Chevron

Chevron U.S.A. Products Company
2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Department

July 17, 1992

Mr. Scott Seery
Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Re: Chevron Service Station #9-6991
2920 Castro Valley Blvd., Castro Valley

Dear Mr. Seery:

Enclosed we are forwarding the Quarterly Ground Water Monitoring and Sampling Report dated July 8, 1992, prepared by our consultant Groundwater Technology, Inc. (GTI) for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), total petroleum hydrocarbons as diesel (TPH-D) and BTEX. Benzene was detected in monitor wells MW-1 and MW-2 only at concentrations of 26 and 13 ppb, respectively. TPH-D was detected in monitor wells MW-2 and MW-3 only at concentrations of 130 and 170 ppb, respectively. However, the laboratory has indicated that the chromatogram pattern is not typical of diesel. Depth to ground water was measured at approximately 11-feet below grade, and the direction of flow is to the southwest.

We are still pending your approval to the Work Plan - Additional Site Assessment submitted to your office on January 31, 1992. Upon receipt of your formal concurrence we will implement the work proposed. We tentatively have scheduled this work to be performed in September, 1992.

Chevron will continue to sample this site and report findings on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

Very truly yours,
CHEVRON U.S.A. PRODUCTS COMPANY

Nancy Vukelich
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB-Bay Area
Mr. S.A. Willer
File (9-6991Q2)

JUL 17 '92 PWM

GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387
FAX: (415) 685-9148

July 8, 1992

Project No. 026302091

Ms. Nancy Vukelich
Chevron U.S.A. Inc.
2410 Camino Ramon
San Ramon, CA 94583-0804

SUBJECT: GROUNDWATER MONITORING AND SAMPLING ACTIVITIES
CHEVRON SERVICE STATION NO. 9-6991
2920 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Dear Ms. Vukelich:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on June 5, 1992. The three groundwater monitoring wells at this site were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. A potentiometric surface maps (Figures 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments A and B, respectively. After measuring the DTW, each monitoring well was purged and sampled. The groundwater samples were analyzed for the presence of benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH)-as-gasoline and TPH-as-diesel fuel. Results of the analyses are summarized in Table 1. Laboratory reports and chain-of-custody documents are presented in Attachment C. Monitoring well purge water was transported by Groundwater Technology, Inc. to the Chevron terminal in Richmond, California for recycling.

Groundwater Technology, Inc. is pleased to assist Chevron on this project. If you have any questions or comments, please feel free to call our Concord office at (510) 671-2387.

Sincerely,
GROUNDWATER TECHNOLOGY, INC.

