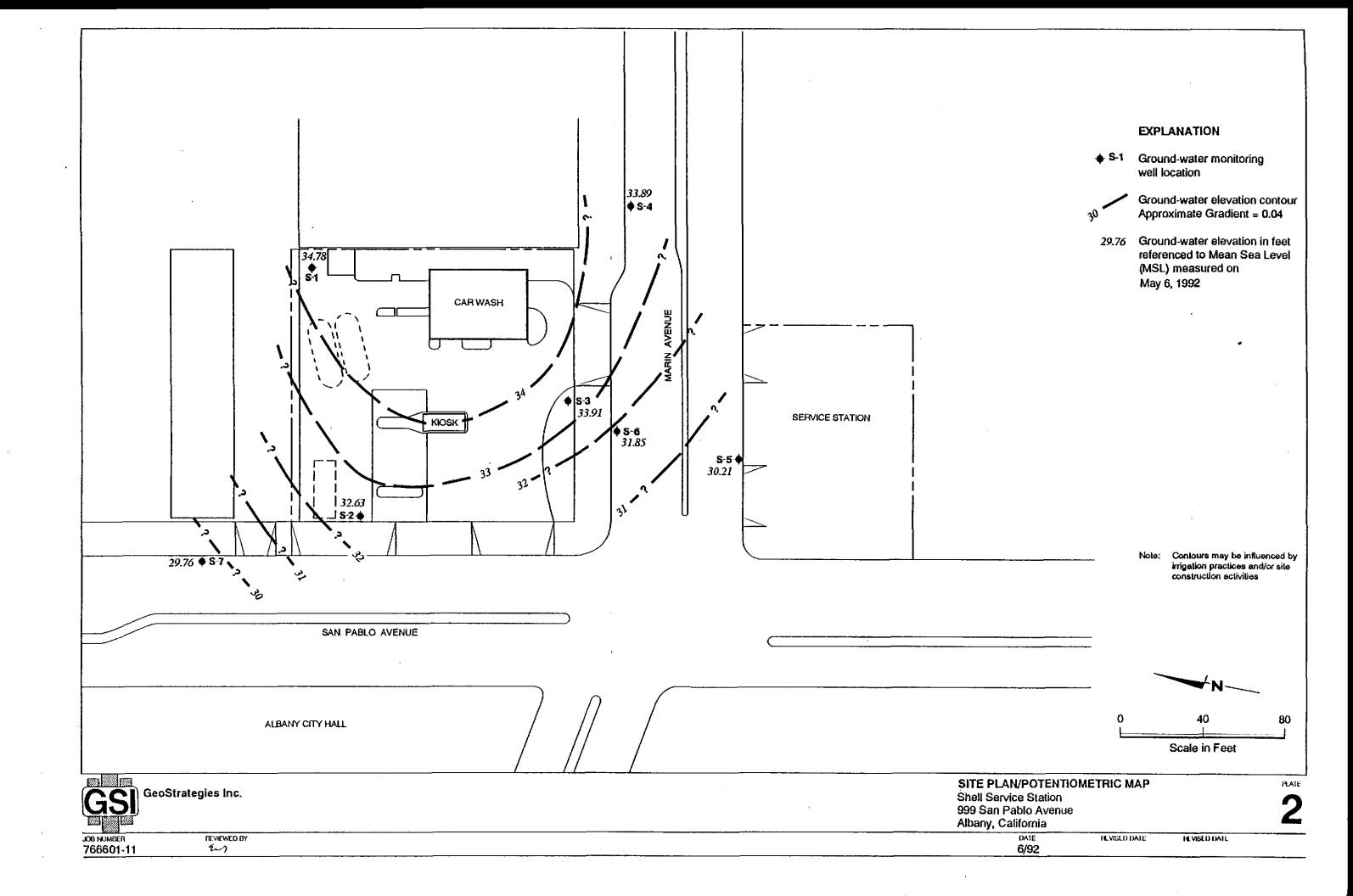
Vicinity Map Shell Service Station 999 San Pablo Avenue Albany, California

