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By Alameda County Environmental Health at 2:38 pm, Sep 09, 2013

**Catalina Espino
Devine**
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-3949
Espino@Chevron.com

September 6, 2013

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Facility # 95542

Address: 7007 San Ramon Road, Dublin, CA

I have reviewed the attached report titled Addendum to Site Conceptual Model and Low-Threat Closure Request and dated July 13, 2013.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

A handwritten signature in black ink that reads "Catalina Devine".

Catalina Espino Devine
Project Manager

Enclosure: Report



**CONESTOGA-ROVERS
& ASSOCIATES**

10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
<http://www.craworld.com>

September 6, 2013

Reference No. 611969D

Ms. Dilan Roe, P.E.
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Addendum to Site Conceptual Model and Low-Threat Closure Request
Chevron Service Station 95542
7007 San Ramon Road
Dublin, California
Case No. RO0000206

Dear Ms. Roe:

Conestoga-Rovers & Associates (CRA) is submitting this *Addendum to Site Conceptual Model and Low-Threat Closure Request* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). On February 26, 2013, CRA submitted an *Addendum to Case Closure Request* in which case closure was requested in accordance with the general and media-specific criteria outlined in the State Water Resources Control Board (SWRCB) *Low-Threat Underground Storage Tank Case Closure Policy (LTCP)*. In a letter dated May 7, 2013 (Attachment A), ACEH denied case closure on the basis that site conditions failed to meet LTCP General Criteria (e) (a conceptual site model that assesses the nature, extent, and mobility of the release has been developed) and the media-specific criteria for groundwater. Specifically, the site data as presented in the February 26, 2013 report and the August 17, 2009 *Site Conceptual Model and Additional Investigation Work Plan (SCM)* failed to adequately support the characteristics of groundwater-specific criteria Class (4), which the site was identified as satisfying.

As a result, ACEH, Chevron and CRA discussed ACEH's technical comments and the additional information necessary to support low-threat case closure during conference calls on May 15 and August 12, 2013. As agreed, CRA prepared this addendum to address those comments (Technical Comments 1 and 2), and provide the *List of Landowners Form*.

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SITE GROUNDWATER MONITORING WELL NETWORK

The characteristics of LTCP groundwater-specific criteria Class (4) are as follows:

- The contaminant plume that exceeds water quality objectives (WQOs) is less than 1,000 feet in length.
- There is no free product.
- The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary.
- Dissolved concentrations of benzene and methyl tertiary butyl ether (MTBE) are less than 1,000 micrograms per liter ($\mu\text{g/L}$).

In Technical Comments 1 and 2 of the May 7, 2013 letter, ACEH expressed concern that the most recently used monitoring well network consisting of wells MW-1, MW-4, and MW-11 was inadequate for determining the extent, stability, gradient, and length of the plume, in addition to the validity of dissolved concentrations. Groundwater sampling has not been performed at the site since third quarter 2010 as it was subsequently suspended with ACEH approval. Since 2006, only wells MW-1, MW-4, and MW-11 have been sampled; wells MW-6 through MW-10 (Figure 2) were destroyed at that time with ACEH approval due to proposed redevelopment of the adjacent property and the perimeter wells were no longer needed. It should be noted that gauging and sampling of wells MW-2 and MW-3 was discontinued in 1999, but gauging of these wells was resumed in 2009.

ACEH stated that groundwater elevation and analytical data needed to be validated from MW-1 since it appeared inadequately screened and consistently submerged based on historical depth to water measurements. Well MW-1 is located in the former source area (former gasoline underground storage tanks [USTs]) and was originally installed in 1990 with a screened interval of 20 to 35 feet below grade (fbg) (Table 1). In November 1992, the well was deepened for extraction purposes and screened from 30 to 50 fbg. Since that time, the measured depth to water has ranged from 21.99 to 27.44 feet below top of casing (TOC), similar to site monitoring wells that were screened across the water table. Dissolved hydrocarbon concentrations in well MW-1 are stable and within historical ranges following completion of oxygen injection activities in 2008, and final dissolved benzene and MTBE concentrations detected in the well were below the screening limits of Class (4) LTCP groundwater-specific criteria. Historical groundwater monitoring data is included as Attachment B. We agree with ACEH that well MW-1 is screened below the water table due to historical groundwater extraction use.



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ACEH noted that well MW-4 appears to be screened across the historic smear zone. Therefore, dissolved hydrocarbon concentrations and groundwater elevation data collected from this well are representative of water table conditions.

Well MW-11 is a deeper well (screened from 45 to 55 fbg) installed to monitor deeper groundwater downgradient. As MW-11 is screened deeper, the validity of this well for purposes of defining the status of the plume was questioned. As ACEH indicates in the letter, MW-11 was installed in 2006 to monitor dissolved hydrocarbon concentrations in a deeper water-bearing zone identified by deeper grab-groundwater samples from soil boring CPT-2. Analytical data collected from well MW-11 from 2006 to 2010 indicates no dissolved hydrocarbon concentrations of concern are present in groundwater in the deeper zone, downgradient of the site. Additionally, historical analytical data collected from well MW-10, located in the vicinity of MW-11, screened across the water table, and destroyed in 2006, previously defined the extent of the dissolved hydrocarbon plume in shallow groundwater, downgradient of the site. It is CRA's position that data collected from well MW-11, taken together with historical data from well MW-10, effectively define the downgradient extent of dissolved hydrocarbons in groundwater emanating from the site. Historical groundwater monitoring data are included as Attachment B.

Dissolved Hydrocarbon Distribution in Groundwater

To further assess dissolved hydrocarbon concentrations in groundwater, CRA plotted dissolved TPHg, benzene, and MTBE concentrations over time in wells both screened across the water table and in line with groundwater flow direction from the source area near well MW-1 to the east. Wells MW-4, MW-6, MW-8, MW-9, and MW-10 were all screened across the water table and are located downgradient of the source area. Hydrocarbon versus time graphs plotted for these wells show a consistent, decreasing trend for all constituents graphed, indicating the dissolved hydrocarbon plume is decreasing in size. Well construction specifications are presented on Table 1, well locations are shown on Figure 2, and dissolved hydrocarbon concentrations over time are presented in Attachment D.

As mentioned previously, the downgradient extent of hydrocarbons in shallow groundwater is adequately defined by former well MW-10 and also by former well MW-8, in which petroleum hydrocarbons generally were not detected with the exception of one anomalous event each. Although in Technical Comment 1 ACEH suggested that the one-time elevated detections of TPHg and benzene in MW-10 in 1999 indicated the plume had migrated offsite, this was the only event over 9 years of monitoring that TPHg and benzene were detected in this well. In the 5 years of monitoring following the 1999 hydrocarbon detections, no TPHg or BTEX were detected in MW-10 indicating that these one-time detections were anomalous and the plume



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did not migrate to that well (Attachment B). A similar phenomenon was observed in MW-8 in 1994 with a subsequent event three weeks later showing no detected concentrations. Petroleum hydrocarbons also were not detected (except for 3.1 ug/L toluene) in the groundwater sample collected in 1995 from boring SB-3 drilled near MW-10 (Table 2). Therefore, the extent of shallow hydrocarbons is adequately defined downgradient of the site by data from wells MW-8 and MW-10, and deeper hydrocarbons are defined by analytical data from well MW-11.

Technical item number 2 of ACEH's letter briefly mentions the screened intervals of the most current monitoring well network potentially affecting the measured plume gradient. Wells MW-1, MW-4, and MW-11, although screened at various depths, are either fully or at least partially screened within the finer grained soil that predominantly underlies the site, and therefore likely monitor the same water-bearing zone. However, even if we assume wells MW-1 and MW-11 do not monitor the same groundwater zone, there is ample data prior to, and following, the deepening of well MW-1, and prior to the installation of well MW-11, to show an overall easterly groundwater flow direction. Copies of historical potentiometric maps prior to the installation of MW-11 in 2006 are included as Attachment C; also see the rose diagram on Figure 2. An easterly flow direction was also observed at the nearby Shell facility at 11989 Dublin Boulevard. Therefore, regardless of the inclusions of data from wells MW-1 and MW-11, the overall groundwater flow direction is well-established to determine plume definition.

Accordingly, regarding the calculation of the length of the plume that exceeds WQOs, well MW-10, which conservatively defines the furthest downgradient extent of the plume, is approximately 300 feet from MW-1, and well MW-8 is approximately 500 feet from MW-1. Thus the overall plume length is well within the 1,000-foot length limit required to satisfy groundwater-specific criteria Class 4.



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Hydrocarbon Distribution in Soil

During a telephone conversation on August 12, 2013, ACEH requested CRA clarify that laboratory reporting or detection limits of semi-volatile organic compounds (SVOCs) (notably the seven priority polycyclic aromatic hydrocarbons (PAHs) that include benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene), and volatile organic compounds (VOCs) from historical soil sample analysis were within reasonable ranges. Historical laboratory reports indicate SVOCs were analyzed by EPA Method 8270 and that the detection limit for the seven priority PAH compounds was 0.66 milligrams per kilogram (mg/kg). None of the priority PAH compounds were detected in soil. The current screening level for PAHs in soil under the LTCP is 0.68 mg/kg for commercial/industrial scenarios. VOCs were analyzed by EPA Method 8240 and laboratory detection limits ranged from 5 mg/kg for acetone to 0.25 mg/kg for most constituents. Historical soil sample results are listed on Table 3 and historical laboratory reports for SVOCs and VOCs are included as Attachment E.

CONCLUSIONS AND RECOMMENDATIONS

This addendum was prepared to address concerns outlined by ACEH during conference calls pertaining to LTCP on May 15 and August 12, 2013. Additional information provided in this addendum indicates the following:

- The most recent groundwater monitoring well network, when considered with historical groundwater data, was effective in monitoring dissolved hydrocarbon concentrations emanating from the site and defining the extent of the dissolved hydrocarbon groundwater plume.
- The groundwater plume is adequately defined, the groundwater gradient is well established, the plume is shrinking in size, and dissolved concentrations are below LTCP screening levels. Therefore, site conditions meet the characteristics of LTCP groundwater-specific criteria Class 4.
- No priority PAHs or other constituents of concern were detected in site soils and historical laboratory detection limits were clarified.

Additional information was presented to further clarify the SCM for the site and as such, LTCP General Criteria (e) is satisfied. Based on the information presented above, site conditions meet groundwater-specific criteria Class 4 and low-threat closure is warranted. A County of



**CONESTOGA-ROVERS
& ASSOCIATES**

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Alameda "List of Landowners" was provided under separate cover, as requested. Therefore, on behalf of Chevron, CRA respectfully requests ACEH grant case closure.

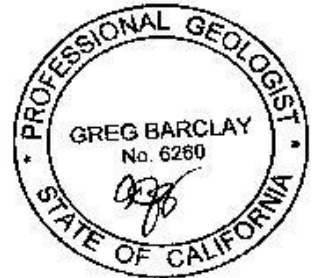
We appreciate your assistance on this project and look forward to your reply. Please contact Morgan Hargrave at (530) 553-4136 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Morgan Hargrave

Greg Barclay, PG 6260



JK/de/12

Encl.

Figure 1	Vicinity Map
Figure 2	Site Plan
Table 1	Well Construction Details
Table 2	Historical Grab-Groundwater Sample Analytical Results
Table 3	Historical Soil Sample Analytical Results
Attachment A	ACEH Letter dated May 7, 2013
Attachment B	Groundwater Monitoring Data
Attachment C	Historical Potentiometric Maps
Attachment D	Hydrocarbon Concentration versus Time Graphs
Attachment E	Laboratory Reports

cc: Ms. Catalina Espino Devine, Chevron (*electronic copy*)
Mr. Tim Johnson, property owner

FIGURES

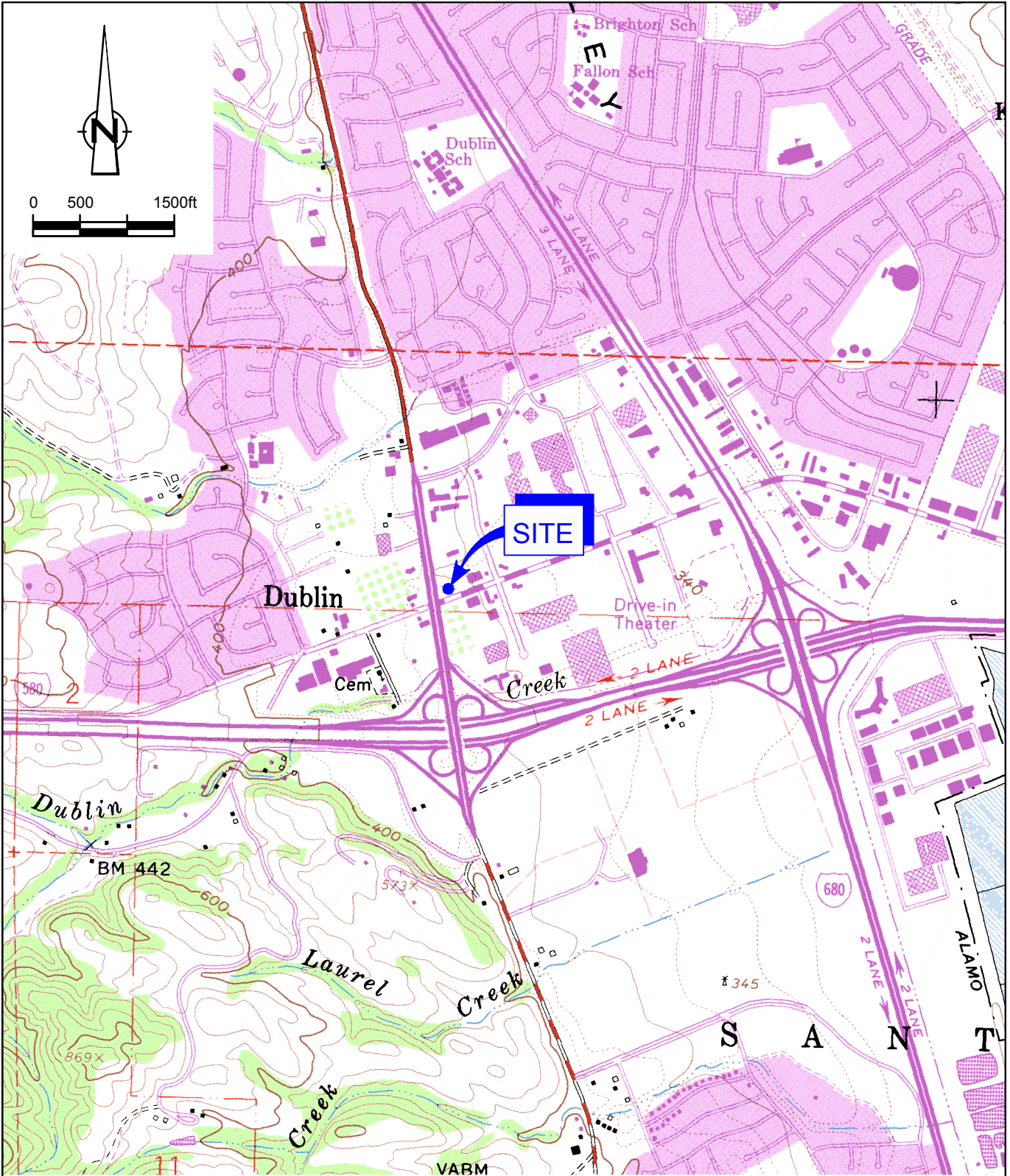
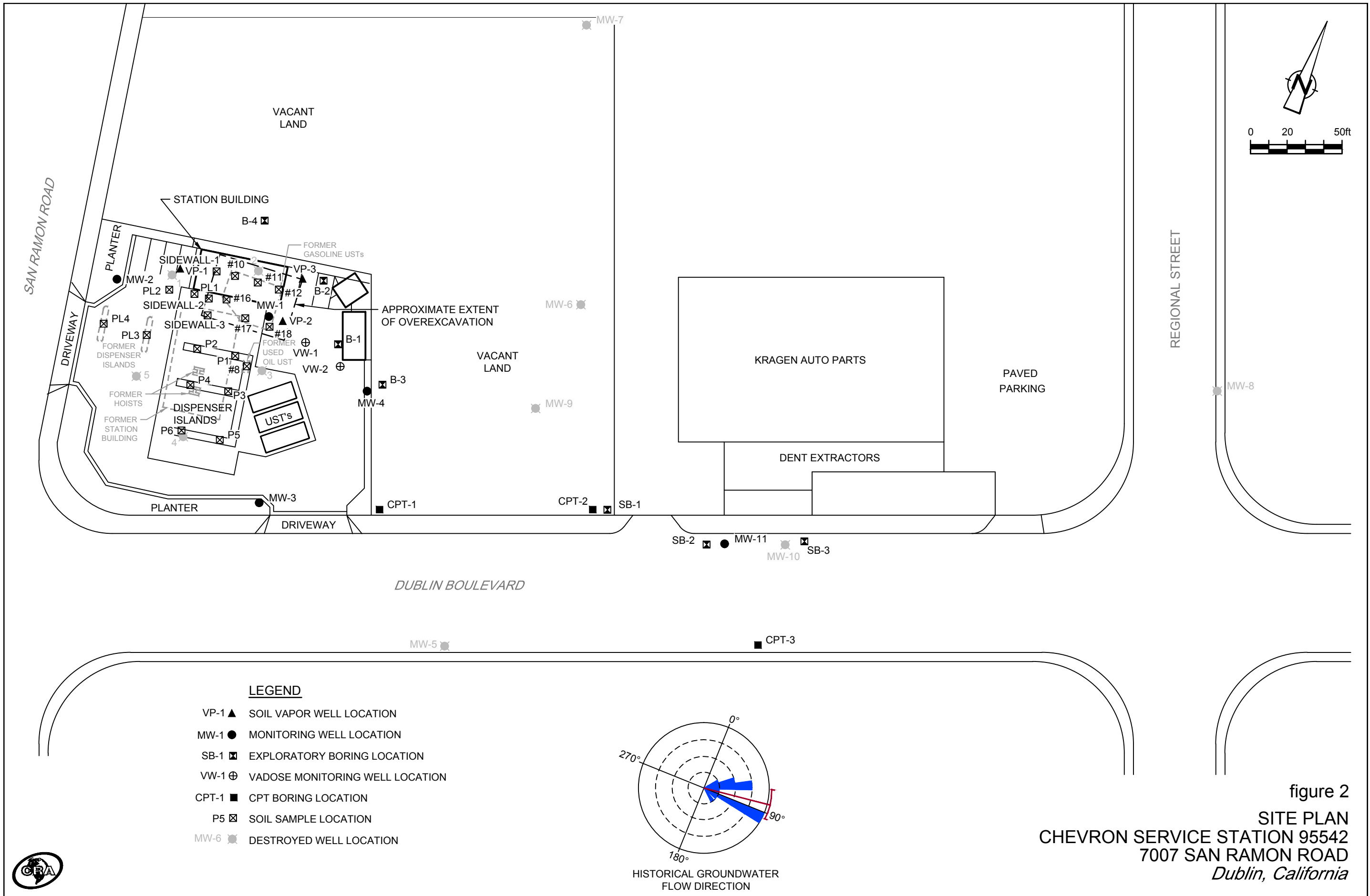


figure 1
 VICINITY MAP
 CHEVRON SERVICE STATION 95542
 7007 SAN RAMON ROAD
 Dublin, California



SOURCE: TOPO! MAPS



TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
CHEVRON SERVICE STATION 95542
7007 SAN RAMON ROAD, DUBLIN, CALIFORNIA

<i>Boring ID</i>	<i>Installation Date</i>	<i>Well</i>		<i>Screen</i>		<i>Screen Length (feet)</i>	<i>Status</i>
		<i>Depth (fbg)</i>	<i>Diameter (inches)</i>	<i>Top (fbg)</i>	<i>Bottom (fbg)</i>		
MW-1	03/27/90	35	2	20	35	15	Overdrilled to new depth
MW-1	11/25/92	51.5	4	30	50	20	Active
MW-2	03/26/90	37	2	22	37	15	Active
MW-3	03/26/90	35	2	20	35	15	Active
MW-4	03/28/90	35	2	20	35	15	Active
MW-5	06/11/91	36	2	21	36	15	Paved Over in 1995 / Inactive
MW-6	06/11/91	35	2	20	35	15	Properly Destroyed in January 2006
MW-7	06/12/91	35	2	20	35	15	Properly Destroyed in January 2006
MW-8	12/06/91	35	2	15	35	20	Properly Destroyed in January 2006
VW-1	11/24/92	31.5	2	25	30	5	Inactive
VW-2	11/25/92	30	2	25	29.5	4.5	Inactive
MW-9	06/08/94	34.5	2	19	34.5	15.5	Properly Destroyed in January 2006
MW-10	06/12/96	35	2	15	35	20	Properly Destroyed in January 2006
MW-11	11/30/06	55	2	45	55	10	Active

fbg = feet below grade

TABLE 2
HISTORICAL GRAB-GROUNDWATER SAMPLE ANALYTICAL RESULTS
CHEVRON SERVICE STATION 95542
7007 SAN RAMON ROAD
DUBLIN, CALIFORNIA

<i>Boring</i>	<i>Sample Depth (fbg)</i>	<i>Date</i>	<i>TPHg μg/L</i>	<i>Benzene μg/L</i>	<i>Toluene μg/L</i>	<i>Ethylbenzene μg/L</i>	<i>Xylenes μg/L</i>	<i>MTBE μg/L</i>	<i>DIPE μg/L</i>	<i>ETBE μg/L</i>	<i>TAME μg/L</i>	<i>TBA μg/L</i>	<i>1,2-DCA μg/L</i>	<i>EDB μg/L</i>
SB-1	--	7/12/95	65,000	470	200	210	2,100	NA	NA	NA	NA	NA	NA	NA
SB-2	--	7/12/95	2,900	<5.0	<5.0	72	52	NA	NA	NA	NA	NA	NA	NA
SB-3	--	7/12/95	<50	<0.5	3.1	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA
B-3	--	6/12/96	63,000	5,600	2,900	1,800	7,900	NA	NA	NA	NA	NA	NA	NA
B-4	--	6/12/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA
CPT-1	46	1/20/06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	55	1/20/06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	65	1/20/06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
CPT-2	52	1/20/06	1,000	1	<0.5	22	120	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	63	1/20/06	170	<0.5	<0.5	1	2	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
CPT-3	42	1/17/06	<50	<3	<3	<3	<3	<3	<3	<3	<3	<25	3	<3
	55	1/17/06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	65	1/17/06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5

Abbreviations/Notes

TPHg = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary butyl ether

DIPE = di-isopropyl ether

ETBE = ethyl tertiary butyl ether

TAME = tertiary amyl methyl ether

TBA = tertiary butyl alcohol

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

<x = not detected at or above stated laboratory reporting limit

fbg = feet below grade

ug/L = micrograms per liter

NA = Not analyzed

TABLE 3
HISTORICAL SOIL SAMPLE ANALYTICAL RESULTS
CHEVRON SERVICE STATION 95542
7007 SAN RAMON ROAD
DUBLIN, CALIFORNIA

Boring/ Sample ID	Depth (ft)	Date Sampled	TPHg mg/kg	TPHd mg/kg	TOG mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	MTBE mg/kg	Semi-VOCs mg/kg	VOCs mg/kg	Pb mg/kg	Cd mg/kg	Cr mg/kg	Zn mg/kg	Sb mg/kg	As mg/kg	Be mg/kg	Cu mg/kg	Hg mg/kg	Ni mg/kg	Se mg/kg	Ag mg/kg	Tl mg/kg		
Monitoring, Remedial, and Soil Vapor Well Borings																											
MW-1	25	3/27/90	1,300	NA	NA	38	150	34	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	30	3/27/90	270	NA	NA	1	4	4	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-2	15	3/26/90	<10	NA	NA	<0.005	<0.005	<0.005	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-3	15	3/26/90	<10	NA	NA	<0.005	<0.005	<0.005	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	20	3/26/90	<10	NA	NA	<0.005	0.01	0.01	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	25	3/26/90	51	NA	NA	<0.005	0.02	0.05	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-4	15	3/28/90	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	37	<3	26	39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	20	3/28/90	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	41	<3	25	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	25	3/28/90	<10	<10	39	2.7	23	5.6	46	NA	NA	ND ¹	26	<3	13	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-5	28.5	6/11/91	<1.0	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-6	26	6/11/91	5	NA	NA	0.006	0.006	0.06	0.12	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-7	26	6/11/91	<1.0	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-8	20	12/6/91	<1.0	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-9	24.5	6/8/94	57	NA	NA	0.07	0.11	0.58	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	33.5	6/9/94	<1.0	NA	NA	0.038	<0.005	<0.005	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VW-1	5	11/24/92	<1.0	NA	NA	<0.005	0.006	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	14	11/24/92	<1.0	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	14.5	11/24/92	2	NA	NA	<0.005	0.058	0.029	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	19.5	11/24/92	250	NA	NA	0.081	5.6	3.4	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	24	11/24/92	990	NA	NA	2.4	60	15	99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	27	11/24/92	230	NA	NA	2	15	5.4	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	31	11/24/92	130	NA	NA	<0.05	0.73	1	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VW-2	5	11/25/92	<1.0	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	10	11/25/92	<1.0	NA	NA	0.006	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	15	11/25/92	<1.0	NA	NA	<0.005	<0.005	<0.005	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	20	11/25/92	220	NA	NA	0.65	8.1	26	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	25	11/25/92	650	NA	NA	2.7	23	9	49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	30	11/25/92	1	NA	NA	0.07	0.01	0.012	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VP-1	5	10/15/09	<1.0	NA	NA	<0.0005	<0.001	<0.001	<0.001	<0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VP-2	4.5	10/15/09	<1.0	NA	NA	<0.0005	<0.001	<0.001	<0.001	<0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VP-3	5	10/15/09	<1.0	NA	NA	<0.0009	<0.0009	<0.0009	<0.0009	<0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Abbreviations and Notes:

TPHg and TPHd = Total petroleum hydrocarbons as gasoline and diesel, respectively.
TOG = Total oil and grease
MTBE = Methyl tertiary butyl ether.
VOCs = Volatile organic compounds
Semi-VOCs = Semi volatile organic compounds

Note: Shaded samples were collected from soil that was later over-excavated
mg/kg = milligrams per kilogram.
NA = Not analyzed
< = Not detected at or above stated laboratory reporting limit
ND = Not detected; reporting limits vary

1 VOCs not detected except BTEX

ATTACHMENT A

ACEH LETTER DATED MAY 7, 2013



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

May 7, 2013

Catalina Espino Devine (*Sent via E-mail to: espino@chevron.com*)
Chevron Environmental Management Company
6001 Bollinger Canyon Road, Room 5345
San Ramon, CA 94583

T.W. Johnson
7007 San Ramon Road
Dublin, CA 94568-3239

Subject: Fuel Leak Case No. RO0000206 and GeoTracker Global ID T0600100354, Chevron #9-5542,
7007 San Ramon Road, Dublin, CA 94568

Dear Ms. Espino Devine and Mr. Johnson:

Thank you for the recently submitted document entitled "Addendum to Case Closure Request" (RFC) dated February 26, 2013, which was prepared by Conestoga-Rovers and Associates (CRA) for the subject site. With this submittal, Chevron requests case closure citing that current site conditions warrant case closure in accordance with the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP).

Alameda County Environmental Health (ACEH) staff has evaluated the request for case closure in conjunction with the site data and information in the RFC and contained in the case files and the following previously submitted reports prepared by CRA:

- Site Conceptual Model and Additional Investigation Work Plan (SCM), dated August 17, 2009
- Soil Vapor Quality Evaluation, Feasibility Study, and Corrective Action Plan, dated October 6, 2010
- Second Semi-Annual 2010 Groundwater Monitoring Report and Request for Suspension of Monitoring, dated October 6, 2010

Based on ACEH staff review, we have determined that the site fails to meet the LTCP General Criteria e and Media-Specific Criteria for Groundwater. ACEH's determination is based on an inadequate conceptual site model of the hydrogeology and contaminant transport mechanisms at the site and lack of supporting data and analysis to justify case closure under the LTCP. Specifically, the RFC states the site satisfies the characteristics of Class 4 of the LTCP Media-Specific Criteria for Groundwater. However, ACEH's review of the case files indicates that the site data and analysis fail to support the requisite characteristics of plume stability, maximum plume length, and dissolved phase concentrations of benzene and methyl tert-butyl ether (MTBE) to qualify under this classification.

Therefore, at this juncture ACEH requests that you prepare an updated SCM and Data Investigation Work Plan to address the Technical Comments provided below and support case closure under the media-specific criteria for groundwater in accordance with the schedule below.

This decision to deny closure is subject to appeal to the State Water Resources Control Board (SWRCB), pursuant to Section 25299.39.2(b) of the Health and Safety Code (Thompson-Richter Underground Storage Tank Reform Act - Senate Bill 562). Please contact the SWRCB Underground Storage Tank Program at (916) 341-5851 for information regarding the appeals process.

TECHNICAL COMMENTS

1) Groundwater Monitoring Well Network – Groundwater monitoring has been performed at the site since 1990. To date, 16 groundwater monitoring wells (#1 through #5, and MW-1 through MW-11) have been installed both on and offsite. Currently only five wells remain in the monitoring well network: MW-1, MW-2, MW-3, MW-4, and MW-11. All other wells have either been destroyed or lost. The last three monitoring events conducted at the site in 2009 and 2010 utilized wells MW-1, MW-4 and MW-11 for sample collection.

ACEH is concerned that the most recently used monitoring well network (consisting of wells MW-1, MW-4, and MW-11) is inadequate for purposes of defining the vertical and lateral extent of the plume, plume stability, plume length, and dissolved phase contaminant concentrations in groundwater. Our review of the well construction logs and historical monitoring data indicate the following:

- a. Historic depth to groundwater measurements in onsite monitoring wells have ranged from 19.72 to 28.12 feet below ground surface (bgs); and from 15.42 to 29.80 feet bgs in offsite wells.
- b. Since 1990, a total of 65 soil samples have been collected from excavations and borings to evaluate the horizontal and vertical extent of petroleum hydrocarbons in soil. Based on the analytical results, the majority of residual contamination remaining at the site is present in soil at depths ranging from approximately 20 to 30 feet bgs, coinciding with the historical onsite smear zone. The highest concentrations reside in soil within an interval of 20 to 25 feet bgs.
- c. MW-1 was originally installed in 1990 in the source area and screened from 20 to 35 feet bgs. In 1992, well MW-1 was overdrilled and deepened and completed as a groundwater and extraction well with a new screen interval of 30 to 50 feet bgs. Depth to groundwater in this well has historically ranged from 21.99 to 27.73 feet bgs, indicating submerged screen conditions during 100 percent of the monitoring events since it was installed in 1992. The boring log for this well indicates it is screened across silty clay (CL) and sandy clay (CL) units. This well appears to be inadequately screened and therefore groundwater elevation and analytical data from this well needs to be validated.
- d. MW-4 is screened from 21 to 36 feet bgs and is located at the downgradient property boundary. Depth to groundwater in this well has historically ranged from 20.80 to 27.24 feet bgs. The boring log for this well indicates it is screened across silty sand (SM), sandy clay (CL), and clayey sand (SC) units. This well appears to be adequately screened across the historic smear zone.

- e. MW-11 is screened from 45 to 55 feet bgs and is located off-site in Dublin Boulevard downgradient of the site. This well was installed in 2008 to monitor contaminant concentrations in a deeper groundwater zone identified during a site investigation in 2006, during which elevated levels of total petroleum hydrocarbons as gasoline (TPHg) were detected in a grab groundwater sample collected at a depth of 52 feet bgs in cone penetrometer test boring CPT-2. The boring log for this well indicates it is screened across clay (CH) units, although more permeable units identified as sandy clay (CH) and clayey sand (SC) were identified as depths of 25 and 35 feet bgs, respectively. Depth to groundwater in this well has historically ranged from 20.45 to 23.66 feet bgs, indicating submerged screen conditions of more than 21 feet during 100 percent of the monitoring events conducted since it was installed in 2006.
- f. Monitoring well MW-10, which was located in the vicinity of MW-11, and screened from 15 to 25 feet bgs, was destroyed in 2006. Analytical data from a sample collected from this well in 1999 indicated the plume had migrated off-site as evidenced by elevated levels of TPHg and benzene at concentrations of 5,020 and 547 micrograms per liter ($\mu\text{g/L}$), respectively.

- 2) **Site Conceptual Model and Data Gap Investigation Work Plan** – Although the existing SCM presents geologic cross-sections depicting site lithology, residual soil contamination, screen intervals of monitoring wells MW-1, MW-4 and MW-11, and the historic range of groundwater elevations, it fails to address the issues discussed in Item 1, and the possible effects on plume delineation, plume stability, gradient, and sample bias due to submerged well screens and wells screened across different units at the site.

Therefore, please prepare an Updated SCM and Data Gap Investigation Work Plan to address the technical comments listed above. Please utilize a tabular format to highlight the major SCM elements and their associated data gaps, which need to be addressed to progress the site to case closure under the LTCP Media-Specific Criteria for Groundwater (see Attachment A). Please sequence activities in the proposed Data Gap Investigation scope of work to enable efficient data collection in the fewest mobilizations possible.

We encourage you to utilize ACEH's Data Gap Identification Tool (DGIT) in developing a strategy that focuses data collection efforts on the LTCP criteria and an efficient path to site closure. ACEH will provide an electronic DGIT upon request.

- 3) **Landowners Notification Form** – Pursuant to Section 25297.15 (a), ACEH, the local agency, shall not consider cleanup or site closure proposals from the primary or active responsible party, issue a closure letter, or make a determination that no further action is required with respect to a site upon which there was an unauthorized release of hazardous substances from an underground storage tank subject to this chapter unless all current record owners of fee title to the site of the proposed action have been notified of the proposed action by the primary or active responsible party. ACEH is required to notify the primary or active responsible party of their requirement to certify in writing to the local agency that the notification requirement in the above-mentioned regulation has been satisfied and to provide the local agency with a complete mailing list of all record fee title owners.

To satisfy this requirement, please complete the enclosed "List of Landowners Form," (Attachment B) and mail it back to ACEH as soon as possible so that we can update our records. Please include the contact information for Tesoro, the current station operator.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Dilan Roe), and to the State Water Resources Control Board's Geotracker website in accordance with Attachment 1 and the following specified file naming convention and schedule:

- **June 7, 2013** – Landowners Notification Form
File to be named: LNDOWNR_F_YYYY-mm-dd_RO0004
- **July 8, 2013** – Updated Site Conceptual Model and Data Gap Investigation Workplan
File to be named: SCM_WP_R_YYYY-mm-dd_RO0004

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 567-6767 or send me an electronic mail message at dilan.roe@acgov.org.

Sincerely,

Dilan Roe
Program Manager – ACEH Local Oversight Program

Enclosure: Attachment A – Site Conceptual Model Elements
Attachment B – List of Landowners Form
Attachment 1 – Responsible Party(ies) Legal Requirements/Obligations & ACEH
Electronic Report Upload (ftp) Instructions

cc: James P. Kiernan, Conestoga-Rovers & Associates, 10969 Trade Center Drive, Suite 107, Rancho Cordova, CA 95670 (Sent via E-mail to: jkiernan@croworld.com)
Cheryl Dizon (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551 (Sent via e-mail to: cdizon@zone7water.com)
Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Dilan Roe, ACEH (Sent via E-mail to: dilan.roe@acgov.org)
GeoTracker
File

ATTACHMENT A

Site Conceptual Model Requisite Elements

Site Conceptual Model

The site conceptual model (SCM) is an essential decision-making and communication tool for all interested parties during the site characterization, remediation planning and implementation, and closure process. A SCM is a set of working hypotheses pertaining to all aspects of the contaminant release, including site geology, hydrogeology, release history, residual and dissolved contamination, attenuation mechanisms, pathways to nearby receptors, and likely magnitude of potential impacts to receptors.