Sandra L. Lindsey
Project Manager

David R. Kleesattel
Registered Geologist
No. 5136

For:
John Gaines
Regional Manager

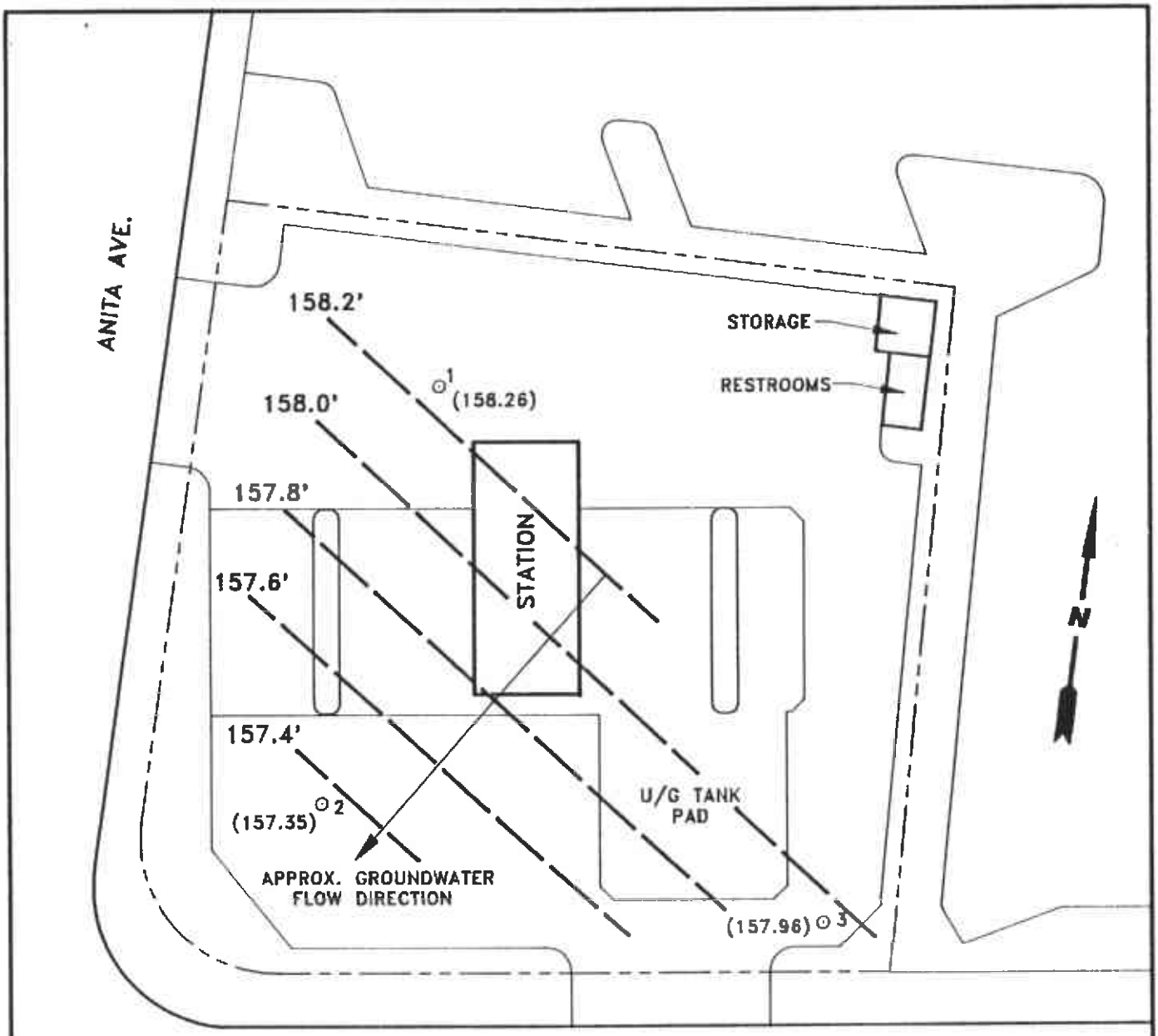
REGISTERED GEOLOGIST
DAVID R. KLEESATTEL
NO. 5136
STATE OF CALIFORNIA

Attachments: Attachment A - Figure 1
Attachment B - Table 1
Attachment C - Laboratory Report

LR2091A1.NM
(061022)

ATTACHMENT A

FIGURE



LEGEND

⊙ MONITORING WELL

( ) POTENTIOMETRIC SURFACE ELEVATION

—— POTENTIOMETRIC SURFACE CONTOUR

0 FEET 30

SCALE

GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387				POTENTIOMETRIC SURFACE MAP		
CLIENT: CHEVRON U.S.A.Inc. SERVICE STATION No. 9-6991				LOCATION: 2920 CASTRO VALLEY BLVD. CASTRO VALLEY, CALIFORNIA	REV. NO.: 0	DATE: 7/8/92
PM CAN	PE/RG DRC	DESIGNED GM	DETAILED ML	ACAD FILE: PSM6592/SP1291	PROJECT NO.: 020301423	FIGURE: 1