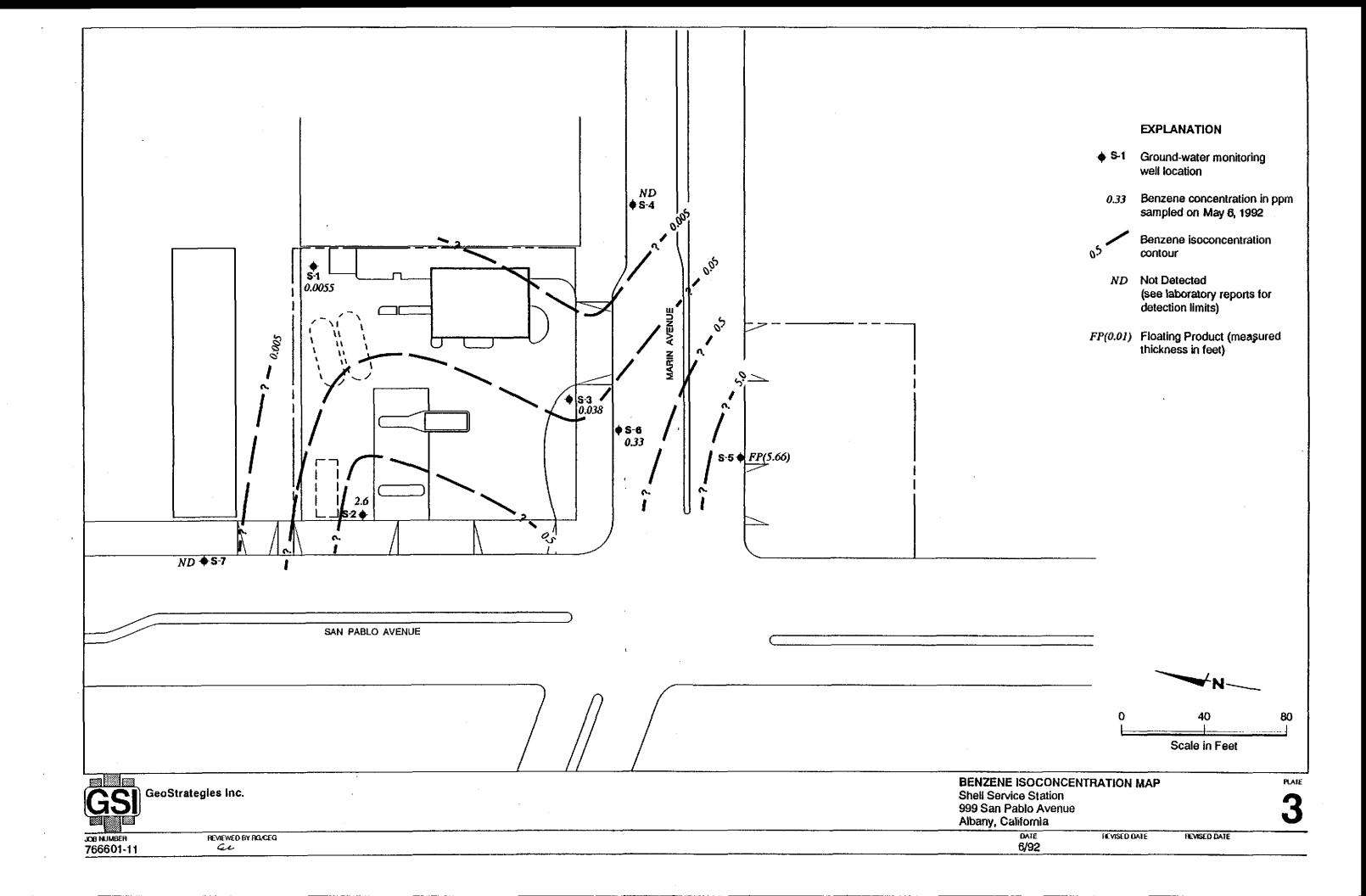
1

JOS NUMBER 7666 REVIEWED BY

DATE 1/90 REVISED DATE

REVISED DATE







RECEIVED

JUN 8 1992

GeoStrategies Inc.

June 5, 1992 Project: G67-19.01 WIC#: 204-0079-0109

Ms. Ellen Fostersmith Geo Strategies Inc. 2140 West Winton Avenue Hayward, California 94545

Re: Second quarter 1992 ground-water monitoring report, Shell Oil Company, 999 San Pablo Avenue, Albany, California

Dear Ms. Fostersmith:

This letter presents the results of the second quarter 1992 ground-water monitoring event for the Shell Oil Company (Shell) site located at 999 San Pablo Avenue, Albany, California. Second quarter monitoring was conducted on May 6, 1992. The site is monitored quarterly.

