

0.2



94 MAY 13 PM 2:22

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department
Phone 510 842 9500

May 12, 1994

Ms. Eva Chu
Alameda County Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Chevron Station # 9-2582, 7240 Dublin Blvd., Dublin, CA
Attached groundwater monitoring reports (Blaine Tech; 1/17/94, 4/12/94)

Dear Ms. Chu:

Attached are reports dated January 17, 1994 and April 12, 1994, which were prepared by Chevron's consultant, Blaine Tech Services (Blaine Tech), to describe groundwater monitoring performed at the subject site on December 20, 1993 and March 29, 1994, respectively.

During the December site monitoring event the measured direction of groundwater flow was toward the northwest. All three site-related monitoring wells were sampled and analyzed for the presence of TPHGas and BTEX constituents. Dissolved hydrocarbons were detected at monitoring wells EA-1 and EA-3. No detectable concentrations were measured at well EA-2.

The measured **direction of groundwater flow** during the March site monitoring event was **again, northwesterly**. Dissolved petroleum hydrocarbons were detected in all three wells. The measured concentrations were consistent with those detected during previous monitoring events.

If you have any questions or comments, I can be reached at (510) 842-8695.

Then down gradient well required
see DCA analysis over in SW

Sincerely,

Brett L. Hunter
Environmental Engineer
Site Assessment and Remediation

Attachments

cc: Lester Feldman, San Francisco Bay RWQCB, Oakland, CA
Janet Clinton (for Parkway Three), 2425 Webb Avenue, Suite 200, Alameda, CA 94501
Bette Owen, Chevron USA, Products Company, San Ramon, CA (w/o attachments)





BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

January 17, 1994

Clint Rogers
Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583-0804

4th Quarter 1993 monitoring at 9-2582

Fourth Quarter 1993 Groundwater Monitoring at
Chevron Service Station number 9-2582
7240 Dublin Boulevard
Dublin, California

Monitoring performed December 20, 1993

Groundwater Sampling Report 931220-J-1

This report covers the routine quarterly monitoring of groundwater wells at this former Chevron facility. Blaine Tech Services, Inc. work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

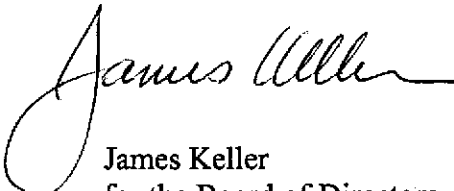
Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to Chevron's Richmond Refinery for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Yours truly,



James Keller
for the Board of Directors

JPK/dk

attachments: Cumulative Table of Field Data and Analytical Results
Analytical Appendix
Professional Engineering Appendix

Cumulative Table of Well Data and Analytical Results

Verical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
EA-1										
10/17/88	333.41	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/24/88	333.41	322.77	10.64	gauging	--	--	--	--	--	--
11/02/88	333.41	322.72	10.69	gauging	--	--	--	--	--	--
12/20/88	333.41	322.90	10.51	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/28/89	333.41	323.54	9.87	--	<250	<0.5	<0.5	<0.5	<0.5	--
08/02/89	333.41	323.07	10.34	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1
11/06/89	333.41	322.76	10.65	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0
01/25/90	333.41	322.81	10.60	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/90	333.41	322.83	10.58	--	71	2.0	5.0	3.0	8.0	<0.5
08/01/90	333.41	322.53	10.88	--	300	86	21	10	33	--
10/24/91	333.41	322.29	11.12	--	280	69	13	11	16	--
01/31/91	333.41	322.25	11.16	--	460	160	11	17	17	--
08/21/91	333.41	322.61	10.80	--	2400	400	220	44	120	--
08/21/91	333.41	--	--	duplicate	2300	390	210	42	120	--
10/07/91	333.41	322.62	10.79	not sampled	--	--	--	--	--	--
01/28/92	333.41	322.62	10.79	--	3600	320	360	110	310	--
01/28/92	333.41	--	--	duplicate	3000	290	320	99	270	--
06/05/92	333.41	322.57	10.84	--	1700	290	89	61	130	--
09/30/92	333.41	322.35	11.06	--	2100	160	260	80	350	--
12/30/92	333.41	323.26	10.15	sheen, odor	3200	240	180	110	310	--
03/29/93	333.41	323.99	9.42	odor	23000	700	3000	610	--	--
06/25/93	333.41	322.99	10.42	--	2700	130	590	130	590	--
09/16/93	333.41	322.75	10.66	--	3900	410	830	220	890	--
12/20/93	333.41	322.81	10.60	odor	27,000	4200	2600	1100	4200	--