ATTACHMENT B

TABLES

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
CHEVRON SERVICE STATION NO. 9-6991
2920 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEV.	DATE	TOG	TPH-AS-DIESEL	TPH-AS-GASOLINE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	DTW (ft)	SPT (ft)	WTE (ft)
MW-1	10/08/91	<5000	---	230	45	<0.5	0.9	9.1	11.10	0.00	158.20
	11/04/91	---	---	340	120	<0.5	<0.5	6.1	11.03	0.00	158.27
169.30	12/04/91	<5000	170	<50	3.9	<0.5	<0.5	<0.5	11.05	0.00	158.25
	06/05/92	---	<50	100	26	0.6	0.5	1.0	11.04	0.00	158.26
MW-2	10/08/91	---	---	110	5.1	1.1	0.8	26	11.95	0.00	157.20
	11/19/91	---	---	120	11	1.1	<0.5	17	11.75	0.00	157.40
169.15	12/04/91	---	130	440	30	2.5	<0.5	52	11.80	0.00	157.35
	06/05/92	---	130*	80	13	<0.5	<0.5	1.0	11.80	0.00	157.35
MW-3	10/08/91	---	---	81	1.9	0.7	0.8	2.4	8.27	0.00	160.84
	11/04/91	---	---	60	<0.5	<0.5	<0.5	<0.5	10.85	0.00	158.26
169.11	12/04/91	---	<50	<50	<0.5	<0.5	<0.5	<0.5	11.05	0.00	158.06
	06/05/92	---	170*	<50	<0.5	<0.5	<0.5	<0.5	11.15	0.00	157.96
TRIP BLANK	10/08/91	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/04/91	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/04/91	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/05/92	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

DTW = Depth to water
SPT = Separate-phase hydrocarbons thickness
WTE = Water table elevation in feet above mean sea level
TOG = Total oil and grease
TPH = Total petroleum hydrocarbons
--- = Not applicable/not sampled/not measured
* = The pattern of peaks observed in the peak are not typical of diesel
Results in parts per billion

GROUNDWATER TECHNOLOGY

INC.

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

GROUNDWATER TECHNOLOGIES INC.
Attn: Sandra Lindsey

Project 020302091
Reported 06/17/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
85894- 1	TB-LB	06/05/92	06/06/92	Water
85894- 2	RBMW-3	06/05/92	06/06/92	Water
85894- 3	MW-3	06/05/92	06/07/92	Water
85894- 5	MW-1	06/05/92	06/07/92	Water
85894- 7	MW-2	06/05/92	06/07/92	Water

RESULTS OF ANALYSIS

Laboratory Number:	85894- 1	85894- 2	85894- 3	85894- 5	85894- 7
Gasoline:	ND<50	ND<50	ND<50	100	80
Benzene:	ND<0.5	ND<0.5	ND<0.5	26	13
Toluene:	ND<0.5	ND<0.5	ND<0.5	0.6	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	0.5	ND<0.5
Xylenes:	ND<0.5	ND<0.5	ND<0.5	1.0	1.0
Diesel:	NA	NA	170 *	ND<50	130 *
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

* - Diesel concentration reported. THe pattern of peaks observed in the peak are not typical of diesel.

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 85894

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	86/98	13	70-130
Benzene:	200 ng	110/115	4	70-130
Toluene:	200 ng	94/101	7	70-130
Ethyl Benzene:	200 ng	93/101	8	70-130
Xylenes:	200 ng	92/100	8	70-130
Diesel:	200 mg	82/81	1	75-125

Richard Srna, Ph.D.
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 5594

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-6991
Facility Address 2920 Castro Valley Blvd., Castro Valley, CA
Consultant Project Number 020301038
Consultant Name Groundwater Technology
Address 4057 Port Chicago Hwy, Concord, CA
Project Contact (Name) Sandra Lindsey
(Phone) (510)671-2337 (Fax Number) 685-9148

Chevron Contact (Name) Nancy Vukelich
(Phone) 842-9581
Laboratory Name Superior
Laboratory Release Number
Samples Collected by (Name) Hector Marino
Collection Date 6-5-92
Signature