GROUND-WATER LEVEL SURVEY

A water-level survey preceded the purging and sampling of the monitoring wells. The wells included in the survey are identified in figure 1 (supplied by Geo Strategies Inc.). During the survey, wells S-1 through S-7 were measured for depth to water, floating product thickness, and total depth. Depth to water and floating product thickness were measured to the nearest 0.01 foot with an oil/water interface probe. Floating product, 5.66 feet thick, was observed in well S-5. Total depth was measured to the nearest 0.1 foot. Results of the second quarter water-level survey, and available data from four previous surveys, are summarized in table 1.

SAMPLING AND ANALYSIS

Ground-water samples were collected from wells S-1 through S-4, S-6, and S-7 on May 6, 1992. Prior to sample collection, the wells were purged with polyvinyl chloride or Teflon® bailers. During the purging operation, ground water was monitored for pH, electrical conductivity, and temperature as a function of volume of water removed. Purging continued until these parameters were stable and a minimum of three casing volumes of ground water were removed. Wells S-1, S-2, S-4, S-6, and S-7 were evacuated to dryness before the removal of three casing volumes. These wells were allowed to recharge for up to 24 hours. Samples were collected after the wells had recharged to a level sufficient for sample collection. Field measurements from second quarter monitoring, and available measurements from four previous monitoring



events, are summarized in table 1. Purge water from the monitoring wells was contained in a 55-gallon drum. The drum was identified with a Shell-approved label and secured for on-site storage.

Ground-water samples were collected with a Teflon bailer, labeled, placed on ice, and transported to a Shell-approved and state-certified analytical laboratory for analysis. Shell chain-of-custody documents accompanied all samples to the laboratory.

All equipment that was placed down a well or that came in contact with ground water was steam cleaned with deionized water prior to use at each well.

Quality control samples for second quarter monitoring included a trip blank (TB), and a duplicate well sample (SD-S6) collected from well S-6. All water samples collected during second quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

ANALYTICAL RESULTS

Analytical results for the second quarter 1992 monitoring event, and available results from four previous monitoring events, are summarized in table 2. The original certified analytical report and chain-of-custody documents are attached.

If you have any questions, please call.

Very truly yours,

EMCON Associates

David Larsen

Environmental Sampling Coordinator

Orrin Childs

Environmental Sampling Supervisor

DL/OC:dl

Attachments: Table 1 - Monitoring well field measurement data

Table 2 - Summary of analytical results

Figure 1 - Monitoring well locations

Certified analytical report Chain-of-custody documents

Table 1 Monitoring Well Field Measurement Data Second Quarter 1992

Shell Station: 999 San Pablo Avenue Albany, California WIC #: 204-0079-0109

Date: 06/03/92 Project Number: G87-19.01

Well Desig- nation	Water Level Field Date	TOB Elevation	Depth to Water	Ground- water Elevation	Total Well Depth	Floating Product Thickness	Water Sample Field Date	рн	Electrical Conductivity	Temperature	Turbidity
		(ft-MSL)	(feet)	(ft-MSL)	(feet)	(feet)		(std. units)	(micromhos/cm)	(degrees F)	(HTU)
s-1	05/13/91	42.73	8.24	34.49	11.8	ND	05/13/91	NR	500		
S-1	08/23/91	42.73	8.37	34.36	11.8	ND	08/23/91		680	59.8	NR
S-1	11/07/91	42.73	8.30	34.43	11.B	ND	11/07/91	6.63	614	68.1	NR
S-1	01/28/92	42.73	7.84	34.89	11.4	ND	01/28/92	7.04	544	68.3	NR
s-1	05/06/92	42.73	7.95	34.78	11.6	NO	05/06/92	6.87	707	63.9	>200
		· · ·	,	01.70	11.0	MV	03/00/82	6.56	692	87.3	833
5-2	05/13/91	40.73	8.50	32.23	12.1	NO	05/13/91	h m			
S-2	08/23/91	40.73	8.80	31.93	12.2	ND ND	08/23/91	NR C. S. C.	1098	61.7	NR
5-2	11/07/91	40.73	8.61	32.12	12.2	NO	11/07/91	6.58	940	69.4	NA
S - 2	01/28/92	40.73	7.80	32.93	11.8	ND ND	01/28/92	5.66	855	69.8	NR
S - 2	05/06/92	40.73	8.10	32.63	12.1	ND ND	05/06/92	8.94	1177	62.4	>200
		,	0,10	01.00	16.1	NU	02100185	7.02	1154	63,5	21.8
s-3	05/13/91	41.46	7.90	33.56	12.2	NO	05/13/91	NR	*4*		
S-3	08/23/91	41.46	8.14	33.32	12.2	ND ND	08/23/91		815	64.1	MR
S-3	11/07/91	41.46	7.91	33.55	12.2	ND ND	11/07/91	5.46 6.83	698	70.3	HR
S-3	01/28/92	41.46	7.53	33.93	11.9	DH DH	01/28/92	6.93	614	70.8	NR
S-3	05/06/92	41.46	7.55	33.91	12.1	ND	05/06/92	5.76 6.54	777	81.Z	>200
			,	00.51	, , ,	HU	03/06/62	9.54	704	85.2	>1000
S-4	05/13/91	41.10	7.44	33.66	14.1	ND	05/13/91	NR	655	64.3	NR
S-4	08/23/91	41.10	8.32	32.78	14.1	ND	08/23/91	6.55	356	67.8	NR
S-4	11/07/91	41.10	B.32	32.78	14.1	NO	11/07/91	6.60	356	69.5	NR
S-4	01/28/92	41.10	7.40	33.70	13.8	ND	01/28/92	6.80	409	63.6	>200
S-4	05/06/92	41.10	7,21	33.89	14.1	GN	05/06/92	6.16	419	67.9	>1000