Cumulative Table of Well Data and Analytical Results

Vertical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
EA-2										
10/17/88	332.59	--	--	--	<50	<0.5	<0.5	<0.5	1.2	--
10/24/88	332.59	322.89	9.70	gauging	--	--	--	--	--	--
11/02/88	332.59	322.56	10.03	gauging	--	--	--	--	--	--
12/20/88	332.59	322.61	9.98	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/28/89	332.59	323.79	8.80	--	<250	<2.	<0.5	<0.5	<0.5	<0.5
08/02/89	332.59	323.15	9.44	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1
11/06/89	332.59	323.06	9.53	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0
01/25/90	332.59	323.32	9.27	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/90	332.59	323.24	9.35	--	<50	0.6	0.8	<0.5	2.0	<0.5
08/01/90	332.59	322.88	9.71	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/24/90	332.59	322.51	10.08	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/91	332.59	322.38	10.21	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/91	332.59	--	--	duplicate	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	332.59	322.79	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/07/91	332.59	322.61	9.98	not sampled	--	--	--	--	--	--
01/28/92	332.59	322.78	9.81	--	<50	0.8	<0.5	<0.5	<0.5	--
06/05/92	332.59	322.73	9.86	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/30/92	332.59	321.99	10.60	--	66	1.0	3.2	1.3	7.4	--
12/30/92	332.59	323.48	9.11	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	332.59	324.86	7.73	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/25/93	332.59	323.37	9.22	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/16/93	332.59	322.59	10.00	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/20/93	332.59	323.21	9.38	--	<50	<0.5	<0.5	<0.5	<0.5	--

Cumulative Table of Well Data and Analytical Results

Vertical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
EA-3										
10/17/88	333.64	--	--	--	<50	1.8	<0.5	<0.5	3	--
10/24/88	333.64	322.61	11.03	gauging	--	--	--	--	--	--
11/02/88	333.64	322.61	11.03	gauging	--	--	--	--	--	--
12/20/88	333.64	322.68	10.96	--	240	90	1.2	13	3.3	--
03/28/89	333.64	322.87	9.77	--	2300	380	130	240	910	--
08/02/89	333.64	322.99	10.65	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1
11/06/89	333.64	322.86	10.78	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0
01/25/90	333.64	322.98	10.66	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/90	333.64	322.96	10.68	--	<50	0.8	<0.5	0.9	<0.5	<0.5
08/01/90	333.64	322.61	11.03	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/24/90	333.64	322.29	11.35	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/91	333.64	322.12	11.52	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	333.64	--	--	not sampled	--	--	--	--	--	--
10/07/91	333.64	322.49	11.15	--	180	40	20	4.7	8.4	--
10/07/91	333.64	--	--	duplicate	200	43	17	4.1	6.7	--
01/28/92	333.64	322.12	11.08	--	640	69	85	13	46	--
06/05/92	333.64	322.66	10.98	--	250	63	8.3	3.0	9.5	--
09/30/92	333.64	322.26	11.38	--	330	120	33	6.3	22	--
12/30/92	333.64	323.16	10.48	--	58	7.6	1.3	2.5	5.4	--
03/29/93	333.64	324.34	9.30	--	120	11	4.5	6.2	13	--
06/25/93	333.64	323.18	10.46	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/16/93	333.64	322.74	10.90	--	85	3.9	8.8	4.5	22	--
12/20/93	333.64	322.98	10.66	--	190	12	12	13	50	--

Cumulative Table of Well Data and Analytical Results

Verical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
PVC										
08/02/89	--	--	11.52	--	100000	8700	14000	1700	17000	50
08/02/89	--	--	--	duplicate	110000	9200	14000	1800	13000	50
11/06/89	--	--	--	--	--	--	--	--	--	--