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)		HOLD				Remarks
TBLB	1	1V	W	G		HCl	YES	X													TBLB - use Trip Blank as LAB Blank - no charge per contract
RBMW-3	2	1V						X													
MW-3	3	3V						X													
RBMW-1	(4)	1V															X				
MW-1	5	3V						X													
RBMW-2	(6)	1V															X				
MW-2	(7)	3V	W	G		HCl		X													
MW-3	8	1R							X												
MW-1	9	1R							X												
MW-2	10	1R	W	G			YES		X												

Please Initials EJ
Samples stored in ice. ✓
Appropriate containers ✓
Samples preserved ✓
VOA's without headspace ✓
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	GTI	6/5/92			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					6-5-92

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

JUL 17 '92 PWM

GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387
FAX: (415) 685-9148

July 8, 1992

Project No. 020302091

Ms. Nancy Vukelich
Chevron U.S.A. Inc.
2410 Camino Ramon
San Ramon, CA 94583-0804

SUBJECT: GROUNDWATER MONITORING AND SAMPLING ACTIVITIES
CHEVRON SERVICE STATION NO. 9-6991
2920 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Dear Ms. Vukelich:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on June 5, 1992. The three groundwater monitoring wells at this site were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. A potentiometric surface maps (Figures 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments A and B, respectively. After measuring the DTW, each monitoring well was purged and sampled. The groundwater samples were analyzed for the presence of benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH)-as-gasoline and TPH-as-diesel fuel. Results of the analyses are summarized in Table 1. Laboratory reports and chain-of-custody documents are presented in Attachment C. Monitoring well purge water was transported by Groundwater Technology, Inc. to the Chevron terminal in Richmond, California for recycling.

Groundwater Technology, Inc. is pleased to assist Chevron on this project. If you have any questions or comments, please feel free to call our Concord office at (510) 671-2387.

Sincerely,
GROUNDWATER TECHNOLOGY, INC.