TOB = top of well box

ft-MSL = elevation in feet, relative to mean sea level

std. units = standard pH units

micromhos/cm = micromhos per centimeter

degrees F = degrees Fahrenheit

NTU = nephelometric turbidity units

ND = None detected

NR = Not reported; data not available

Table 1 Monitoring Wall Field Measurement Data Second Quarter 1992

Shell Station: 999 San Pablo Avenue Albany, California WIC #: 204-0079-0109

Date: 06/03/92 Project Number: G67-19.01

Weil Desig- nation	Water Level Field Date	TOB Elevation	Depth to Water	Ground- water Elevation	Total Well Depth	Floating Product Thickness	Water Sample Field Date	pH	Electrical Conductivity	Temperature	Turbidity
~		(ft-MSL)	(feet)	(ft-MSL)	(feet)	(feet)		(std. units)	(micromhas/cm)	(degrees F)	(NTU)
5-5	05/13/91	39.99	14.60	30.57**	HR	6.48	05/13/91	£0	F.O.		
S-5	08/23/91	39.99	15.14	29.25**	NR	5.50	08/23/91	FP FP	FP	FP	FP
S-5	11/07/91	39,99	15.10	29.17**	HR	5.35	11/07/91		FP	FP	FP
S-5	01/28/92	39,99	14.05	29.86**	15.7	4.90	01/28/92	FP 50	FP	FP	FP
S-5	05/05/92	39.99	14.31	30.21**	16.1	5.66	05/06/92	FP FP	FP	FP	FP
					10.1	5.00	03/00/32	FP	FP	FP	FP
S-6	05/13/91	40.12	7.82	32.30	15,2	МО	05/13/91	li b	0.45		
S-6	08/23/91	40.12	9.58	30.54	15.3	NO NO	08/23/91	NR	645	64.2	NR
S-6	11/07/91	40.12	10.86	29.26	15.3	ND	11/07/91	5.61	598	68.8	HR
S-6	01/28/92	40.12	8.97	31.15	14.8	ND ND	01/28/92	7.34	538	70.2	NR
5-6	05/06/92	40,12	8.27	31.85	15.2			7.09	728	65.8	>200
			0.27	31.03	13.2	ND	05/06/92	7.27	594	64.5	>1000
S-7	05/13/91	40.10	10.56	29.54	15.2	ND	05/13/91	RM.	770		
S-7	08/23/91	40.10	11.16	28.94	15.1	ND	08/23/91		729	63.9	RR
S - 7	11/07/91	40.10	11.48	28.62	15.2	ND	11/07/91	6.61	600	68.4	MR
S - 7	01/28/92	40.10	10.72	29.38	14.7	ND ND	01/28/92	6.39	606	69.8	NR
5-7	05/06/92	40.10	10.34	29.76	15,1	ND ND	05/06/92	6.79	800	62.7	>200
			, , , , ,	20.70	,,,,	NU	037 007 92	6.84	826	67.2	>1000