The SCM is initially used to characterize the site and identify data gaps. As the investigation proceeds and the data gaps are filled, the working hypotheses are modified, and the overall SCM is refined and strengthened until it is said to be "validated". At this point, the focus of the SCM shifts from site characterization towards remedial technology evaluation and selection, and later remedy optimization, and forms the foundation for developing the most cost-effective corrective action plan to protect existing and potential receptors.

For ease of review, Alameda County Environmental Health (ACEH) requests utilization of tabular formats to (1) highlight the major SCM elements and their associated data gaps which need to be addressed to progress the site to case closure (see Table 1 of attached example), and (2) highlight the identified data gaps and proposed investigation activities (see Table 2 of the attached example). ACEH requests that the tables presenting the SCM elements, data gaps, and proposed investigation activities be updated as appropriate at each stage of the project and submitted with work plans, feasibility studies, corrective action plans, and requests for closures to support proposed work, conclusions, and/or recommendations.

The SCM should incorporate, but is not limited to, the topics listed below. Please support the SCM with the use of large-scaled maps and graphics, tables, and conceptual diagrams to illustrate key points. Please include an extended site map(s) utilizing an aerial photographic base map with sufficient resolution to show the facility, delineation of streets and property boundaries within the adjacent neighborhood, downgradient irrigation wells, and proposed locations of transects, monitoring wells, and soil vapor probes.

- a. Regional and local (on-site and off-site) geology and hydrogeology. Include a discussion of the surface geology (e.g., soil types, soil parameters, outcrops, faulting), subsurface geology (e.g., stratigraphy, continuity, and connectivity), and hydrogeology (e.g., water-bearing zones, hydrologic parameters, impermeable strata). Please include a structural contour map (top of unit) and isopach map for the aquitard that is presumed to separate your release from the deeper aquifer(s), cross sections, soil boring and monitoring well logs and locations, and copies of regional geologic maps.
- b. Analysis of the hydraulic flow system in the vicinity of the site. Include rose diagrams for depicting groundwater gradients. The rose diagram shall be plotted on groundwater elevation contour maps and updated in all future reports submitted for your site. Please address changes due to seasonal precipitation and groundwater pumping, and evaluate the potential interconnection between shallow and deep aquifers. Please include an analysis of vertical hydraulic gradients, and effects of pumping rates on hydraulic head from nearby water supply wells, if appropriate. Include hydraulic head in the different water bearing zones and hydrographs of all monitoring wells.
- c. Release history, including potential source(s) of releases, potential contaminants of concern (COC) associated with each potential release, confirmed source locations, confirmed release locations, and existing delineation of release areas. Address primary leak source(s) (e.g., a tank, sump, pipeline, etc.) and secondary sources (e.g., high-

Site Conceptual Model

concentration contaminants in low-permeability lithologic soil units that sustain groundwater or vapor plumes). Include local and regional plan view maps that illustrate the location of sources (former facilities, piping, tanks, etc.).

- d. Plume (soil gas and groundwater) development and dynamics including aging of source(s), phase distribution (NAPL, dissolved, vapor, residual), diving plumes, attenuation mechanisms, migration routes, preferential pathways (geologic and anthropogenic), magnitude of chemicals of concern and spatial and temporal changes in concentrations, and contaminant fate and transport. Please include three-dimensional plume maps for groundwater and two-dimensional soil vapor plume plan view maps to provide an accurate depiction of the contaminant distribution of each COC.
- e. Summary tables of chemical concentrations in different media (i.e., soil, groundwater, and soil vapor). Please include applicable environmental screening levels on all tables. Include graphs of contaminant concentrations versus time.
- f. Current and historic facility structures (e.g., buildings, drain systems, sewer systems, underground utilities, etc.) and physical features including topographical features (e.g., hills, gradients, surface vegetation, or pavement) and surface water features (e.g. routes of drainage ditches, links to water bodies). Please include current and historic site maps.
- g. Current and historic site operations/processes (e.g., parts cleaning, chemical storage areas, manufacturing, etc.).
- h. Other contaminant release sites in the vicinity of the site. Hydrogeologic and contaminant data from those sites may prove helpful in testing certain hypotheses for the SCM. Include a summary of work and technical findings from nearby release sites, including the two adjacent closed LUFT sites, (i.e., Montgomery Ward site and the Quest Laboratory site).
- i. Land uses and exposure scenarios on the facility and adjacent properties. Include beneficial resources (e.g., groundwater classification, wetlands, natural resources, etc.), resource use locations (e.g., water supply wells, surface water intakes), subpopulation types and locations (e.g., schools, hospitals, day care centers, etc.), exposure scenarios (e.g. residential, industrial, recreational, farming), and exposure pathways, and potential threat to sensitive receptors. Include an analysis of the contaminant volatilization from the subsurface to indoor/outdoor air exposure route (i.e., vapor pathway). Please include copies of Sanborn maps and aerial photographs, as appropriate.
- j. Identification and listing of specific data gaps that require further investigation during subsequent phases of work. Proposed activities to investigate and fill data gaps identified.

**TABLE 1
INITIAL SITE CONCEPTUAL MODEL**

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Geology and Hydrogeology	Regional	<p>The site is in the northwest portion of the Livermore Valley, which consists of a structural trough within the Diablo Range and contains the Livermore Valley Groundwater Basin (referred to as "the Basin") (DWR, 2006). Several faults traverse the Basin, which act as barriers to groundwater flow, as evidenced by large differences in water levels between the upgradient and downgradient sides of these faults (DWR, 2006). The Basin is divided into 12 groundwater basins, which are defined by faults and non-water-bearing geologic units (DWR, 1974).</p> <p>The hydrogeology of the Basin consists of a thick sequence of fresh-water-bearing continental deposits from alluvial fans, outwash plains, and lacustrine environments to up to approximately 5,000 feet bgs (DWR, 2006). Three defined fresh-water bearing geologic units exist within the Basin: Holocene Valley Fill (up to approximately 400 feet bgs in the central portion of the Basin), the Plio-Pleistocene Livermore Formation (generally between approximately 400 and 4,000 feet bgs in the central portion of the Basin), and the Pliocene Tassajara Formation (generally between approximately 250 and 5,000 or more feet bgs) (DWR, 1974). The Valley Fill units in the western portion of the Basin are capped by up to 40 feet of clay (DWR, 2006).</p>	None	NA
	Site	<p>Geology: Borings advanced at the site indicate that subsurface materials consist primarily of finer-grained deposits (clay, sandy clay, silt and sandy silt) with interbedded sand lenses to 20 feet below ground surface (bgs), the approximate depth to which these borings were advanced. The documented lithology for one on-site boring that was logged to approximately 45 feet bgs indicates that beyond approximately 20 feet bgs, fine-grained soils are present to approximately 45 feet bgs. A cone penetrometer technology test indicated the presence of sandier lenses from approximately 45 to 58 feet bgs and even coarser materials (interbedded with finer-grained materials) from approximately 58 feet to 75 feet bgs, the total depth drilled. The lithology documented at the site is similar to that reported at other nearby sites, specifically the Montgomery Ward site (7575 Dublin Boulevard), the Quest laboratory site (6511 Golden Gate Drive), the Shell-branded Service Station site (11989 Dublin Boulevard), and the Chevron site (7007 San Ramon Road).</p> <p>Hydrogeology: Shallow groundwater has been encountered at depths of approximately 9 to 15 feet bgs. The hydraulic gradient and groundwater flow direction have not been specifically evaluated at the site.</p>	<p>As noted, most borings at the site have been advanced to approximately 20 feet bgs, and one boring has been advanced and logged to 45 feet bgs; CPT data was collected to 75 feet bgs at one location. Lithologic data will be obtained from additional borings that will be advanced on site to further the understanding of the subsurface, especially with respect to deeper lithology.</p> <p>The on-site shallow groundwater horizontal gradient has not been confirmed. Additionally, it is not known if there may be a vertical component to the hydraulic gradient.</p>	<p>Two direct push borings and four multi-port wells will be advanced to depth (up to approximately 75 feet bgs) and soil lithology will be logged. See items 4 and 5 on Table 2.</p> <p>Shallow and deeper groundwater monitoring wells will be installed to provide information on lateral and vertical gradients. See Items 2 and 5 on Table 2.</p>
Surface Water Bodies		The closest surface water bodies are culverted creeks. Martin Canyon Creek flows from a gully west of the site, enters a culvert north of the site, and then bends to the south, passing approximately 1,000 feet east of the site before flowing into the Alamo Canal. Dublin Creek flows from a gully west of the site, enters a culvert approximately 750 feet south of the site, and then joins Martin Canyon Creek approximately 750 feet southeast of the site.	None	NA
Nearby Wells		The State Water Resources Control Board's GeoTracker GAMA website includes information regarding the approximate locations of water supply wells in California. In the vicinity of the site, the closest water supply wells presented on this website are depicted approximately 2 miles southeast of the site; the locations shown are approximate (within 1 mile of actual location for California Department of Public Health supply wells and 0.5 mile for other supply wells). No water-producing wells were identified within 1/4 mile of the site in the well survey conducted for the Quest Laboratory site (6511 Golden Gate Drive; documented in 2009); information documented in a 2005 report for the Chevron site at 7007 San Ramon Road indicates that a water-producing well may exist within 1/2 mile of the site.	A formal well survey is needed to identify water-producing, monitoring, cathodic protection, and dewatering wells.	Obtain data regarding nearby, permitted wells from the California Department of Water Resources and Zone 7 Water Agency (Item 11 on Table 2).

**TABLE 2
DATA GAPS AND PROPOSED INVESTIGATION**

Item	Data Gap	Proposed Investigation	Rationale	Analysis
5	Evaluate the possible presence of impacts to deeper groundwater. Evaluate deeper groundwater concentration trends over time. Obtain data regarding the vertical groundwater gradient. Obtain more lithological data below 20 feet bgs.	Install four continuous multichannel tubing (CMT) groundwater monitoring wells (aka multi-port wells) to approximately 65 feet bgs in the northern parking lot with ports at three depths (monitoring well locations may be adjusted pending results of shallow grab groundwater samples; we will discuss any potential changes with ACEH before proceeding). Groundwater monitoring frequency to be determined. Soil samples will be collected only if there are field indications of impacts. Soil lithology will be logged. However, information regarding the moisture content of soil may not be reliable using sonic drilling technology (two borings will be logged using direct push technology; see Item 4, above).	One well is proposed at the western (upgradient) property boundary to confirm that there are no deeper groundwater impacts from upgradient. Two wells are proposed near the center of the northern parking lot to evaluate potential impacts in an area where deeper impacts, if any, would most likely to be found. One well is proposed at the eastern (downgradient) property boundary to confirm that there are no impacts extending off-site. Port depths will be chosen based on the locations of saturated soils (as logged in direct push borings; see Item 4, above), but are expected at approximately 15, 45, and 60 feet bgs.	<i>Groundwater:</i> VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance.
6	Evaluate possible off-site migration of impacted soil vapor in the downgradient direction (east). Evaluate concentration trends over time.	Install 4 temporary nested soil vapor probes at approximately 4 and 8 feet bgs along the eastern property boundary. Based on the results of the sampling, two sets of nested probes will be converted to vapor monitoring wells to allow for evaluation of VOC concentration trends over time.	Available data indicate that PCE and TCE are present in soil vapor in the eastern portion of the northern parking lot. Samples are proposed on approximately 50-foot intervals along the eastern property boundary to provide a transect of concentrations through the vapor plume. The depths of 4 and 8 feet bgs are chosen to provide data closest to the source (i.e., groundwater) while avoiding saturated soil, and also provide shallower data to help evaluate potential attenuation within the soil column. Two sets of nested vapor probes will be converted into vapor monitoring wells (by installing well boxes at ground surface); the locations of the permanent wells will be chosen based on the results of samples from the temporary probes.	<i>Soil vapor:</i> VOCs by EPA Method TO-15.
7	Evaluate potential for off-site migration of impacted groundwater in the downgradient direction (east).	Advance two borings to approximately 20 feet bgs in the parking lot of the property east of the Crown site for collection of grab groundwater samples.	Two borings are proposed off-site, on the property east of the Crown site, just east of the building in the expected area of highest potential VOC concentrations.	<i>Groundwater:</i> VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance.
8	Evaluate VOC concentrations just north of the highest concentration area.	Advance two borings to approximately 20 feet bgs north of Building A for collection of soil and grab groundwater samples. Soil samples will be collected at two depths in the vadose zone. Soil samples will be collected based on field indications of impacts (PID readings, odor, staining) or, in the absence of field indications of impacts, at 5 and 10 feet bgs.	The highest concentrations of PCE in groundwater were detected at boring NM-B-32, just north of Building A. The nearest available data to the north are approximately 75 feet away. One of the borings will be advanced approximately 20 feet north of NM-B-32 to provide data close to the highest concentration area. A second boring will be advanced approximately halfway between the first boring and former boring NM-B-33 to provide additional spatial data for contouring purposes. These borings will be part of a transect in the highest concentration area.	<i>Groundwater:</i> VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance. <i>Soil:</i> VOCs by EPA Method 8260 (soil samples to be collected using field preservation in accordance with EPA Method 5035).
9	Evaluate VOC concentrations in soil vapor in the south parcel of the site.	Install four temporary soil vapor probes at approximately 5 feet bgs around boring SV-25, where PCE was detected in soil vapor at a low concentration.	PCE was detected in soil vapor sample SV-25 in the southern parcel, although was not detected in groundwater in that area. Three probes will be installed approximately 30 feet from of boring SV-25 to attempt to delineate the extent of impacts. A fourth probe is proposed west of the original sample, close to the property boundary and the location of mapped utility lines, which may be a potential conduit, to evaluate potential impacts from the west.	<i>Soil vapor:</i> VOCs by EPA Method TO-15.
10	Obtain additional information regarding subsurface structures and utilities to further evaluate migration pathways and sources.	Ground penetrating radar (GPR) and other utility locating methodologies will be used, as appropriate, to further evaluate the presence of unknown utilities and structures at the site.	Utilities have been identified at the site that include an on-site sewer lateral and drain line, and shallow water, electric, and gas lines. Given the current understanding of the distribution of PCE in groundwater at the site, it is possible that other subsurface utilities, and specifically sewer laterals, exist that may act as a source or migration pathway for distribution of VOCs in the subsurface.	NA

ATTACHMENT B

Landowner Notification Form

LIST OF LANDOWNERS FORM

County of Alameda
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR:

Site Name: _____

Address: _____

City, State, Zip: _____

Record ID #: RO _____

Please fill out item 1 if there are multiple site landowners (attach an extra sheet if necessary). If you are the sole site landowner, skip item 1 and fill out item 2.

1. In accordance with Section 25297.15(a) of Chapter 6.7 of the California Health & Safety Code, I, _____ (name of primary responsible party), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:

Name: _____

Address: _____

City, State, Zip: _____

E-mail Address: _____

Name: _____

Address: _____

City, State, Zip: _____

E-mail Address: _____

Name: _____

Address: _____

City, State, Zip: _____

E-mail Address: _____

2. In accordance with Section 25297.15(a) of Chapter 6.7 of the California Health & Safety Code, I _____, certify that I am the sole landowner for the above site.

Sincerely,

Signature of Primary Responsible Party

Printed Name

Date

E-mail Address

ATTACHMENT 1

**Responsible Party(ies) Legal Requirements/Obligations
& ACEH Electronic Report Upload (ftp) Instructions**

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please visit the SWRCB website for more information on these requirements. (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 7835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, late reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)	REVISION DATE: July 25, 2012
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (petroleum UST and SCP) require submission of all reports in electronic form to the county's FTP site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single Portable Document Format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to .loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <://alcoftp1.acgov.org>
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to .loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ATTACHMENT B
GROUNDWATER MONITORING DATA

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* ($\mu\text{g/L}$)	GWE (msl)	DTW (ft)	TPH-GRO ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TOG ($\mu\text{g/L}$)	1,2-DCA ($\mu\text{g/L}$)	EDB ($\mu\text{g/L}$)	HVOCs ($\mu\text{g/L}$)
MW-1													
4/3-4/90	363.98	--	--	46,000	8,400	7,400	860	5,600	--	--	--	1.04	--
4/3-4/90 (D)	363.98	--	--	43,000	8,400	7,200	840	5,200	--	--	--	1.1	--
05/31/91	363.98	338.31	25.67	31,000	7,400	2,500	630	2,100	--	--	2.0	--	ND ³
05/31/91	363.98	--	--	--	--	--	--	--	--	<5000	--	--	--
06/21/91	363.98	337.75	26.23	--	--	--	--	--	--	--	--	--	--
07/17/91	363.98	337.45	26.53	--	--	--	--	--	--	--	--	--	--
09/20/91	363.98	--	--	31,000	3,000	2,800	610	3,100	--	--	0.6	--	ND ³
10/04/91	363.98	336.08	27.90	--	--	--	--	--	--	--	--	--	--
12/19/91	363.98	335.86	28.12	20,000	5,200	1,700	560	2,000	--	--	3.3	--	ND ³
03/19/92	363.98	339.35	24.63	30,000	8,500	3,600	590	2,400	--	--	2.7	--	ND ³
06/19/92	364.32	338.09	26.23	25,000	1,100	2,000	520	1,800	--	--	--	--	--
09/22/92	364.32	336.59	27.73	21,000	8,000	3,500	670	2,900	--	--	--	--	--
12/18/92	364.32	337.56	26.76	79,000	12,000	12,000	1,600	8,500	--	--	--	--	--
03/10/93 ¹	364.32	--	--	45,000	16,000	14,000	1,100	5,500	--	--	--	--	--
03/22/93 ²	364.32	--	--	--	--	--	--	--	--	--	--	--	--
06/14/93 ²	364.32	--	--	--	--	--	--	--	--	--	--	--	--
07/25/93 ²	364.32	--	--	--	--	--	--	--	--	--	--	--	--
09/23/93 ²	364.32	--	--	--	--	--	--	--	--	--	--	--	--
03/21/94	364.32	338.16	26.16	5,900	1,600	560	140	330	--	--	--	--	--
07/06/94	364.32	337.12	27.20	--	--	--	--	--	--	--	--	--	--
08/26/94	364.32	--	--	20,000	5,300	4,900	610	2,900	--	--	--	--	--
09/22/94	364.32	336.88	27.44	42,000	10,000	8,300	1,000	4,900	--	--	--	--	--
12/08/94	364.32	337.62	26.70	38,000	9,000	7,700	830	3,800	--	--	--	--	--
03/06/95	364.32	340.64	23.68	47,000	9,400	7,100	750	3,400	--	--	--	--	--
06/08/95	364.32	341.64	22.68	170,000	29,000	29,000	2,600	13,000	--	--	--	--	--
09/13/95	364.32	339.22	25.10	39,000	11,000	10,000	1,100	4,900	--	--	--	--	--
12/16/95	364.32	338.24	26.08	40,000	7,000	6,300	570	2,500	<2.5	--	--	--	--
03/28/96	364.32	342.12	22.20	16,000	3,700	3,200	330	1,500	<120	--	--	--	--
06/27/96	364.32	340.12	24.20	40,000	6,900	8,700	830	4,000	<120	--	--	--	--
09/30/96	364.32	338.70	25.62	190,000	24,000	31,000	2,900	14,000	380	--	--	--	--
12/30/96	364.32	340.11	24.21	130,000	25,000	32,000	2,900	15,000	<500	--	--	--	--
03/11/97	364.32	340.60	23.72	76,000	11,000	13,000	1,000	6,500	<500	--	--	--	--
06/10/97	364.32	339.00	25.32	63,000	9,900	15,000	1,400	7,000	<500	--	--	--	--
10/01/97	364.32	338.31	26.01	48,000	8,400	12,000	1,200	5,700	<500	--	--	--	--
12/17/97	364.32	--	--	--	--	--	--	--	--	--	--	--	--
03/29/98	364.32	DISCONTINUED		--	--	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* (<i>fl.</i>)	GWE (<i>msl.</i>)	DTW (<i>ft.</i>)	TPH-GRO (<i>µg/L.</i>)	B (<i>µg/L.</i>)	T (<i>µg/L.</i>)	E (<i>µg/L.</i>)	X (<i>µg/L.</i>)	MTBE (<i>µg/L.</i>)	TOG (<i>µg/L.</i>)	1,2-DCA (<i>µg/L.</i>)	EDB (<i>µg/L.</i>)	HVOCs (<i>µg/L.</i>)
MW-1 (cont)													
09/12/98 ⁵	364.32	340.10	24.22	61,000	10,000	13,000	1,700	7,600	<125/143 ⁶	--	--	--	--
09/29/99 ⁴	364.32	339.04	25.28	423	65	48.8	12.4	43.7	8.0	--	<2.0	<2.0	--
03/17/00	364.32	341.34	22.98	61,200	10,200	15,300	1890	8540	<2000	--	--	--	--
08/28/00	364.32	338.30	26.02	2,000 ¹⁵	590	470	110	390	25	--	--	--	--
02/25/01	364.32	338.84	25.48	440 ¹⁵	120	33	8.5	260	<13	--	--	--	--
09/17/01	364.32	337.65	26.67	16,000	1,500	1,900	340	1,400	<20	--	--	--	--
03/25/02	364.32	340.81	23.51	96,000	11,000	21,000	2,500	12,000	<100	--	--	--	--
09/16/02 ⁵	364.32	337.91	26.41	3,700	1,200	52	140	92	6.9/<2 ⁶	--	<2	<2	--
03/18/03	364.32	339.86	24.46	740	120	43	25	70	<2.5/<0.5 ⁶	--	--	--	--
09/18/03 ¹⁶	364.32	338.36	25.96	66,000	6,600	12,000	1,500	6,900	<2	--	--	--	--
03/24/04 ¹⁶	364.32	340.44	23.88	130	8	2	2	4	<0.5	--	--	--	--
09/16/04 ¹⁶	364.32	337.68	26.64	14,000	1,600	2,200	500	2,000	<1	--	--	--	--
03/23/05 ¹⁶	364.32	342.04	22.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/02/05 ¹⁶	364.32	338.60	25.72	3,100	630	60	110	160	<0.5	--	--	--	--
03/24/06 ¹⁶	364.32	340.49	23.83	680	130	0.7	15	16	<0.5	--	--	--	--
08/24/06 ¹⁶	364.32	338.36	25.96	1,000	180	8	20	41	<0.5	--	--	--	--
03/01/07 ¹⁶	364.32	340.47	23.85	28,000	1,800	3,800	710	3,100	<5	--	--	--	--
09/06/07 ¹⁶	364.32	338.07	26.25	11,000	1,900	46	410	960	<1	--	--	--	--
03/10/08 ¹⁶	364.32	341.36	22.96	19,000	940	3,800	590	3,000	<5	--	--	--	--
09/02/08 ¹⁶	364.32	338.07	26.25	23,000	1,200	4,300	840	4,100	<3	--	--	--	--
03/18/09 ¹⁶	364.32	340.92	23.40	35,000	1,200	6,400	1,400	5,800	<3	--	--	--	--
09/01/09 ¹⁶	364.32	337.64	26.68	8,700	410	1,100	390	1,400	<0.5	--	--	--	--
03/03/10 ¹⁶	364.32	342.33	21.99	50,000	1,100	7,500	1,700	7,800	<5	--	--	--	--
09/08/10 ¹⁶	364.32	339.51	24.81	21,000	480	2,500	810	3,100	<10	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-5542
 7007 San Ramon Valley Boulevard
 Dublin, California

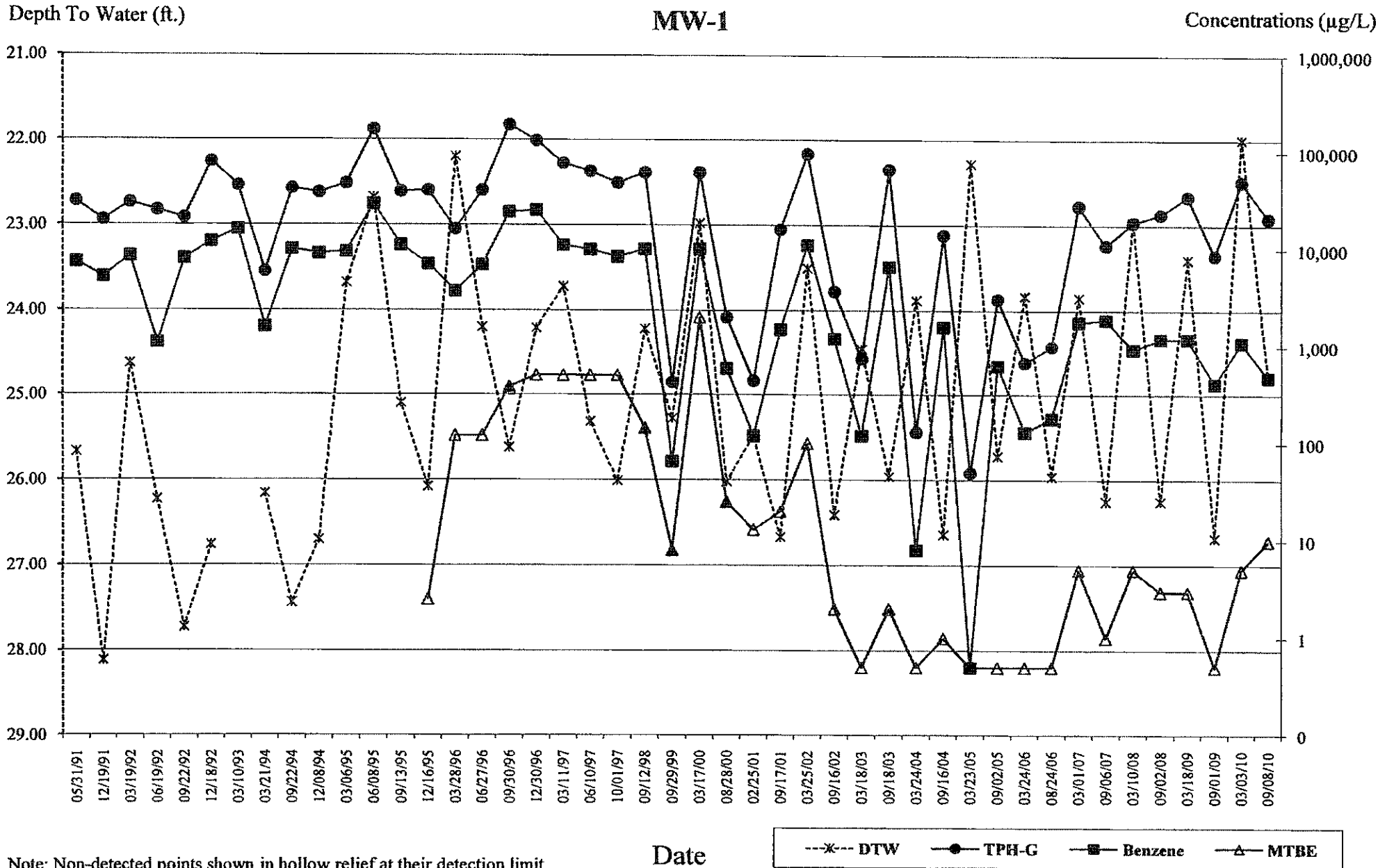


Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-2													
4/3-4/90	364.19	--	--	<50	<0.3	<0.3	<0.3	<0.6	--	--	--	<0.02	--
05/31/91	364.19	338.68	25.51	100	3.1	4.2	0.7	2.0	--	--	<0.5	--	ND ³
05/31/91	364.19	--	--	--	--	--	--	--	--	<5000	--	--	--
06/21/91	364.19	338.06	26.13	--	--	--	--	--	--	--	--	--	--
07/17/91	364.19	337.73	26.46	--	--	--	--	--	--	--	--	--	--
09/20/91	364.19	--	--	68	1.3	1.6	0.8	3.0	--	--	--	--	--
10/04/91	364.19	336.40	27.79	--	--	--	--	--	--	--	--	--	--
12/19/91	364.19	336.13	28.06	<50	0.6	1.2	0.8	2.5	--	--	--	--	--
03/19/92	364.19	339.73	24.46	<50	2.5	2.0	1.1	2.4	--	--	--	--	--
06/19/92	364.64	338.54	26.10	<50	<0.5	0.6	0.7	1.2	--	--	--	--	--
09/22/92	364.64	337.04	27.60	200	16	42	6.1	32	--	--	--	--	--
12/18/92	364.64	338.32	26.32	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/22/93	364.64	343.29	21.39	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/14/93	364.64	339.49	25.15	--	--	--	--	--	--	--	--	--	--
07/25/93	364.64	340.12	24.52	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/23/93	364.64	339.01	25.63	72	12	4.0	6.0	8.0	--	--	--	--	--
12/22/93	364.64	338.30	26.34	1,600	25	<0.5	3.8	4.8	--	--	--	--	--
03/21/94	364.64	338.81	25.83	<50	0.7	3.3	<0.5	1.9	--	--	--	--	--
06/29/94	364.64	--	--	52	0.8	0.9	0.8	1.9	--	--	--	--	--
07/06/94	364.64	337.94	26.70	--	--	--	--	--	--	--	--	--	--
09/22/94	364.64	337.82	26.82	<50	0.7	<0.5	<0.5	0.6	--	--	--	--	--
12/08/94	364.64	338.36	26.28	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/06/95	364.64	341.37	23.27	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/08/95	364.64	342.26	22.38	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/13/95	364.64	339.95	24.95	<50	<0.5	0.8	<0.5	0.8	--	--	--	--	--
12/16/95	364.64	338.86	25.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/28/96	364.64	343.30	21.34	<50	0.8	5.6	1.0	6.2	<5.0	--	--	--	--
06/27/96	364.64	340.65	23.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
09/30/96	364.64	339.50	25.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/30/96	364.64	341.03	23.61	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	364.64	341.47	23.17	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/10/97	364.64	339.92	24.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
10/01/97	364.64	338.79	25.85	<50	1.0	1.2	<0.5	1.7	<5.0	--	--	--	--
12/17/97	364.64	339.66	24.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/29/98	364.64	344.30	20.34	110	20	12	4.3	14	5.4	--	--	--	--
09/12/98	364.64	341.05	23.59	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-5542
 7007 San Ramon Road
 Dublin, California

WELL ID/ DATE	TOC* (<i>µ</i> L)	GWE (<i>m</i> sl)	DTW (<i>ft</i>)	TPH-GRO (<i>µ</i> g/L)	B (<i>µ</i> g/L)	T (<i>µ</i> g/L)	E (<i>µ</i> g/L)	X (<i>µ</i> g/L)	MTBE (<i>µ</i> g/L)	TOG (<i>µ</i> g/L)	1,2-DCA (<i>µ</i> g/L)	EDB (<i>µ</i> g/L)	HVOCs (<i>µ</i> g/L)
MW-2 (cont)													
03/26/99	364.64	341.30	23.34	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--
09/29/99	364.64	339.63	25.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
NOT MONITORED/SAMPLED													
09/01/09	364.64	338.52	26.12	--	--	--	--	--	--	--	--	--	--
03/03/10	364.64	343.80	20.84	--	--	--	--	--	--	--	--	--	--
09/08/10	364.64	340.46	24.18	--	--	--	--	--	--	--	--	--	--
MW-3													
4/3-4/90	361.92	--	--	2,200	36	5.0	6.0	17	--	--	--	<0.02	--
05/31/91	361.92	338.72	23.20	2,200	130	11	31	78	--	--	19	--	ND ³
05/31/91	361.92	--	--	--	--	--	--	--	--	<5000	--	--	--
06/21/91	361.92	337.79	24.13	--	--	--	--	--	--	--	--	--	--
07/17/91	361.92	337.73	24.59	--	--	--	--	--	--	--	--	--	--
09/20/91	361.92	335.94	25.98	2,200	190	6.0	24	32	--	--	--	--	--
12/19/91	361.92	335.68	26.24	640	73	27	17	56	--	--	--	--	--
03/19/92	361.92	339.46	22.46	4,500	1,000	15	91	240	--	--	--	--	--
06/19/92	362.26	337.94	24.32	1,100	89	3.3	9.1	13	--	--	--	--	--
09/22/92	362.26	336.42	25.84	1,400	81	51	15	49	--	--	--	--	--
12/18/92	362.26	337.86	24.40	1,100	2.0	1.1	53	38	--	--	--	--	--
03/22/93	362.26	342.54	19.72	1,600	96	9.0	14	91	--	--	--	--	--
06/14/93	362.26	338.74	23.52	--	--	--	--	--	--	--	--	--	--
07/25/93	362.26	339.05	23.21	1,200	19	6.0	2.0	5.0	--	--	--	--	--
09/23/93	362.26	338.24	24.02	1,500	35	<0.5	5.0	13	--	--	--	--	--
12/22/93	362.26	337.59	24.67	1,500	26	<0.5	3.9	4.9	--	--	--	--	--
03/21/94	362.26	338.21	24.05	1,400	22	14	1.1	5.3	--	--	--	--	--
06/29/94	362.26	--	--	1,700	90	6.1	20	81	--	--	--	--	--
07/06/94	362.26	337.18	25.08	--	--	--	--	--	--	--	--	--	--
09/22/94	362.26	337.48	24.78	2,600	72	7.6	110	370	--	--	--	--	--
12/08/94	362.26	337.91	24.35	2,700	32	<0.5	100	140	--	--	--	--	--
03/06/95	362.26	340.79	21.47	1,000	4.0	9.9	8.8	7.7	--	--	--	--	--
06/08/95	362.26	341.27	20.99	1,500	13	3.2	12	17	--	--	--	--	--
09/13/95	362.26	338.75	23.51	2,100	12	79	76	420	--	--	--	--	--
12/16/95	362.26	338.26	24.00	650	<0.5	<0.5	4.4	6.5	12	--	--	--	--
03/28/96	362.26	342.36	19.90	1,500	4.3	6.5	60	100	15	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-5542
 7007 San Ramon Road
 Dublin, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	(2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-3 (cont)													
06/27/96	362.26	340.28	21.98	1,200	<0.5	<0.5	1.9	2.0	13	--	--	--	--
09/30/96	362.26	338.44	23.82	620	<0.5	<0.5	<0.5	0.8	10	--	--	--	--
12/30/96	362.26	339.96	22.30	1,200	0.6	<0.5	0.6	0.7	12	--	--	--	--
03/11/97	362.26	340.75	21.51	1,400	<0.5	3.1	<0.5	0.7	32	--	--	--	--
06/10/97	362.26	338.66	23.60	1,400	1.8	4.8	0.8	1.1	18	--	--	--	--
10/01/97	362.26	337.53	24.73	1,100	0.6	2.2	1.0	1.3	7.8	--	--	--	--
12/17/97	362.26	338.99	23.27	450 ⁷	7.9	1.2	<1.0	1.5	11	--	--	--	--
03/29/98	362.26	342.01	20.25	890	0.84	1.4	1.3	0.68	100	--	--	--	--
09/12/98	362.26	340.38	21.88	740 ⁷	<0.5	<0.5	<0.5	<0.5	5.4	--	--	--	--
03/26/99	362.26	339.83	22.43	661	<0.5	34.9	0.848	1.36	5.68	--	--	--	--
09/29/99	362.26	338.63	23.63	348	0.975	0.58	<0.5	0.618	<5.0	--	--	--	--
NOT MONITORED/SAMPLED													
09/01/09	362.26	337.74	24.52	--	--	--	--	--	--	--	--	--	--
03/03/10	362.26	342.50	19.76	--	--	--	--	--	--	--	--	--	--
09/08/10	362.26	339.48	22.78	--	--	--	--	--	--	--	--	--	--
MW-4													
4/3-4/90	362.70	--	--	43,000	4,000	5,000	790	5,500	--	18,000	--	<0.02	--
4/3-4/90	362.70	--	--	--	6,000	8,200	1,500	--	--	--	--	--	--
05/31/91	362.70	338.03	24.67	34,000	2,900	2,900	680	3,300	--	--	<0.5	--	ND ³
05/31/91	362.70	--	--	<5000	--	--	--	--	--	--	--	--	--
06/21/91	362.70	337.39	25.31	--	--	--	--	--	--	--	--	--	--
07/17/91	362.70	336.97	25.73	--	--	--	--	--	--	--	--	--	--
09/20/91	362.70	--	--	37,000	4,000	3,200	580	3,000	--	--	9.2	--	ND ³
10/04/91	362.70	335.62	27.08	--	--	--	--	--	--	--	--	--	--
12/19/91	362.70	335.46	27.24	41,000	5,500	4,900	1,000	4,400	--	--	17	--	ND ³
03/19/92	362.70	339.04	23.66	21,000	3,800	2,900	500	3,200	--	--	15	--	ND ⁸
06/19/92	363.07	337.74	25.33	27,000	1,800	1,600	570	1,900	--	<5000	--	--	--
09/22/92	363.07	336.17	26.90	20,000	4,100	2,700	670	3,200	--	<5000	--	--	--
12/18/92	363.07	337.45	25.62	15,000	2,200	2,000	370	1,600	--	<5000	--	--	--
03/22/93	363.07	342.27	20.80	41,000	3,900	5,100	840	4,500	--	5000	--	--	--
06/14/93	363.07	337.34	25.73	--	--	--	--	--	--	--	--	--	--
07/25/93	363.07	339.05	24.02	94,000	18,000	30,000	2,400	14,000	--	<5000	--	--	--
09/23/93	363.07	338.07	25.00	23,000	4,700	2,000	900	4,600	--	<5000	--	--	--
12/22/93	363.07	337.35	25.72	18,000	2,800	1,300	420	1,700	--	<5000	--	--	--