Sandra L. Lindsey
Project Manager

David R. Kleesattel
Registered Geologist
No. 5136

For:
John Gaines
Regional Manager

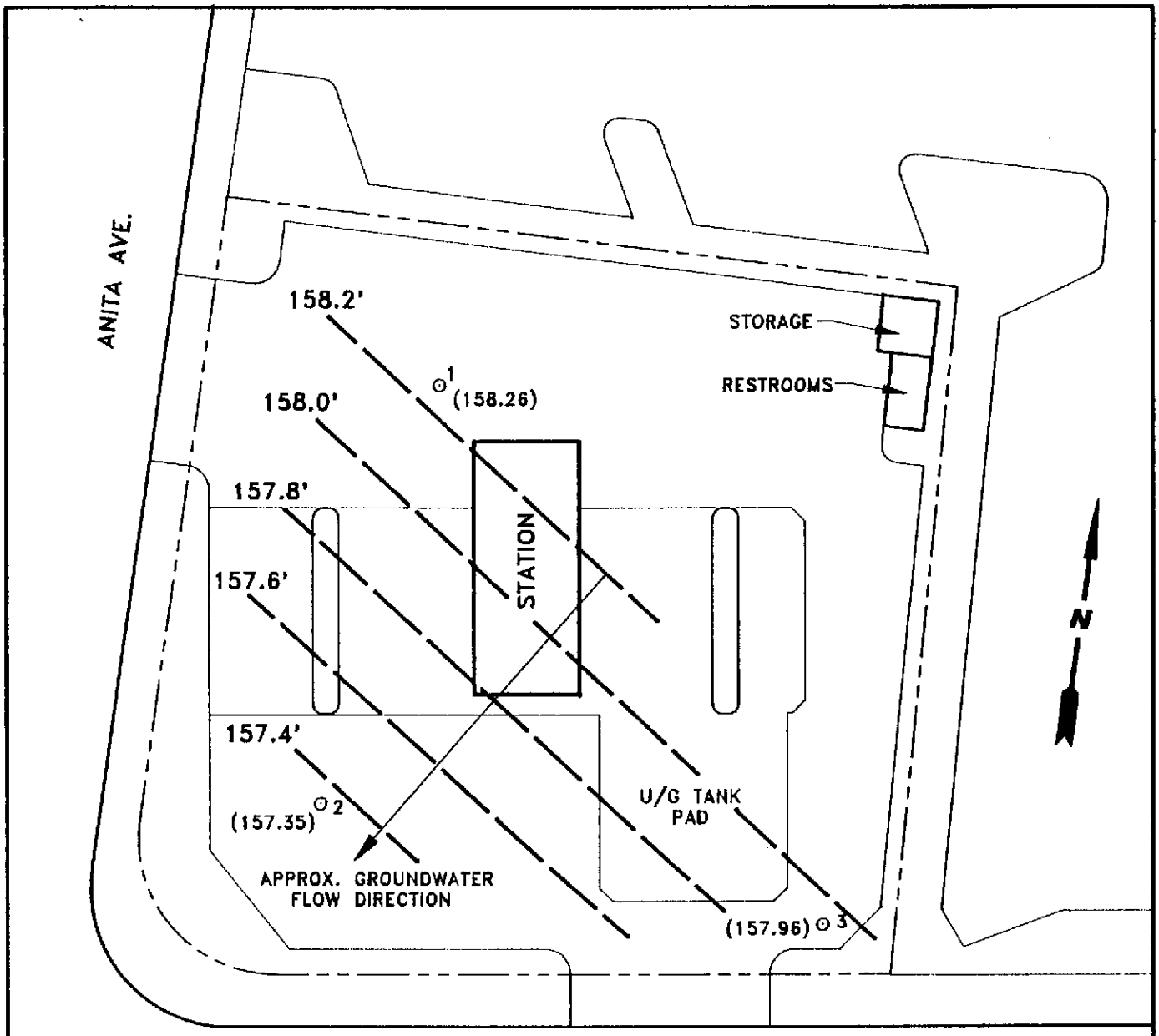
REGISTERED GEOLOGIST
DAVID R. KLEESATTEL
NO. 5136
STATE OF CALIFORNIA

Attachments: Attachment A - Figure 1
Attachment B - Table 1
Attachment C - Laboratory Report

LR2091A1.NM
(061022)

ATTACHMENT A

FIGURE



LEGEND

⊙ MONITORING WELL

( ) POTENTIOMETRIC SURFACE ELEVATION

—— —— POTENTIOMETRIC SURFACE CONTOUR

0 FEET 30

SCALE

GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387

POTENTIOMETRIC SURFACE MAP (6/5/92)

CLIENT:	LOCATION:	REV. NO.:	DATE:
CHEVRON U.S.A.Inc. SERVICE STATION No. 9-6991	2920 CASTRO VALLEY BLVD. CASTRO VALLEY, CALIFORNIA	0	[redacted]

PM	PE/RG	DESIGNED	DETAILED	ACAD FILE:	PROJECT NO.:	FIGURE:
CAM	ORE	GM	ML	PSM6592/SP1291	020301423	1

ATTACHMENT B

TABLES

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
CHEVRON SERVICE STATION NO. 9-6991
2920 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEV.	DATE	TOG	TPH-AS-DIESEL	TPH-AS-GASOLINE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	DTW (ft)	SPT (ft)	WTE (ft)
MW-1	10/08/91	<5000	---	230	45	<0.5	0.9	9.1	11.10	0.00	158.20
	11/04/91	---	---	340	120	<0.5	<0.5	6.1	11.03	0.00	158.27
169.30	12/04/91	<5000	170	<50	3.9	<0.5	<0.5	<0.5	11.05	0.00	158.25
	06/05/92	---	<50	100	26	0.6	0.5	1.0	11.04	0.00	158.26
MW-2	10/08/91	---	---	110	5.1	1.1	0.8	26	11.95	0.00	157.20
	11/19/91	---	---	120	11	1.1	<0.5	17	11.75	0.00	157.40
169.15	12/04/91	---	130	440	30	2.5	<0.5	52	11.80	0.00	157.35
	06/05/92	---	130*	80	13	<0.5	<0.5	1.0	11.80	0.00	157.35
MW-3	10/08/91	---	---	81	1.9	0.7	0.8	2.4	8.27	0.00	160.84
	11/04/91	---	---	60	<0.5	<0.5	<0.5	<0.5	10.85	0.00	158.26
169.11	12/04/91	---	<50	<50	<0.5	<0.5	<0.5	<0.5	11.05	0.00	158.06
	06/05/92	---	170*	<50	<0.5	<0.5	<0.5	<0.5	11.15	0.00	157.96
TRIP BLANK	10/08/91	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/04/91	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/04/91	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/05/92	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