TOB = top of well box

ft-MSL = elevation in feet, relative to mean sea level

std units = standard pH units

micromhos/cm = micromhos per centimeter

degrees F = degrees Fahrenheit

NTU = nephelometric turbidity units

^{** =} groundwater elevation corrected to include 80 percent of the floating product thickness measured in the well

NR = Not reported; data not available

FP = Floating product; well contained floating product and was not sampled

ND = Hone detected

Table 2 Summary of Analytical Results Second Quarter 1992 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 999 San Pablo Avenue Albany, California

WIC #: 204-0079-0109

Date: 06/05/92 Project Number: G87-19.01

Sample	Water Sample					
Desig- nation	Field Date	TPH-g	Benzene	Toluene	Ethyl- benzene	Total Xylenes
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
S-1	05/13/91	1.5	0.020	0.0026	0.086	0.014
S-1	08/23/91	2.9	0.027	<0.0025		0.074
S-1	11/07/91	2.9	0.0080	0.0025	0.075	0.018
S-1	01/28/92	2.0	0.011	<0.0025	0.046	0.026
\$-1	05/06/92	1.2			0.060	0.020
- •	22. 201 BE	1.2	0.0055	<0.0025	0.080	0.036
S - 2	05/13/91	23.	3.9	0 12		
S - 2	08/23/91	23.	4.4	0.23	1.1	3.2
s - 2	11/07/91	40.		0.26	1.9	2.4
3-2	01/28/92	22.	4.0	0.16	1.02	3.4
3 - Z	05/06/92		1.6	0.07	0.42	1.7
J -L	03700792	20.	2.6	D.11	0.86	1.9
S-3	05/13/91	3.3	0.030	0.0036	0.000	
S-3	08/23/91	2.0	0.025		0.026	0.013
5 - 3	11/07/91	4.0	0.020	0.0040	0.0093	0.0045
\$-3	01/28/92	2.1		0.0039	0.0050	0.0049
5 - 3	05/06/92		0.021	0.0076	0.0067	0.015
	03/00/82	6.6	0.038	0.051	0.045	0.065
SD - 3	01/28/92	2.1	0.018	0.0061	0.0071	0.014
S-4	05/13/91	.0 OF	0.000			
5 - 4	08/23/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
\$-4		<0.05	<0.0005	<0.0005	<0.0005	<0.0005
5-4 5-4	11/07/91	0.26	<0.0005	<0.0005	<0.0005	<0.0005
	01/28/92	0.11*	<0.0005	<0.0005	<0.0005	<0.0005
S - 4	05/06/92	0.054+	<0.0005	<0.0005	<0.0005	<0.0005

TPH-g = total petroleum hydrocarbons as gasoline

^{* =} Compounds detected and calculated as gasoline are not characteristic of the standard gasoline chromatographic pattern
+ = The concentration reported as gasoline is primarily due to the presence of a discrete hydrocarbon peak not indicative of gasoline