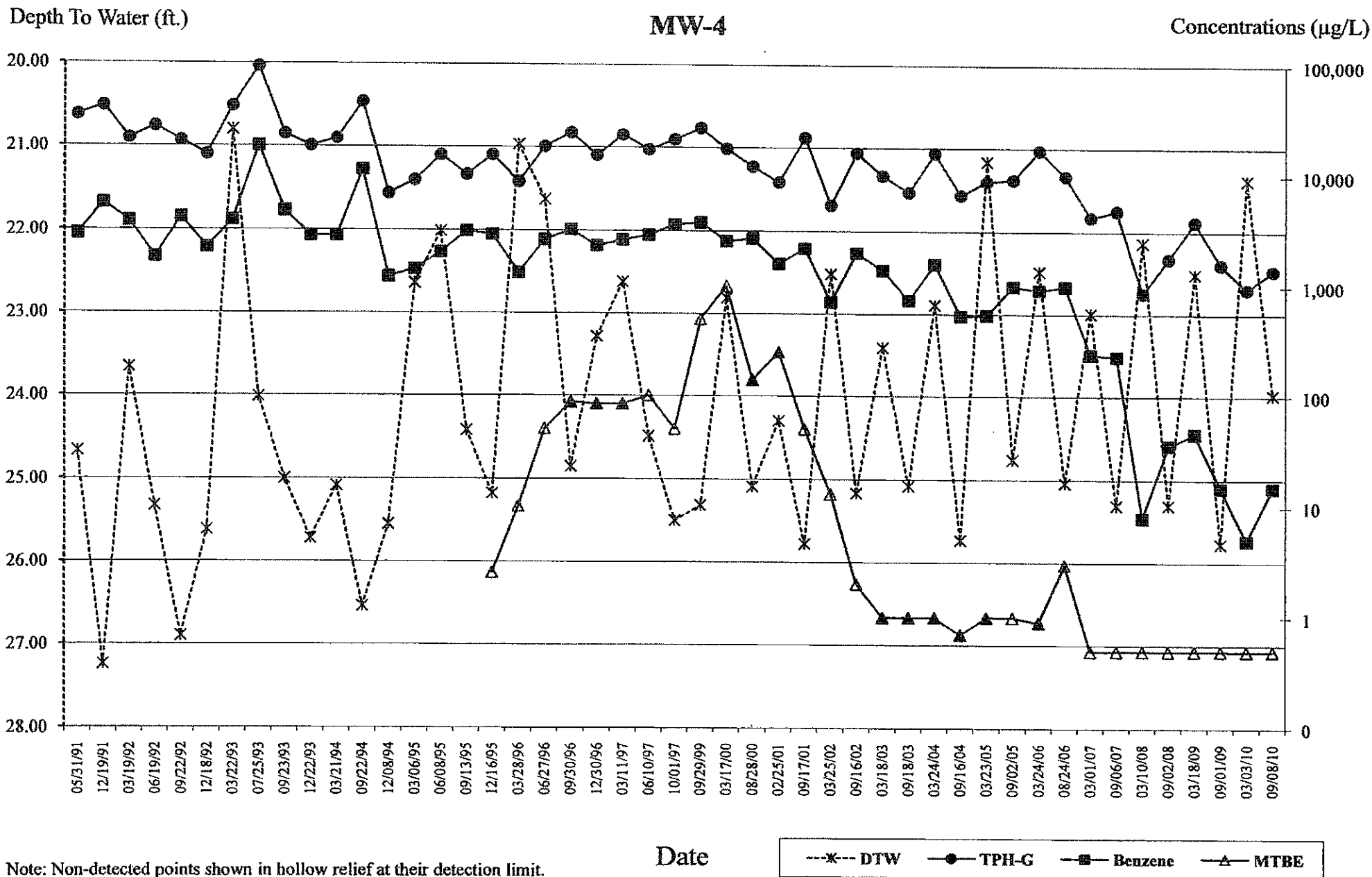
Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* (μL)	GWE (msl)	DTW (ft)	TPH-GRO ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	F ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TOG ($\mu\text{g/L}$)	1,2-DCA ($\mu\text{g/L}$)	EDB ($\mu\text{g/L}$)	HVOCs ($\mu\text{g/L}$)
MW-4 (cont)													
03/21/94	363.07	337.98	25.09	21,000	2,800	1,700	540	1,900	--	<5000	--	--	--
06/29/94	363.07	--	--	25,000	4,000	2,600	960	3,300	--	<5000	--	--	--
07/06/94	363.07	336.96	26.11	--	--	--	--	--	--	--	--	--	--
09/22/94	363.07	336.53	26.54	45,000	11,000	8,800	1,000	5,100	--	<5000	--	--	--
12/08/94 ⁹	363.07	337.52	25.55	6700	1,200	720	34	1,100	--	<5000	--	--	--
03/06/95	363.07	340.43	22.64	8900	1,400	540	350	940	--	--	--	--	--
06/08/95	363.07	341.06	22.01	15,000	2,000	1,500	400	1,500	--	--	--	--	--
09/13/95	363.07	338.65	24.42	10,000 ¹⁰	3,100	670	500	1,400	--	--	--	--	--
12/16/95	363.07	337.89	25.18	15,000	2,900	960	420	1,200	<2.5	--	--	--	--
03/28/96	363.07	342.10	20.97	8600	1,300	920	330	1,100	<10	--	--	--	--
06/27/96	363.07	341.44	21.63	18,000	2,600	1,500	740	2,400	<50	--	--	--	--
09/30/96	363.07	338.22	24.85	24,000	3,200	1,200	710	2,200	87	--	--	--	--
12/30/96	363.07	339.79	23.28	15,000	2,300	1,000	600	1,900	84	--	--	--	--
03/11/97	363.07	340.45	22.62	23,000	2,600	920	780	2,200	84	--	--	--	--
06/10/97	363.07	338.58	24.49	17,000	2,900	790	750	1,700	<100	--	--	--	--
10/01/97	363.07	337.57	25.50	21,000	3,600	1,400	1,300	2,700	<50	--	--	--	--
12/17/97	363.07	--	--	--	--	--	--	--	--	--	--	--	--
03/29/98	363.07	DISCONTINUED		--	--	--	--	--	--	--	--	--	--
09/29/99 ¹¹	363.07	337.75	25.32	26,700	3,770	844	1,290	2,970	<500	--	<40	<40	--
03/17/00	363.07	340.26	22.81	17,400	2,560	942	688	1,980	<1000	--	--	--	--
08/28/00	363.07	337.98	25.09	12,000 ¹⁵	2,700	220	530	750	140	--	--	--	--
02/25/01	363.07	338.77	24.30	8,700 ¹⁵	1,600	400	600	1,500	250	--	--	--	--
09/17/01	363.07	337.29	25.78	22,000	2,200	620	860	2,400	<50	--	--	--	--
03/25/02	363.07	340.55	22.52	5,400	720	53	230	390	<13	--	--	--	--
09/16/02 ⁵	363.07	337.90	25.17	16,000	2,000	180	630	1,800	39/<2 ⁶	--	<2	<2	--
03/18/03	363.07	339.66	23.41	10,000	1,400	110	490	1,100	<13/1 ⁶	--	--	--	--
09/18/03 ¹⁶	363.07	337.99	25.08	7,100	750	61	240	560	1	--	--	--	--
03/24/04 ¹⁶	363.07	340.18	22.89	16,000	1,600	170	720	2,000	1	--	--	--	--
09/16/04 ¹⁶	363.07	337.34	25.73	6,700	540	160	250	1,000	0.7	--	--	--	--
03/23/05 ¹⁶	363.07	341.91	21.16	8,900	550	75	470	1,500	1	--	--	--	--
09/02/05 ¹⁶	363.07	338.31	24.76	9,300	1,000	41	440	840	<1	--	--	--	--
03/24/06 ¹⁶	363.07	340.59	22.48	17,000	930	120	800	2,700	0.9	--	--	--	--
08/24/06 ¹⁶	363.07	338.03	25.04	10,000	1,000	29	350	590	<3	--	--	--	--
03/01/07 ¹⁶	362.88	339.89	22.99	4,300	240	25	130	460	<0.5	--	--	--	--
09/06/07 ¹⁶	362.88	337.57	25.31	4,900	230	11	170	420	<0.5	--	--	--	--
03/10/08 ¹⁶	362.88	340.75	22.13	870	8	0.7	8	32	<0.5	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-5542
 7007 San Ramon Road
 Dublin, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-4 (cont)													
09/02/08 ¹⁶	362.88	337.57	25.31	1,800	36	2	72	160	<0.5	--	--	--	--
03/18/09 ¹⁶	362.88	340.37	22.51	3,900	46	4	190	450	<0.5	--	--	--	--
09/01/09 ¹⁶	362.88	337.11	25.77	1,600	15	0.9	84	88	<0.5	--	--	--	--
03/03/10 ¹⁶	362.88	341.50	21.38	950	5	<0.5	15	9	<0.5	--	--	--	--
09/08/10 ¹⁶	362.88	338.90	23.98	1,400	15	0.7	62	16	<0.5	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-5542
 7007 San Ramon Valley Boulevard
 Dublin, California



Note: Non-detected points shown in hollow relief at their detection limit.

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-5542
 7007 San Ramon Road
 Dublin, California

WELL ID/ DATE	TOC ^c (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-11													
12/29/06 ¹⁷	357.39	335.25	22.14	190	<0.5	0.6	6	0.6	<0.5	--	--	--	--
03/01/07 ¹⁶	357.39	334.89	22.50	<50	0.8	2	0.7	3	<0.5	--	--	--	--
09/06/07 ¹⁶	357.39	333.99	23.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/10/08 ¹⁶	357.39	335.83	21.56	<50	<0.5	<0.5	<0.5	0.8	<0.5	--	--	--	--
09/02/08 ¹⁶	357.39	333.73	23.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/18/09 ¹⁶	357.39	336.46	20.93	<50	<0.5	0.5	<0.5	<0.5	<0.5	--	--	--	--
09/01/09 ¹⁶	357.39	333.84	23.55	<50	<0.5	0.5	<0.5	0.7	<0.5	--	--	--	--
03/03/10 ¹⁶	357.39	336.94	20.45	<50	<0.5	0.9	0.6	3	<0.5	--	--	--	--
09/08/10 ¹⁶	357.39	335.14	22.25	<50	<0.5	1	0.6	2	<0.5	--	--	--	--
MW-9													
07/06/94 ¹³	361.23	336.08	25.15	--	--	--	--	--	--	--	--	--	--
08/26/94	361.23	--	--	12,000	1,700	240	410	1,400	--	--	--	--	--
09/22/94	361.23	335.49	25.74	10,000	1,900	290	320	1,200	--	--	--	--	--
12/08/94	361.23	336.39	24.84	18,000	2,400	780	450	4,600	--	--	--	--	--
03/06/95	361.23	339.40	21.83	6,100	1,400	260	420	1,500	--	--	--	--	--
06/08/95	361.23	339.94	21.29	14,000	2,100	220	540	1,700	--	--	--	--	--
09/13/95	361.23	337.85	23.65	11,000	1,900	120	490	1,400	--	--	--	--	--
12/16/95	361.23	336.91	24.32	16,000	1,900	<0.5	680	1,200	<2.5	--	--	--	--
03/28/96	361.23	340.78	20.45	960	120	5.9	33	70	18	--	--	--	--
06/27/96	361.23	338.39	22.84	10,000	1,200	46	340	1,000	66	--	--	--	--
09/30/96	361.59	337.47	24.12	15,000	1,300	36	390	950	100	--	--	--	--
12/30/96	361.59	338.95	22.64	12,000	1,200	54	470	1,300	100	--	--	--	--
03/11/97	361.59	339.50	22.09	13,000	850	37	310	930	63	--	--	--	--
06/10/97	361.59	337.81	23.78	9,000	800	7.7	220	360	86	--	--	--	--
10/01/97	361.59	338.06	23.53	7,000	770	13	270	540	99	--	--	--	--
12/17/97	361.59	--	--	--	--	--	--	--	--	--	--	--	--
03/29/98	361.59	341.11	20.48	4,900	400	850	160	720	170	--	--	--	--
09/12/98	361.59	338.86	22.73	7,400	900	6.6	150	440	68	--	--	--	--
03/26/99	361.59	339.34	22.25	3,490	441	10.7	121	135	33.6	--	--	--	--
09/29/99	361.59	337.67	23.92	3,820	455	<20	66.5	46.6	<200	--	<2.0	<2.0	--
03/17/00	361.59	340.20	21.39	4,680	510	<10	146	528	<100	--	--	--	--
08/28/00	361.59	UNABLE TO LOCATE	--	--	--	--	--	--	--	--	--	--	--
02/25/01	361.59	UNABLE TO LOCATE	--	--	--	--	--	--	--	--	--	--	--
09/17/01	361.59	336.69	24.90	7,700	540	2.7	89	81	<20	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOC (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-9 (cont)													
03/25/02	361.59	339.78	21.81	8,000	730	4.4	120	380	<13	--	--	--	--
09/16/02	361.59	336.97	24.62	4,400	420	<5.0	25	29	19	--	--	--	--
03/18/03	361.59	339.08	22.51	3,600	510	<2.0	16	10	<10/1 ⁶	--	--	--	--
09/18/03 ¹⁶	361.59	337.34	24.25	5,300	530	0.8	32	29	1	--	--	--	--
03/24/04 ¹⁶	361.59	339.35	22.24	4,500	290	0.6	17	31	0.9	--	--	--	--
09/16/04 ¹⁶	361.59	336.66	24.93	4,000	400	5	11	10	<1	--	--	--	--
03/23/05 ¹⁶	361.59	341.11	20.48	5,100	190	0.6	21	29	1	--	--	--	--
09/02/05 ¹⁶	361.59	337.53	24.06	4,700	340	0.5	9	6	0.9	--	--	--	--
03/24/06	361.59	INACCESSIBLE - POSSIBLY DESTROYED				--	--	--	--	--	--	--	--
DESTROYED - 2006													
MW-10													
06/27/96	358.02	--	20.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
09/30/96	358.02	335.99	22.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/30/96	358.02	337.46	20.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	358.02	338.09	19.93	<50	<0.5	<0.5	<0.5	<0.5	7.0	--	--	--	--
06/10/97	358.02	336.37	21.65	<50	<0.5	<0.5	<0.5	<0.5	5.3	--	--	--	--
10/01/97	358.02	335.50	22.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/17/97	358.02	--	--	--	--	--	--	--	--	--	--	--	--
03/29/98	358.02	340.55	17.47	<50	<0.5	<0.5	<0.5	<0.5	4.3	--	--	--	--
09/12/98	358.02	337.39	20.63	<50	<0.5	<0.5	<0.5	<0.5	3.8	--	--	--	--
03/26/99	358.02	337.98	20.04	<50	<0.5	<0.5	<0.5	<0.5	4.15	--	--	--	--
09/29/99	358.02	336.30	21.72	5,020	547	<10	79.6	49.5	<100	--	--	--	--
03/17/00	358.02	338.67	19.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
08/28/00	358.02	335.88	22.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
02/25/01	358.02	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
09/17/01	358.02	335.41	22.61	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
03/25/02	358.02	338.64	19.38	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
09/16/02	358.02	335.68	22.34	<50	<0.50	<0.50	<0.50	<1.5	3.1	--	--	--	--
03/18/03	358.02	338.11	19.91	<50	<0.50	<0.50	<0.50	<1.5	<2.5/2 ⁶	--	--	--	--
09/18/03 ¹⁶	358.02	336.10	21.92	<50	<0.5	<0.5	<0.5	<0.5	2	--	--	--	--
03/24/04 ¹⁶	358.02	338.18	19.84	<50	<0.5	<0.5	<0.5	<0.5	0.5	--	--	--	--
09/16/04 ¹⁶	358.02	335.39	22.63	<50	<0.5	<0.5	<0.5	<0.5	0.9	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (fL)	TPH-CRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-10 (cont)													
03/23/05 ¹⁶	358.02	339.73	18.29	<50	<0.5	<0.5	<0.5	<0.5	0.7	--	--	--	--
09/02/05 ¹⁶	358.02	336.30	21.72	<50	<0.5	<0.5	<0.5	<0.5	0.8	--	--	--	--
03/24/06	358.02	INACCESSIBLE - POSSIBLY DESTROYED				--	--	--	--	--	--	--	--
DESTROYED - 2006													
MW-5													
06/21/91	359.95	336.78	23.17	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/21/91	359.95	--	--	--	--	--	--	--	--	--	<0.5	--	ND ³
07/17/91	359.95	336.27	23.68	--	--	--	--	--	--	--	--	--	--
09/20/91	359.95	--	--	170 ⁷	0.8	0.9	<0.5	1.5	--	--	--	--	--
10/04/91	359.95	334.75	25.20	--	--	--	--	--	--	--	--	--	--
12/19/91	359.95	334.75	25.20	<50	0.7	0.7	<0.5	1.4	--	--	--	--	--
03/19/92	359.95	338.74	21.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/19/92	360.28	336.86	23.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/22/92	360.28	335.31	24.97	150	13	34	5.0	26	--	--	--	--	--
12/18/92	360.28	336.76	23.52	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/10/93	360.28	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/22/93	360.28	341.18	19.10	--	--	--	--	--	--	--	--	--	--
06/14/93	360.28	337.57	22.71	--	--	--	--	--	--	--	--	--	--
07/25/93	360.28	338.29	21.99	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/23/93	360.28	336.80	23.48	<50	3.0	1.0	1.0	2.0	--	--	--	--	--
12/22/93	360.28	336.30	23.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/21/94	360.28	337.10	23.18	<50	2.4	1.4	<0.5	2.0	--	--	--	--	--
06/29/94	360.28	--	--	<50	<0.5	<0.5	<0.5	1.0	--	--	--	--	--
07/06/94	360.28	335.87	24.41	--	--	--	--	--	--	--	--	--	--
09/22/94	360.28	335.50	24.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/08/94	360.28	336.86	23.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/06/95	360.28	339.63	20.65	67	1.9	2.5	4.7	19	--	--	--	--	--
06/08/95	360.28	339.52	20.76	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/13/95	360.28	337.12	23.16	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/16/95	360.28	INACCESSIBLE -PAVED OVER				--	--	--	--	--	--	--	--
03/28/96	360.28	INACCESSIBLE -PAVED OVER				--	--	--	--	--	--	--	--
06/27/96	360.28	INACCESSIBLE -PAVED OVER				--	--	--	--	--	--	--	--
09/30/96	360.28	INACCESSIBLE -PAVED OVER				--	--	--	--	--	--	--	--
12/30/96	360.28	INACCESSIBLE -PAVED OVER				--	--	--	--	--	--	--	--
03/11/97	360.28	INACCESSIBLE -PAVED OVER				--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-5 (cont)													
06/10/97	360.28	INACCESSIBLE -PAVED OVER		--	--	--	--	--	--	--	--	--	--
10/01/97	360.28	INACCESSIBLE -PAVED OVER		--	--	--	--	--	--	--	--	--	--
12/17/97	360.28	DISCONTINUED		--	--	--	--	--	--	--	--	--	--
03/26/99	360.28	INACCESSIBLE -PAVED OVER		--	--	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED													
MW-6													
06/21/91	360.22	336.67	23.55	3,700	50	2.6	150	340	--	--	--	--	--
06/21/91	360.22	--	--	--	--	--	--	--	--	--	<0.5	--	ND ³
07/17/91	360.22	336.22	24.00	--	--	--	--	--	--	--	--	--	--
09/20/91	360.22	--	--	3,200	28	<0.5	140	100	--	--	--	--	--
10/04/91	360.22	334.93	25.29	--	--	--	--	--	--	--	--	--	--
12/19/91	360.22	334.88	25.34	380	2.7	4.0	15	10	--	--	--	--	--
03/19/92	360.22	338.17	22.05	3,400	57	4.5	330	360	--	--	--	--	--
06/19/92	360.58	337.06	23.52	980	11	4.2	57	38	--	--	--	--	--
09/22/92	360.58	334.98	25.60	1,100	22	41	77	58	--	--	--	--	--
12/18/92	360.58	336.40	24.18	1,900	3.2	1.3	58	47	--	--	--	--	--
03/10/93	360.58	--	--	1,400	30	9.0	8.0	22	--	--	--	--	--
03/22/93	360.58	341.22	19.36	--	--	--	--	--	--	--	--	--	--
06/14/93	360.58	337.10	23.48	--	--	--	--	--	--	--	--	--	--
07/25/93	360.58	338.28	22.30	83 ¹²	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/23/93	360.58	337.38	23.20	200	6.0	2.0	3.0	3.0	--	--	--	--	--
12/22/93	360.58	336.67	23.91	130	<0.5	1.8	1.2	1.5	--	--	--	--	--
03/21/94	360.58	337.31	23.27	290	3.0	10	1.6	4.7	--	--	--	--	--
06/29/94	360.58	--	--	300	0.6	1.2	2.4	4.6	--	--	--	--	--
07/06/94	360.58	336.31	24.27	--	--	--	--	--	--	--	--	--	--
09/22/94	360.58	335.74	24.84	2,300	58	3.6	100	290	--	--	--	--	--
12/08/94	360.58	336.73	23.85	<50	<0.5	<0.5	<0.5	0.9	--	--	--	--	--
03/06/95	360.58	339.67	20.91	360	2.0	3.6	0.9	2.3	--	--	--	--	--
06/08/95	360.58	340.40	20.18	230	<0.5	<0.5	1.0	1.6	--	--	--	--	--
09/13/95	360.58	337.05	23.53	88	<0.5	<0.5	<0.5	1.1	--	--	--	--	--
12/16/95	360.58	337.20	23.38	<50	<0.5	<0.5	<0.5	<0.5	7.3	--	--	--	--
03/28/96	360.58	341.21	19.37	130	<0.5	<0.5	<0.5	<0.5	9.2	--	--	--	--
06/27/96	360.58	338.92	21.66	<50	<0.5	<0.5	<0.5	<0.5	5.7	--	--	--	--
09/30/96	360.58	337.52	23.06	50	<0.5	<0.5	<0.5	<0.5	6.3	--	--	--	--
12/30/96	360.58	339.12	21.46	90	<0.5	<0.5	<0.5	<0.5	5.5	--	--	--	--

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Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* (µL)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-6 (cont)													
03/11/97	360.58	339.67	20.91	80	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/10/97	360.58	337.93	22.65	<50	1.6	2.3	<0.5	1.2	<5.0	--	--	--	--
10/01/97	360.58	336.95	23.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/17/97	360.58	337.81	22.77	92	0.98	<0.5	0.72	1.6	2.7	--	--	--	--
03/29/98	360.58	342.24	18.34	95 ⁷	<0.5	<0.5	<0.5	<0.5	3.0	--	--	--	--
09/12/98	360.58	338.90	21.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/26/99	360.58	339.42	21.16	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--
09/29/99	360.58	337.73	22.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
DESTROYED - 2006													
MW-7													
06/21/91	360.63	337.18	23.45	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/21/91	360.63	--	--	--	--	--	--	--	--	--	<0.5	--	ND ³
07/17/91	360.63	336.73	23.90	--	--	--	--	--	--	--	--	--	--
09/20/91	360.63	--	--	69	4.4	3.3	1.2	3.9	--	--	--	--	--
10/04/91	360.63	335.60	25.03	--	--	--	--	--	--	--	--	--	--
12/19/91	360.63	335.53	25.10	<50	0.9	2.8	1.7	5.9	--	--	--	--	--
03/19/92	360.63	337.89	22.74	<50	1.1	0.6	0.9	2.5	--	--	--	--	--
06/19/92	360.99	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--
09/22/92	360.99	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--
12/18/92	360.99	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--
03/22/93	360.99	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--
06/14/93	360.99	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--
07/25/93	360.99	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--
12/23/93 ¹	361.68	338.01	23.67	<50	0.9	0.5	<0.5	<0.5	--	--	--	--	--
03/21/94	361.68	337.55	24.13	<50	0.5	1.1	<0.5	1.4	--	--	--	--	--
06/29/94	361.68	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/06/94	361.68	335.23	26.45	--	--	--	--	--	--	--	--	--	--
09/22/94	361.68	334.28	27.40	11,000	1,900	230	310	970	--	--	--	--	--
12/08/94	361.68	335.45	26.23	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/06/95	361.68	338.49	23.19	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/08/95	361.68	339.54	22.14	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/13/95	361.68	337.13	24.55	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/16/95	361.68	335.94	25.74	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/28/96	361.68	339.96	21.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/27/96	361.68	338.18	23.50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--

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Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
MW-7 (cont)													
09/30/96	361.68	336.48	25.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/30/96	361.68	337.80	23.88	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	361.68	338.69	22.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/10/97	361.68	336.98	24.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
10/01/97	361.68	335.98	25.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
DESTROYED - 2006													
MW-8													
12/12/91	354.89	--	22.54	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/19/92	354.89	334.42	20.47	<50	1.2	1.4	0.5	2.9	--	--	--	--	--
09/22/92	354.89	325.09	29.80	180	17	42	6.0	31	--	--	--	--	--
12/18/92	354.89	333.71	21.18	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/10/93	354.89	--	--	<50	0.8	2.0	<0.5	2.0	--	--	--	--	--
03/22/93	354.89	337.98	16.91	--	--	--	--	--	--	--	--	--	--
06/14/93	354.89	330.59	24.30	--	--	--	--	--	--	--	--	--	--
07/25/93	354.89	331.12	23.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/23/93	354.89	334.49	20.40	<50	1.0	0.9	0.7	1.0	--	--	--	--	--
12/22/93	354.89	333.97	20.92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/21/94	354.89	334.70	20.19	<50	0.9	1.5	<0.5	2.0	--	--	--	--	--
06/29/94	354.89	--	--	<50	<0.5	<0.5	<0.5	0.8	--	--	--	--	--
07/06/94	354.89	333.84	21.05	--	--	--	--	--	--	--	--	--	--
09/22/94	354.89	333.05	21.84	9,600	1,600	180	260	840	--	--	--	--	--
10/14/94	354.89	333.05	21.84	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/08/94	354.89	334.18	20.71	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/06/95	354.89	336.78	18.11	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/08/95	354.89	337.10	17.79	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/13/95	354.89	335.09	19.80	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/16/95	354.89	334.43	20.46	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/28/96	354.89	339.47	15.42	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/27/96	354.89	335.81	19.08	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
09/30/96	360.58	340.28	20.30	<50	<0.5	<0.5	<0.5	0.6	<5.0	--	--	--	--
12/30/96	360.58	341.55	19.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	360.58	342.17	18.41	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/10/97	360.58	340.67	19.91	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
10/01/97	360.58	339.87	20.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
DESTROYED - 2006													

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Dublin, California

WELL ID/ DATE	TOC* ($\mu\text{g/L}$)	GWE (msl)	DTW (ft)	TPH-GRO ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TOG ($\mu\text{g/L}$)	1,2-DCA ($\mu\text{g/L}$)	EDB ($\mu\text{g/L}$)	HVOCs ($\mu\text{g/L}$)
BAILER BLANK													
05/31/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/21/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/20/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/19/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/19/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/19/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/22/92	--	--	--	<50	<0.5	<0.5	<0.5	0.8	--	--	--	--	--
12/21/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/10/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
TRIP BLANK													
03/22/93	--	--	--	<50	<0.5	<0.5	<0.5	0.6	--	--	--	--	--
07/25/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/23/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/22/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/21/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
05/31/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/21/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/20/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/19/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/19/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/19/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/22/92	--	--	--	92 ¹⁴	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/18/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/10/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/22/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/25/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/23/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/22/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/21/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/29/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/01/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/06/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/22/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/08/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/06/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--

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TRIP BLANK (cont)													
06/08/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/13/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/16/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/28/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/27/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
09/30/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/30/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/10/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
10/01/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/17/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/29/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
09/12/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/26/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--
09/29/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
08/28/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
02/25/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
09/17/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
03/25/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
09/16/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
03/18/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
09/18/03 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/24/04 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/16/04 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/23/05 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/02/05 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/24/06 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
08/24/06 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
QA													
12/29/06 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/01/07 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/06/07 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/10/08 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-5542
 7007 San Ramon Road
 Dublin, California

WELL ID/ DATE	TOC ^c (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOCs (µg/L)
QA (cont)													
09/02/08 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/18/09 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/01/09 ¹⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
DISCONTINUED													

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

EXPLANATIONS:

Groundwater monitoring and laboratory analytical results prior to August 28, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing	B = Benzene	EDB = Ethylene dibromide
(ft.) = Feet	T = Toluene	HVOCs = Halogenated Volatile Organic Compounds
GWE = Groundwater Elevation	E = Ethylbenzene	-- = Not Measured/Not Analyzed
(msl) = Mean sea level	X = Xylenes	(D) = Duplicate
DTW = Depth to Water	MTBE = Methyl tertiary butyl ether	(µg/L) = Micrograms per liter
TPH = Total Petroleum Hydrocarbons	TOG = Total Oil and Grease	(ppb) = Parts per billion
GRO = Gasoline Range Organics	1,2-DCA = 1,2-Dichloroethane	QA = Quality Assurance/Trip Blank

- * TOC elevations for MW-1, MW-4, and MW-11 were surveyed on January 3, 2007, by Virgil Chaves Land Surveying. The benchmark for this survey was a bronze disk established by the USGS, located under a manhole cover in the left turn lane in front of Mervyn's on Dublin Blvd. Benchmark Elevation = 347.622 feet (NGVD 29).
- ¹ TOC elevation surveyed by Ron Miller, PE #15816, on January 13, 1994.
- ² Monitoring well part of remediation system.
- ³ All other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.
- ⁴ Sample analyzed for Volatile Organic Compounds (VOCs) by EPA method 8260. MTBE was detected at 10.1 ppb, and all other VOCs were ND ranging from <2.0 to <1000 ppb.
- ⁵ Oxygenate compounds were not detected.
- ⁶ MTBE by EPA Method 8260.
- ⁷ Chromatogram pattern indicated an unidentified hydrocarbon.
- ⁸ Chloroform and Bromodichloromethane were detected at 1.3 and 0.9 ppb, respectively. Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.
- ⁹ TPH-GRO and BTEX results are estimated concentrations. Due to laboratory error, sample was analyzed past the recommended holding time. (GTEL).
- ¹⁰ Laboratory report indicates uncategorized compound is not included in gasoline concentration.
- ¹¹ Sampled analyzed for VOCs by EPA method 8260, all other results were ND ranging from <40 to <20,000 ppb.
- ¹² Uncategorized compound not included in gasoline total.
- ¹³ Monitoring well surveyed by Ron Miller, PE #15816, on July 5, 1994.
- ¹⁴ Gasoline range concentration reported. The chromatogram shows only a single peak in the gasoline range.
- ¹⁵ Laboratory report indicates gasoline C6-C12.
- ¹⁶ BTEX and MTBE by EPA Method 8260.
- ¹⁷ Well development attempted; well dewatered.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Chevron Service Station #9-5542
 7007 San Ramon Road
 Dublin, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1	03/18/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	09/18/03	<200	--	<2	--	--	--
	03/24/04	<50	--	<0.5	--	--	--
	09/16/04	<130	--	<1	--	--	--
	03/23/05	<50	--	<0.5	--	--	--
	09/02/05	<50	--	<0.5	--	--	--
	03/24/06	<50	--	<0.5	--	--	--
	08/24/06	<50	--	<0.5	--	--	--
	03/01/07	<500	--	<5	--	--	--
	09/06/07	<130	--	<1	--	--	--
	03/10/08	<500	--	<5	--	--	--
	09/02/08	<250	--	<3	--	--	--
	03/18/09	<250	--	<3	--	--	--
	09/01/09	--	--	<0.5	--	--	--
	03/03/10	--	--	<5	--	--	--
09/08/10	--	--	<10	--	--	--	
MW-4	09/18/03	<50	--	1	--	--	--
	03/24/04	<100	--	1	--	--	--
	09/16/04	<50	--	0.7	--	--	--
	03/23/05	<50	--	1	--	--	--
	09/02/05	<100	--	<1	--	--	--
	03/24/06	<50	--	0.9	--	--	--
	08/24/06	<250	--	<3	--	--	--
	03/01/07	<50	--	<0.5	--	--	--
	09/06/07	<50	--	<0.5	--	--	--
	03/10/08	<50	--	<0.5	--	--	--
	09/02/08	<50	--	<0.5	--	--	--
	03/18/09	<50	--	<0.5	--	--	--
	09/01/09	--	--	<0.5	--	--	--
	03/03/10	--	--	<0.5	--	--	--
	09/08/10	--	--	<0.5	--	--	--

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-11	12/29/06	<50	--	<0.5	--	--	--
	03/01/07	<50	--	<0.5	--	--	--
	09/06/07	<50	--	<0.5	--	--	--
	03/10/08	<50	--	<0.5	--	--	--
	09/02/08	<50	--	<0.5	--	--	--
	03/18/09	<50	--	<0.5	--	--	--
	09/01/09	--	--	<0.5	--	--	--
	03/03/10	--	--	<0.5	--	--	--
	09/08/10	--	--	<0.5	--	--	--
MW-2	03/18/03	<100	<10	1	<1	<1	<1
MW-9	03/18/03	<50	<5	1	<0.5	<0.5	<0.5
	09/18/03	<50	--	1	--	--	--
	03/24/04	<50	--	0.9	--	--	--
	09/16/04	<100	--	<1	--	--	--
	03/23/05	<50	--	1	--	--	--
	09/02/05	<50	--	0.9	--	--	--
	03/24/06	INACCESSIBLE/POSSIBLY DESTROYED			--	--	--
DESTROYED - 2006							
MW-10	03/18/03	<50	<5	2	<0.5	<0.5	<0.5
	09/18/03	<50	--	2	--	--	--
	03/24/04	<50	--	0.5	--	--	--
	09/16/04	<50	--	0.9	--	--	--
	03/23/05	<50	--	0.7	--	--	--
	09/02/05	<50	--	0.8	--	--	--
	03/24/06	INACCESSIBLE/POSSIBLY DESTROYED			--	--	--
DESTROYED - 2006							

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California

EXPLANATIONS:

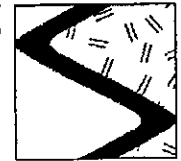
TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether
($\mu\text{g/L}$) = Micrograms per liter
(D) = Duplicate
-- = Not Analyzed

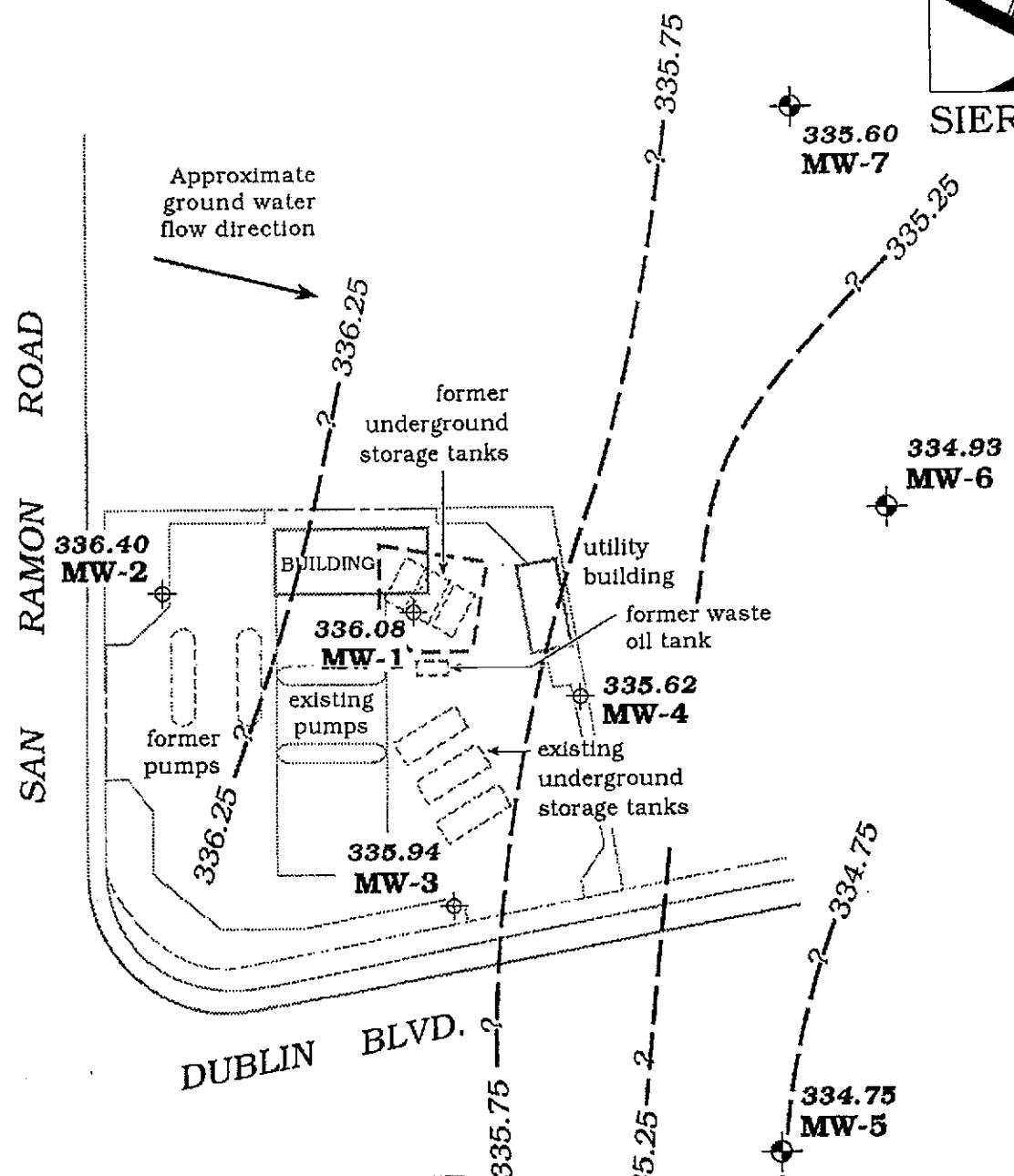
ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

ATTACHMENT C
HISTORICAL POTENTIOMETRIC MAPS

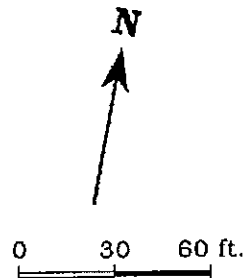


SIERRA



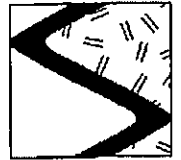
EXPLANATION

- ⊕ MW-4 Existing monitoring well
- ⊕ MW-7 Monitoring well installed by SES
- 335.60 Ground water elevation, in feet
- 335.75 Ground water elevation contour, dashed where inferred, queried where uncertain
- Excavated area



Base map after Chemical Processors, Inc.