$\overline{\text{DTW}}$ = Depth to water
SPT = Separate-phase hydrocarbons thickness
WTE = Water table elevation in feet above mean sea level
TOG = Total oil and grease
TPH = Total petroleum hydrocarbons
--- = Not applicable/not sampled/not measured
* = The pattern of peaks observed in the peak are not typical of diesel
Results in parts per billion

GROUNDWATER TECHNOLOGY

INC.

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

GROUNDWATER TECHNOLOGIES INC.
Attn: Sandra Lindsey

Project 020302091
Reported 06/17/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
85894- 1	TB-LB	06/05/92	06/06/92	Water
85894- 2	RBMW-3	06/05/92	06/06/92	Water
85894- 3	MW-3	06/05/92	06/07/92	Water
85894- 5	MW-1	06/05/92	06/07/92	Water
85894- 7	MW-2	06/05/92	06/07/92	Water

RESULTS OF ANALYSIS

Laboratory Number:	85894- 1	85894- 2	85894- 3	85894- 5	85894- 7
Gasoline:	ND<50	ND<50	ND<50	100	80
Benzene:	ND<0.5	ND<0.5	ND<0.5	26	13
Toluene:	ND<0.5	ND<0.5	ND<0.5	0.6	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	0.5	ND<0.5
Xylenes:	ND<0.5	ND<0.5	ND<0.5	1.0	1.0
Diesel:	NA	NA	170 *	ND<50	130 *
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

* - Diesel concentration reported. THe pattern of peaks observed in the peak are not typical of diesel.

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 85894

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	86/98	13	70-130
Benzene:	200 ng	110/115	4	70-130
Toluene:	200 ng	94/101	7	70-130
Ethyl Benzene:	200 ng	93/101	8	70-130
Xylenes:	200 ng	92/100	8	70-130
Diesel:	200 mg	82/81	1	75-125

Richard Srna, Ph.D.
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 5591

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-6991
Facility Address 2920 Castro Valley Blvd, Castro Valley, CA
Consultant Project Number 020301038
Consultant Name Groundwater Technology
Address 4057 Port Chicago Hwy, Concord, CA
Project Contact (Name) Sandra Lindsey
(Phone) (510)671-2337 (Fax Number) 685-9148

Chevron Contact (Name) Nancy Vukelich
(Phone) 842-9581
Laboratory Name Superior
Laboratory Release Number
Samples Collected by (Name) Hector Marino
Collection Date 6-5-92
Signature

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
TBLB	1	1v	W	G		HCl	Yes	X								X				TBLB - use Trip Blank as LAB Blank - no charge per contract
RBMW-3	2	1v						X												
MW-3	3	3v						X												
RBMW-1	(4)	1v														X				
MW-1	5	3v						X												
RBMW-2	(6)	1v														X				
MW-2	(7)	3v	W	G		HCl		X												
MW-3	8	1R							X											
MW-1	9	1R							X											
MW-2	10	1R	W	G			Yes		X											

Please Initials: EP
Samples stored in ice. ✓
Appropriate containers ✓
Samples preserved ✓
VOA's without headspace ✓
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	GTI	6/5/92			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					6-5-92

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Pg. 1 of 1

COC-3.DWG/03 91/HCH