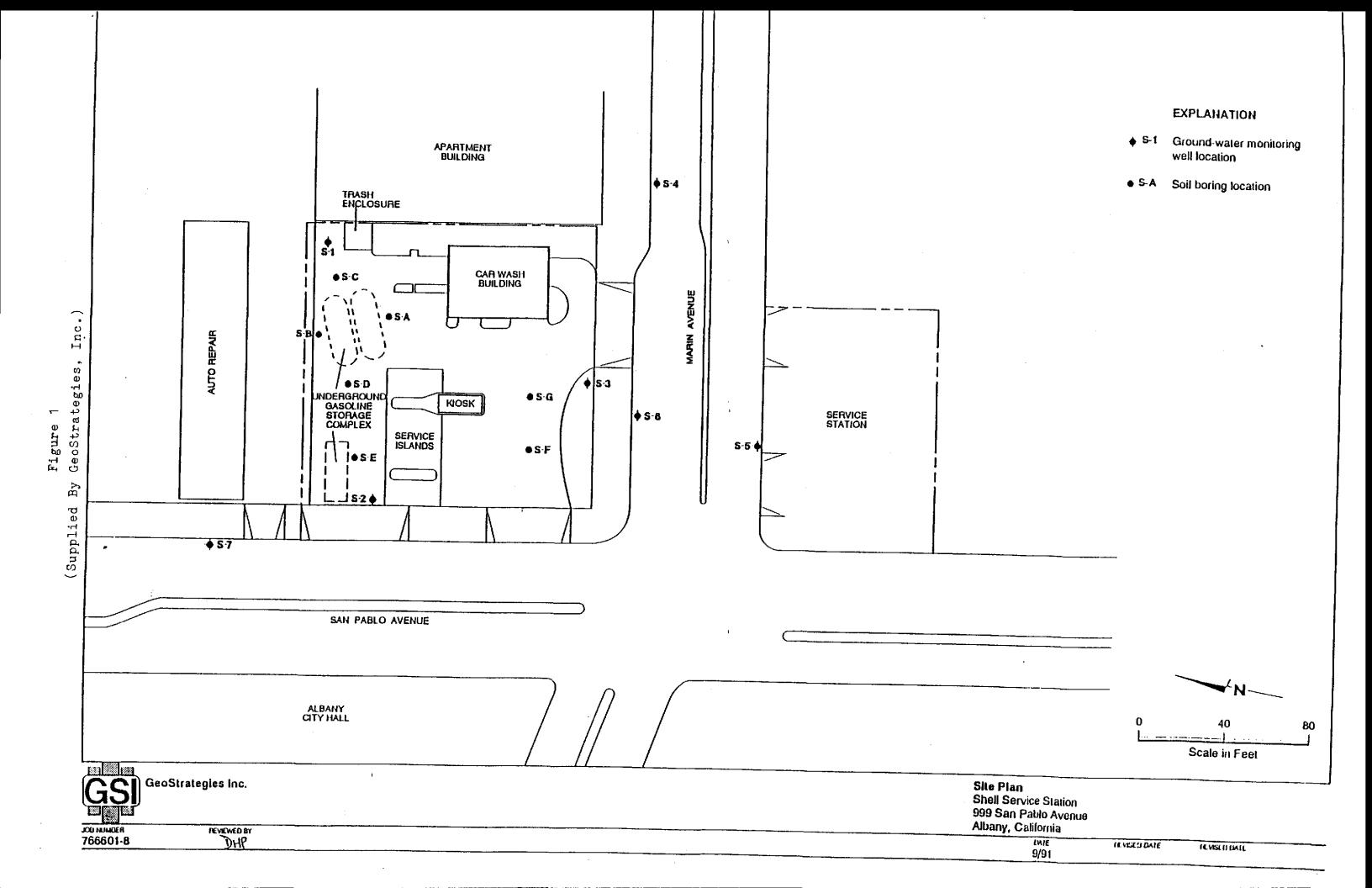
Table 2 Summary of Analytical Results Second Quarter 1992 milligrams per liter (mg/t) or parts per million (ppm)

Shell Station: 999 San Pablo Avenue Albany, California WIC #: 204-0079-0109

Date: 06/05/92 Project Number: G67-19.01

Sample Desig- nation	Water Sample Field Date	TPH-g	Benzena	Toluene	Ethyl- benzene	Total Xylenes
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
S-5	05/13/91	FP 1	FP	FP	FP	FP
S-5	08/23/91	FP	FP	FP	FP	
S · 5	11/07/91	FP	FP	FP	FP	FP
S-5	01/28/92	FP	FP	FP	FP	FP
S - 5	05/06/92	FP	FP	FP	FP	FP
		, ,	• •	r r	ΓP	FP
S-6	05/13/91	13.	0.60	0.14	n 21	
S-6	08/23/91	9.8	0.48	0.08	D.21	0.31
S-6	11/07/91	6.2	0.24	0.023	0.12	0.15
S-6	01/28/92	5.6	0.25	0.015	0.025	0.027
S-6	05/08/92	7.1	0.33		0.041	0.038
			0.00	0.029	0.11	0.21
SD-S6	05/06/92	6.3	0.28	<0.025	0.041	0.035
S-7	05/13/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
S - 7	08/23/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
S-7	11/07/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
S-7	01/28/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
S-7	05/06/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
TB	01/28/92	<0.05	<0.0005	<0.0005	<0.0005	-0.0005
TB	05/06/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005 <0.0005

IPH-g = total petroleum hydrocarbons as gasoline
FP = Floating product; well contained floating product and was not sampled



ANAMETRIX INC

Environmental & Analytical Chemistry 1961 Concourse Drive, Suite E, San Jose, CA 95131 (408) 432-8192 • Fax (408) 432-8198



MR. DAVID LARSEN EMCON ASSOCIATES 1938 JUNCTION AVE. SAN JOSE, CA 95131

Workorder # : 9205089 Date Received: 05/06/92 Project ID : G67-19.01 Purchase Order: MOH-B813

The following samples were received at Anametrix, Inc. for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9205089- 1 9205089- 2 9205089- 3 9205089- 4 9205089- 5 9205089- 6 9205089- 7 9205089- 8	S-4 S-7 S-3 S-1 S-6 S-2 SD-S6 T.BLANK

This report consists of 5 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.