Figure 2. Monitoring Well Location and Ground Water Elevation Contour Map - October 4, 1991 - Chevron Service Station #9-5542 - 7007 San Ramon Road, Dublin, California

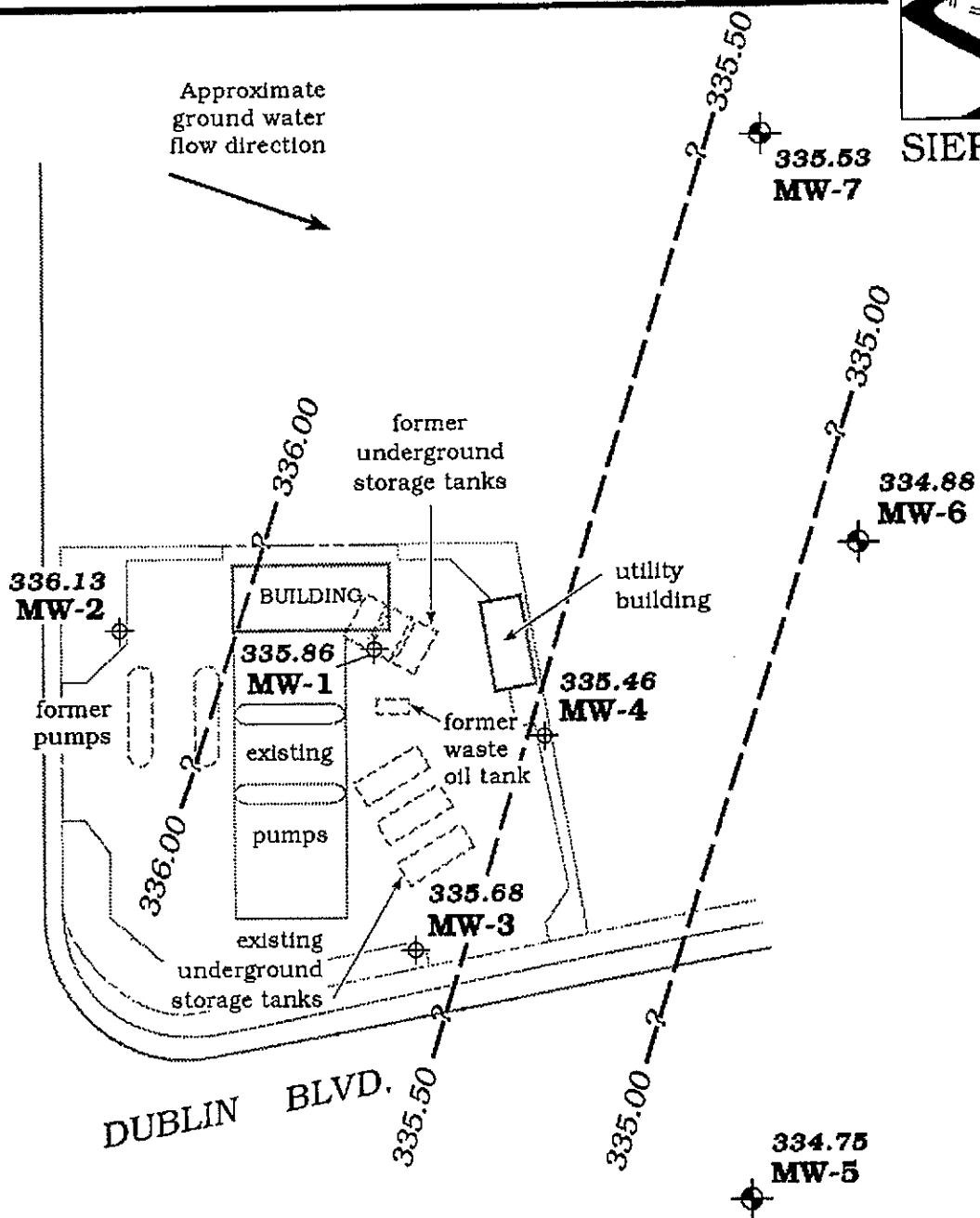


SIERRA

Approximate ground water flow direction



SAN RAMON ROAD



EXPLANATION

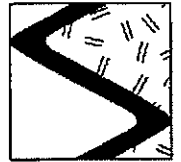
- ⊕ MW-4 Monitoring well installed by previous consultant
- ⊕ MW-7 Monitoring well installed by SES
- 335.53 Ground water elevation, in feet
- 336.00 Ground water elevation contour, dashed where inferred, queried where uncertain



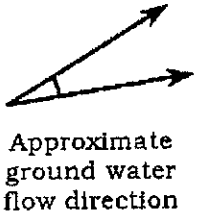
0 30 60 ft.

Base map after Chemical Processors, Inc.

Figure 2. Monitoring Well Location and Ground Water Elevation Contour Map - December 19, 1991 - Chevron Service Station #9-5542 - 7007 San Ramon Road, Dublin, California

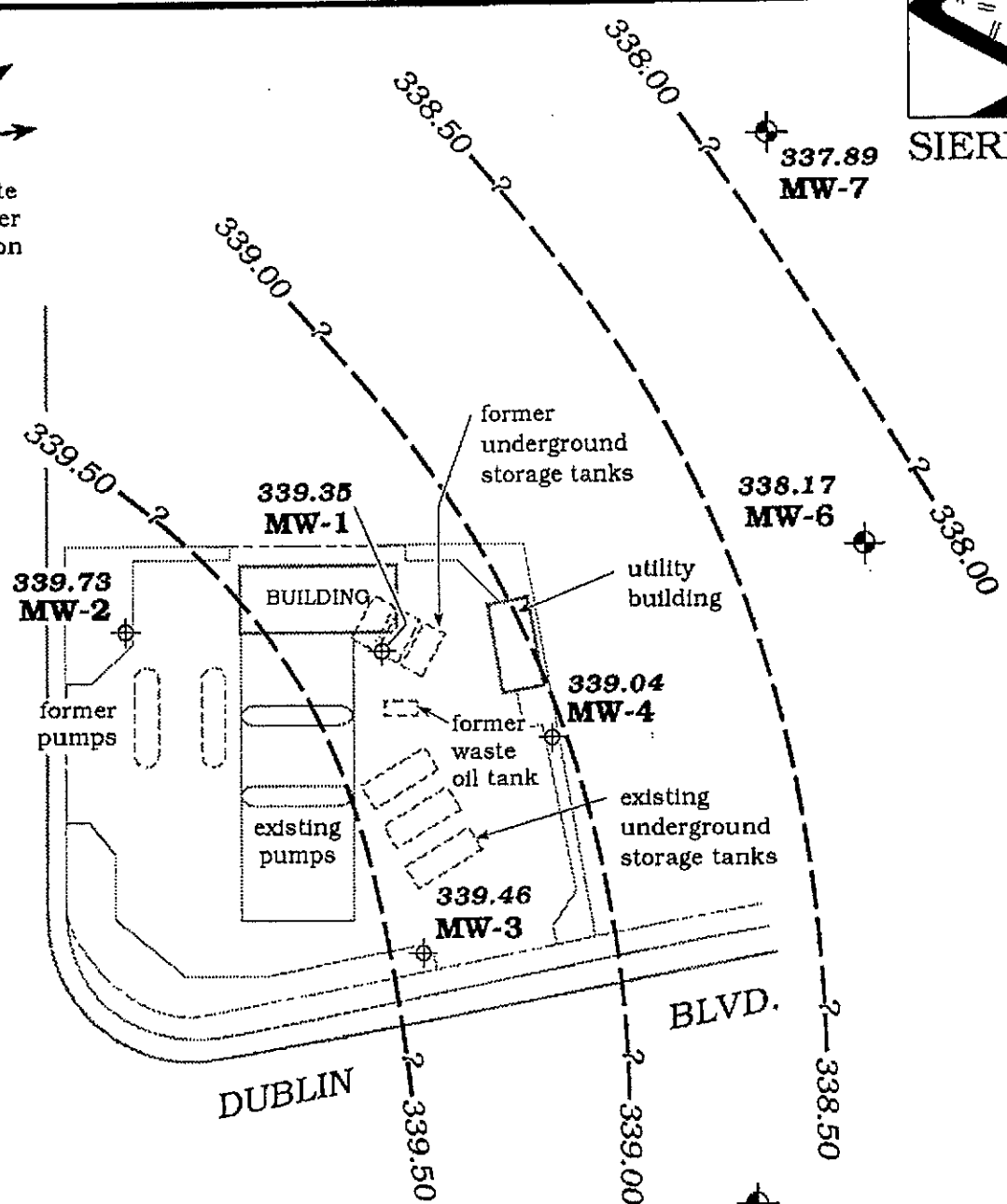


SIERRA






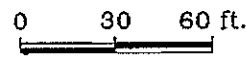
Approximate ground water flow direction

SAN RAMON ROAD



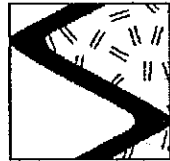
EXPLANATION

-  **MW-4** Monitoring well installed by previous consultant
-  **MW-7** Monitoring well installed by SES
- 337.89** Ground water elevation, in feet
-  **339.00** Ground water elevation contour, dashed where inferred, queried where uncertain



Base map after Chemical Processors, Inc.

Figure 2. Monitoring Well Locations and Ground Water Elevation Contour Map - March 19, 1992 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



SIERRA

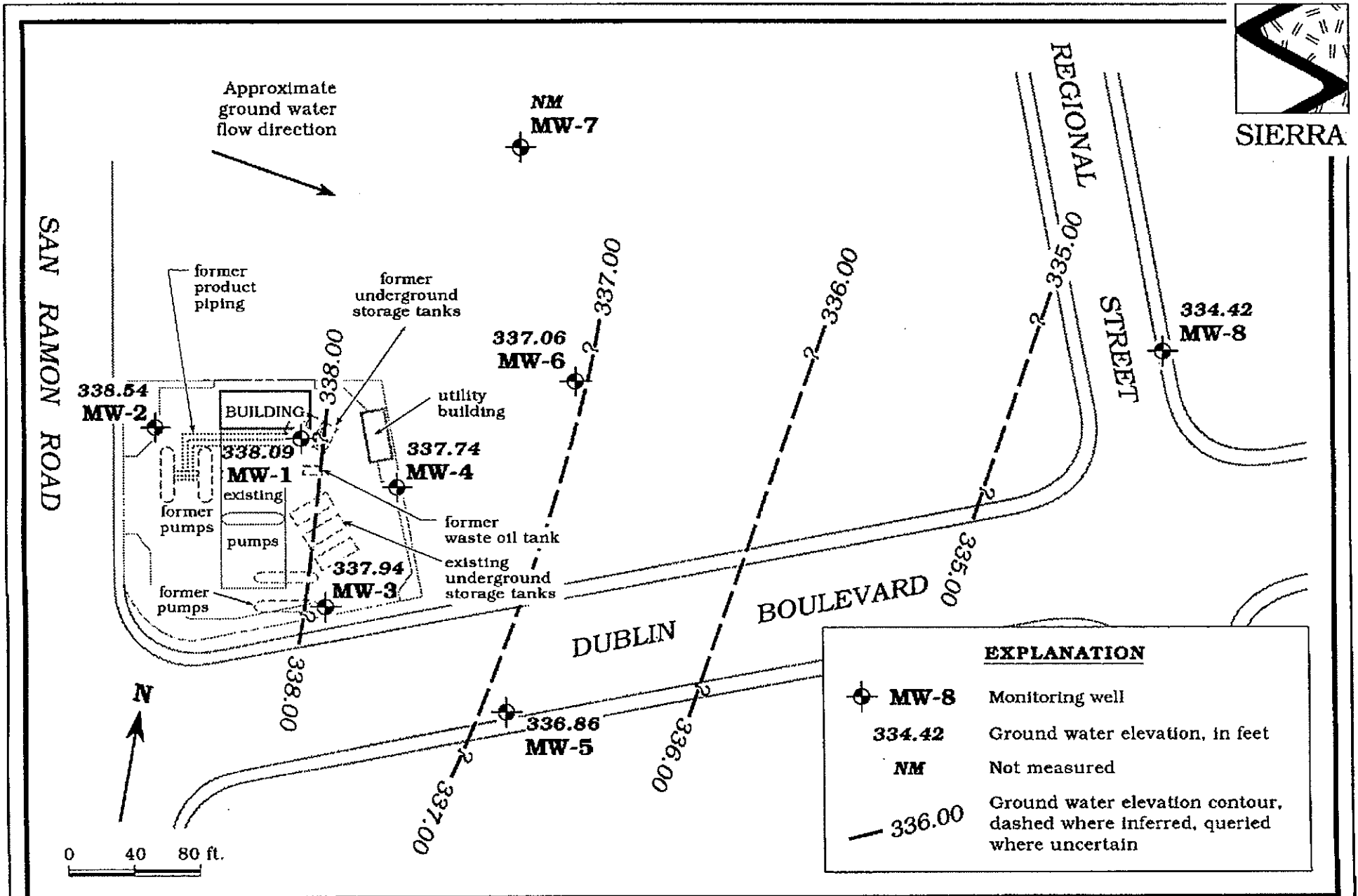
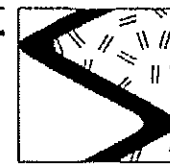


Figure 2. Monitoring Well Location and Ground Water Elevation Contour Map - June 19, 1992 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



SIERRA

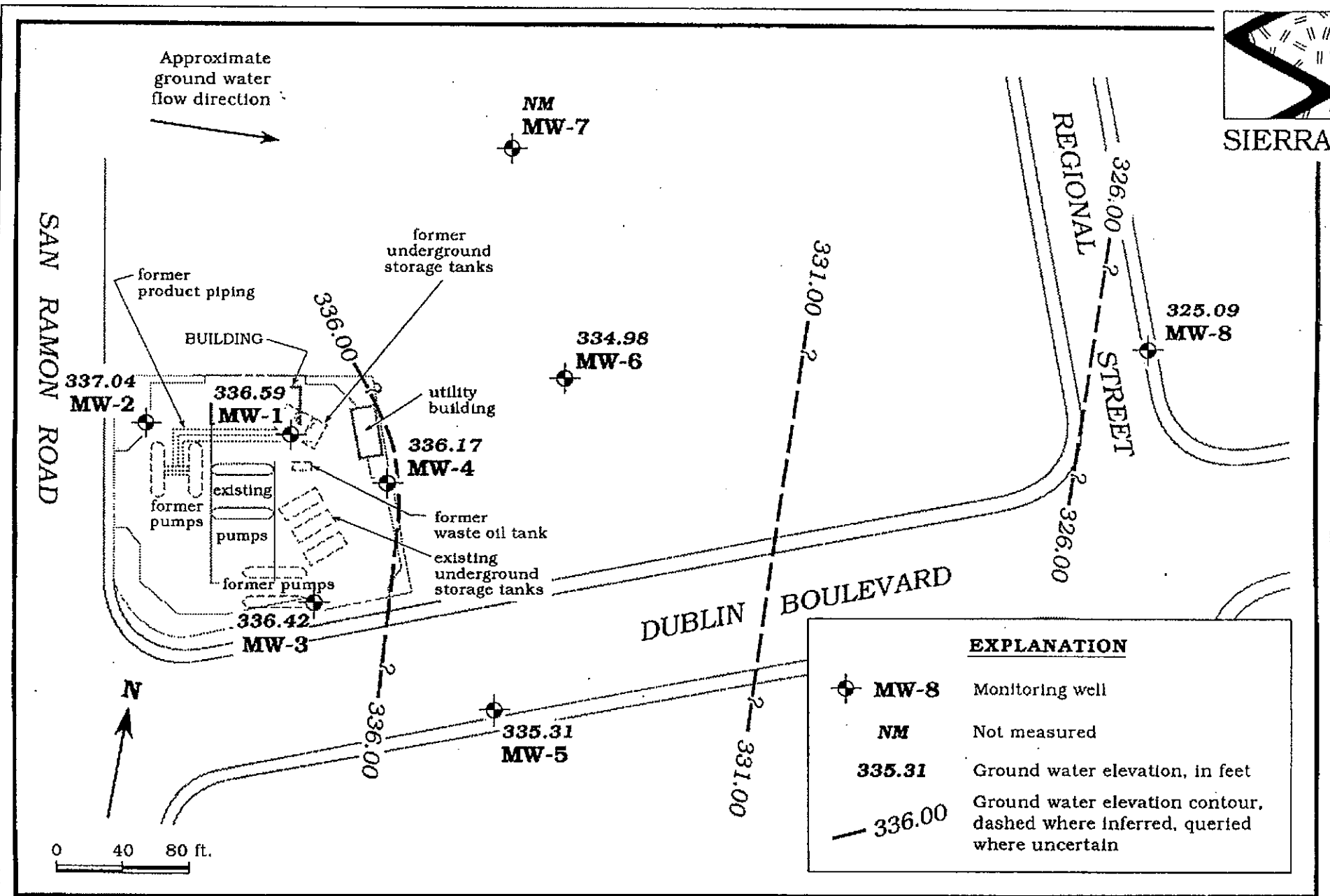
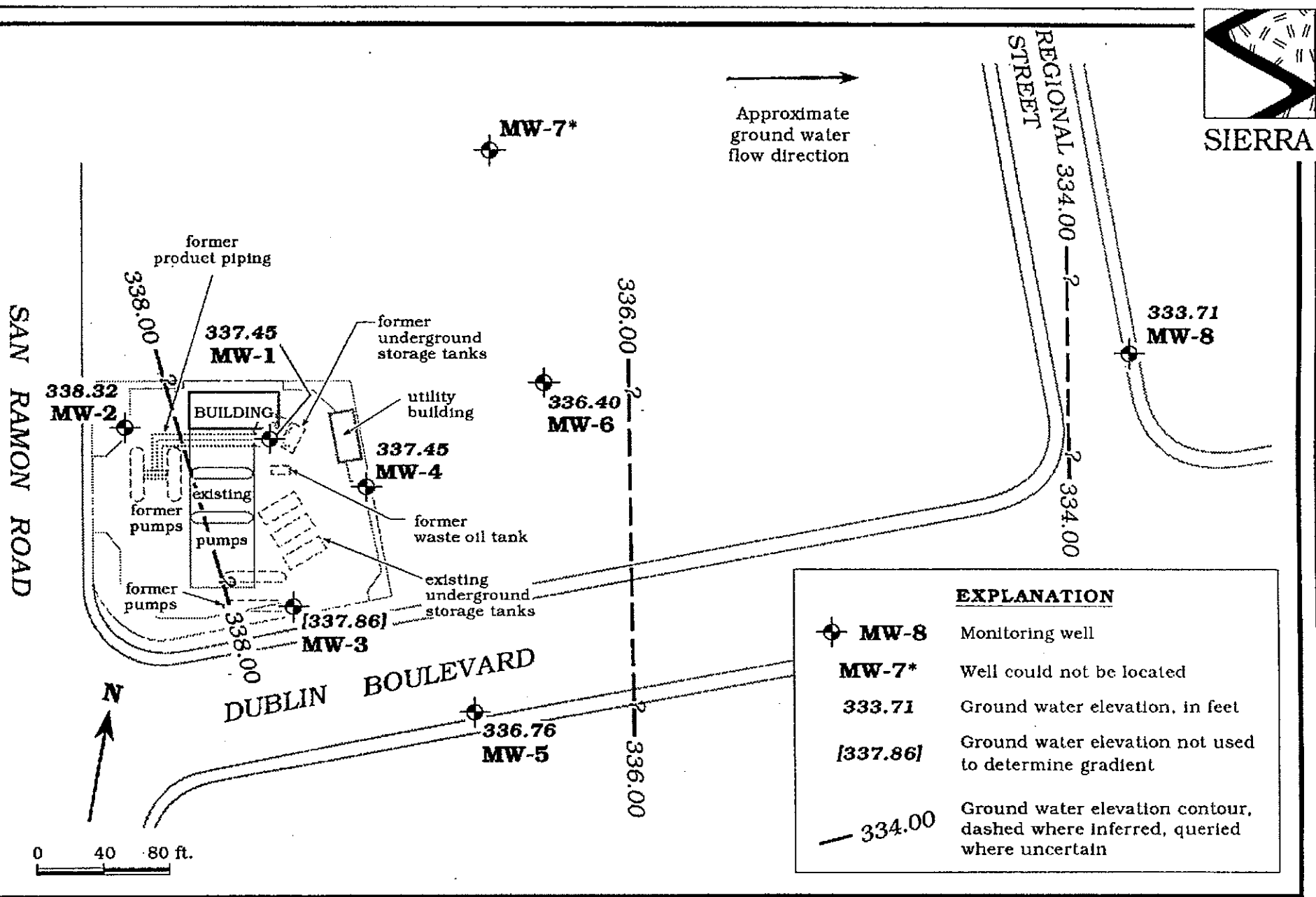


Figure 2. Monitoring Well Location and Ground Water Elevation Contour Map - September 22, 1992 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



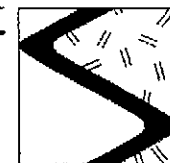
SIERRA

Approximate ground water flow direction



EXPLANATION	
	MW-8 Monitoring well
MW-7*	Well could not be located
333.71	Ground water elevation, in feet
[337.86]	Ground water elevation not used to determine gradient
	Ground water elevation contour, dashed where inferred, queried where uncertain

Figure 2. Monitoring Well Location and Ground Water Elevation Contour Map - December 18, 1992 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



SIERRA

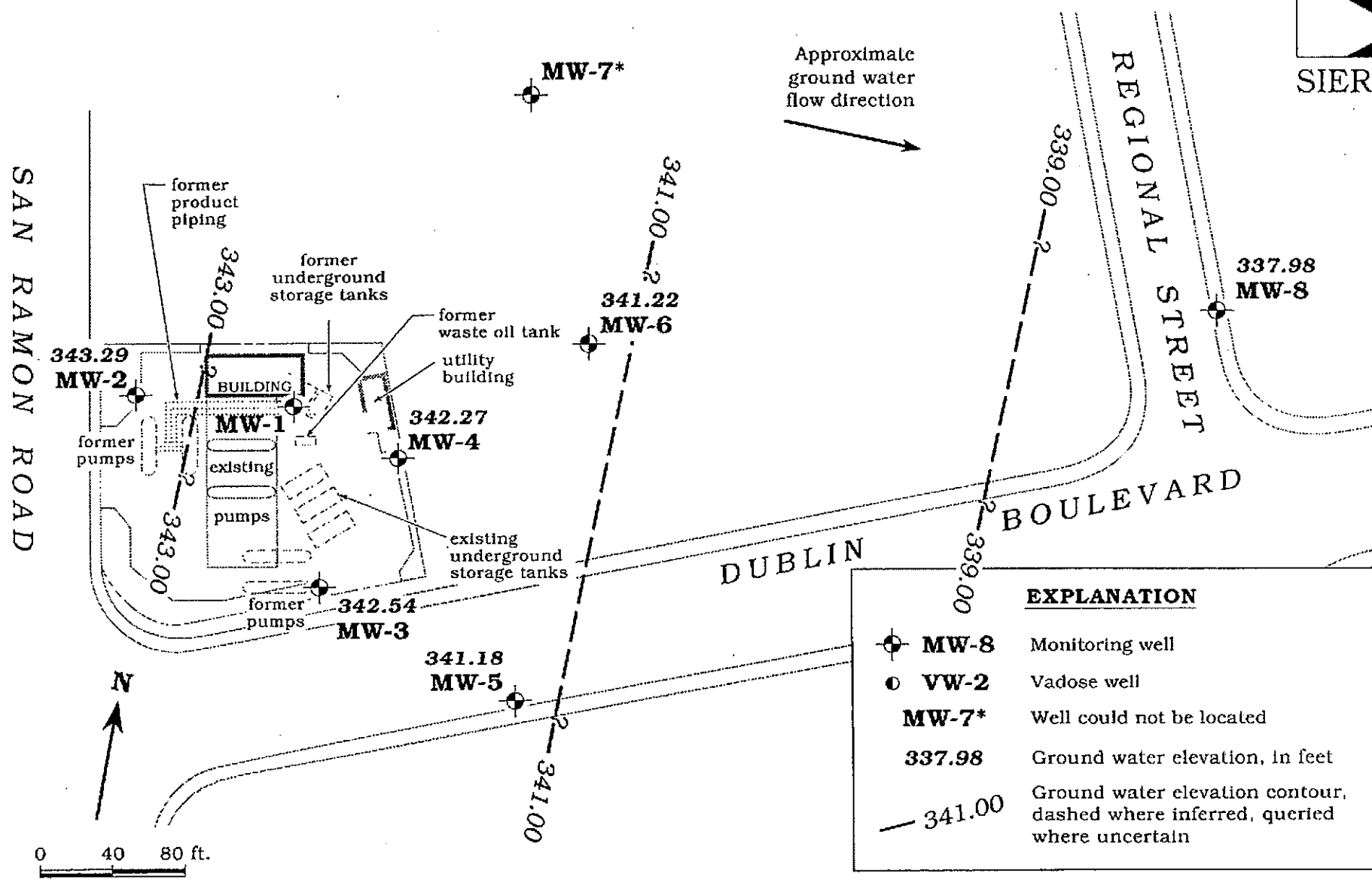
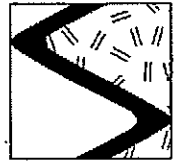
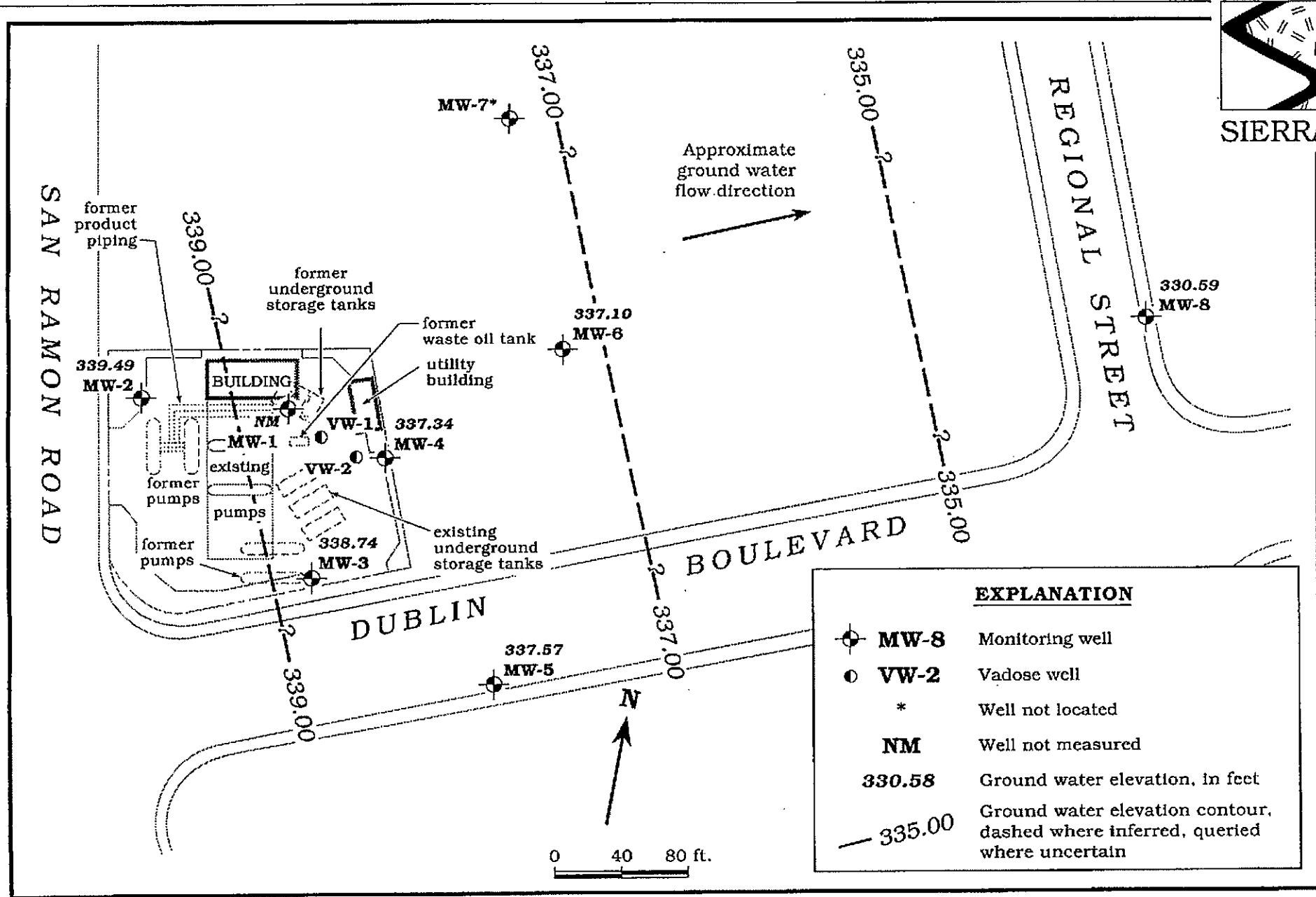


Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - March 22, 1993 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



SIERRA



<u>EXPLANATION</u>	
	MW-8 Monitoring well
	VW-2 Vadose well
*	Well not located
NM	Well not measured
330.58	Ground water elevation, in feet
- 335.00	Ground water elevation contour, dashed where inferred, queried where uncertain

Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - June 14, 1993 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



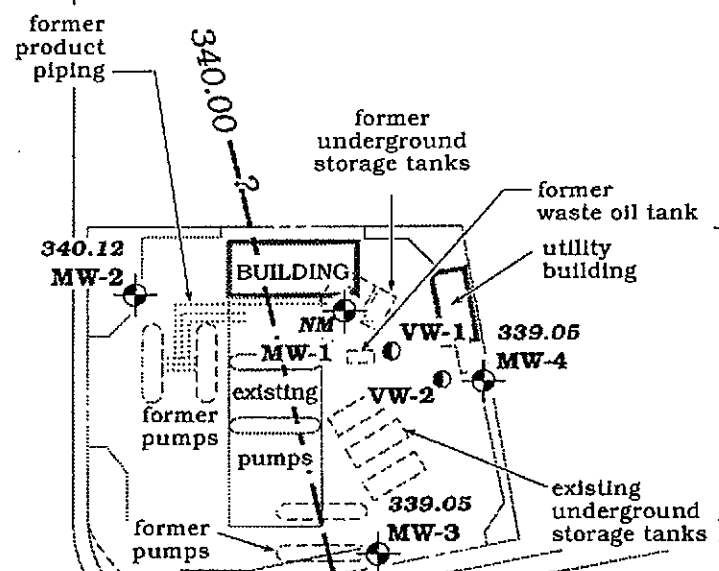
SIERRA

Approximate
ground water
flow direction

SAN RAMON ROAD

REGIONAL STREET

DUBLIN BOULEVARD



EXPLANATION	
	MW-8 Monitoring well
	VW-2 Vadose well
*	Well not located
NM	Not measured
331.12	Ground water elevation, in feet
- 338.00	Ground water elevation contour, dashed where inferred, queried where uncertain