EQUIPMENT BLANK

03/28/89	--	--	--	--	<250	<0.5	<0.5	<0.5	<0.5	--
----------	----	----	----	----	------	------	------	------	------	----

Cumulative Table of Well Data and Analytical Results

Vertical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
TRIP BLANK										
07/28/89	--	--	--	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1
11/06/89	--	--	--	--	<500	<3.0	<0.5	<0.5	<0.5	<0.5
01/25/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/01/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/24/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/07/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/28/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/05/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/25/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/16/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/20/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on September 30, 1992. Earlier field data and analytical results are drawn from the July 13, 1992 RENSA report.

ABBREVIATIONS:

TPH = Total Petroleum Hydroca

1,2-DCA = 1,2-Dichloroethane

Fax copy of Lab Report and COC to Chevron Contact: No 30149 Chain-of-Custody-Record

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number <u>9-2582</u> Facility Address <u>7240 Dublin Blvd., Dublin</u> Consultant Project Number <u>931220-J</u> Consultant Name <u>BLAINE TECH SERVICES</u> Address <u>985 TIMOTHY DR., SAN JOSE</u> Project Contact (Name) <u>JIM KELLER</u> (Phone) <u>408 995 5535</u> (Fax Number) <u>408 293 9773</u>	Chevron Contact (Name) <u>Clint Rogers</u> (Phone) <u>(510) 842-8658</u> Laboratory Name <u>SUPERIOR</u> Laboratory Release Number <u>2612800</u> Samples Collected by (Name) <u>JERRY ROTTERFF</u> Collection Date <u>12/20/93</u> Signature <u>[Signature]</u>
---	--	--

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											Remarks				
								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)								
EA-1		3	W		1400	HCL	X	X															
EA-2		3	W		1145	HCL	X	X															
EA-3		3	W		1250	HCL	X	X															
TR		2	W			HCL	X	X															

Please Initial: SS 408

Samples stored in 5 appropriate containers

Samples preserved

VQA's without headspace

Comments: [Signature]

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>BTS</u>	Date/Time <u>12/22/93 1203</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>AERO</u>	Date/Time <u>12/22/93 1203</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <input checked="" type="radio"/> As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>AERO</u>	Date/Time <u>12/22/93/1100</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>12/22/93 2 PM</u>	

COC-5.0mw/03 01 ARCH

Analytical Appendix



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Blaine Tech Services, Inc.
Attn: Jim Keller

Project 931220-J1
Reported 12/29/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30149- 1	EA-1	12/20/93	12/28/93 Water
30149- 2	EA-2	12/20/93	12/27/93 Water
30149- 3	EA-3	12/20/93	12/27/93 Water
30149- 4	TB-LB	12/20/93	12/27/93 Water

RESULTS OF ANALYSIS

Laboratory Number: 30149- 1 30149- 2 30149- 3 30149- 4

Gasoline:	27000	ND<50	190	ND<50
Benzene:	1200	ND<0.5	12	ND<0.5
Toluene:	2600	ND<0.5	12	ND<0.5
Ethyl Benzene:	1100	ND<0.5	13	ND<0.5
Total Xylenes:	4200	ND<0.5	50	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L



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

Page 2 of 2
QA/QC INFORMATION
SET: 30149

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

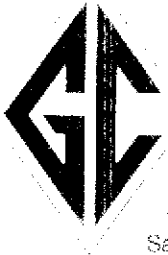
EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

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

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	91/91	0%	70-130
Benzene:	111/107	4%	70-130
Toluene:	93/93	0%	70-130
Ethyl Benzene:	98/98	0%	70-130
Total Xylenes:	106/107	1%	70-130


Senior Chemist

Professional Engineering Appendix



GEOCONSULTANTS, INC.

*Engineering Geology • Hydrogeology
Ground-Water Exploration & Development
Ground-Water Resource Management*

1450 Koll Circle, Suite 114
San Jose, California 95112
Telephone: (408) 453-2541
Fax: (408) 453-2543

January 11, 1994
Project No. G758-09

Mr. Richard Blaine
Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133

**RE: GROUND-WATER ELEVATION CONTOUR MAP
FORMER CHEVRON SERVICE STATION NO. 9-2582
7240 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA**

Dear Mr. Blaine:

In accordance with your request, we have prepared a map showing the most recent ground-water elevation contours at this site. The depth to the water table was measured in the monitoring wells by Blaine Tech Services, Inc. on December 20, 1993. The ground-water elevation contours extrapolation and the general direction of the ground-water gradient indicated are to be considered only approximate in nature.