Laboratory Director

EMCON ASSOCIATES

MAY 2 2 1992

RECEIVED

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. DAVID LARSEN EMCON ASSOCIATES 1938 JUNCTION AVE. SAN JOSE, CA 95131 Workorder # : 9205089
Date Received : 05/06/92
Project ID : G67-19.01
Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9205089- 1	S-4	WATER	05/06/92	TPHg/BTEX
9205089- 2	S-7	WATER	05/06/92	TPHg/BTEX
9205089- 3	S-3	WATER	05/06/92	TPHg/BTEX
9205089- 4	S-1	WATER	05/06/92	TPHg/BTEX
9205089- 5	S-6	WATER	05/06/92	TPHg/BTEX
9205089- 6	S-2	WATER	05/06/92	TPHg/BTEX
9205089- 7	SD-S6	WATER	05/06/92	TPHg/BTEX
9205089- 8	T.BLANK	WATER	05/06/92	TPHg/BTEX

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. DAVID LARSEN EMCON ASSOCIATES 1938 JUNCTION AVE. SAN JOSE, CA 95131 Workorder # : 9205089
Date Received : 05/06/92
Project ID : G67-19.01
Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as gasoline for sample S-4 is primarily due to the presence of a discrete hydrocarbon peak not indicative of gasoline.

Department/Supervisor Date

Chemist Ima

5/20/92

Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9205089 Project Number: G67-19.01
Matrix: WATER Date Released: 05/20/92

Date Sampled : 05/06/92

	Reporting Limit	Sample I.D.# S-4	Sample I.D.# S-7	Sample I.D.# S-3	Sample I.D.# S-1	Sample I.D.# S-6
COMPOUNDS	(mg/L)	-01	-02	-03	-04	-05
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline % Surrogate Rece Instrument I. Date Analyzed RLMF		ND ND ND O.054 111% HP4 05/17/92	ND ND ND ND 125% HP4 05/17/92	0.038 0.051 0.045 0.065 6.6 99% HP4 05/17/92		0.33 0.029 0.11 0.21 7.1 103% HP4 05/19/92

ND - Not detected at or above the practical quantitation limit for the method.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst Date

Cheul Balma 5/20/4. Supervisor Date

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9205089 Project Number: G67-19.01 Matrix: WATER Date Released: 05/20/92

Date Sampled : 05/06/92

	Reporting Limit	Sample I.D.# S-2	Sample I.D.# SD-S6	Sample I.D.# T.BLANK	Sample I.D.# 04B0517A	Sample I.D.# 04B0518A
COMPOUNDS	(mg/L)	-06	-07	-08	BLANK	BLANK
			* • • • • • • • • • • • • • • • • • • •			
Benzene	0.0005	2.6	0.28	ND	ND	ND
Toluene	0.0005	0.11	ND	ND	ND	ND
Ethylbenzene	0.0005	0.86	0.041	ND	ND	ND
Total Xylenes	0.0005	1.9	0.035	ND	ND	ND
TPH as Gasoline	0.050	20	6.3	ND	ND	ND
<pre>% Surrogate Reco Instrument I.I Date Analyzed RLMF</pre>		107% HP4 05/18/92 100	110% HP4 05/18/92 50	109% HP4 05/17/92 1	100% HP4 05/17/92 1	107% HP4 05/17/92 1

ND - Not detected at or above the practical quantitation limit for the method.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst Date

Cheul Belme 5/30/72 Supervisor Date

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9205089 Project Number: G67-19.01 Matrix : WATER Date Released: 05/20/92

Date Sampled : N/A

- ND Not detected at or above the practical quantitation limit for the method.
- TPHg Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
- BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
- RLMF Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Steve Ama 5/20/92 Analyst Date

Cheur Balman 5/30/5 Supervisor Date

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