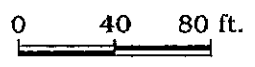
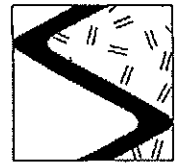


Figure 2. Monitoring Well Location and Ground Water Elevation Contour Map - July 25, 1993 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



SIERRA

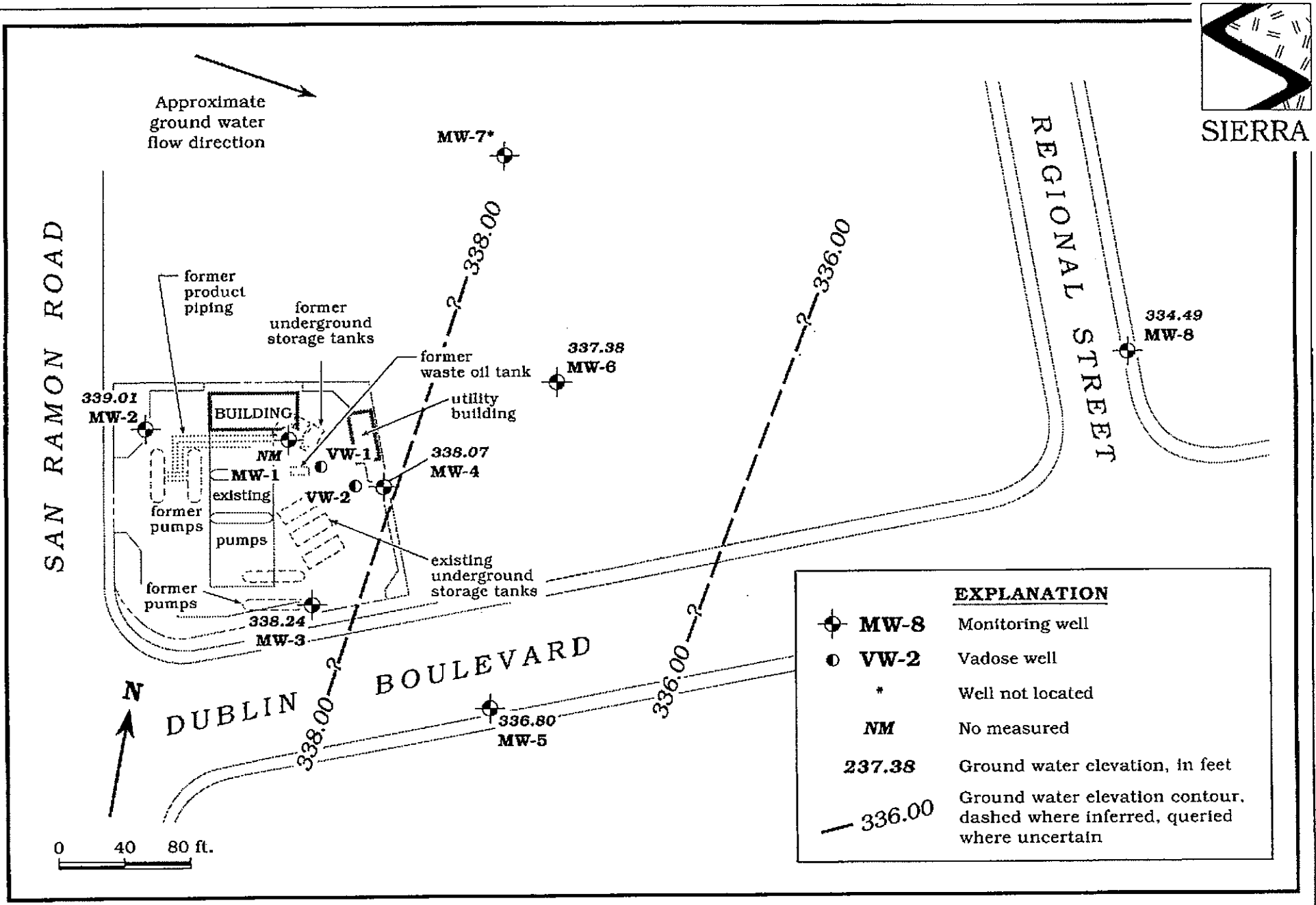
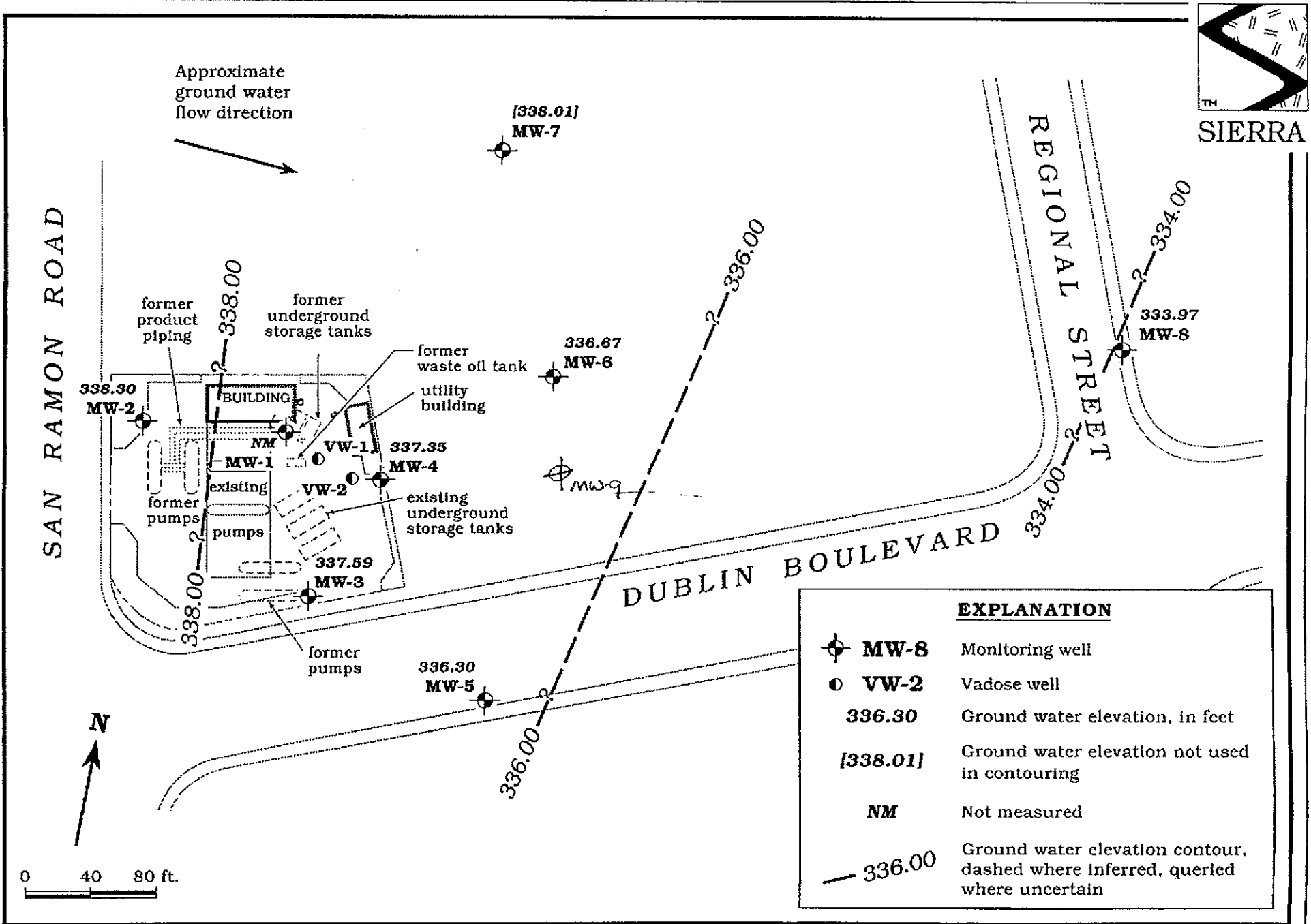
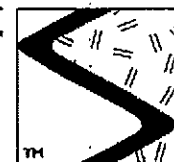


Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - September 23, 1993 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



EXPLANATION	
	MW-8 Monitoring well
	VW-2 Vadose well
336.30	Ground water elevation, in feet
[338.01]	Ground water elevation not used in contouring
NM	Not measured
	Ground water elevation contour, dashed where inferred, queried where uncertain

Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - December 22, 1993 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



SIERRA

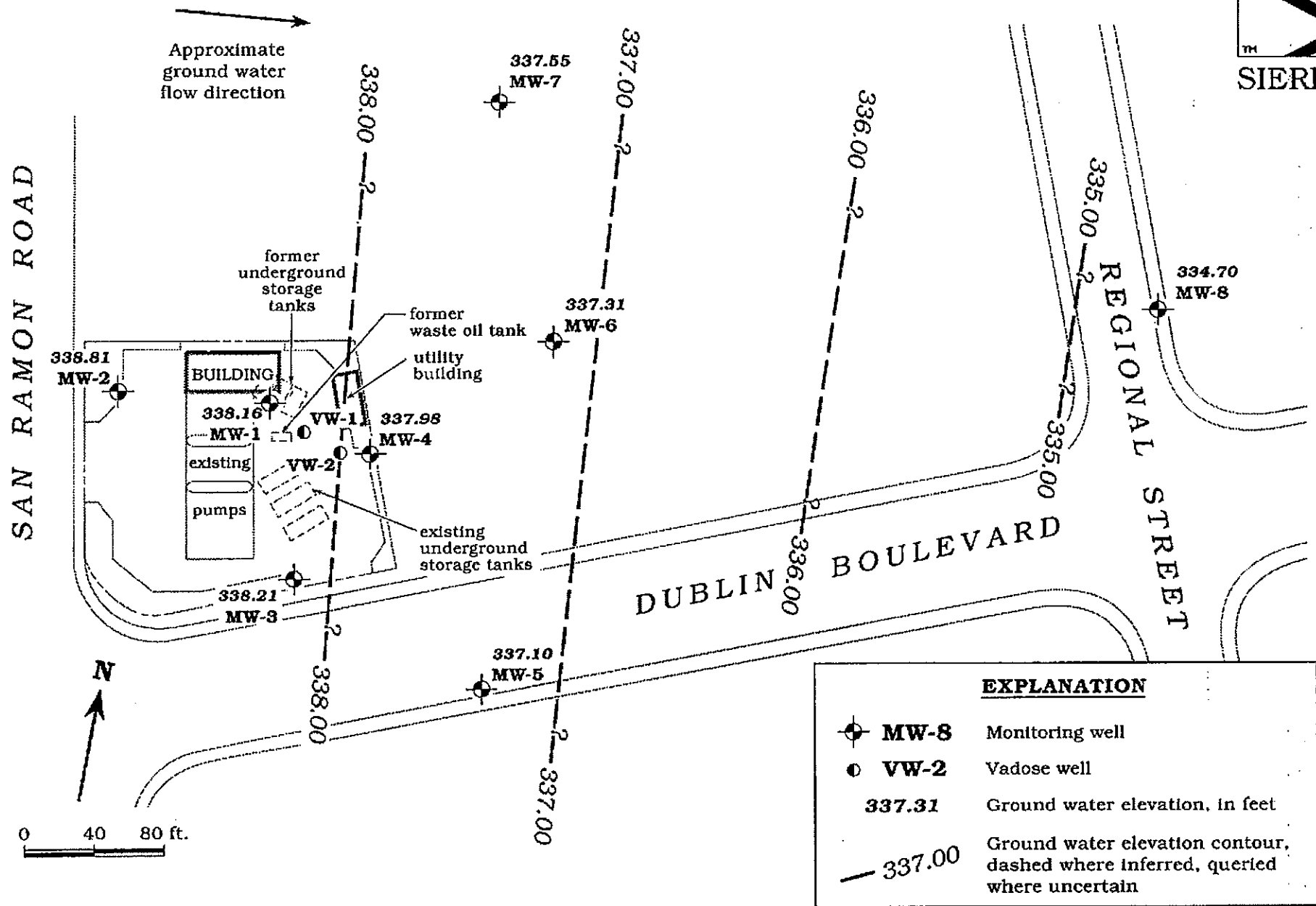


Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - March 21, 1994 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California

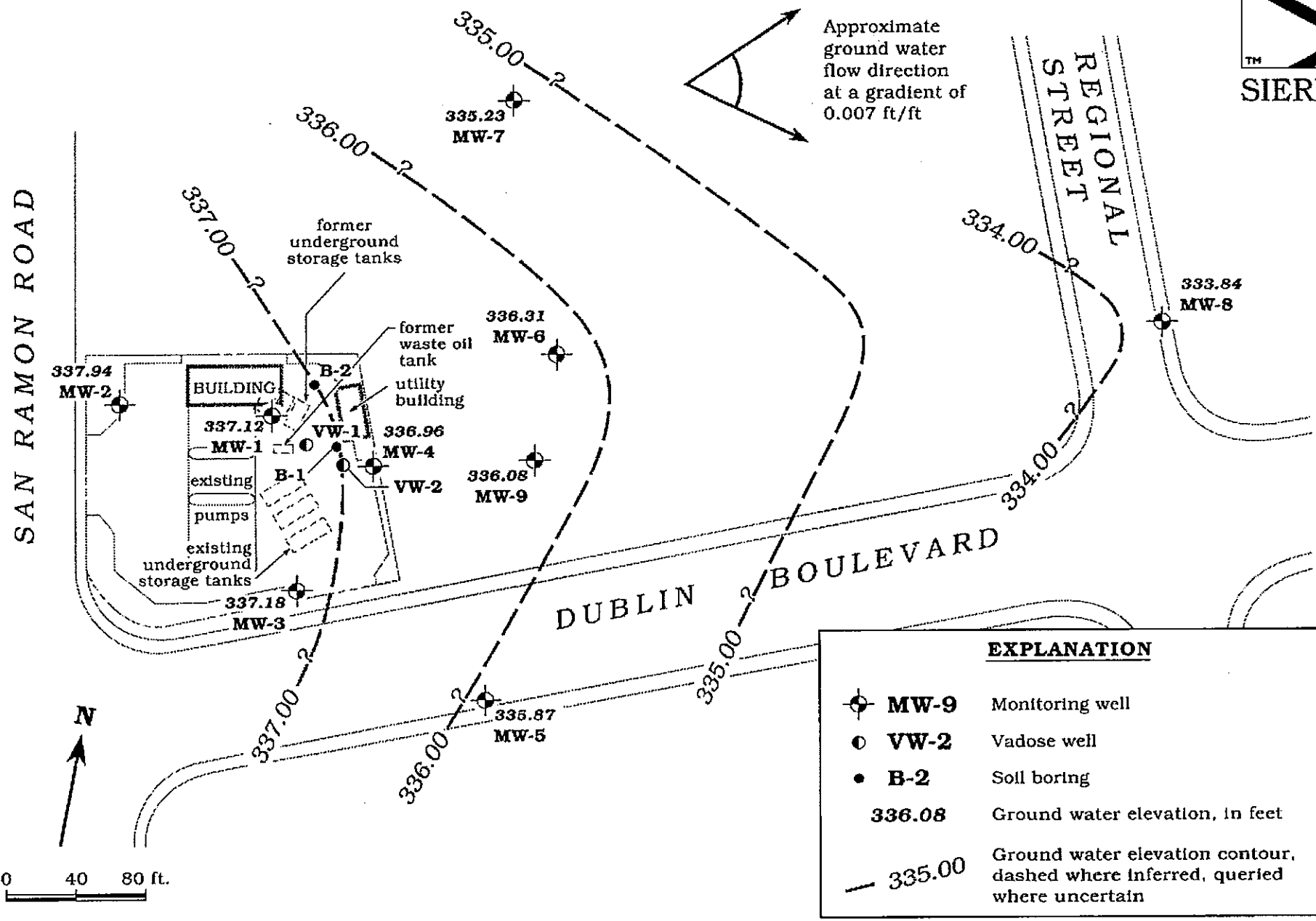
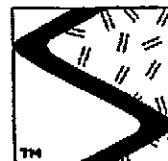


Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - July 6, 1994 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



SIERRA

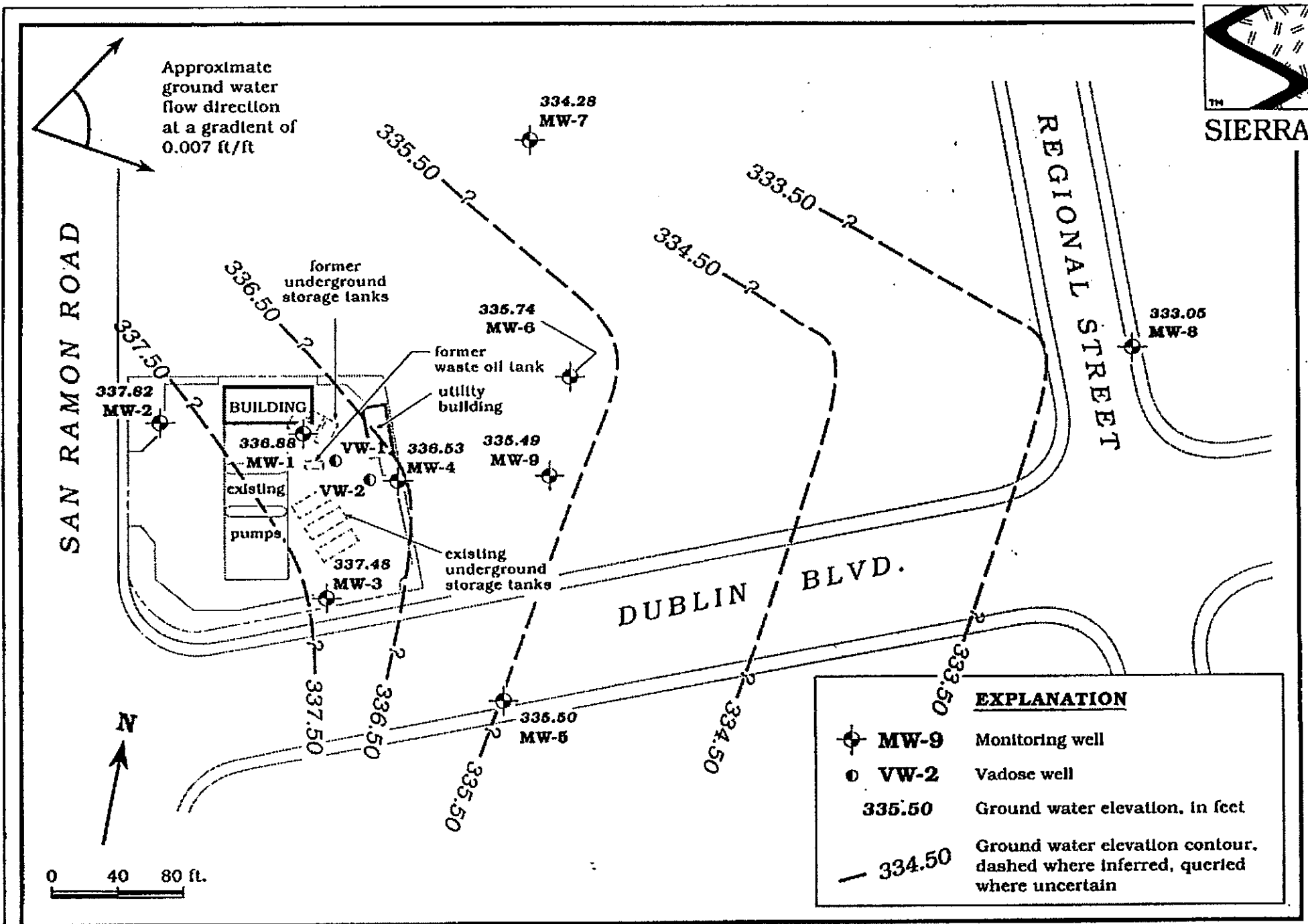


Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - September 22, 1994 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



SIERRA

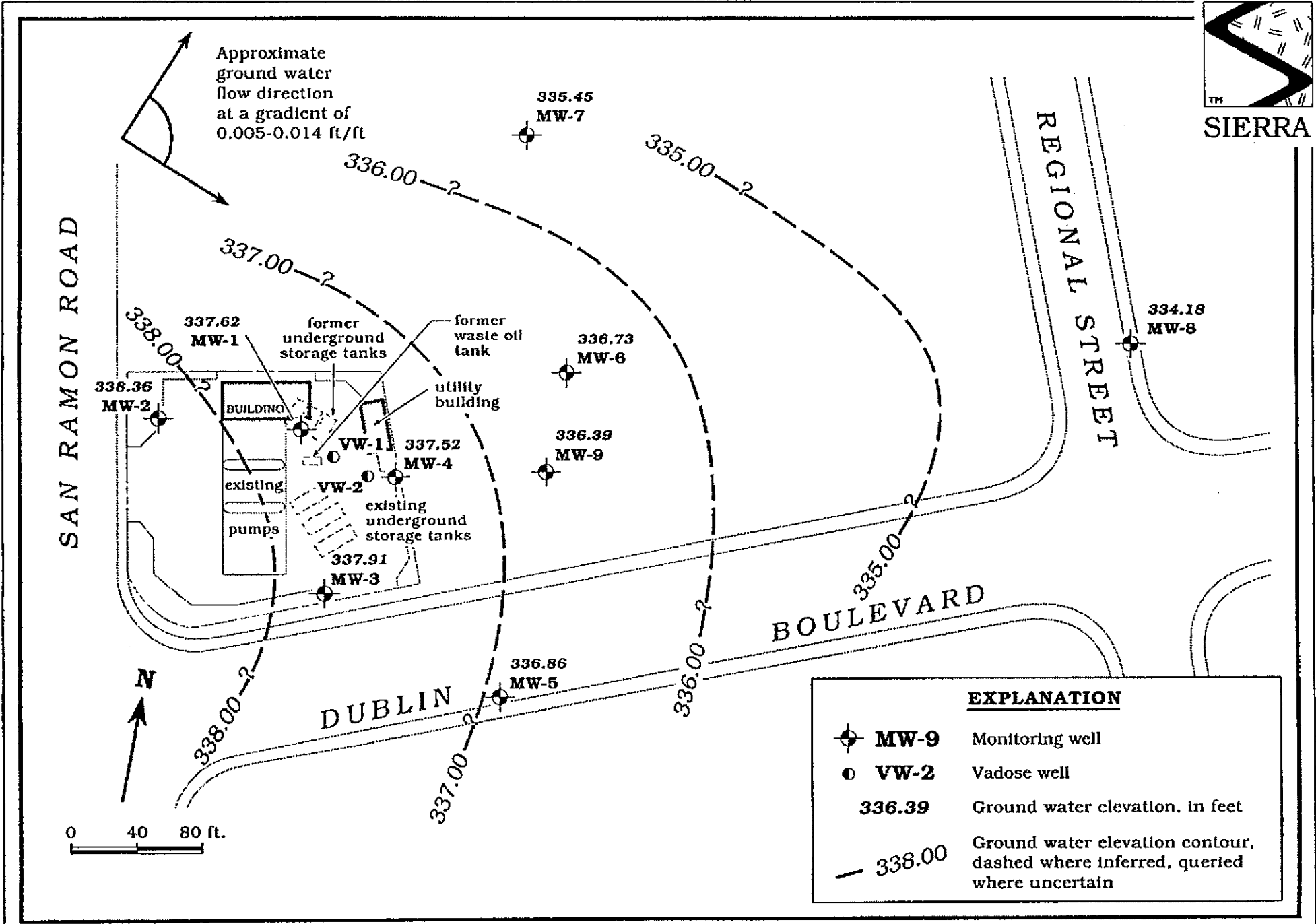
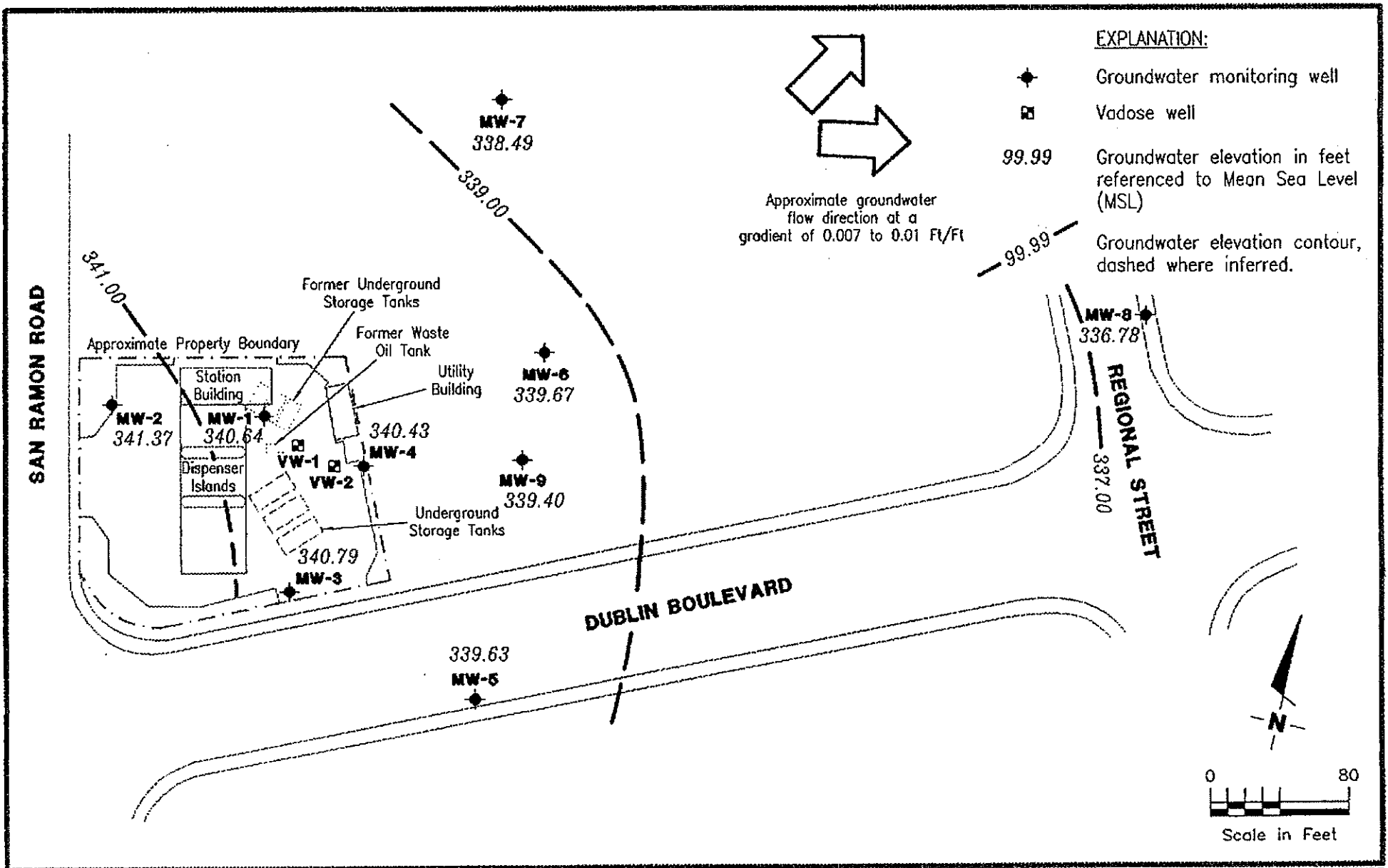


Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - December 8, 1994 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

SITE PLAN

Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

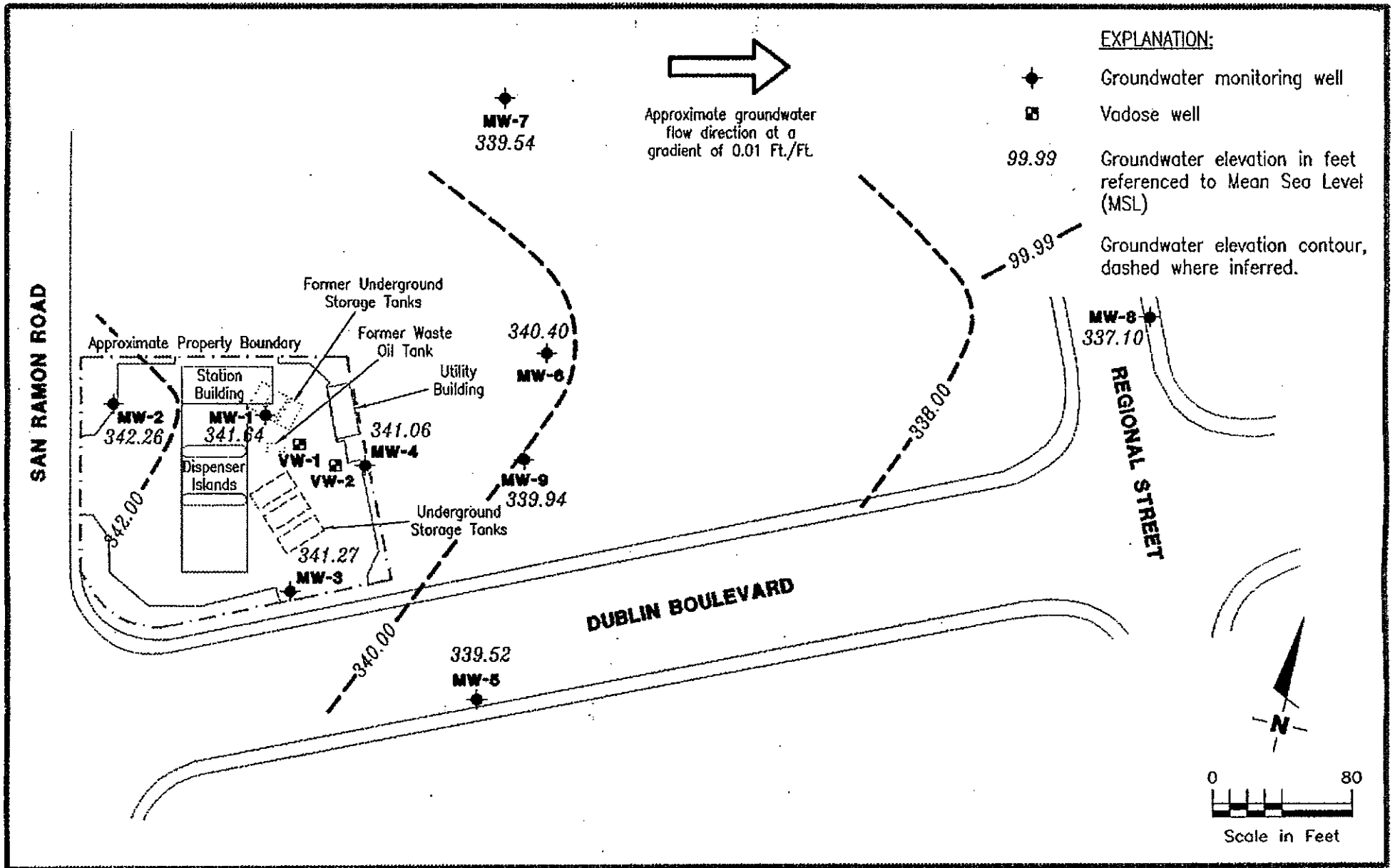
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REVIEWED BY
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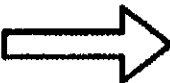
DATE
3/6/95

REVISED DATE



EXPLANATION:

- ◆ Groundwater monitoring well
- ▣ Vadose well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - Groundwater elevation contour, dashed where inferred.


 Approximate groundwater flow direction at a gradient of 0.01 Ft./Ft.



Gottler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
 Dublin, CA 94568

POTENTIOMETRIC MAP
 Chevron Service Station No. 9-5542
 7007 San Ramon Road
 Dublin, California

FIGURE

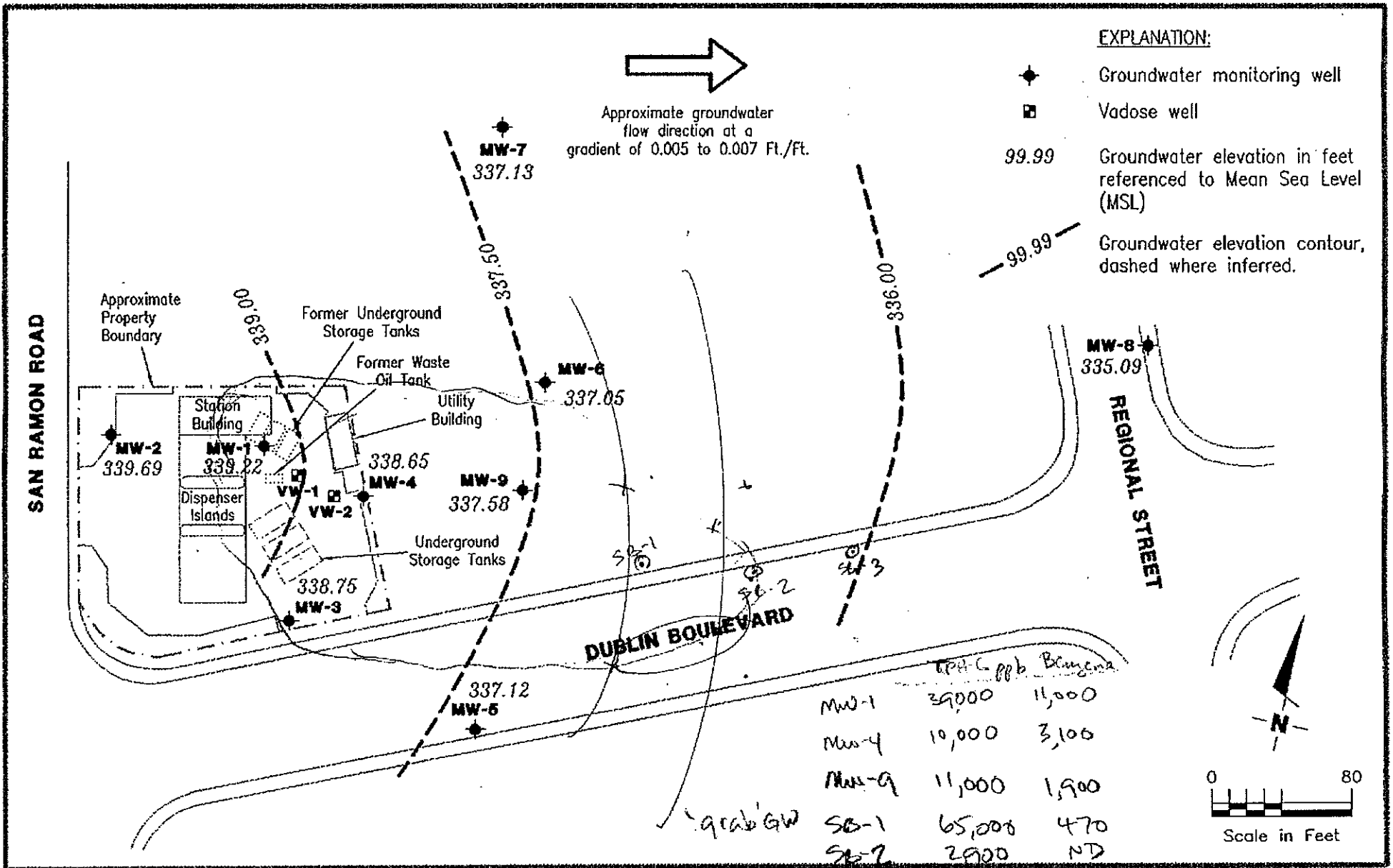
1

JOB NUMBER
 5290.85

REVIEWED BY


DATE
 June 8, 1995

REVISED DATE



Gottler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

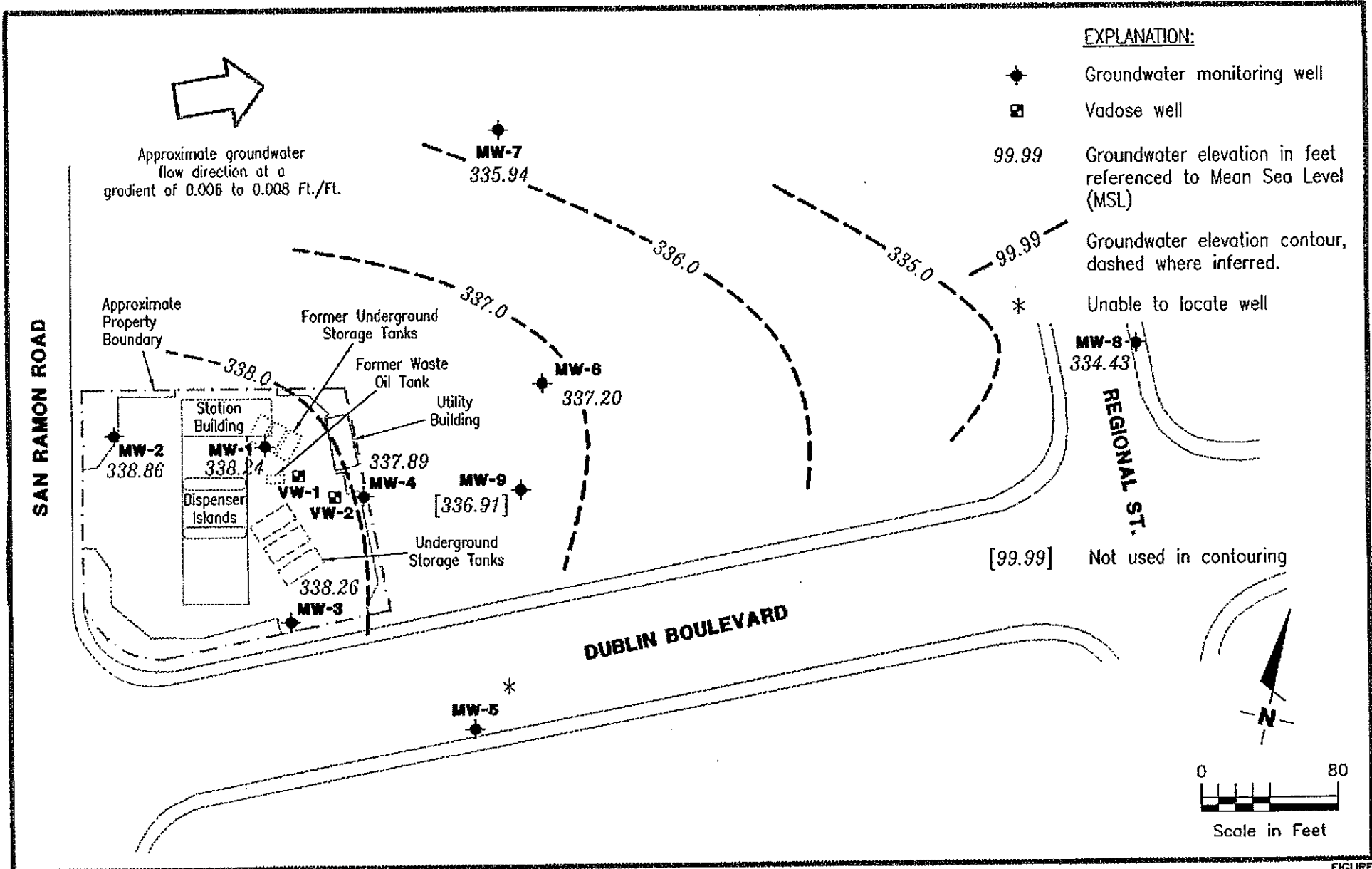
1

JOB NUMBER
5290.85

REVIEWED BY

DATE
September 13, 1995

REVISED DATE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
 Dublin, CA 94568

POTENTIOMETRIC MAP
 Chevron Service Station No. 9-5542
 7007 San Ramon Road
 Dublin, California

FIGURE

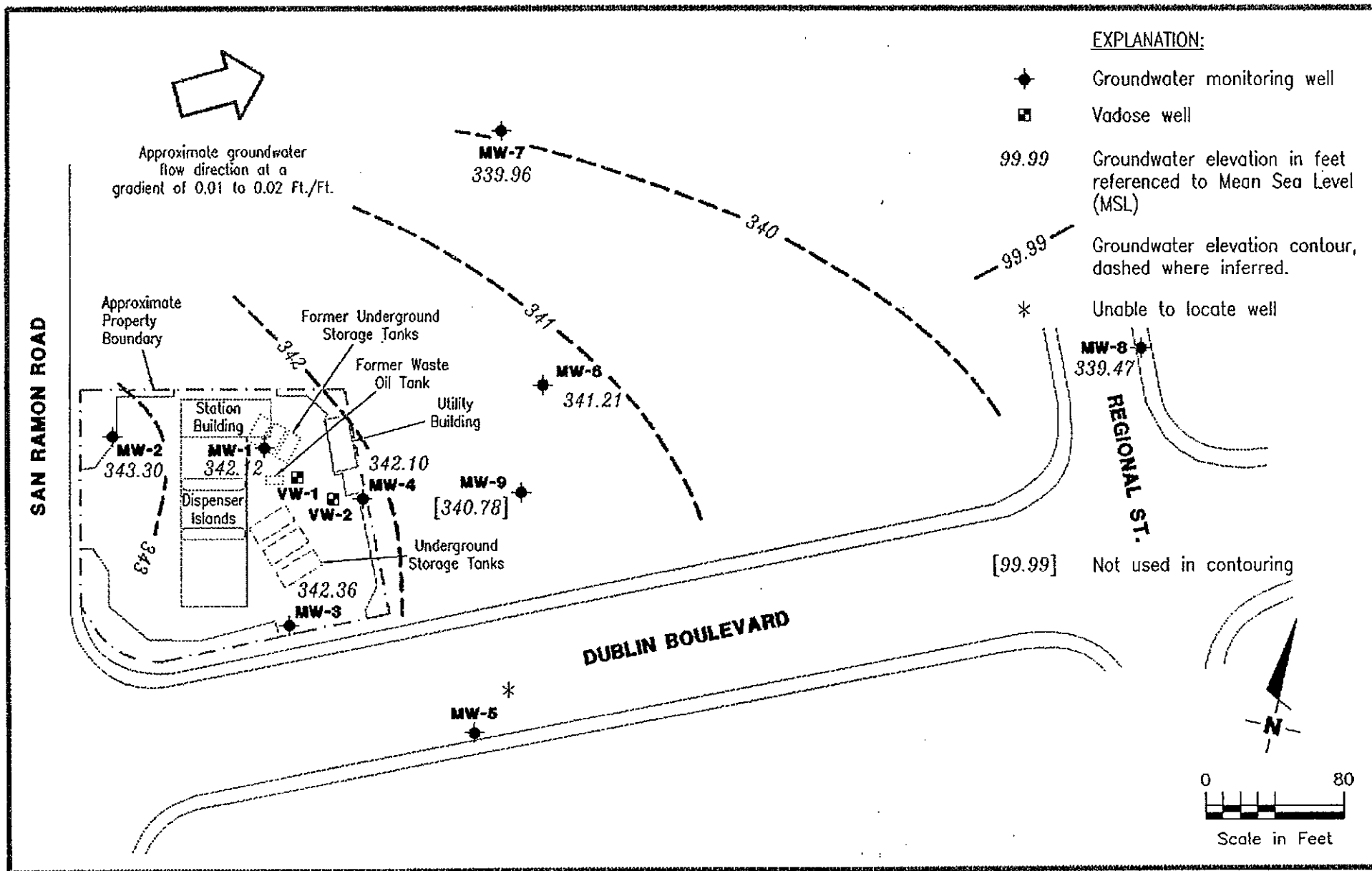
1

JOB NUMBER
 5290

REVIEWED BY

DATE
 December 16, 1995

REVISED DATE



EXPLANATION:

- ◆ Groundwater monitoring well
- ▣ Vadose well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - Groundwater elevation contour, dashed where inferred.
- * Unable to locate well
- [99.99] Not used in contouring

Approximate groundwater flow direction at a gradient of 0.01 to 0.02 Ft./Ft.

Approximate Property Boundary

Former Underground Storage Tanks

Former Waste Oil Tank

Utility Building

Station Building

Dispenser Islands

Underground Storage Tanks

SAN RAMON ROAD

DUBLIN BOULEVARD

REGIONAL ST.



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

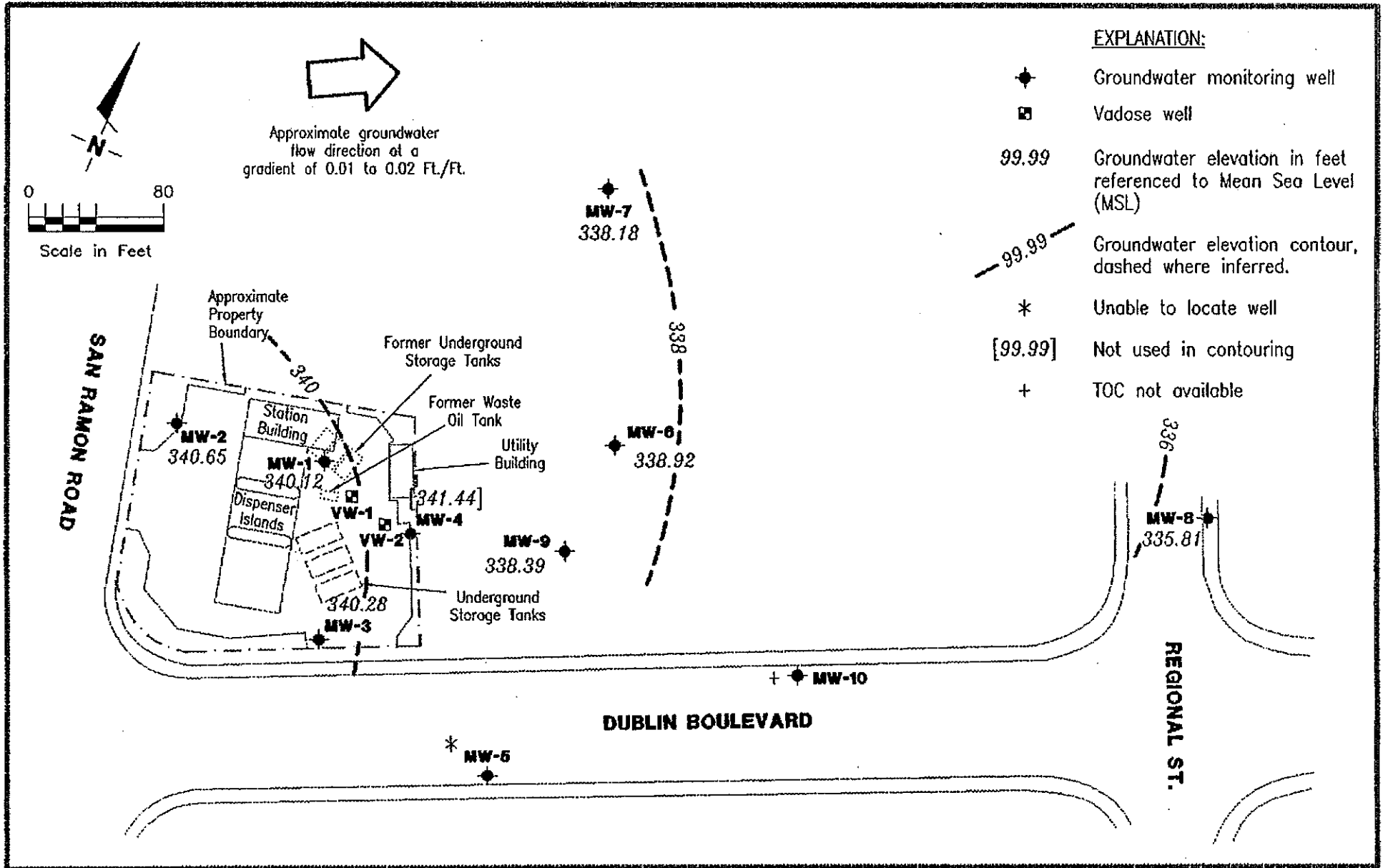
1

JOB NUMBER
5290

REVIEWED BY
[Signature]

DATE
March 28, 1996

REVISED DATE

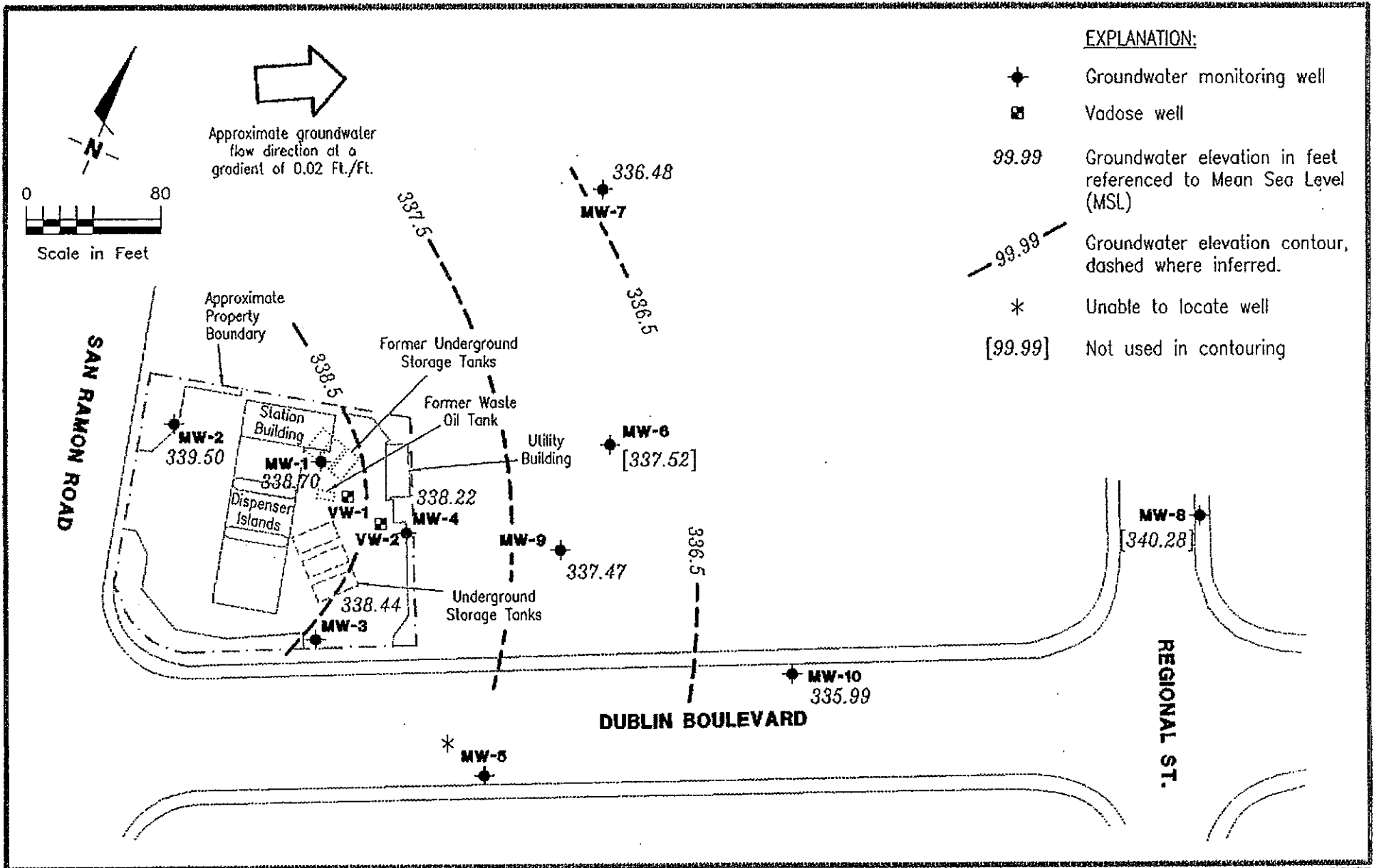


- EXPLANATION:**
- ◆ Groundwater monitoring well
 - ▣ Vadose well
 - 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
 - - - 99.99 - - - Groundwater elevation contour, dashed where inferred.
 - * Unable to locate well
 - [99.99] Not used in contouring
 - + TOC not available

Gettler - Ryan Inc.
 6747 Sierra Ct., Suite J (510) 551-7555
 Dublin, CA 94568

POTENTIOMETRIC MAP
 Chevron Service Station No. 9-5542
 7007 San Ramon Road
 Dublin, California

FIGURE
1



EXPLANATION:

- ◆ Groundwater monitoring well
- ▣ Vadose well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred.
- * Unable to locate well
- [99.99] Not used in contouring



Gertler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

1

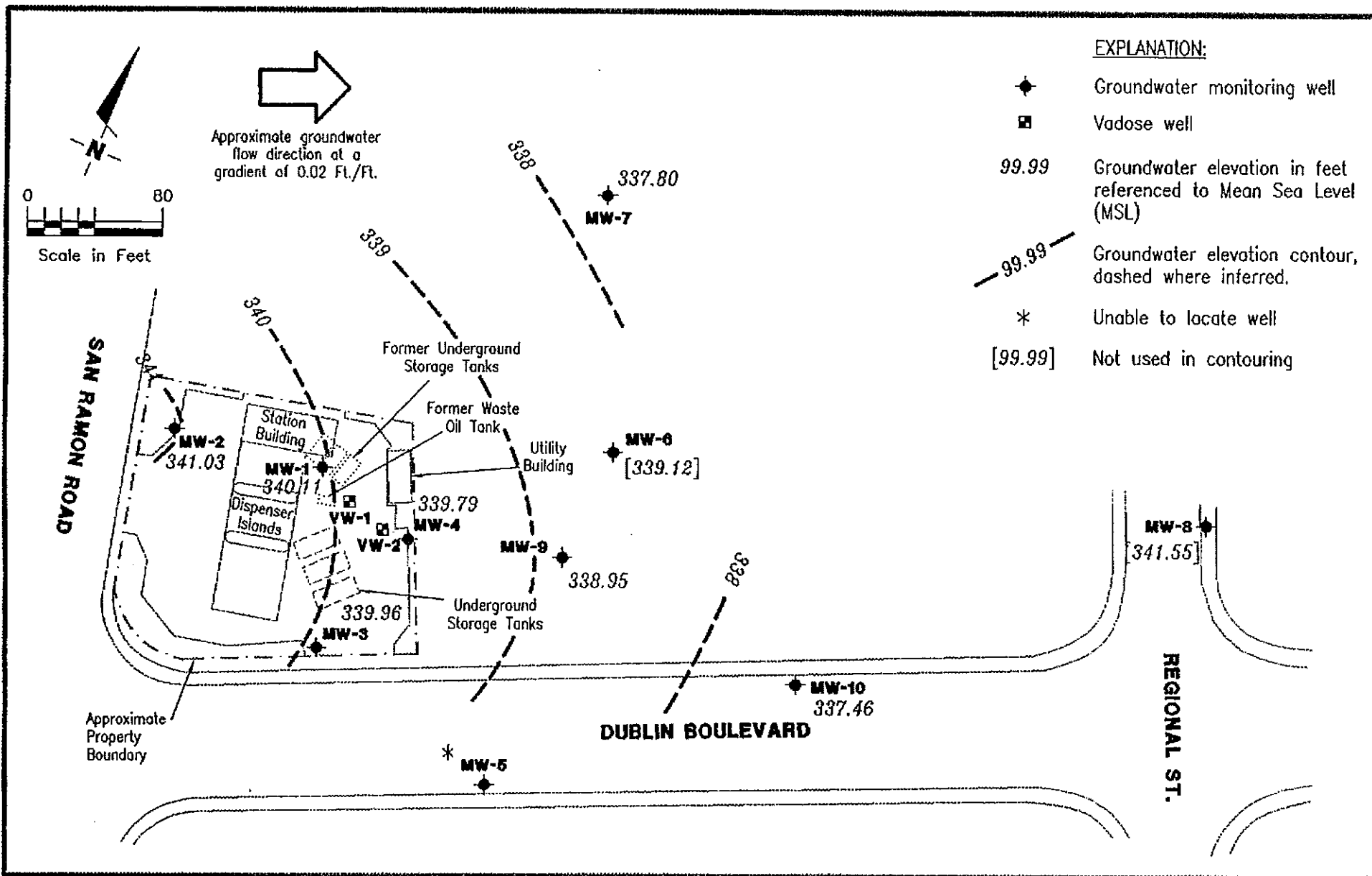
JOB NUMBER
5290

REVIEWED BY

[Signature]

DATE
September 30, 1996

REVISED DATE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

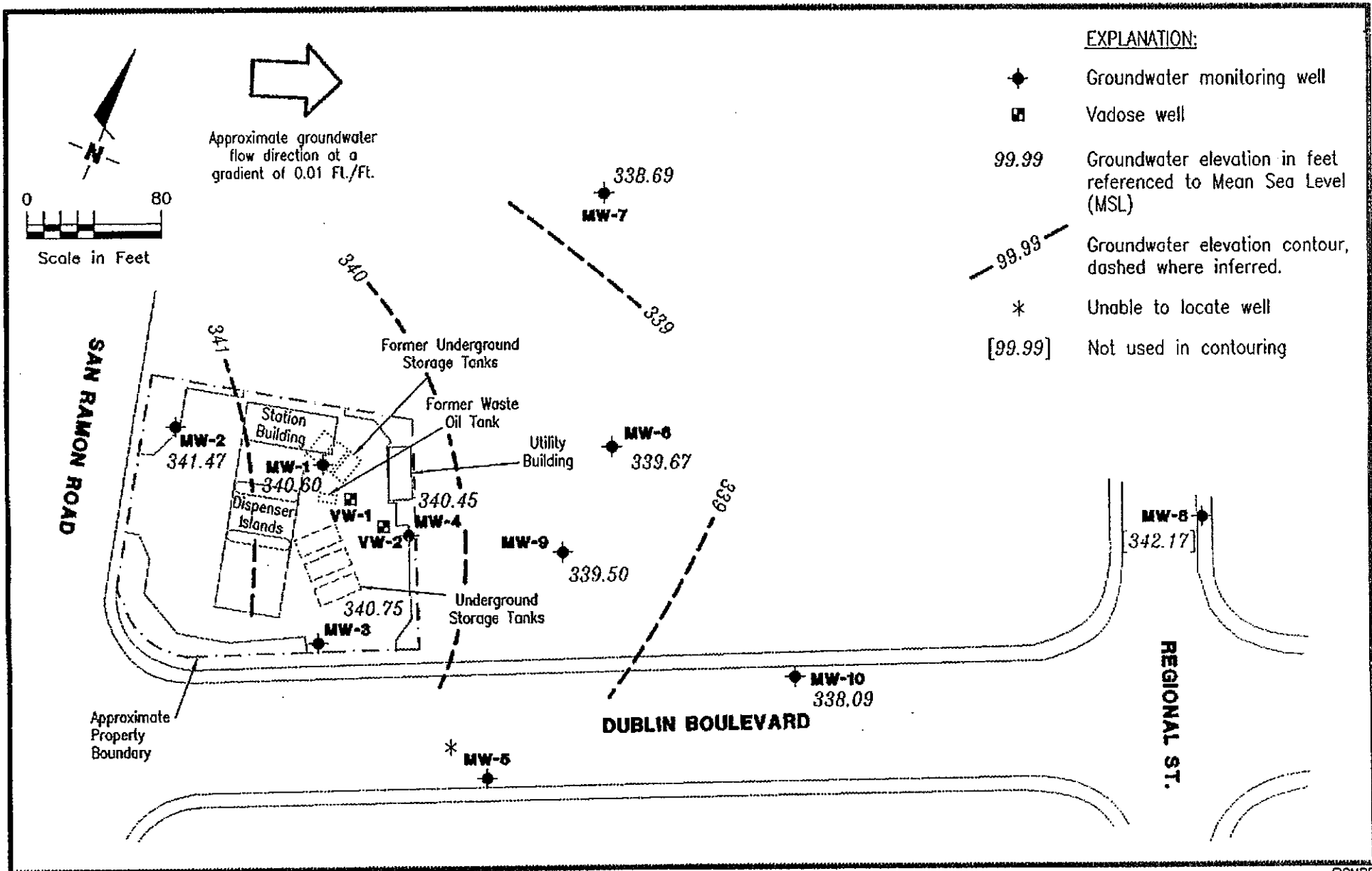
1

JOB NUMBER
5290

REVIEWED BY
PLS

DATE
December 30, 1996

REVISED DATE



EXPLANATION:

- ◆ Groundwater monitoring well
- ▣ Vadose well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 Groundwater elevation contour, dashed where inferred.
- * Unable to locate well
- [99.99] Not used in contouring



Gertler - Ryan Inc.

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Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

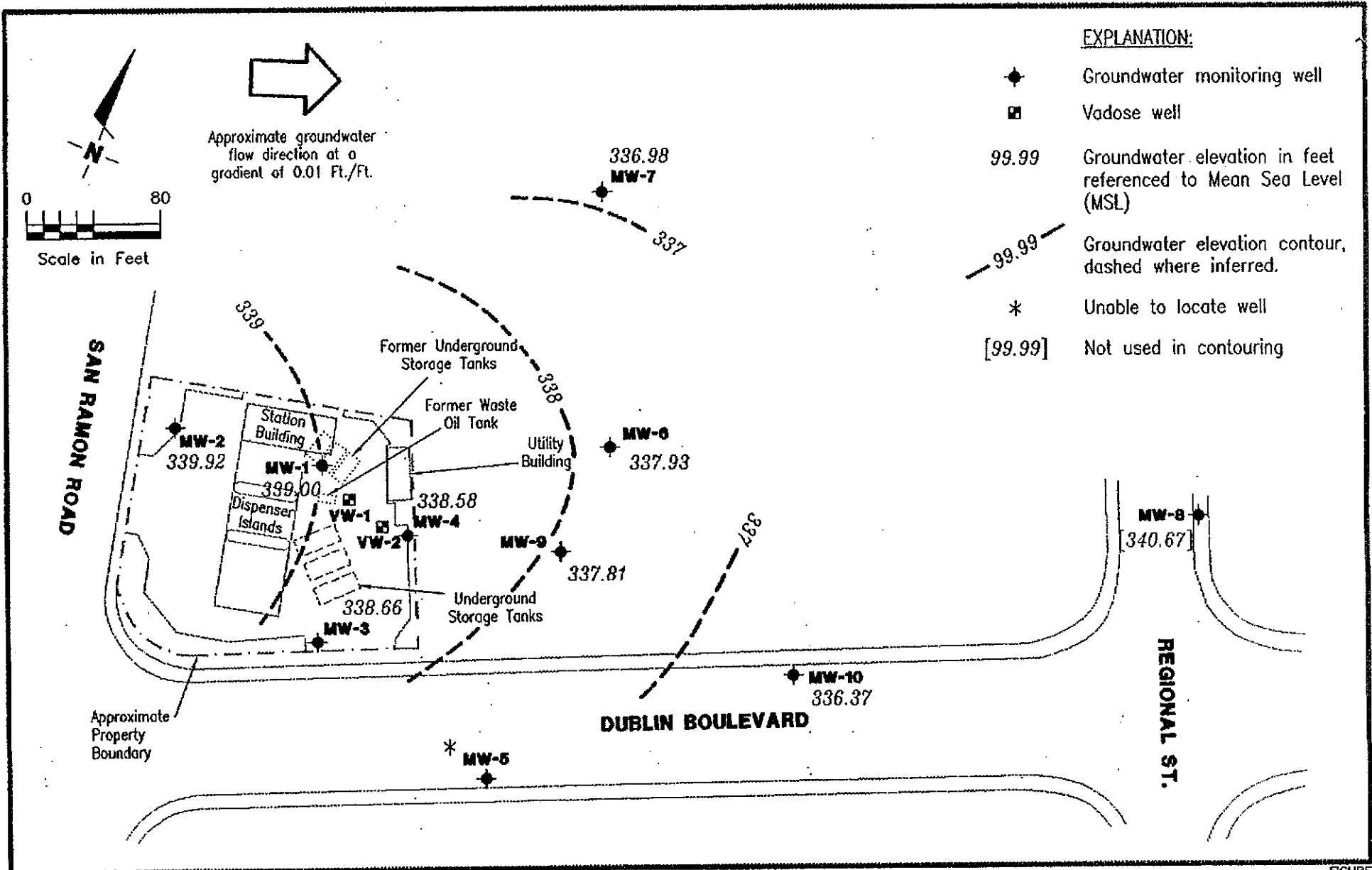
1

JOB NUMBER
5290

REVIEWED BY

DATE
March 11, 1997

REVISED DATE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

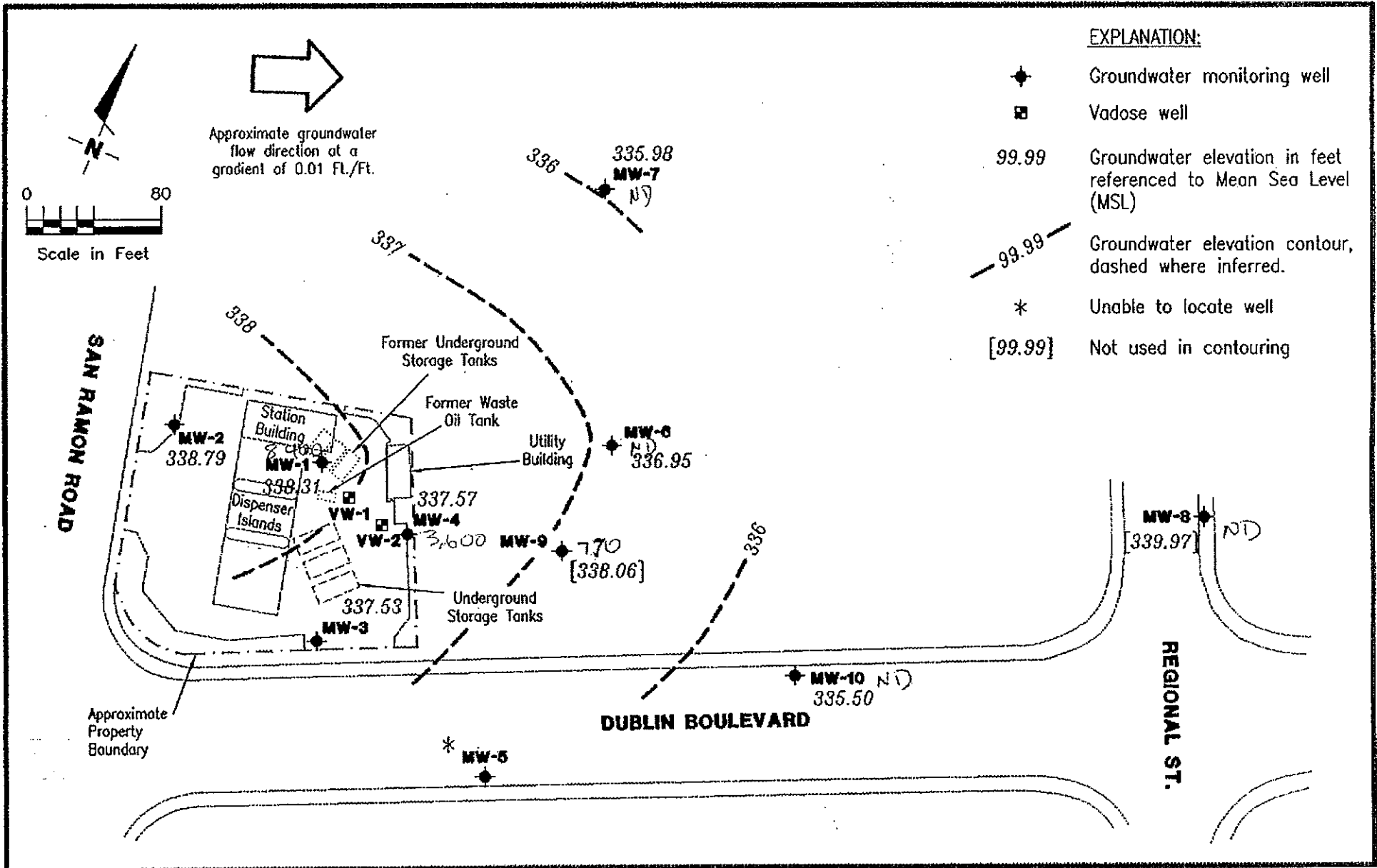
FIGURE 1
MW-1 9,900 ppb
MW-4 2,900 ppb
MW-9 800 ppb

JOB NUMBER
5290

REVIEWED BY

DATE
June 10, 1997

REVISED DATE



EXPLANATION:

- ◆ Groundwater monitoring well
- ▣ Vadose well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred.
- * Unable to locate well
- [99.99] Not used in contouring



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

1

JOB NUMBER
5290

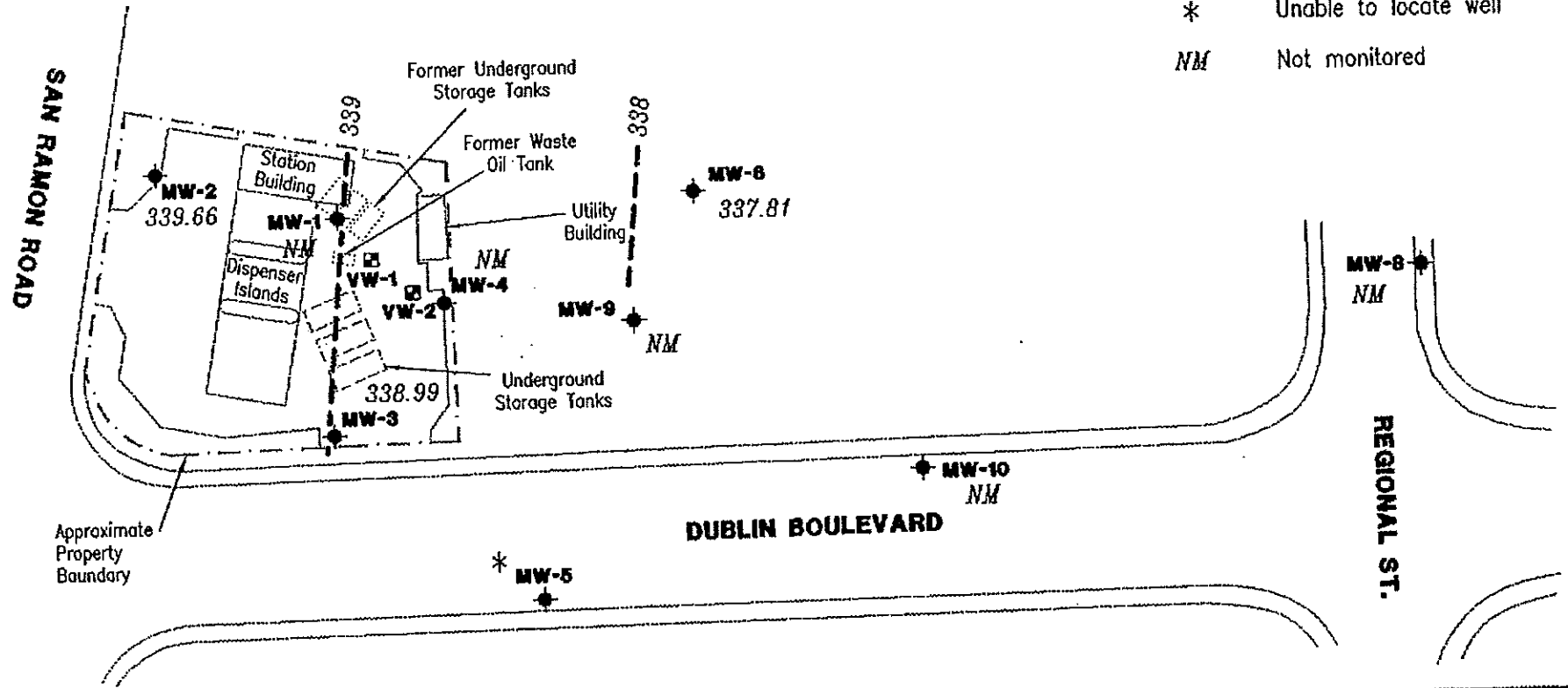
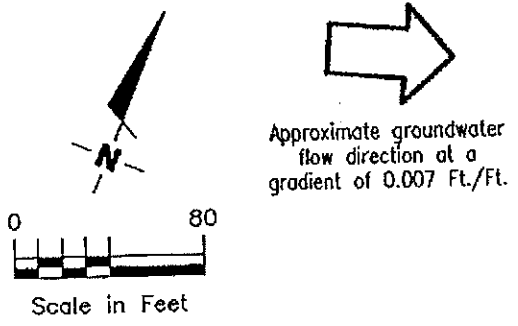
REVIEWED BY

DATE
October 1, 1997

REVISED DATE

EXPLANATION:

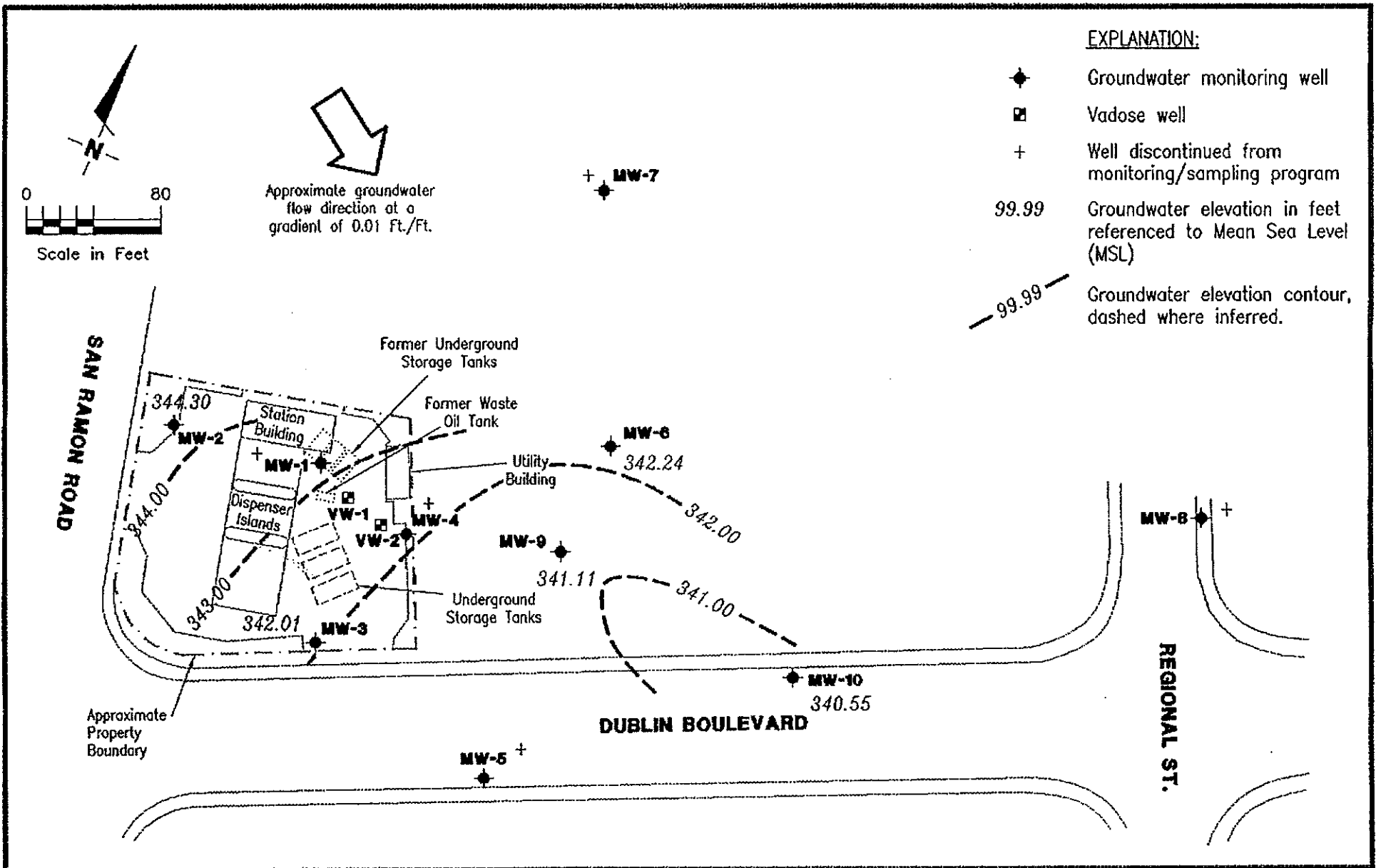
- ◆ Groundwater monitoring well
- Vadose well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred.
- * Unable to locate well
- NM Not monitored



POTENTIOMETRIC MAP
 Chevron Service Station No. 9-5542
 7007 San Ramon Road
 Dublin, California

Gettler - Ryan Inc.
 6747 Sierra Ct., Suite J (510) 551-7555
 Dublin, CA 94568

FIGURE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

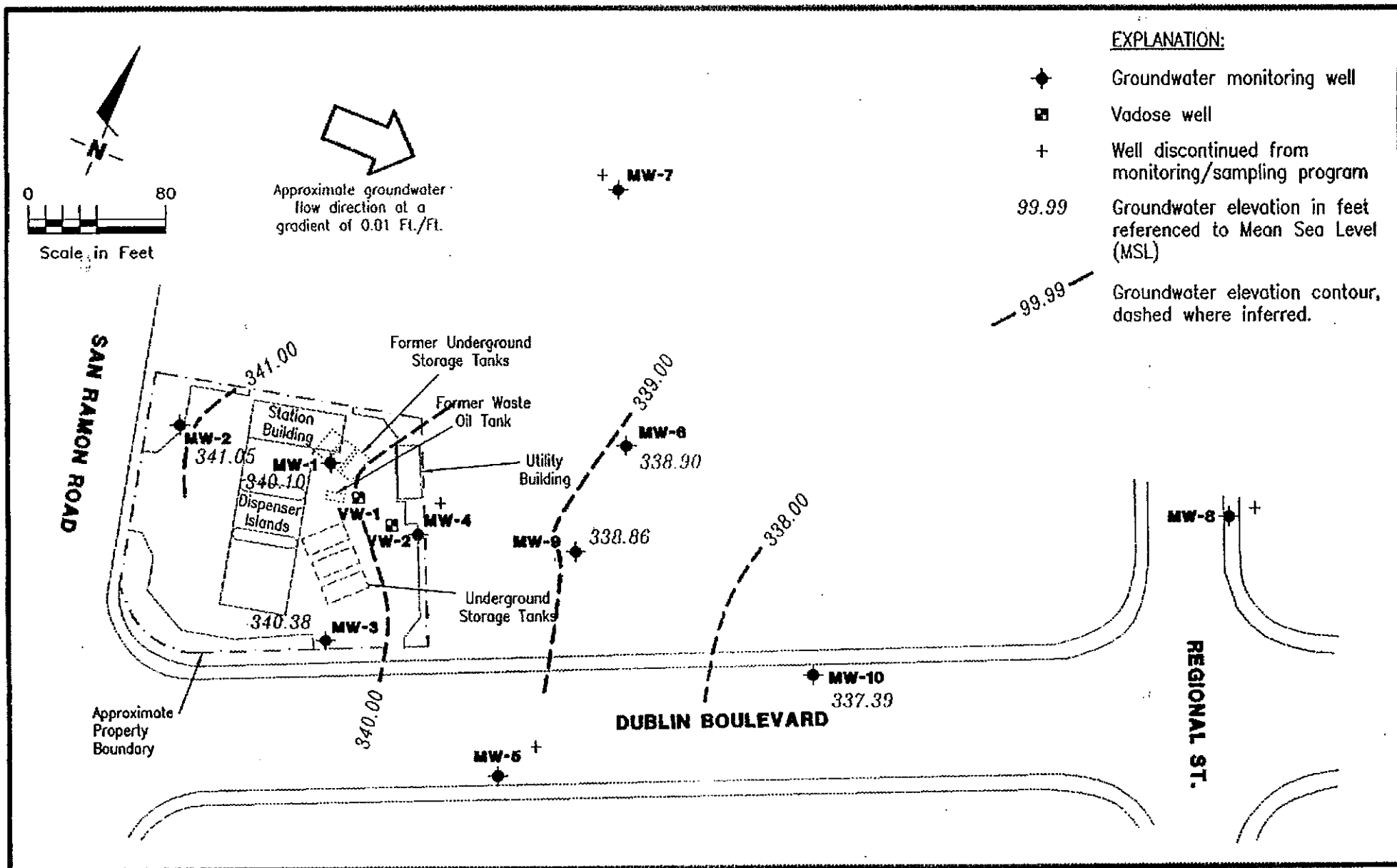
1

JOB NUMBER
5290

REVIEWED BY

DATE
March 29, 1998

REVISED DATE



Gertler - Ryan Inc.

6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP

Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

FIGURE

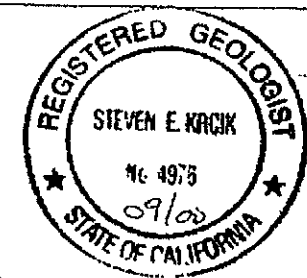
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JOB NUMBER
5290

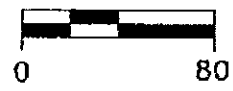
REVIEWED BY

DATE
September 12, 1998

REVISED DATE

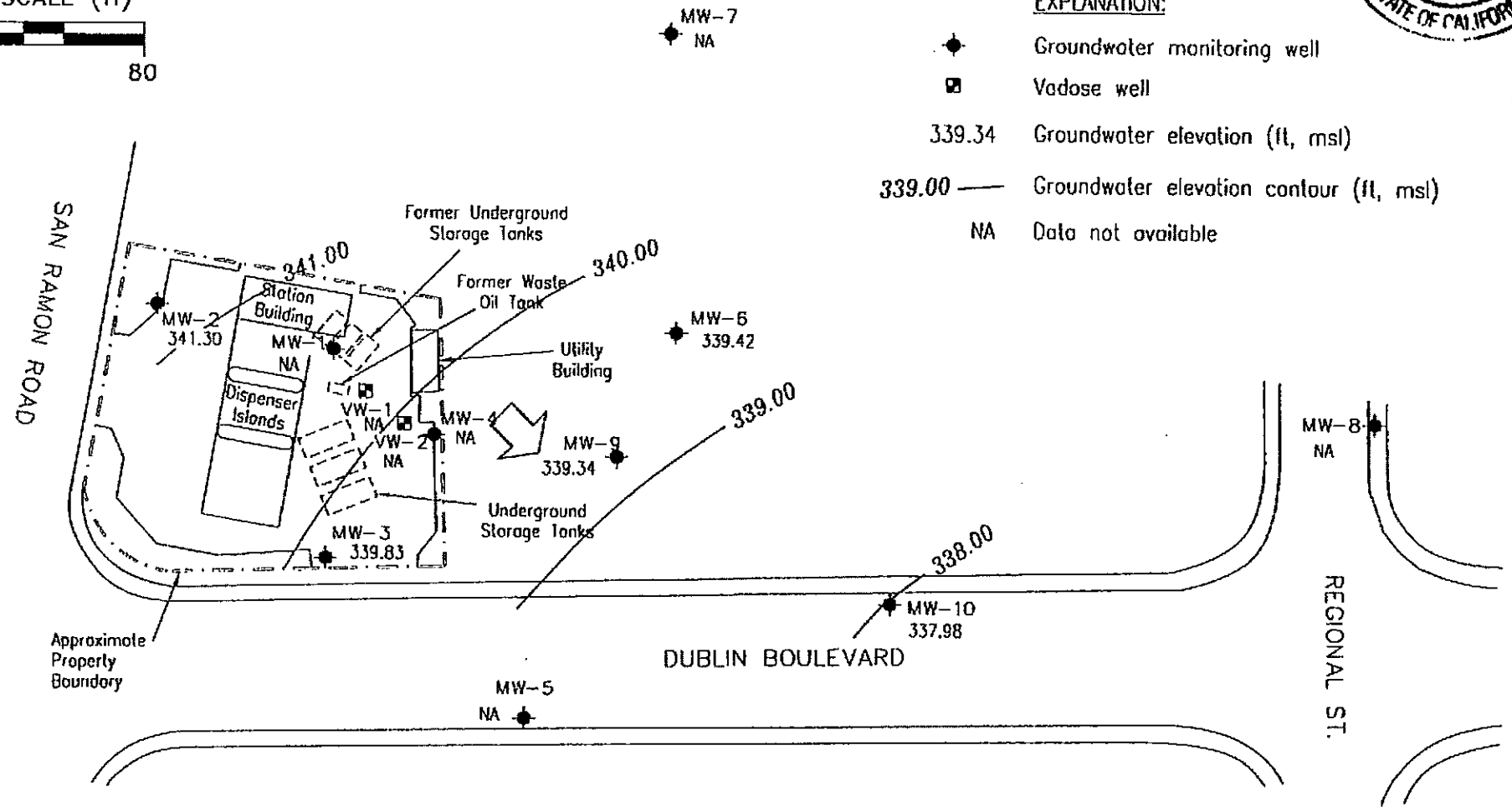


SCALE (ft)



EXPLANATION:

- ◆ Groundwater monitoring well
- ▣ Vadose well
- 339.34 Groundwater elevation (ft, msl)
- 339.00 — Groundwater elevation contour (ft, msl)
- NA Data not available



Ref. 5542-gm.dwg
Basemap from Callier-Ryan, Inc.

PREPARED BY

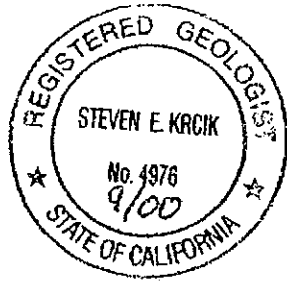
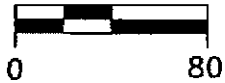
Chevron Station 9-5542
7007 San Ramon Road
Dublin, California

GROUNDWATER ELEVATION CONTOUR MAP,
MARCH 26, 1999

FIGURE:
1
PROJECT:
DAC04



SCALE (ft)



MW-7
NA

EXPLANATION:

◆ Groundwater monitoring well

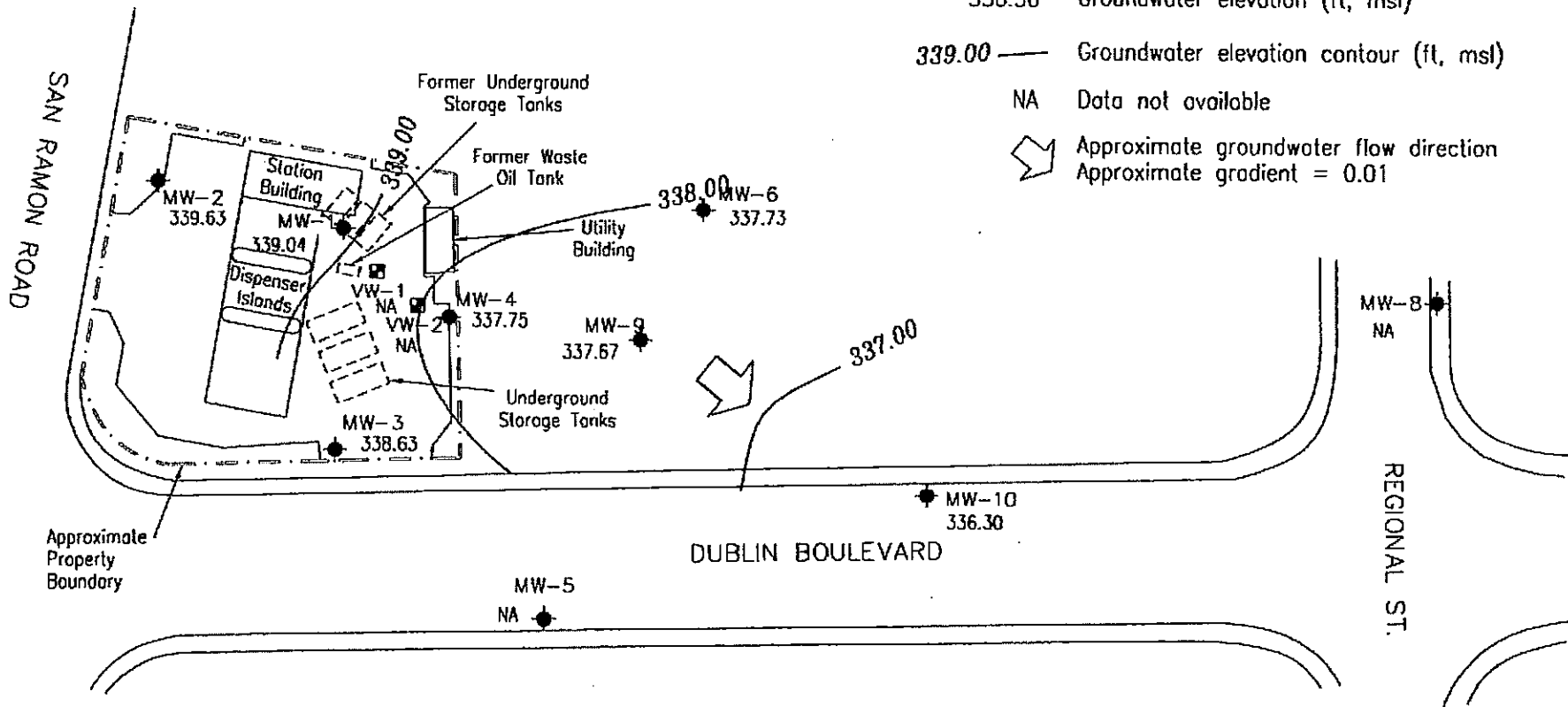
■ Vadose well

336.30 Groundwater elevation (ft, msl)

339.00 — Groundwater elevation contour (ft, msl)

NA Data not available

➤ Approximate groundwater flow direction
Approximate gradient = 0.01



Ref. 5542-qm.dwg
Basemap from Gettler-Ryan, Inc.

PREPARED BY

RRM
engineering contracting firm

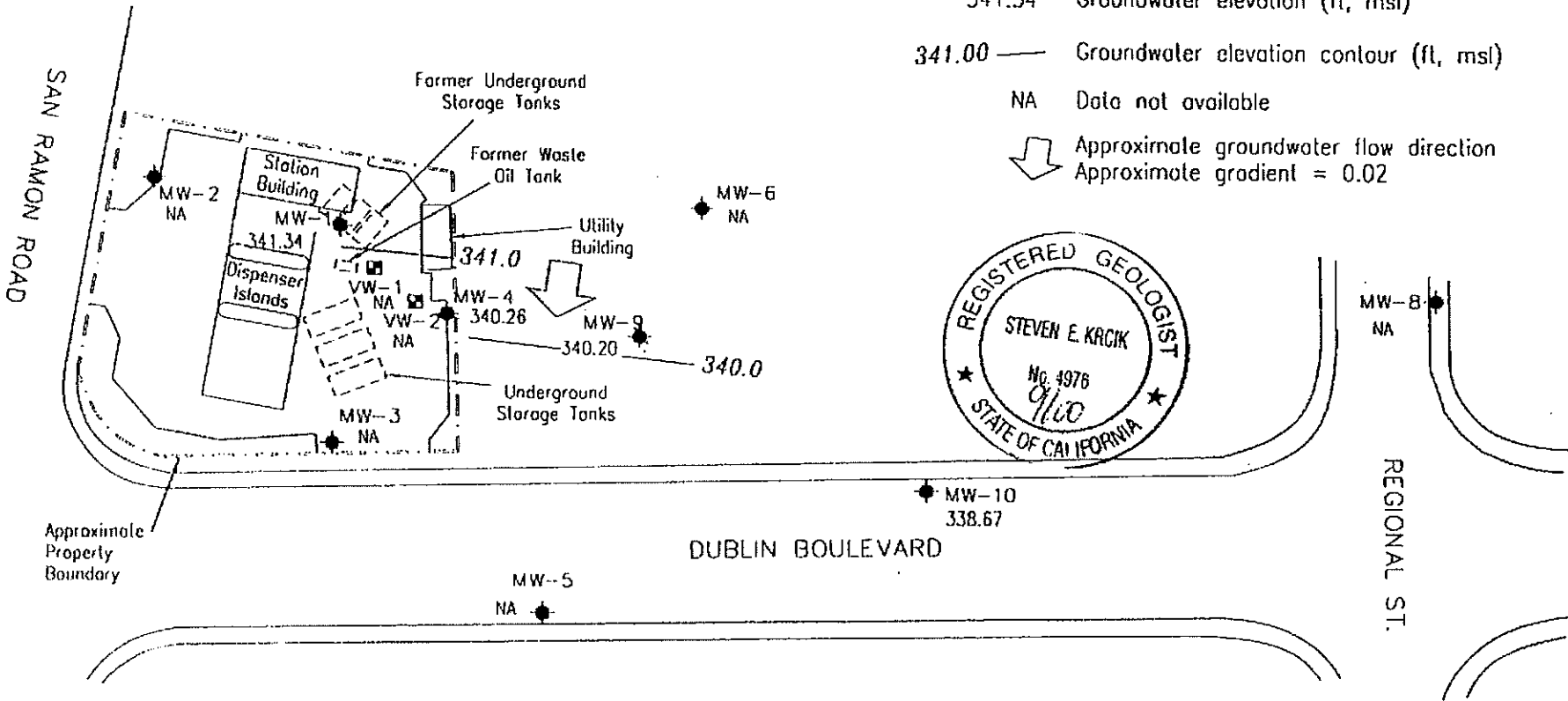
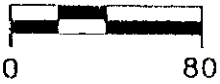
Chevron Station 9-5542
7007 San Ramon Road
Dublin, California

GROUNDWATER ELEVATION CONTOUR MAP,
SEPTEMBER 29, 1999

FIGURE:
1
PROJECT:
DAC04

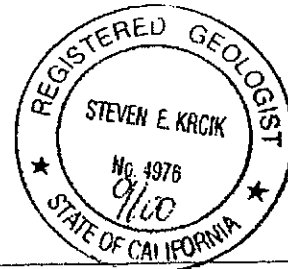


SCALE (11)



EXPLANATION:

- ◆ Groundwater monitoring well
- ▣ Vadose well
- 341.34 Groundwater elevation (ft, msl)
- 341.00 — Groundwater elevation contour (ft, msl)
- NA Data not available
- ⇩ Approximate groundwater flow direction
Approximate gradient = 0.02



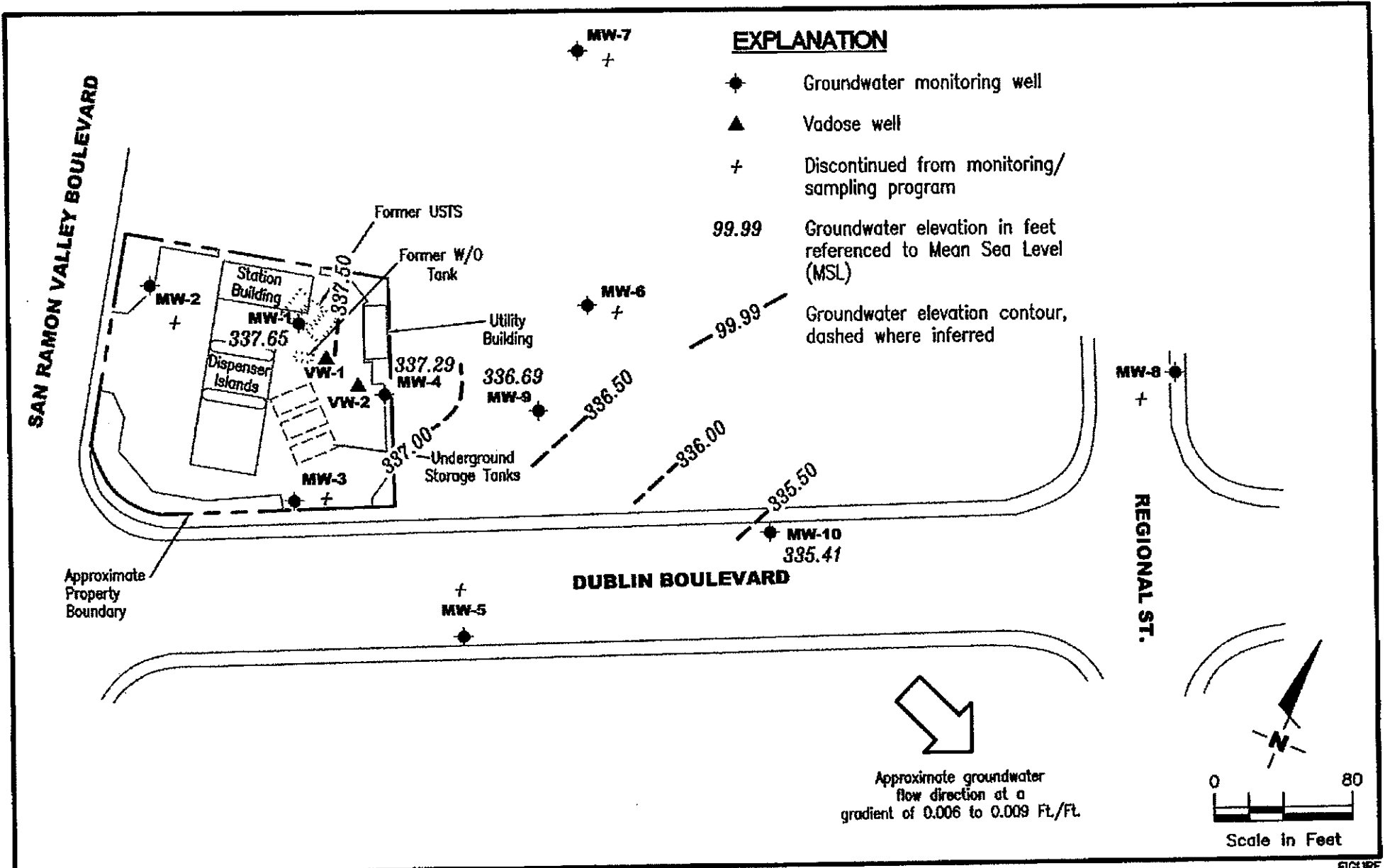
Ref. 5542-gnd.wg
Map from Galtier-Ryan, Inc.

PREPARED BY

Chevron Station 9-5542
 7007 San Ramon Road
 Dublin, California

GROUNDWATER ELEVATION CONTOUR MAP,
 MARCH 17, 2000

FIGURE:
1
PROJECT:
 DAC04



GETTLER - RYAN INC.
 6747 Sierra CL, Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Chevron Service Station #9-5542
 7007 San Ramon Valley Boulevard
 Dublin, California

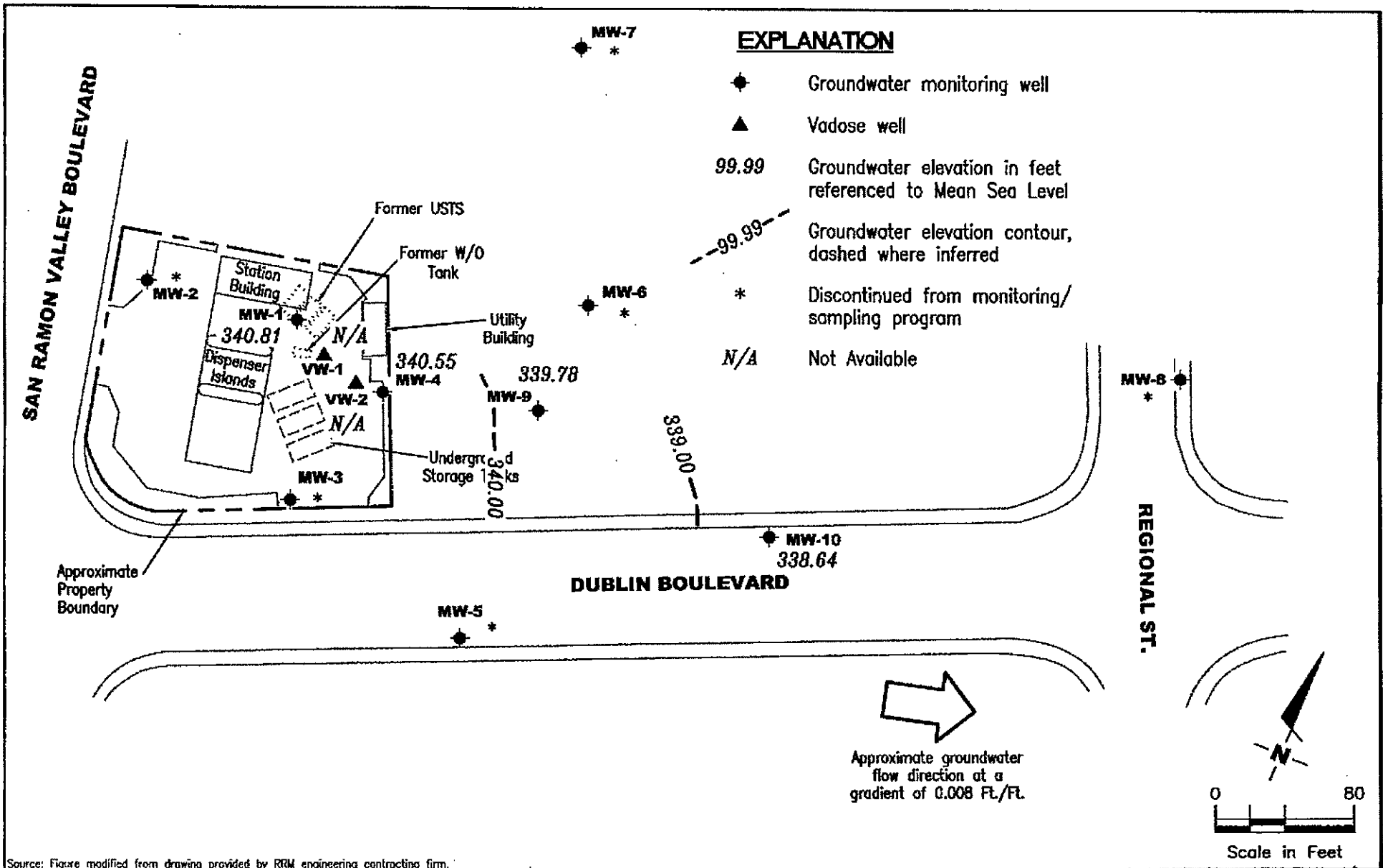
FIGURE
1

PROJECT NUMBER
 385290

REVIEWED BY

DATE
 September 17, 2001

REVISED DATE



Source: Figure modified from drawing provided by RRM engineering contracting firm.

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Chevron Service Station #9-5542
 7007 San Ramon Valley Boulevard
 Dublin, California

FIGURE

1

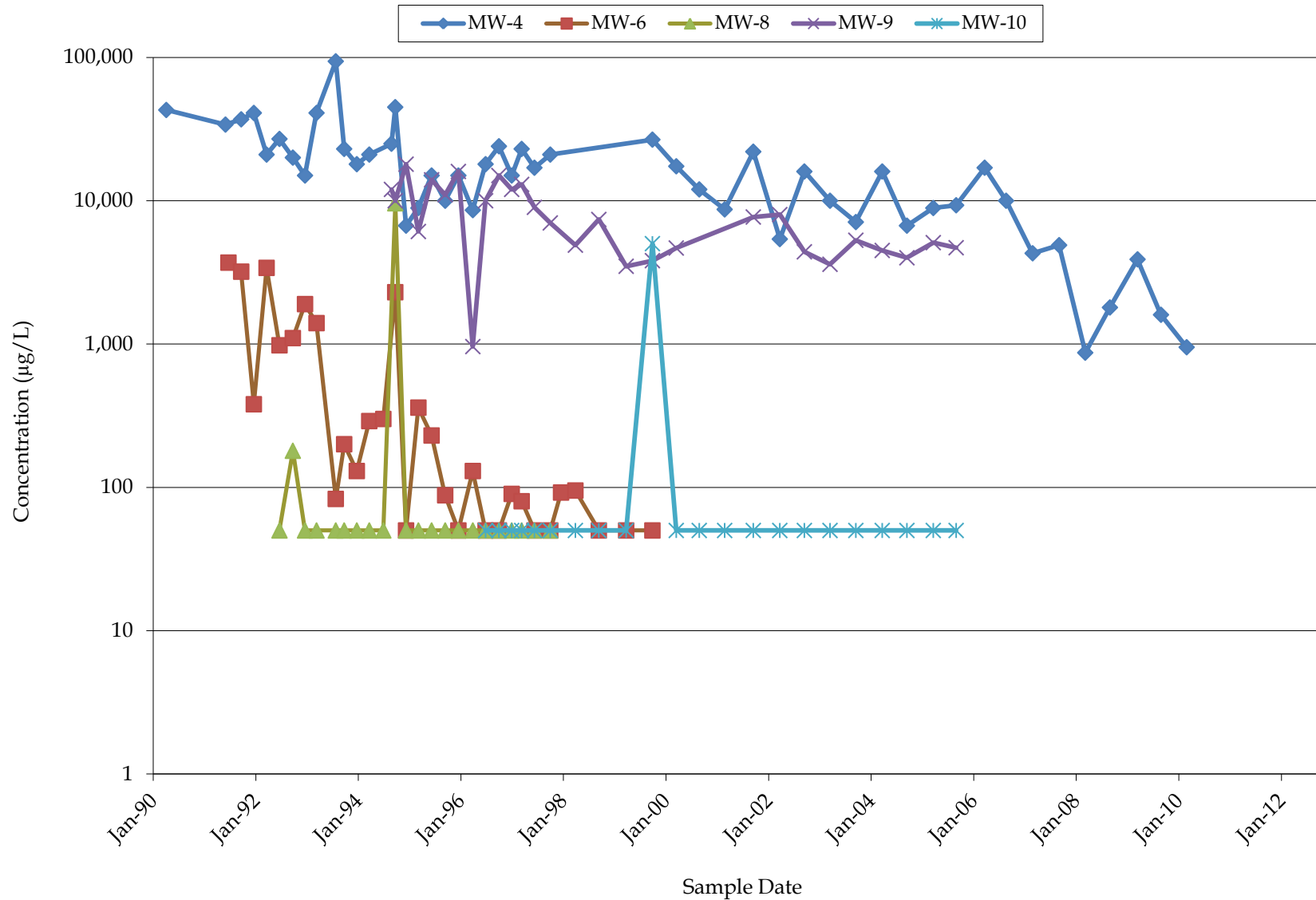
PROJECT NUMBER
 385290

REVIEWED BY

DATE
 March 25, 2002

REVISED DATE

ATTACHMENT D
HYDROCARBON VERSUS TIME GRAPHS



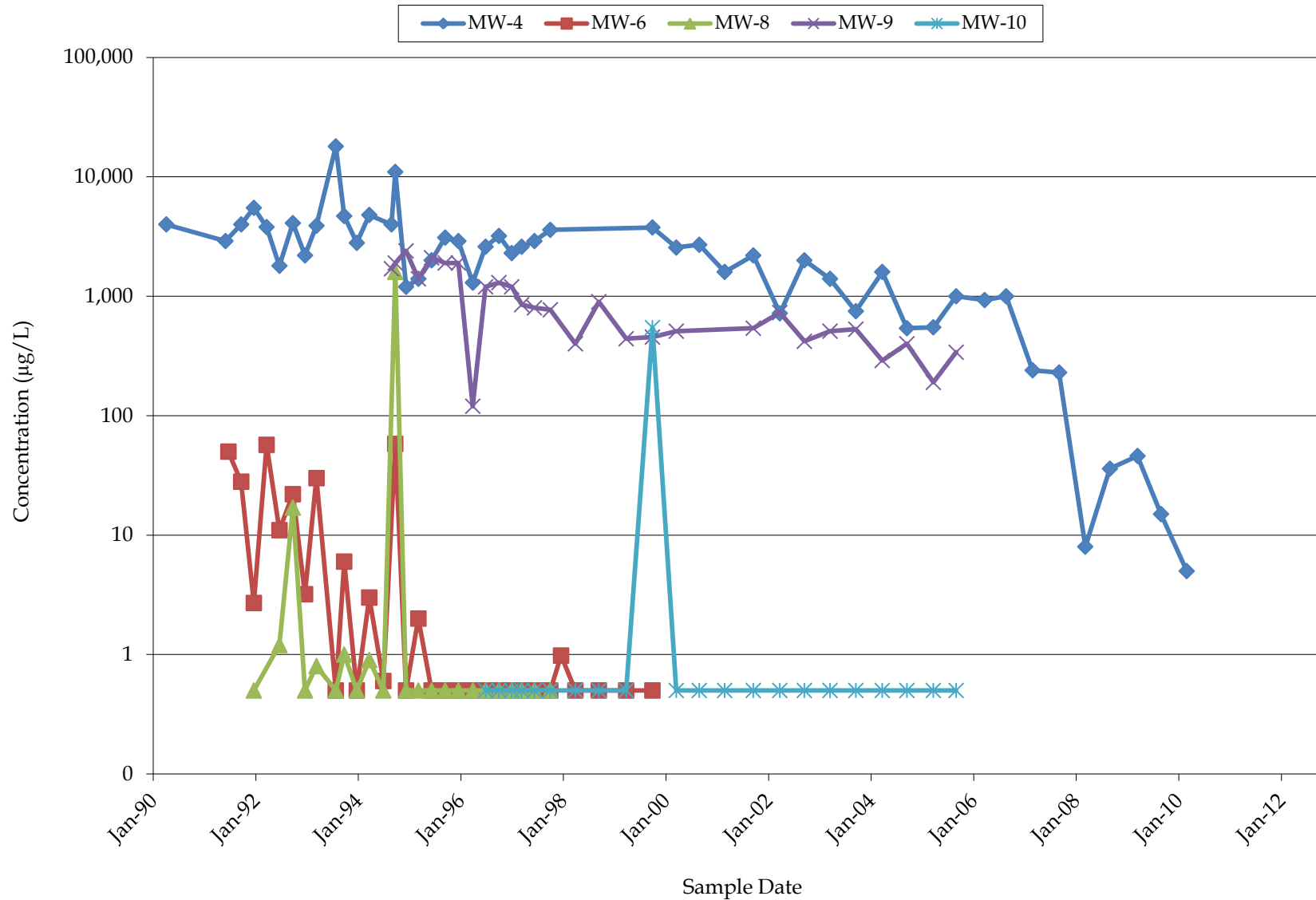
Graph
1

CHEVRON SERVICE STATION 95542
7007 SAN RAMON ROAD
DUBLIN, CA



CONESTOGA-ROVERS
& ASSOCIATES

MONITORING WELLS MW-4, MW-6, MW-8,
MW-9, AND MW-10
TPHg CONCENTRATIONS
VERSUS TIME



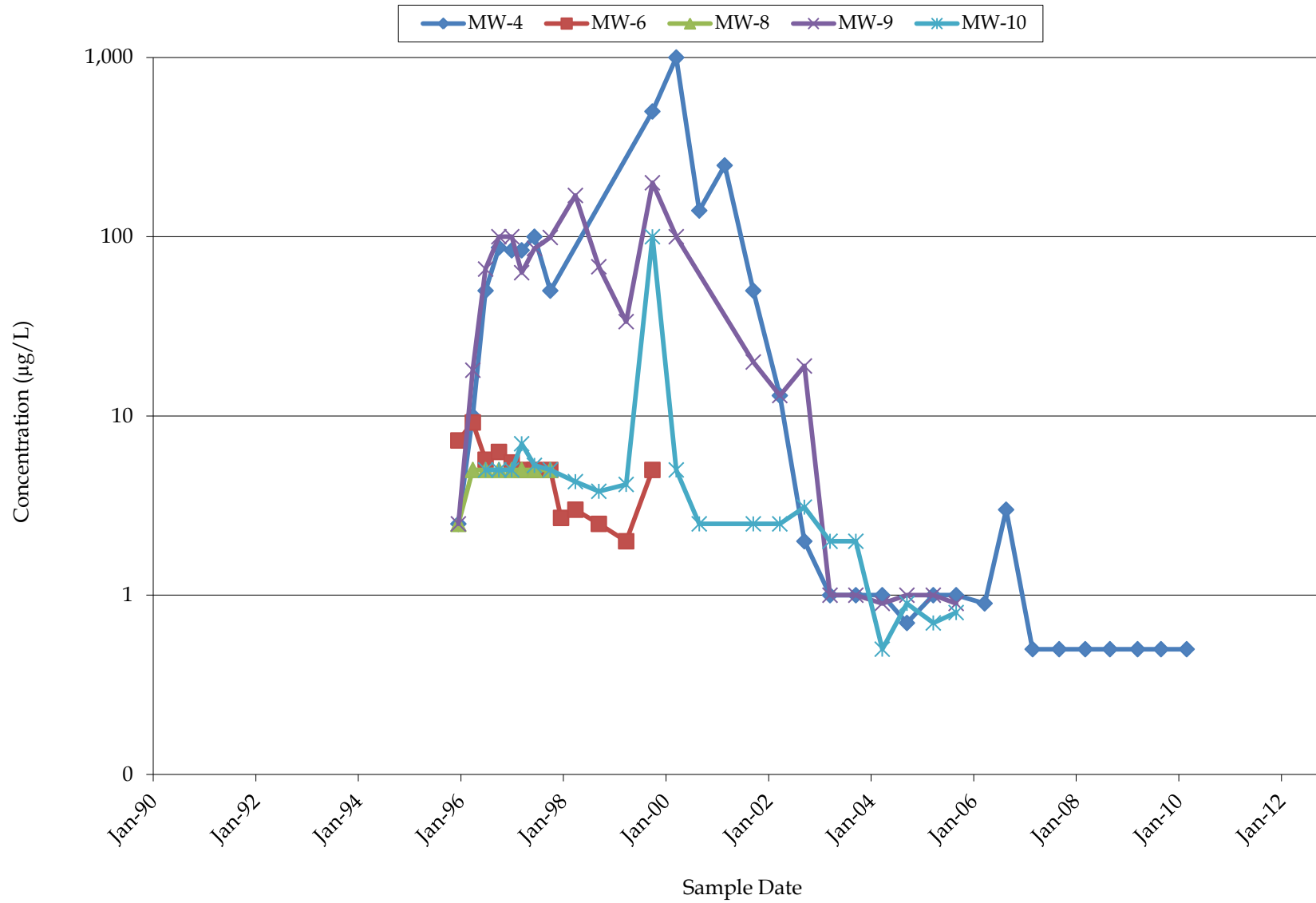
Graph
2

CHEVRON SERVICE STATION 95542
7007 SAN RAMON ROAD
DUBLIN, CA



**CONESTOGA-ROVERS
& ASSOCIATES**

MONITORING WELLS MW-4, MW-6, MW-8,
MW-9, AND MW-10
BENZENE CONCENTRATIONS
VERSUS TIME



Graph
3

CHEVRON SERVICE STATION 95542
7007 SAN RAMON ROAD
DUBLIN, CA



MONITORING WELLS MW-4, MW-6, MW-8,
MW-9, AND MW-10
MTBE CONCENTRATIONS
VERSUS TIME

ATTACHMENT E
LABORATORY REPORTS



GTEL

ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Ln., Concord, CA 94520
(415) 685-7852
In CA: (800) 544-3422
Outside CA: (800) 423-7143

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: H46CWC0244-9-X
Facility Number: NONE GIVEN
Work Order Number: D002436
Report Issue Date: February 20, 1990

UIC
Tank Bottom

T 2-16-90

LUCIA CHOU
CHEVRON U.S.A INC.
P.O. BOX 5004
SAN RAMON, CA 94583

DEAR MS. CHOU:

Attached please find the analytical results for the samples received by GTEL on February 16, 1990.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the California State Department of Health Services under certificate number 194.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Emma P. Popek
Laboratory Director

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: NONE GIVEN
 Work Order Number: D002436
 Report Issue Date: February 20, 1990

Table 1
 ANALYTICAL RESULTS
 Purgeable Hydrocarbons in Soil
 EPA Method 8240

Date Sampled		02/13/90	02/13/90		
Date Analyzed		02/16/90	02/16/90		
Client Identification		1322-7	1322-8		
GTEL Sample Number		01	02		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Chloromethane	500	<500	<500		
Bromomethane	500	<500	<500		
Vinyl Chloride	500	<500	<500		
Chloroethane	500	<500	<500		
Methylene Chloride	250	<250	<250		
Acetone	5000	<5000	<5000		
Carbon Disulfide	250	<250	<250		
1,1-Dichloroethene	250	<250	<250		
1,1-Dichloroethane	250	<250	<250		
trans-1,2-Dichloroethene	250	<250	<250		
Chloroform	250	<250	<250		
1,2-Dichloroethane	250	<250	<250		
2-Butanone	5000	<5000	<5000		
1,1,1-Trichloroethane	250	<250	<250		
Carbon Tetrachloride	250	<250	<250		
Vinyl Acetate	2500	<2500	<2500		
Bromodichloromethane	250	<250	<250		
1,2-Dichloropropane	250	<250	<250		
cis-1,3-Dichloropropene	250	<250	<250		
Trichloroethene	250	<250	<250		
Dibromochloromethane	250	<250	<250		
1,1,2-Trichloroethane	250	<250	<250		
Benzene	250	<250	<250		
trans-1,3-Dichloropropene	250	<250	<250		
2-Chloroethylvinylether	500	<500	<500		

Table 1 continued on page 3

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: NONE GIVEN
 Work Order Number: D002436
 Report Issue Date: February 21, 1990

Table 1 con't

ANALYTICAL RESULTS

Purgeable Hydrocarbons in Soil
EPA Method 8240

Date Sampled		02/13/90	02/13/90		
Date Analyzed		02/16/90	02/16/90		
Client Identification		1322-7	1322-8		
GTEL Sample Number		01	02		
Analyte	Detection Limit,ug/Kg	Concentration, ug/Kg			
Bromoform	250	<250	<250		
4-Methyl-2-Pentanone	2500	<2500	<2500		
2-Hexanone	2500	<2500	<2500		
Tetrachloroethene	250	<250	<250		
1,1,2,2-Tetrachloroethane	250	<250	<250		
Toluene	250	<250	<250		
Chlorobenzene	250	<250	<250		
Ethylbenzene	250	<250	<250		
Styrene	250	<250	<250		
1,2-Dichlorobenzene	250	<250	<250		
1,3-Dichlorobenzene	250	<250	<250		
1,4-Dichlorobenzene	250	<250	<250		
Xylene (total)	250	<250	<250		
Trichlorofluoromethane	250	<250	<250		

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: NONE GIVEN
Work Order Number: D002436
Report Issue Date: February 20, 1990

QA Conformance Summary
Purgeable Hydrocarbons in Soil
EPA Method 8240

- 1.0 Blanks
Four of 39 target compounds found in Reagent water blank and MeOH blank as shown in Tables 2 and 2a.
- 2.0 Independent QC Check Sample
The control limits were met for 8 of 8 QC check compounds in the aqueous QC check sample as shown in Table 3.
- 3.0 Surrogate Compound Recoveries
Recovery limits were met for all three surrogate compounds for all samples as shown in Tables 4a, 4b, and 4c.
- 4.0 Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Accuracy and Precision
4.1 Accuracy:
Percent recovery limits were met for 10 of 10 compounds in the MS and MSD as shown in Table 5.
4.2 Precision:
Relative Percent Difference (RPD) criteria were met for 5 of 5 compounds in the MS and MSD as shown in Table 5.
- 5.0 Sample Handling
5.1 Sample handling and holding time criteria were met for all samples.
5.2 There were no exceptional conditions requiring dilution of samples.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: NONE GIVEN
 Work Order Number: D002436
 Report Issue Date: February 20, 1990

Table 2
 REAGENT WATER BLANK DATA

Purgeable Hydrocarbons in Soil
 EPA Method 8240

Date of Analysis: 02/16/90

Analyte	Observed Result, ug/Kg
Chloromethane	ND
Bromomethane	ND
Vinyl Chloride	ND
Chloroethane	ND
Methylene Chloride	ND
Acetone	ND
Carbon Disulfide	ND
1,1-Dichloroethene	ND
1,1-Dichloroethane	ND
trans-1,2-Dichloroethene	ND
Chloroform	ND
1,2-Dichloroethane	ND
2-Butanone	ND
1,1,1-Trichloroethane	ND
Carbon Tetrachloride	ND
Vinyl Acetate	ND
Bromodichloromethane	ND
1,2-Dichloropropane	ND
cis-1,3-Dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-Trichloroethane	ND
Benzene	ND
trans-1,3-Dichloropropene	ND
2-Chloroethylvinylether	ND

Table 2 continued on page 6

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: NONE GIVEN
Work Order Number: D002436
Report Issue Date: February 20, 1990

Table 2 con't
REAGENT WATER BLANK DATA
Purgeable Hydrocarbons in Soil
EPA Method 8240

Analyte	Observed Result, ug/Kg
Bromoform	ND
4-Methyl-2-Pentanone	ND
2-Hexanone	ND
Tetrachloroethene	ND
1,1,2,2-Tetrachloroethane	ND
Toluene	ND
Chlorobenzene	ND
Ethylbenzene	ND
Styrene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Xylene (total)	ND
Trichlorofluoromethane	ND

ND = Not detected above the statistical detection limit.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: NONE GIVEN
 Work Order Number: D002436
 Report Issue Date: February 20, 1990

Table 2a
 REAGENT MEOH BLANK DATA
 Purgeable Hydrocarbons in Soil
 EPA Method 8240

Date of Analysis: 02/16/90

Analyte	Observed Result, ug/Kg
Chloromethane	ND
Bromomethane	ND
Vinyl Chloride	ND
Chloroethane	ND
Methylene Chloride	ND
Acetone	600
Carbon Disulfide	ND
1,1-Dichloroethene	ND
1,1-Dichloroethane	ND
trans-1,2-Dichloroethene	ND
Chloroform	ND
1,2-Dichloroethane	ND
2-Butanone	ND
1,1,1-Trichloroethane	ND
Carbon Tetrachloride	ND
Vinyl Acetate	ND
Bromodichloromethane	ND
1,2-Dichloropropane	ND
cis-1,3-Dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-Trichloroethane	ND
Benzene	ND
trans-1,3-Dichloropropene	ND
2-Chloroethylvinylether	ND

Table 2a continued on page 8

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: NONE GIVEN
Work Order Number: D002436
Report Issue Date: February 20, 1990

Table 2a con't

REAGENT MECH BLANK DATA

Purgeable Hydrocarbons in Soil
EPA Method 8240

Analyte	Observed Result, ug/Kg
Bromoform	ND
4-Methyl-2-Pentanone	ND
2-Hexanone	ND
Tetrachloroethene	ND
1,1,2,2-Tetrachloroethane	ND
Toluene	165
Chlorobenzene	ND
Ethylbenzene	185
Styrene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Xylene (total)	815
Trichlorofluoromethane	ND

ND = Not detected above the statistical detection limit.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: NONE GIVEN
 Work Order Number: D002436
 Report Issue Date: February 20, 1990

Table 3
 INDEPENDENT QC CHECK SAMPLE RESULTS
 Purgeable Hydrocarbons in Soil
 EPA Method 8240

Date of Analysis: 02/06/90

Analyte	Expected Result, ug/L	Observed Result, ug/L	Recovery, %	Acceptability Limits, %
Trichloroethylene	50	52	104	60-140
Carbon Tetrachloride	50	51	102	80-120
1,1,1-Trichloroethane	50	52	104	60-140
1,1,2-Trichloroethane	50	57	114	60-140
Vinyl Chloride	50	45	90	60-140
Benzene	50	52	104	60-140
1,1-Dichloroethylene	50	49	98	60-140
1,2-Dichlorobenzene	50	55	110	60-140

Table 3a
 INDEPENDENT QC CHECK SAMPLE SOURCE
 Purgeable Hydrocarbons in Soil
 EPA Method 8240

Analyte	Lot Number	Source
Trichloroethylene	LA19682	PURGEABLE A SUPELCO
Carbon Tetrachloride	LA19682	PURGEABLE A SUPELCO
1,1,1-Trichloroethane	LA18769	PURGEABLE B SUPELCO
1,1,2-Trichloroethane	LA18769	PURGEABLE B SUPELCO
Vinyl Chloride	LA20078	PURGEABLE C SUPELCO
Benzene	LA18769	PURGEABLE B SUPELCO
1,1-Dichloroethylene	LA19682	PURGEABLE A SUPELCO
1,2-Dichlorobenzene	LA19682	PURGEABLE A SUPELCO

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: NONE GIVEN
Work Order Number: D002436
Report Issue Date: February 21, 1990

Table 4a
SURROGATE COMPOUND RECOVERY
d8-Toluene

Purgeable Hydrocarbons in Soil
EPA Method 8240

Recovery Acceptability Limits¹: 81 - 117 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recov- ery, %
Water Blank	50	50	100
MeOH Blank	50	50	100
01	50	50	100
02	50	50	100
MS	50	50	100
MSD	50	51	102

MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: NONE GIVEN
Work Order Number: D002436
Report Issue Date: February 20, 1990

Table 4b
SURROGATE COMPOUND RECOVERY
Bromofluorobenzene
Purgeable Hydrocarbons in Soil
EPA Method 8240

Recovery Acceptability Limits¹: 74 - 121 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recovery, %
Water Blank	50	50	100
MeOH Blank	50	50	100
01	50	50	100
02	50	50	100
MS	50	50	100
MSD	50	51	102

MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: NONE GIVEN
Work Order Number: D002436
Report Issue Date: February 21, 1990

Table 4c
SURROGATE COMPOUND RECOVERY
d4-1,2-Dichloroethane
Purgeable Hydrocarbons in Soil
EPA Method 8240

Recovery Acceptability Limits¹: 70 - 121 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recov- ery, %
Water Blank	50	54	108
MeOH Blank	50	56	112
01	50	56	112
02	50	57	114
MS	50	57	114
MSD	50	56	112

MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: NONE GIVEN
 Work Order Number: D002436
 Report Issue Date: February 20, 1990

Table 5
 MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
 RECOVERY AND RELATIVE PERCENT DEVIATION (RPD)
 REPORT

Purgeable Hydrocarbons in Soil
 EPA Method 8240

Date of Analysis: 02/16/90
 Sample Spiked: 01

Client ID: 1322-7
 Units: ug/Kg

Analyte	Sample Result	Amount Added	MS Result	MSD Result
1,1-Dichloroethene	ND	2500	2050	2000
Trichloroethene	ND	2500	2000	2000
Benzene	ND	2500	1950	1950
Toluene	ND	2500	2000	2050
Chlorobenzene	ND	2500	2200	2200

Analyte	MS, % Recovery	MSD, % Recovery	RPD, %	Acceptability Limits ¹	
				Maximum RPD, %	% Recovery
1,1-Dichloroethene	82	80	2	22	59-172
Trichloroethene	80	80	0	24	62-137
Benzene	78	78	0	21	66-142
Toluene	80	82	2	21	59-139
Chlorobenzene	88	88	0	21	60-133

ND = Not Detected above the statistical detection limit
 1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: None Given
 Work Order Number: D002437
 Report Issue Date: February 26, 1990

Table 1
 ANALYTICAL RESULTS
 Semi-Volatile Organics in Soil
 EPA Method 8270

GTEL Sample Number		01	02		
Client Identification		1322-7	1322-8		
Date Sampled		02/13/90	02/13/90		
Date Extracted		02/20/90	02/20/90		
Date Analyzed		02/21/90	02/21/90		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Phenol	660	<660	<660		
bis(2-Chloroethyl) Ether	660	<660	<660		
2-Chlorophenol	660	<660	<660		
1,3-Dichlorobenzene	660	<660	<660		
1,4-Dichlorobenzene	660	<660	<660		
Benzyl Alcohol	1300	<1300	<1300		
1,2-Dichlorobenzene	660	<660	<660		
2-Methylphenol	660	<660	<660		
bis(2-Chloroisopropyl) Ether	660	<660	<660		
4-Methylphenol	660	<660	<660		
N-Nitroso-di-n-propylamine	660	<660	<660		
Hexachloroethane	660	<660	<660		
Nitrobenzene	660	<660	<660		
Isophorone	660	<660	<660		
2-Nitrophenol	660	<660	<660		
2,4-Dimethylphenol	660	<660	<660		
Benzoic Acid	3300	<3300	<3300		
bis(2-Chloroethoxy)methane	660	<660	<660		
2,4-Dichlorophenol	660	<660	<660		
1,2,4-Trichlorobenzene	660	<660	<660		
Naphthalene	660	<660	<660		
4-Chloroaniline	660	<660	<660		
Hexachlorobutadiene	660	<660	<660		
4-Chloro-3-methylphenol	1300	<1300	<1300		
2-Methylnaphthalene	660	<660	<660		

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: None Given
 Work Order Number: D002437
 Report Issue Date: February 26, 1990

Table 1 (Continued)

ANALYTICAL RESULTS

Semi-Volatile Organics in Soil
 EPA Method 8270

GTEL Sample Number		01	02		
Client Identification		1322-7	1322-8		
Date Sampled		02/13/90	02/13/90		
Date Extracted		02/20/90	02/20/90		
Date Analyzed		02/21/90	02/21/90		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Hexachlorocyclopentadiene	660	<660	<660		
2,4,6-Trichlorophenol	660	<660	<660		
2,4,5-Trichlorophenol	660	<660	<660		
2-Chloronaphthalene	660	<660	<660		
2-Nitroaniline	3300	<3300	<3300		
Dimethylphthalate	660	<660	<660		
Acenaphthylene	660	<660	<660		
3-Nitroaniline	3300	<3300	<3300		
Acenaphthene	660	<660	<660		
2,4-Dinitrophenol	3300	<3300	<3300		
4-Nitrophenol	3300	<3300	<3300		
Dibenzofuran	660	<660	<660		
2,4-Dinitrotoluene	660	<660	<660		
2,6-Dinitrotoluene	660	<660	<660		
Diethylphthalate	660	<660	<660		
4-Chlorophenyl-phenyl Ether	660	<660	<660		
Fluorene	660	<660	<660		
4-Nitroaniline	3300	<3300	<3300		
4,6-Dinitro-2-methylphenol	3300	<3300	<3300		
N-Nitrosodiphenylamine ¹	660	<660	<660		
4-Bromophenyl Ether	660	<660	<660		
Hexachlorobenzene	660	<660	<660		
Pentachlorophenol	3300	<3300	<3300		
Phenanthrene	660	<660	<660		
Anthracene	660	<660	<660		

1 = Cannot be separated from diphenylamine.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: None Given
 Work Order Number: D002437
 Report Issue Date: February 26, 1990

Table 1 (Continued)

ANALYTICAL RESULTS

Semi-Volatile Organics in Soil
 EPA Method 8270

GTEL Sample Number		01	02		
Client Identification		1322-7	1322-8		
Date Sampled		02/13/90	02/13/90		
Date Extracted		02/20/90	02/20/90		
Date Analyzed		02/21/90	02/21/90		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Di-n-butylphthalate	660	<660	<660		
Fluoranthene	660	<660	<660		
Pyrene	660	<660	<660		
Butylbenzylphthalate	660	<660	<660		
3,3'-Dichlorobenzidine	660	<660	<660		
Benzo[a]anthracene	660	<660	<660		
bis(2-Ethylhexyl)phthalate	660	<660	<660		
Chrysene	660	<660	<660		
Di-n-octylphthalate	660	<660	<660		
Benzo[b]fluoranthene	660	<660	<660		
Benzo[k]fluoranthene	660	<660	<660		
Benzo[a]pyrene	660	<660	<660		
Indeno[1,2,3-cd]pyrene	660	<660	<660		
Dibenz[a,h]anthracene	660	<660	<660		
Benzo[g,h,i]perylene	660	<660	<660		
Benzidine	3300	<3300	<3300		

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: H46CWC0244-9-X
Facility Number: None Given
Work Order Number: D002437
Report Issue Date: February 26, 1990

QA Conformance Summary
Semi-Volatile Organics in Soil
EPA Method 8270

1.0 Blanks

One of 66 target compounds found in Reagent blank as shown in Table 2.

2.0 Surrogate Compound Recoveries

Recovery limits were met for at least 5 of 6 surrogate compounds for all samples as shown in Tables 3a, 3b, 3c, 3d, 3e and 3f.

3.0 Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Accuracy and Precision

3.1 Accuracy:

Percent recovery limits were met for 16 of 22 compounds in the MS and MSD as shown in Table 4.

3.2 Precision:

Relative percent difference (RPD) criteria were met for 11 of 11 compounds in the MS and MSD as shown in Table 4.

4.0 Sample Handling

4.1 Sample handling and holding time criteria were met for all samples.

4.2 There were no exceptional conditions requiring dilution of samples.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: None Given
 Work Order Number: D002437
 Report Issue Date: February 26, 1990

Table 2
 REAGENT BLANK DATA
 Semi-Volatile Organics in Soil
 EPA Method 8270

Date of Analysis: 02/21/90

Analyte	Observed Result, ug/Kg
Phenol	ND
bis(2-Chloroethyl) Ether	ND
2-Chlorophenol	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Benzyl Alcohol	ND
1,2-Dichlorobenzene	ND
2-Methylphenol	ND
bis(2-Chloroisopropyl) Ether	ND
4-Methylphenol	ND
N-Nitroso-di-n-propylamine	ND
Hexachloroethane	ND
Nitrobenzene	ND
Isophorone	ND
2-Nitrophenol	ND
2,4-Dimethylphenol	ND
Benzoic Acid	ND
bis(2-Chlorethoxy)methane	ND
2,4-Dichlorophenol	ND
1,2,4-Trichlorobenzene	ND
Naphthalene	ND
4-Chloroaniline	ND
Hexachlorobutadiene	ND
4-Chloro-3-methylphenol	ND
2-Methylnaphthalene	ND

ND = Not detected above the statistical detection limit.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: None Given
 Work Order Number: D002437
 Report Issue Date: February 26, 1990

Table 2 (Continued)

REAGENT BLANK DATA

Semi-Volatile Organics in Soil
 EPA Method 8270

Analyte	Observed Result, ug/Kg
Hexachlorocyclopentadiene	ND
2,4,6-Trichlorophenol	ND
2,4,5-Trichlorophenol	ND
2-Chloronaphthalene	ND
2-Nitroaniline	ND
Dimethylphthalate	ND
Acenaphthylene	ND
3-Nitroaniline	ND
Acenaphthene	ND
2,4-Dinitrophenol	ND
4-Nitrophenol	ND
Dibenzofuran	ND
2,4-Dinitrotoluene	ND
2,6-Dinitrotoluene	ND
Diethylphthalate	ND
4-Chlorophenyl-phenyl Ether	ND
Fluorene	ND
4-Nitroaniline	ND
4,6-Dinitro-2-methylphenol	ND
N-Nitrosodiphenylamine	ND
4-Bromophenyl Ether	ND
Hexachlorobenzene	ND
Pentachlorophenol	ND
Phenanthrene	ND
Anthracene	ND

ND = Not detected above the statistical detection limit.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: None Given
Work Order Number: D002437
Report Issue Date: February 26, 1990

Table 2 (Continued)

REAGENT BLANK DATA

Semi-Volatile Organics in Soil
EPA Method 8270

Analyte	Observed Result, ug/Kg
Di-n-butylphthalate	4800
Fluoranthene	ND
Pyrene	ND
Butylbenzylphthalate	ND
3,3'-Dichlorobenzidine	ND
Benzo[a]anthracene	ND
bis(2-Ethylhexyl)phthalate	ND
Chrysene	ND
Di-n-octylphthalate	ND
Benzo[b]fluoranthene	ND
Benzo[k]fluoranthene	ND
Benzo[a]pyrene	ND
Indeno[1,2,3-cd]pyrene	ND
Dibenz[a,h]anthracene	ND
Benzo[g,h,i]perylene	ND
Benzidine	ND

ND = Not detected above the statistical detection limit.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: None Given
Work Order Number: D002437
Report Issue Date: February 26, 1990

Table 3a
SURROGATE COMPOUND RECOVERY
d5-Nitrobenzene
Semi-Volatile Organics in Soil
EPA Method 8270

Recovery Acceptability Limits¹: 23 - 120 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recov- ery, %
Blank	50	33	66
01	50	32	64
02	50	28	56
MS	50	36	72
MSD	50	37	74

MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: None Given
Work Order Number: D002437
Report Issue Date: February 26, 1990

Table 3b
SURROGATE COMPOUND RECOVERY
2-Fluorobiphenyl
Semi-Volatile Organics in Soil
EPA Method 8270

Recovery Acceptability Limits¹: 30 - 115 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recov- ery, %
Blank	50	32	64
01	50	31	62
02	50	31	62
MS	50	34	68
MSD	50	35	70

MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: None Given
Work Order Number: D002437
Report Issue Date: February 26, 1990

Table 3c
SURROGATE COMPOUND RECOVERY
d14-Terphenyl
Semi-Volatile Organics in Soil
EPA Method 8270

Recovery Acceptability Limits¹: 18 - 137 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recov- ery, %
Blank	50	35	70
01	50	33	67
02	50	34	69
MS	50	36	73
MSD	50	34	69

MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: None Given
Work Order Number: D002437
Report Issue Date: February 26, 1990

Table 3d
SURROGATE COMPOUND RECOVERY
d5-Phenol
Semi-Volatile Organics in Soil
EPA Method 8270

Recovery Acceptability Limits¹: 24 - 113 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recov- ery, %
Blank	100	65	65
01	100	53	53
02	100	44	44
MS	100	78	78
MSD	100	82	82

MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: None Given
Work Order Number: D002437
Report Issue Date: February 26, 1990

Table 3e
SURROGATE COMPOUND RECOVERY
2-Fluorophenol
Semi-Volatile Organics in Soil
EPA Method 8270

Recovery Acceptability Limits¹: 25 - 121 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recov- ery, %
Blank	100	35	35
01	100	24	24
02	100	20	24
MS	100	25	25
MSD	100	ND	ND

ND = Not detected
MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
Consultant Project Number: 900213K1
Contract Number: N46CWC0244-9-X
Facility Number: None Given
Work Order Number: D002437
Report Issue Date: February 26, 1990

Table 3f
SURROGATE COMPOUND RECOVERY
2,4,6-Tribromophenol
Semi-Volatile Organics in Soil
EPA Method 8270

Recovery Acceptability Limits¹: 19 - 122 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recov- ery, %
Blank	100	70	70
01	100	58	58
02	100	55	55
MS	100	75	75
MSD	100	75	75

MS = Matrix spike sample
MSD = Matrix spike duplicate sample
1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project Number: SFB-175-0204.72
 Consultant Project Number: 900213K1
 Contract Number: N46CWC0244-9-X
 Facility Number: None Given
 Work Order Number: D002437
 Report Issue Date: February 26, 1990

Table 4
 MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
 RECOVERY AND RELATIVE PERCENT DEVIATION (RPD)
 REPORT

Semi-Volatile Organics in Soil
 EPA Method 8270

Date of Analysis: 02/21/90
 Sample Spiked: 01

Client ID: 1322-7
 Units: ug/Kg

Analyte	Sample Result	Amount Added	MS Result	MSD Result
Phenol	ND	100	96	103
2-Chlorophenol	ND	100	92	98
4-Chloro-3-methylphenol	ND	100	87	92
4-Nitrophenol	ND	100	105	102
Pentachlorophenol	ND	100	182	192
1,4-Dichlorobenzene	ND	50	41	40
N-Nitroso-di-n-propylamine	ND	50	71	80
1,2,4-Trichlorobenzene	ND	50	39	38
2,4-Dinitrotoluene	ND	50	37	38
Acenaphthene	ND	50	52	54
Pyrene	ND	50	51	50

Analyte	MS, % Recovery	MSD, % Recovery	RPD, %	Acceptability Limits ¹	
				Maximum RPD, %	% Recovery
Phenol	96	103	7	35	26- 90
2-Chlorophenol	92	98	6	50	25-102
4-Chloro-3-methylphenol	87	92	6	33	26-103
4-Nitrophenol	105	102	3	50	11-114
Pentachlorophenol	182	192	5	47	17-109
1,4-Dichlorobenzene	82	80	2	27	28-104
N-Nitroso-di-n-propylamine	142	160	11	38	41-126
1,2,4-Trichlorobenzene	78	76	3	23	38-107
2,4-Dinitrotoluene	74	76	3	47	28- 89
Acenaphthene	102	104	4	19	31-137
Pyrene	102	100	2	36	35-142

ND = Not Detected above the statistical detection limit
 1 = Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

**BLAINE
TECH SERVICES INC**

1370 TULLY ROAD SUITE 505
SAN JOSE, CA 95122
(408) 995-5535

CHAIN OF CUSTODY # 900214K1
SITE SPECIFICATION Chevron Station, 5372
7007 San Ramon Rd
Dublin, CA

() Bill BLAINE TECH SERVICES, Inc. : SPECIAL INSTRUCTIONS
(X) Bill CHEVRON

SAMPLE I.D.	QUANTITY	TYPE	OK	ANALYSIS TO DETECT	STATUS	RESULTS	LAB NUMBER
#16	1	S		TPH (GAS) BTAE	24hr		
#17	1	S		TPH (GAS) BTX/E	24hr		
#18	1	S		TPH (GAS) BTX/E	24hr		
<i>one Composite</i> #21, 22, 23, 24		S		TPH (GAS) BTX/E	24hr		

Field sampling was performed by John Finan Sampling was completed at 12:10 AM (PM) 02-14-90

RELEASE OF SAMPLES FROM (name, time, date) --->>>> INTO THE CUSTODY OF (name, time, date)
from John Finan at 12:10 AM (PM) 02-14-90 -> to John Finan at 12:10 AM (PM) 02-14-90
from @ : AM/PM -90 -> to @ : AM/PM -90
from @ : AM/PM -90 -> to @ : AM/PM -90

The laboratory designated to perform these analyses is: GTEL DHS HMTL # 194
NOTE: Procedures and detection limits must conform to SWQCB Region 2 specifications.
Please include chain of custody number and site specification on reports and invoices.