If you have any questions regarding the map, please call.

Very truly yours,

GEOCONSULTANTS, INC.

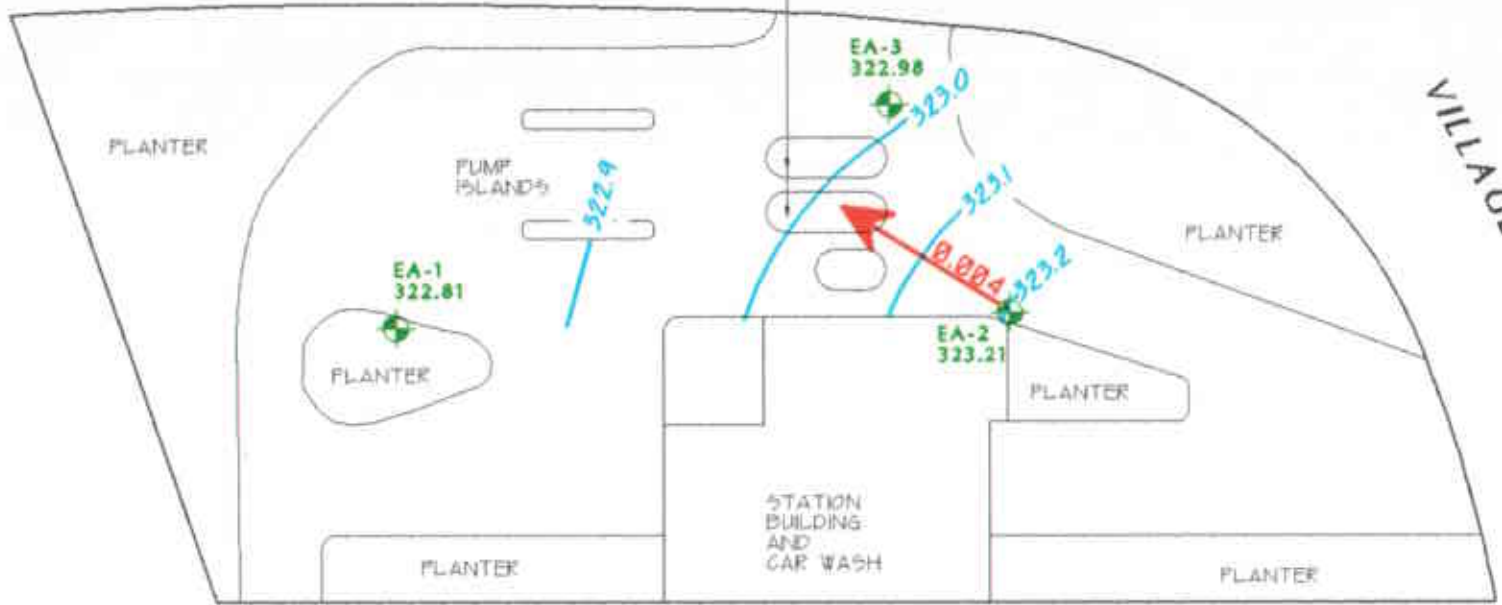

John K. Hofer
Engineering Geologist, EG-1065

JKH:dw
(CH92582.D93)

DUBLIN ROAD

UNDERGROUND STORAGE TANKS

VILLAGE PARKWAY



PROPERTY LINE

EXPLANATION

EA-1  GROUND-WATER MONITORING WELL

322.81 GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

 323.0 GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL

 0.004 APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



NOTES:

TITLE : GROUND-WATER ELEVATION CONTOUR MAP -
DECEMBER 20, 1993

LOCATION : FORMER CHEVRON SERVICE STATION #9-2582
7240 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

SOURCE : RESNA



GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. 0758-09

DRWG NO: W122093 REV: