

3315 Almaden Expressway, Suite 34  
San Jose, CA 95118  
Phone: (408) 264-7723  
FAX: (408) 264-2435

**TRANSMITTAL**

**TO:** Mr. Scott Seery  
Alameda County Health Care Services  
80 Swan Way, Room 200  
Oakland, California 94621

**DATE:** April 2, 1993  
**PROJECT NUMBER:** 60006.05  
**SUBJECT:** ARCO Station 6041,  
7249 Village Parkway, Dublin

**FROM:** Barbara Sieminski  
**TITLE:** Assistant Project Geologist

**WE ARE SENDING YOU:**

COPIES	DATED	NO.	DESCRIPTION
1	4/2/93	60006.05	Final - Letter Report Quarterly Groundwater Monitoring, Fourth Quarter 1992 for the above subject site.

**THESE ARE TRANSMITTED** as checked below:

- For review and comment     Approved as submitted     Resubmit \_\_\_ copies for approval  
 As requested     Approved as noted     Submit \_\_\_ copies for distribution  
 For approval     Return for corrections     Return \_\_\_ corrected prints  
 For your files

**REMARKS:** cc: Mr. Michael Whelan, ARCO Products Company  
Mr. Richard Hiatt, RWQCB, San Francisco Bay Region  
Mr. Joel Coffman, RESNA Industries Inc.

Copies: 1 to RESNA project file no. 60006.05

93 JAN 14 11 00

January 13, 1993

Ms. Susan Hugo  
Alameda County Department of Environmental Health  
80 Swan Way  
Oakland, California 94621

**ARCO Products Company Facilities in Alameda County**

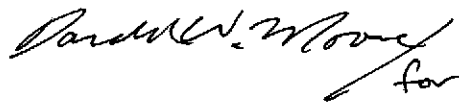
Dear Ms. Hugo:

Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the fourth quarter of 1992; also included are projected site activities for the first quarter of 1993 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,



*Kyle A. Christie*  
for

Kyle A. Christie  
Environmental Engineer

Attachments: ARCO Facility QSRs

UST LEAK                      Date of Last                      Current  
 SITE UPDATE                  Review/Update                  September 25, 1992                  Date                  December 28, 1992

**SITE IDENTIFICATION**

Name    ARCO Products Company 6041                      Case No. \_\_\_\_\_  
 Address    7249 Village Parkway  
                     Street Number                      Street  
                     Dublin  
                     City                      ZIP Code  
 County    Alameda                      Substance    Gasoline  
 Local Agency    Alameda County Health Care Services Agency  
 Regional Board    Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON    ACHCSA-Scott Seery

**CASE TYPE**

\_\_\_\_\_ Undetermined    \_\_\_\_\_ Soil Only      X   Groundwater    \_\_\_\_\_ Drinking Water

**STATUS** (Date indicates when case moved into status)

_____	No Action Taken	
<u>  X  </u>	Leak Being Confirmed	Date <u>9/26/90</u>
<u>  X  </u>	Preliminary Site Assessment Workplan Submitted	Date <u>8/22/91</u>
<u>  X  </u>	Preliminary Site Assessment Underway	Date <u>9/91</u>
_____	Pollution Characterization	Date    _____
_____	Remediation Plan	Date    _____
_____	Remedial Action Underway	Date    _____
_____	Post Remedial Action Monitoring	Date    _____
_____	Case Referred to Regional Board	Date    _____
_____	Case Referred to Dept. of Health Services	Date    _____
_____	Case Closed	Date    _____

**COMMENTS/MILESTONES:**

Waste-oil tank removed from site in June 1990; approximately 20 cubic yards of soil was removed. No further work necessary in area of former waste-oil tank (soil samples nondetectable). In response to a reported fuel spill, soil samples were collected on 9/26/90. Drilled borings (B-1-B-3) and installed groundwater wells (MW-1-MW-3) on 9/16/92. Installed three onsite monitoring wells (MW-4 through MW-6) and four vapor extraction wells (VW-1-VW-4) on 10/26-27/92. Performed VET on 11/10/92.

**RECENT ACTIVITIES/FINDINGS:**

Last Quarter Activities: Monthly groundwater monitoring and quarterly groundwater sampling were performed. The Second Quarter 1992 Quarterly Groundwater Monitoring Report was submitted. Submitted drafted Work Plan for Initial Offsite and Additional Onsite Subsurface Investigation on 9/29/92. Obtained permits for offsite wells.

Current Quarter Activities: Monthly groundwater monitoring and quarterly groundwater sampling were performed. Submitted Third Quarter 1992 Quarterly Groundwater Monitoring Report to regulatory agencies. Drilled & installed three onsite monitoring wells (MW-4-MW-6) and four vapor extraction wells (VW-1-VW-4) on 10/26-27/92. Developed & surveyed wells MW-4 through MW-6. Performed VET on 11/10/92. Initiated preparation of Additional Onsite Subsurface Investigation & Vapor Extraction Test Report.

**ANTICIPATED ACTIVITIES:**

Next Quarter Activities: Continue monthly groundwater monitoring and quarterly sampling. Submit Additional Onsite Subsurface Investigation & VET Report to regulatory agencies. Install recovery well & perform pumping test. Offsite portion of work on hold pending review of nearby UST sites.

Reports documenting the site's history are listed on page 2.

REPORTDATECONSULTANT

Letter Report Third Quarter 1992 Groundwater  
Monitoring  
60006.03

12/31/92

RESNA

Letter Report Second Quarter 1992 Groundwater  
Monitoring  
60006.03

9/30/92

RESNA

Work Plan for Initial Offsite  
& Additional Onsite Subsurface Investigation  
60006.04

9/29/92

RESNA

Letter Report First Quarter 1992 Groundwater  
Monitoring  
60006.03

5/1/92

RESNA

Letter Report Fourth Quarter 1991 Groundwater  
Monitoring Report  
60006.03

3/7/92

RESNA

Work Plan for Subsurface Investigation  
and Remediation at ARCO 6041  
60006.02

8/22/91

RESNA/Applied  
GeoSystems

Addendum One to Work Plan  
Subsurface Investigation at  
ARCO Station 6041  
60006.02

8/22/91

RESNA/Applied  
GeoSystems

Letter Report-Limited  
Subsurface Investigation Related  
to the Removal of Waste-Oil Tank  
at ARCO Station 6041  
60006.01

9/19/90

Applied GeoSystems

3315 Almaden Expressway, Suite 34  
San Jose, CA 95118  
Phone: (408) 264-7723  
FAX: (408) 264-2435

LETTER REPORT  
QUARTERLY GROUNDWATER MONITORING  
Fourth Quarter 1992  
at  
ARCO Station 6041  
7249 Village Parkway  
Dublin, California

60006.05

April 1993

3315 Almaden Expressway, Suite 34  
San Jose, CA 95118  
Phone: (408) 264-7723  
FAX: (408) 264-2435

April 2, 1993  
0325MWHE  
60006.05

Mr. Michael Whelan  
ARCO Products Company  
P.O. Box 5811  
San Mateo, California 94402

Subject: Fourth Quarter 1992 Groundwater Monitoring Report for ARCO Station  
6041, 7249 Village Parkway, Dublin, California.

Mr. Whelan:

As requested by ARCO Products Company (ARCO), RESNA Industries Inc. (RESNA) has prepared this letter report which summarizes the results of fourth quarter 1992 groundwater monitoring performed by ARCO's contractor, EMCON Associates (EMCON) of San Jose, California, at the above-referenced site. The objectives of this quarterly groundwater monitoring are to evaluate changes in the groundwater flow direction and gradient, and changes in concentrations of petroleum hydrocarbons in the local groundwater previously detected at the site. The field work and laboratory analyses of groundwater samples during this quarter were performed under the direction of EMCON and included measuring depth-to-water (DTW) levels, subjectively analyzing groundwater for the presence of petroleum product, collecting groundwater samples from the wells for laboratory analyses, and directing a State-certified laboratory to analyze the groundwater samples. Field procedures and acquisition of field data were performed under direction of EMCON; evaluation and warrant of their field data and field protocols is beyond RESNA Industries Inc.'s (RESNA's) scope of work. RESNA's scope of work was limited to interpretation of field and laboratory analyses data, which included evaluating trends in reported hydrocarbon concentrations in the local groundwater, the groundwater gradient, and flow direction beneath the site.

The operating ARCO Station 6041 is located in the northern corner of the intersection of Village Parkway and Amador Valley Boulevard in a commercial and residential area at 7249 Village Parkway, in Dublin, California. The site location is shown on the Site Vicinity Map, Plate 1.

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

Results of previous environmental investigations at the site are summarized in the reports listed in the References section. The location of the groundwater monitoring wells, borings, and pertinent site features are shown on the Generalized Site Plan, Plate 2.

### Groundwater Sampling and Gradient Evaluation

DTW levels were measured in groundwater monitoring wells MW-1 through MW-3 by RESNA field personnel on October 26, 1992, and in groundwater monitoring wells MW-1 through MW-6 by EMCON field personnel on November 10 and December 14, 1992. At the request of Mr. Scott Seery of Alameda County Health Care Services Agency (ACHCSA) the November monitoring of the wells at the ARCO site was coordinated with monitoring of the wells at three other sites located at the intersection of Village Parkway and Amador Boulevard (BP, former Shell, and Unocal Stations) to obtain more complete data for gradient evaluation. Quarterly sampling was performed by EMCON field personnel on November 10, 1992. The results of RESNA's and EMCON's field work on the site, including DTW levels and subjective analyses for the presence of product in the groundwater in onsite wells are presented on RESNA's and EMCON's Field Reports, and EMCON's Summary of Groundwater Monitoring Data. These data are included in Appendix A.

The DTW levels, wellhead elevations, groundwater elevations, and subjective observations of product in the groundwater from wells at the subject site for this and previous quarters are summarized in Table 1, Cumulative Groundwater Monitoring Data. DTW levels, wellhead elevations and groundwater elevations for groundwater monitoring wells at BP, former Shell, and Unocal Stations are reported in Table 2, Groundwater Monitoring Data; BP, Former Shell, and Unocal Stations. Evidence of product or sheen was not observed during this quarter in any of the wells at the ARCO site (see RESNA's and EMCON's Field Reports, Appendix A). The groundwater gradient, interpreted from RESNA's DTW levels for October 1992, and EMCON's DTW levels for November and December 1992, was approximately 0.002 ft/ft. The flow direction fluctuated from the south-southeast in October, to east-southeast in November, and to east-northeast in December. DTW measurements obtained on November 10, 1992, from wells located at BP, former Shell, and Unocal Stations were used to evaluate the gradient in the vicinity of ARCO Station 6041. The gradient in the vicinity of ARCO Station on November 10, 1992, was approximately 0.002 ft/ft toward east/southeast. This interpreted gradient is generally consistent with regional gradient direction. Plates 3 through 6, Groundwater Gradient Maps, are graphic interpretations of the groundwater elevations measured on October 26, November 10, and December 14, 1992. Plates 3 through 5 depict the groundwater gradient at the ARCO site, and Plate 6 depicts the groundwater gradient in the vicinity of the ARCO site.

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

Groundwater monitoring wells MW-1 through MW-6 were purged and sampled by EMCON field personnel on November 10, 1992. EMCON's water sample field data sheets are included in Appendix A. Purge water was removed from the site by a licensed hazardous waste hauler; the Monitoring Well Purge Water Disposal Form is also included in Appendix A.

### Laboratory Methods and Analyses

Water samples collected from the wells MW-1 through MW-6 were analyzed by Columbia Analytical Services, Inc., located in San Jose, California (Hazardous Waste Testing Laboratory Certification No. 1426), and analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection Agency (EPA) Methods 5030/8020/California DHS LUFT Methods. Concentrations of TPHg and benzene in the groundwater are shown on Plate 7, TPHg Concentrations in Groundwater; and Plate 8, Benzene Concentrations in Groundwater. The Chain of Custody Records and Laboratory Analyses Reports are included in Appendix A. Groundwater analytical results from this and previous quarters are summarized in Table 3, Cumulative Results of Laboratory Analyses of Groundwater.

Since the last quarter, concentrations of TPHg and BTEX remained nondetectable in well MW-2, increased in MW-1, and decreased in MW-3. Trends could not be evaluated for wells MW-4 through MW-6 because these wells were installed in October 1992.

### Conclusions

Groundwater in the shallow aquifer beneath the southern and southwestern portions of this site has been impacted by gasoline hydrocarbons. The extent of gasoline hydrocarbons in the groundwater appears to have been delineated to less than 50 ppb of TPHg beneath the northwestern, northern and eastern portions of the site. Based on our limited review of groundwater monitoring data from sites situated adjacent to and across from the ARCO site (Unocal, BP, and former Shell) it appears that the local groundwater has been impacted by gasoline sources from several sites situated upgradient and crossgradient of the ARCO site. Therefore, it appears that other generators in the vicinity and upgradient of the ARCO site should be responsible for evaluating the presence of gasoline hydrocarbons offsite.



Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

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It is recommended that copies of this report be forwarded to:

Mr. Scott Seery  
Alameda County Health Care Services Agency  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, California 94621

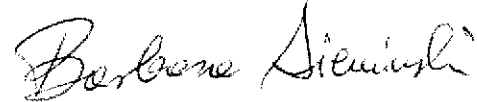
Mr. Richard Hiatt  
California Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, California 94612

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA


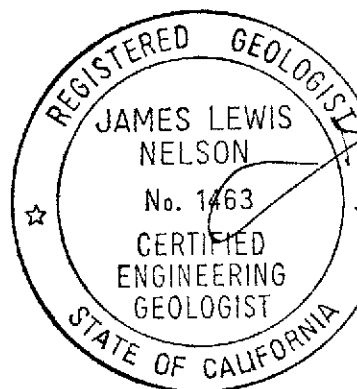
April 2, 1993  
60006.05

If you have any questions or comments, please call us at (408) 264-7723.

Sincerely,  
RESNA Industries Inc.



Barbara Sieminski  
Assistant Project Geologist



James L. Nelson  
Certified Engineering  
Geologist 1463

Enclosures: References

- Plate 1, Site Vicinity Map
- Plate 2, Generalized Site Plan
- Plate 3, Groundwater Gradient Map, October 26, 1992
- Plate 4, Groundwater Gradient Map, November 10, 1992
- Plate 5, Groundwater Gradient Map, December 14, 1992
- Plate 6, Aerial Groundwater Gradient Map, November 10, 1992
- Plate 7, TPHg Concentrations in Groundwater, November 10, 1992
- Plate 8, Benzene Concentrations in Groundwater, November 10, 1992
  
- Table 1, Cumulative Groundwater Monitoring Data
- Table 2, Cumulative Groundwater Monitoring Data; BP, Former Shell, and Unocal Stations
- Table 3, Cumulative Results of Laboratory Analyses of Groundwater Samples
  
- Appendix A: EMCON's Field Reports, Summary of Groundwater Monitoring Data, Certified Analytical Reports with Chain of Custody, Water Sample Field Data Sheets

RESNA's Field Report

Monitoring Well Purge Water Disposal Form

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

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REFERENCES

Alameda County Flood Control and Water Conservation District, Zone 7. January 16, 1991.  
Fall 1990 groundwater Level Report.

Applied GeoSystems. September 19, 1990. Letter Report Limited Environmental Investigation Related to the Removal of Waste-Oil Tank at ARCO Station 6041, 7249 Village Parkway, Dublin, California. 60006-1.

California Department of Water Resources, 1974. Evaluation of Ground-Water Resources Engineering Livermore and Sunol Valleys; Bulletin No. 118-2, Appendix A.

Department of Health Services, State of California. October 24, 1990. Summary of California Drinking Water Standards.

RESNA. August 22, 1991. Work Plan for Subsurface Investigation and Remediation at ARCO Station 6041, 7249 Village Parkway, Dublin, California. 60006.02.

RESNA. August 22, 1991. Addendum One to Work Plan for Subsurface Investigation and Remediation at ARCO Station 6041, 7249 Village Parkway, Dublin, California. 60006.02.

RESNA. August 30, 1991. Site Safety Plan. 60006.02S.

RESNA. February 12, 1992. Subsurface Environmental Investigation at ARCO Station 6041, 7249 Village Parkway, Dublin, California. 60006.02

RESNA. March 7, 1992. Letter Report, Quarterly Groundwater Monitoring, Fourth Quarter 1992 at ARCO Station, 6041, 7249 Village Parkway, Dublin, California. 60006.03

RESNA. May 1, 1992. Letter Report, Quarterly Groundwater Monitoring, First Quarter 1992 at ARCO Station, 6041, 7249 Village Parkway, Dublin, California. 60006.03

RESNA. September 25, 1992. Letter Report, Quarterly Groundwater Monitoring, Second Quarter 1992 at ARCO Station, 6041, 7249 Village Parkway, Dublin, California. 60006.03

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

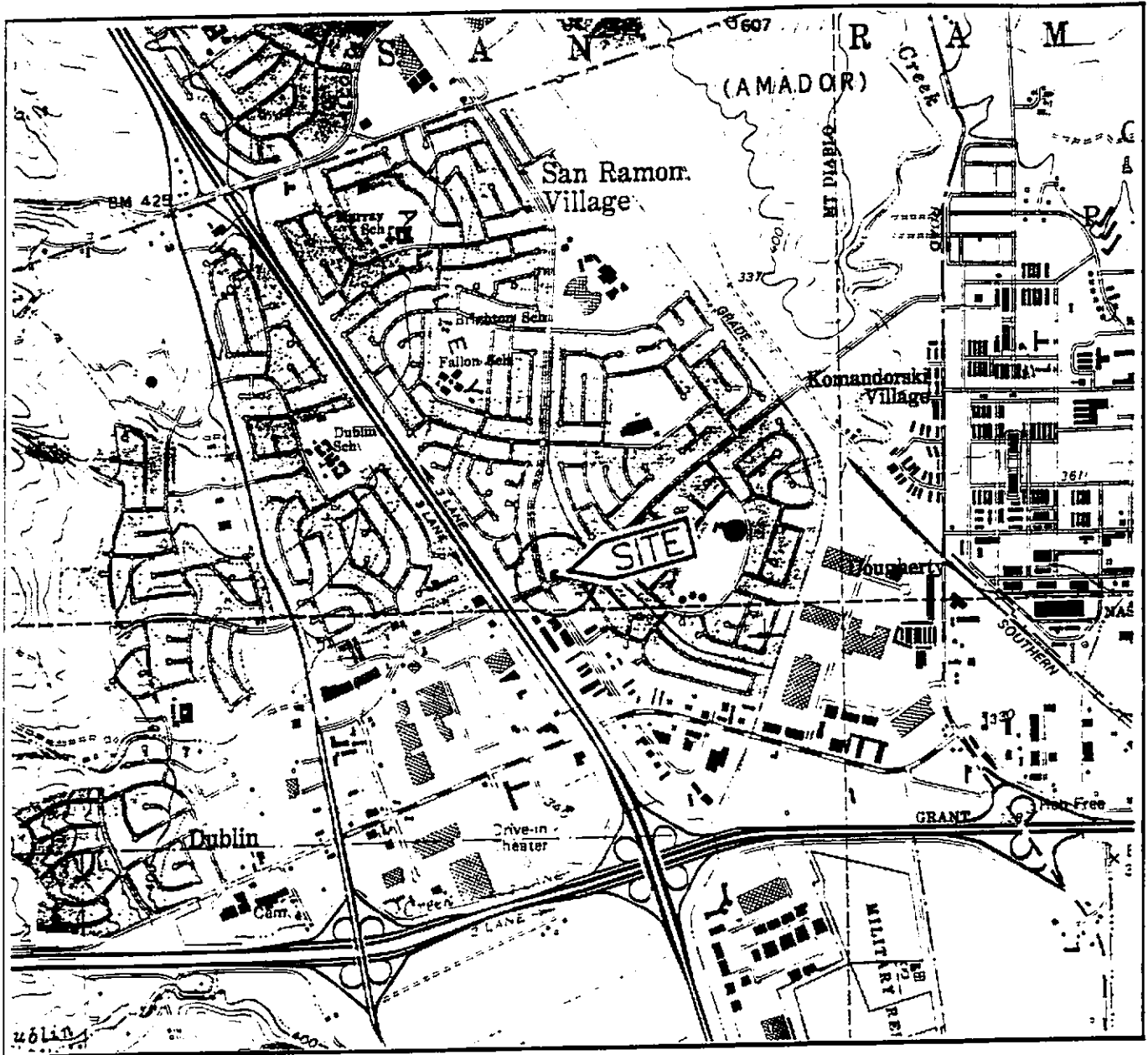
April 2, 1993  
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REFERENCES

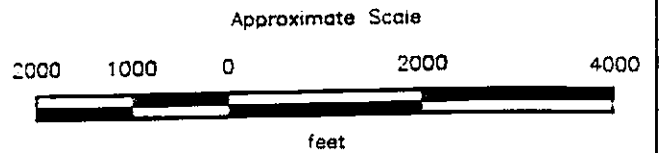
RESNA. September 29, 1992. Work Plan for Initial Offsite and Additional Onsite Subsurface Investigations at ARCO Station 6041, 7249 Village Parkway, Dublin, California. 60006.04

RESNA. December 29, 1992. Letter Report, Quarterly Groundwater Monitoring, Third Quarter 1992 at ARCO Station, 6041, 7249 Village Parkway, Dublin, California. 60006.03



Base: U.S. Geological Survey  
 7.5-Minute Cuadrangle  
 Dublin, California.  
 Photorevised 1980

LEGEND  
 ● = Site Location



**RESNA**  
 Working to Restore Nature

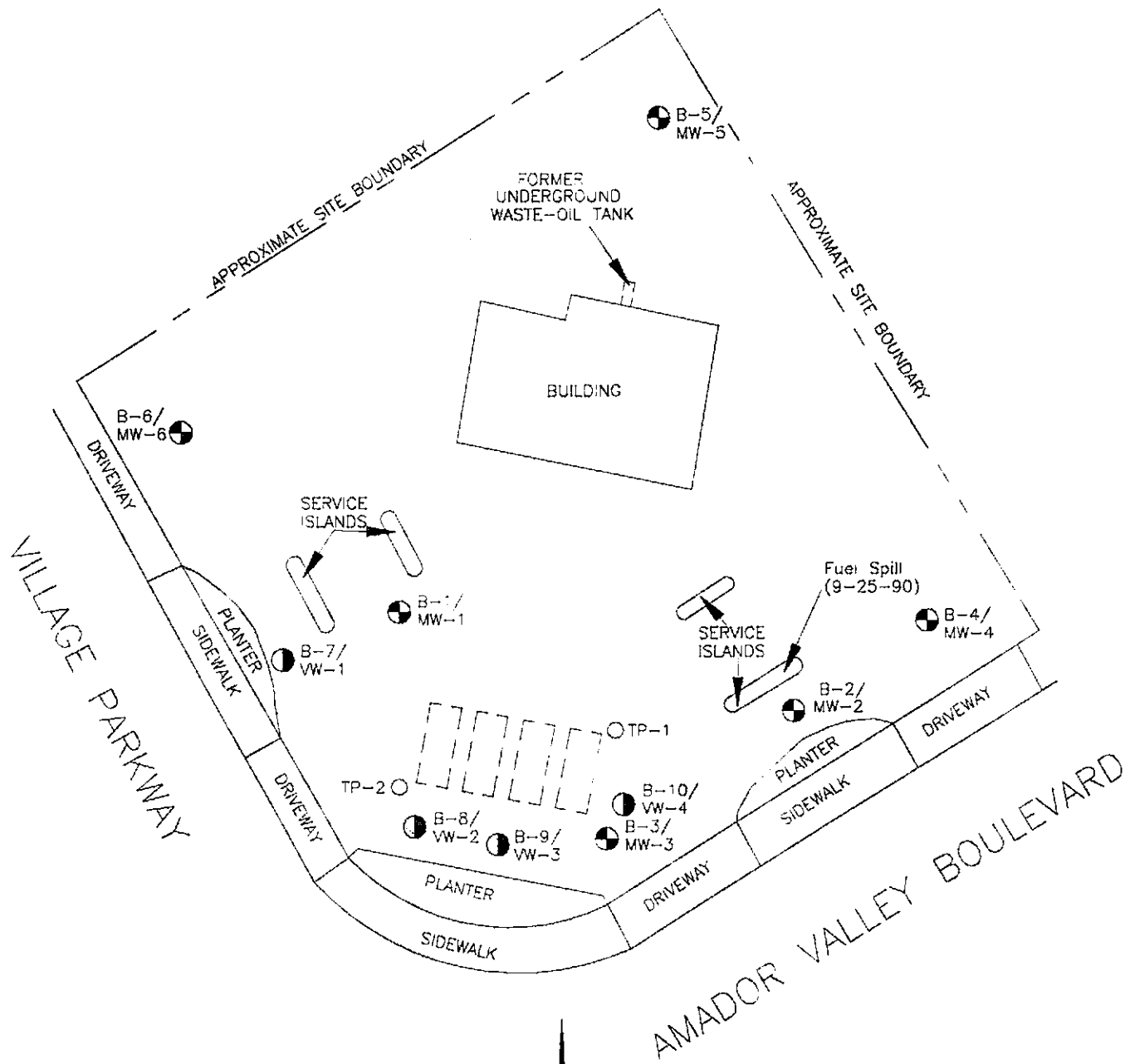
PROJECT

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SITE VICINITY MAP  
 ARCO Service Station 6041  
 7249 Village Parkway  
 Dublin, California

PLATE

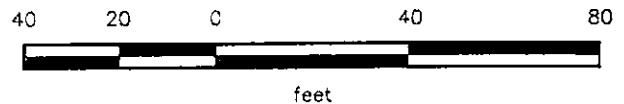
1



**EXPLANATION**

- B-6/  
MW-6  = Boring/groundwater monitoring well  
(RESNA, September 1991 and October 1992)
- B-10/  
VW-4  = Boring/vapor extraction well  
(RESNA, October 1992)
- TP-2  = Tank pit observation well
-  = Underground storage tanks

Approximate Scale



Source: Modified from plan supplied by ARCO.

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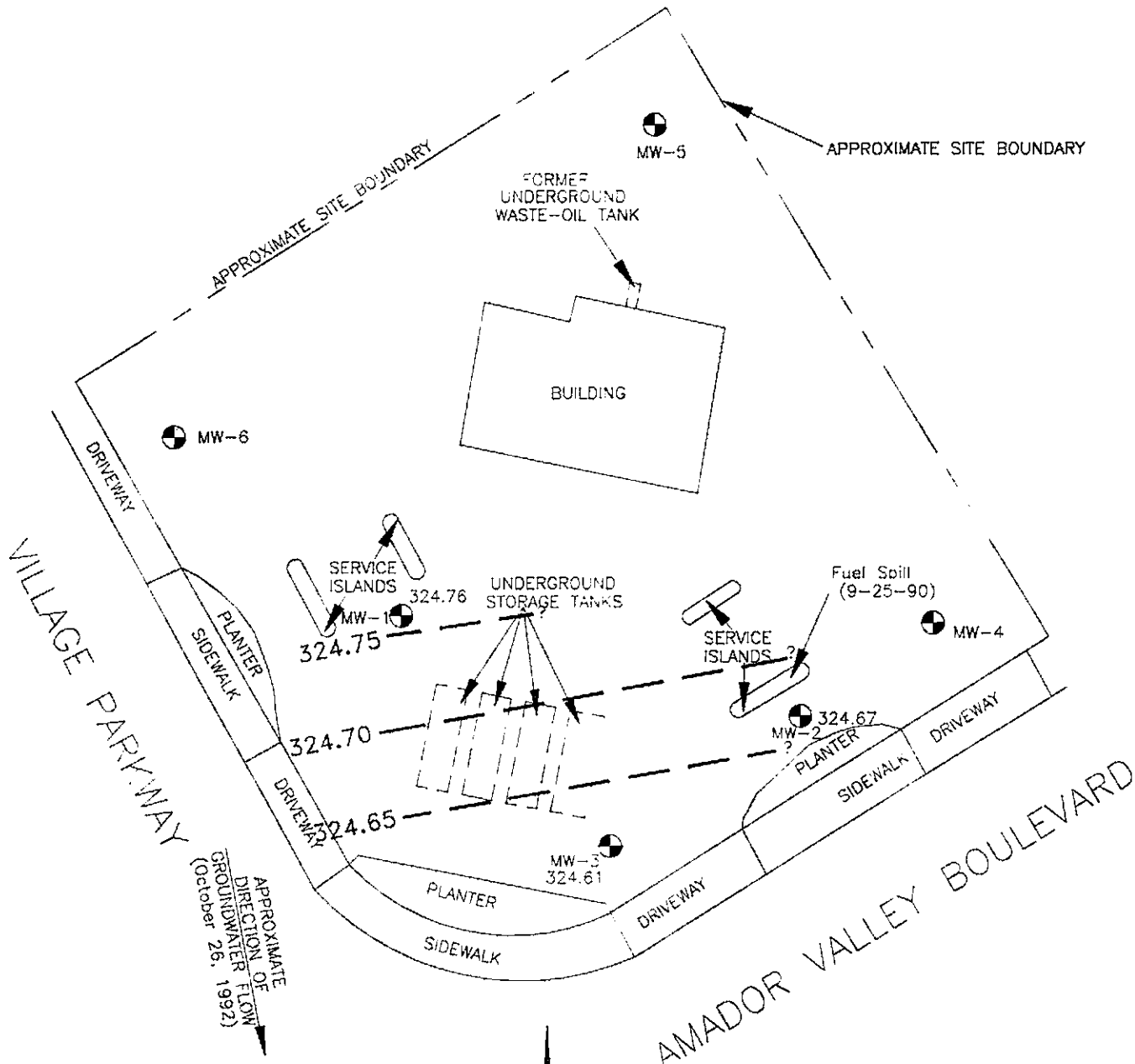
**GENERALIZED SITE PLAN**  
**ARCO Service Station 6041**  
**7249 Village Parkway**  
**Dublin, California**

**PLATE**  
**2**


**PROJECT**

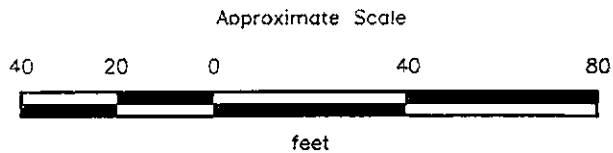
**60006.05**

80006-5



**EXPLANATION**

- 324.75 — = Line of equal elevation of groundwater in feet above mean sea level (MSL)
- 324.76 = Elevation of groundwater in feet above MSL, October 26, 1992
- MW-6  = Groundwater monitoring well (RESNA, September 1991 and October 1992)



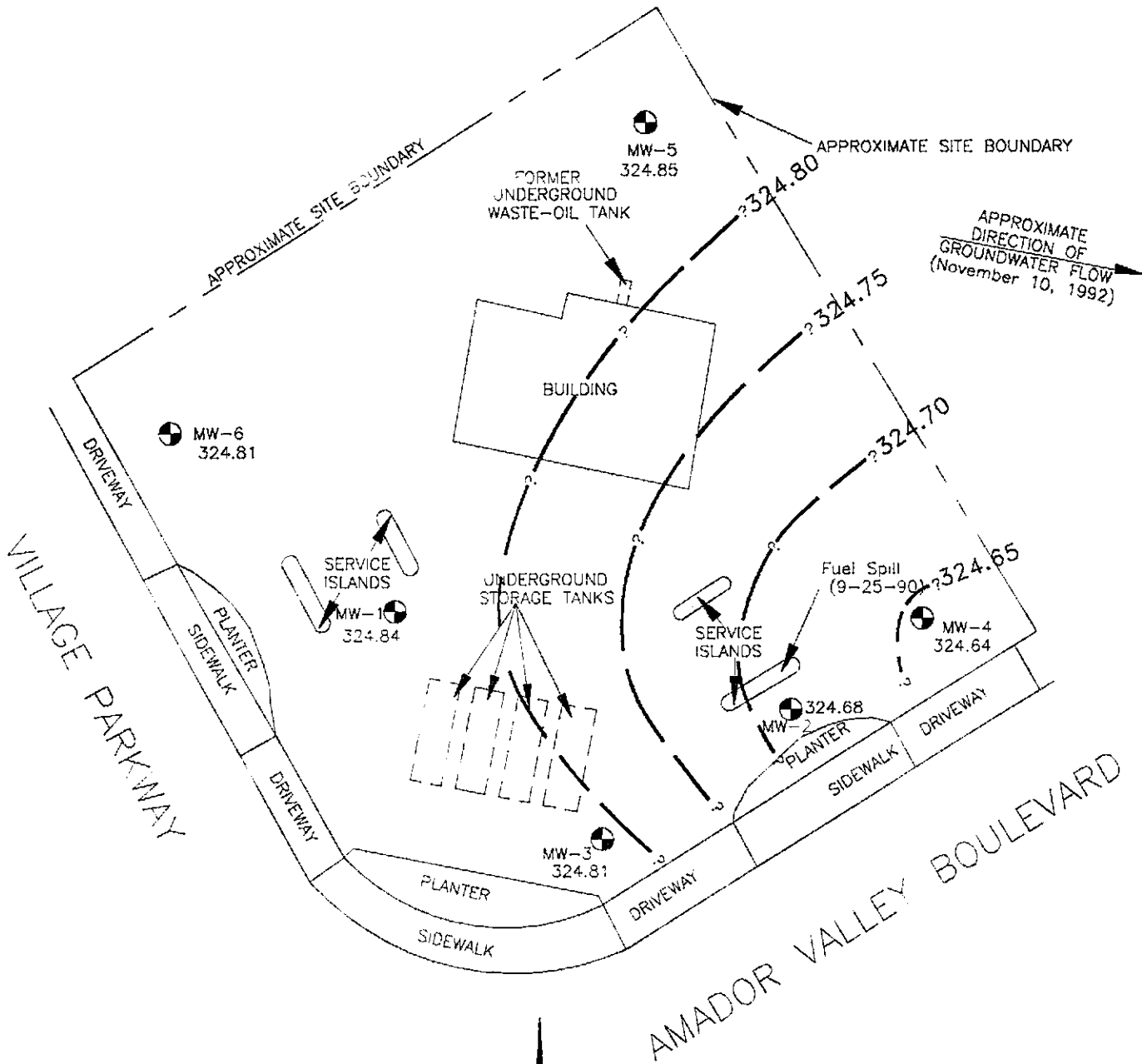
Source: Modified from plan supplied by ARCO.

**RESNA**  
 Working to Restore Nature

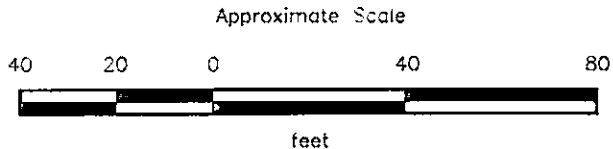
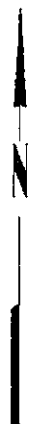
**GROUNDWATER GRADIENT MAP**  
**ARCO Service Station 6041**  
**7249 Village Parkway**  
**Dublin, California**

**PLATE**  
**3**

**PROJECT 60006.05** 60006504



- 324.80 = Line of equal elevation of groundwater in feet above mean sea level (MSL)
- 324.85 = Elevation of groundwater in feet above MSL, November 10, 1992
- MW-6 = Groundwater monitoring well (RESNA, September 1991 and October 1992)



Source: Modified from plan supplied by ARCO.

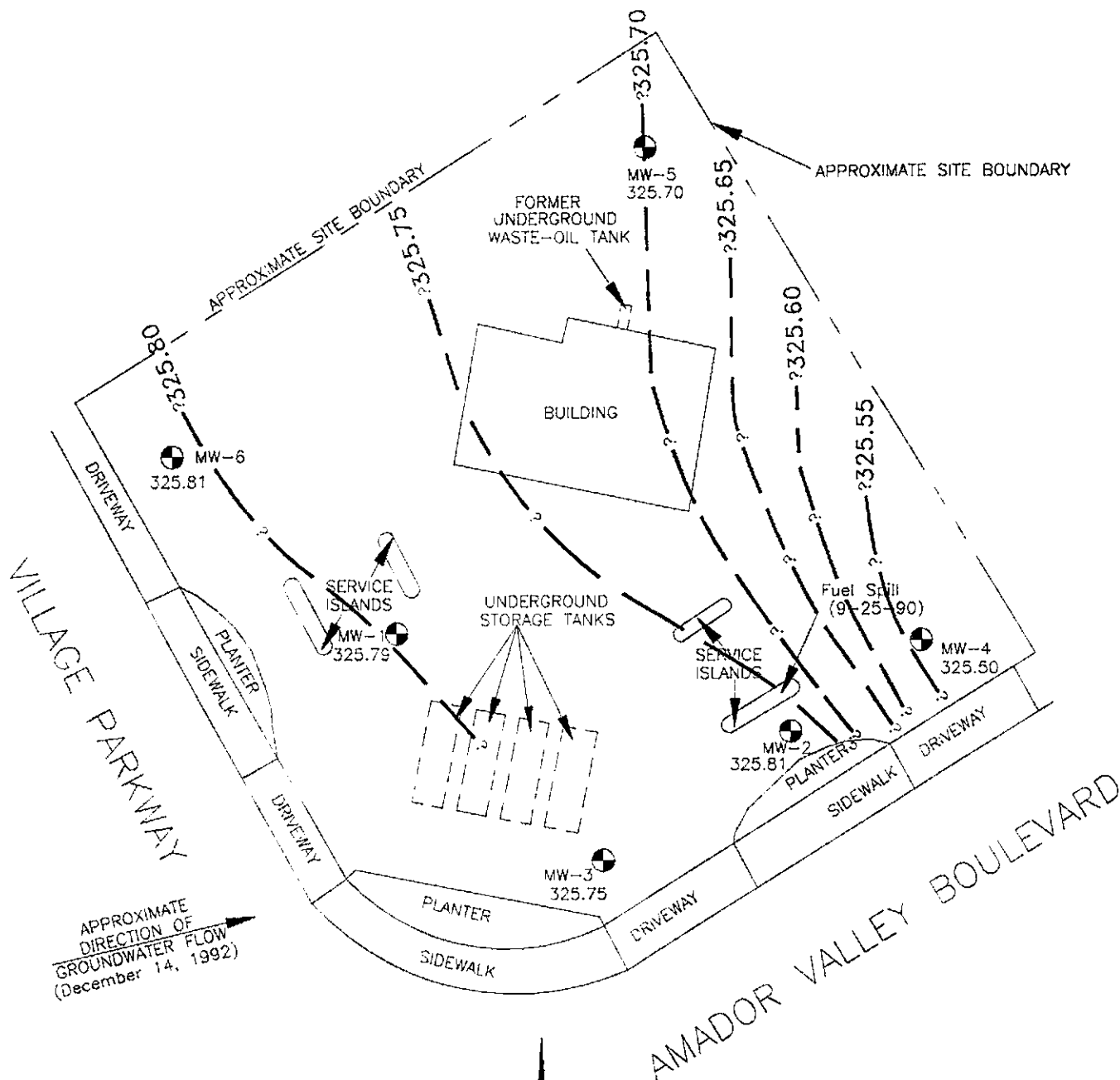


**GROUNDWATER GRADIENT MAP**  
**ARCO Service Station 6041**  
**7249 Village Parkway**  
**Dublin, California**

**PLATE**  
**4**


**PROJECT 60006.05** 80008504

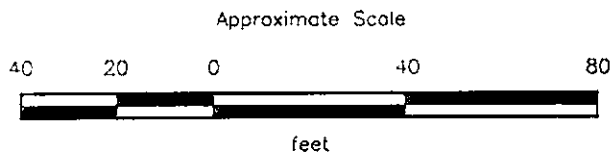




APPROXIMATE DIRECTION OF GROUNDWATER FLOW (December 14, 1992)

**EXPLANATION**

- 325.80 — = Line of equal elevation of groundwater in feet above mean sea level (MSL)
- 325.81 = Elevation of groundwater in feet above MSL, December 14, 1992
- MW-6  = Groundwater monitoring well (RESNA, September 1991 and October 1992)



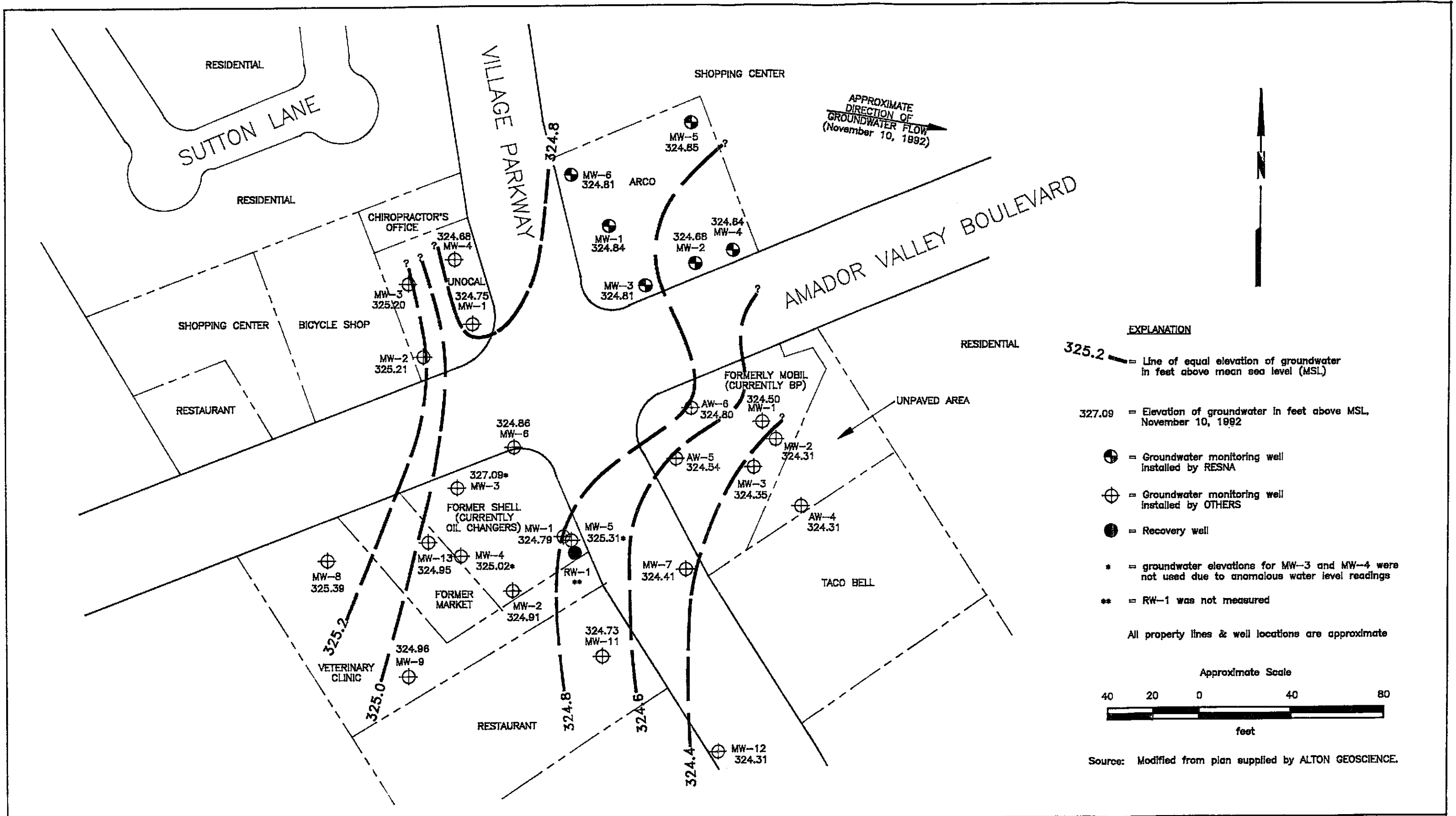
Source: Modified from plan supplied by ARCO.

**RESNA**  
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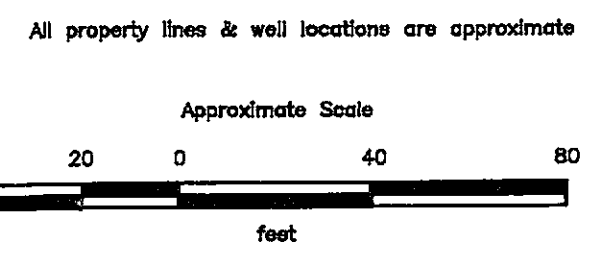
**GROUNDWATER GRADIENT MAP**  
**ARCO Service Station 6041**  
**7249 Village Parkway**  
**Dublin, California**

**PLATE**  
**5**

**PROJECT 60006.05** 60006304



- EXPLANATION**
- 325.2 — Line of equal elevation of groundwater in feet above mean sea level (MSL)
  - 327.09 = Elevation of groundwater in feet above MSL, November 10, 1992
  - ⊕ = Groundwater monitoring well installed by RESNA
  - ⊕ = Groundwater monitoring well installed by OTHERS
  - = Recovery well
  - \* = groundwater elevations for MW-3 and MW-4 were not used due to anomalous water level readings
  - \*\* = RW-1 was not measured

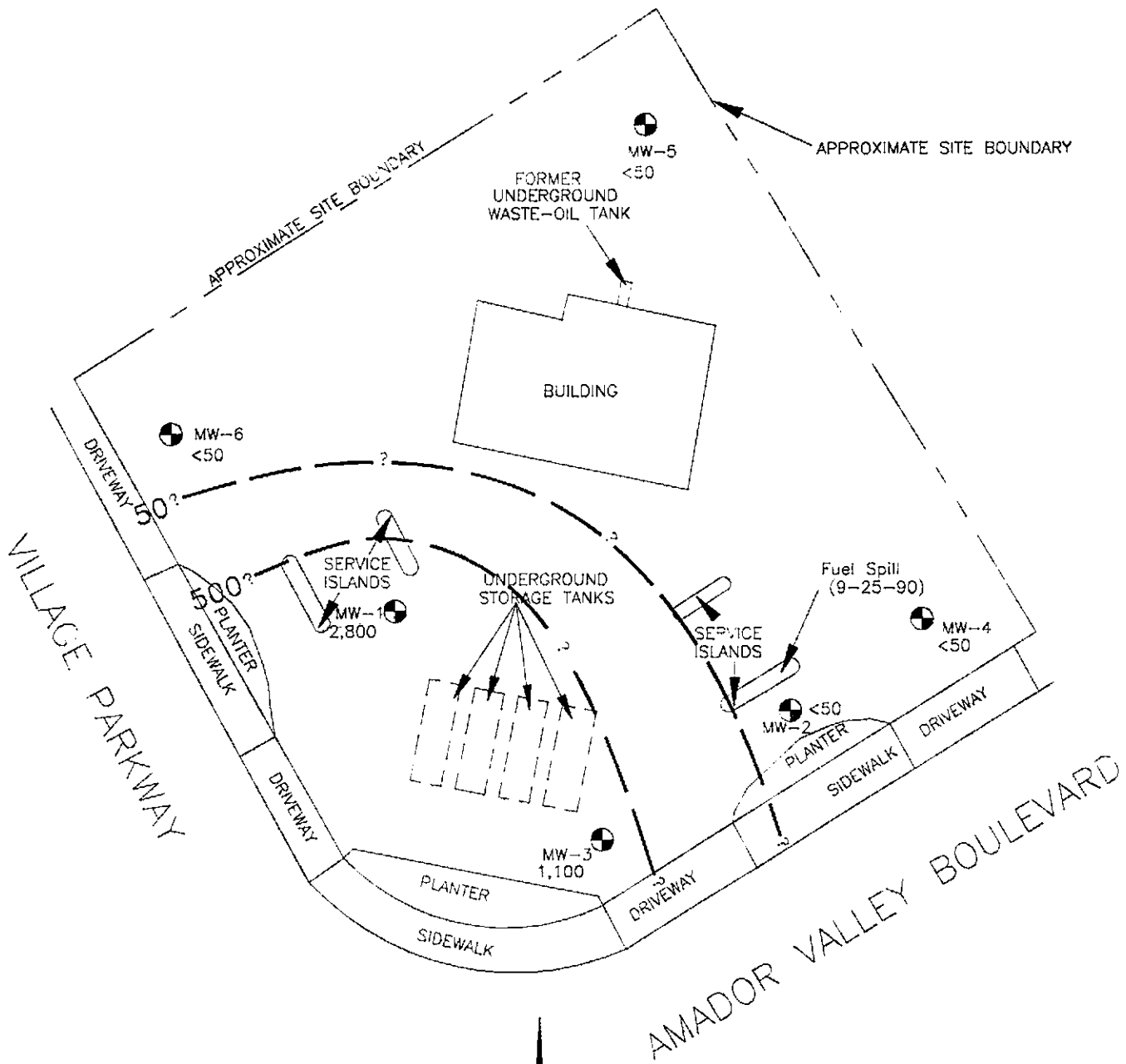


Source: Modified from plan supplied by ALTON GEOSCIENCE.



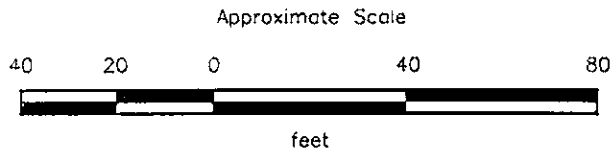
**AERIAL GROUNDWATER GRADIENT MAP**  
**ARCO Service Station 6041**  
**7249 Village Parkway**  
**Dublin, California**

**PLATE**  
**6**



**EXPLANATION**

- 500 = Line of equal concentration of TPHg in groundwater in parts per billion (ppb)
- 2,800 = Concentration of TPHg in groundwater in parts per billion, November 10, 1992
- MW-6 = Groundwater monitoring well (RESNA, September 1991 and October 1992)



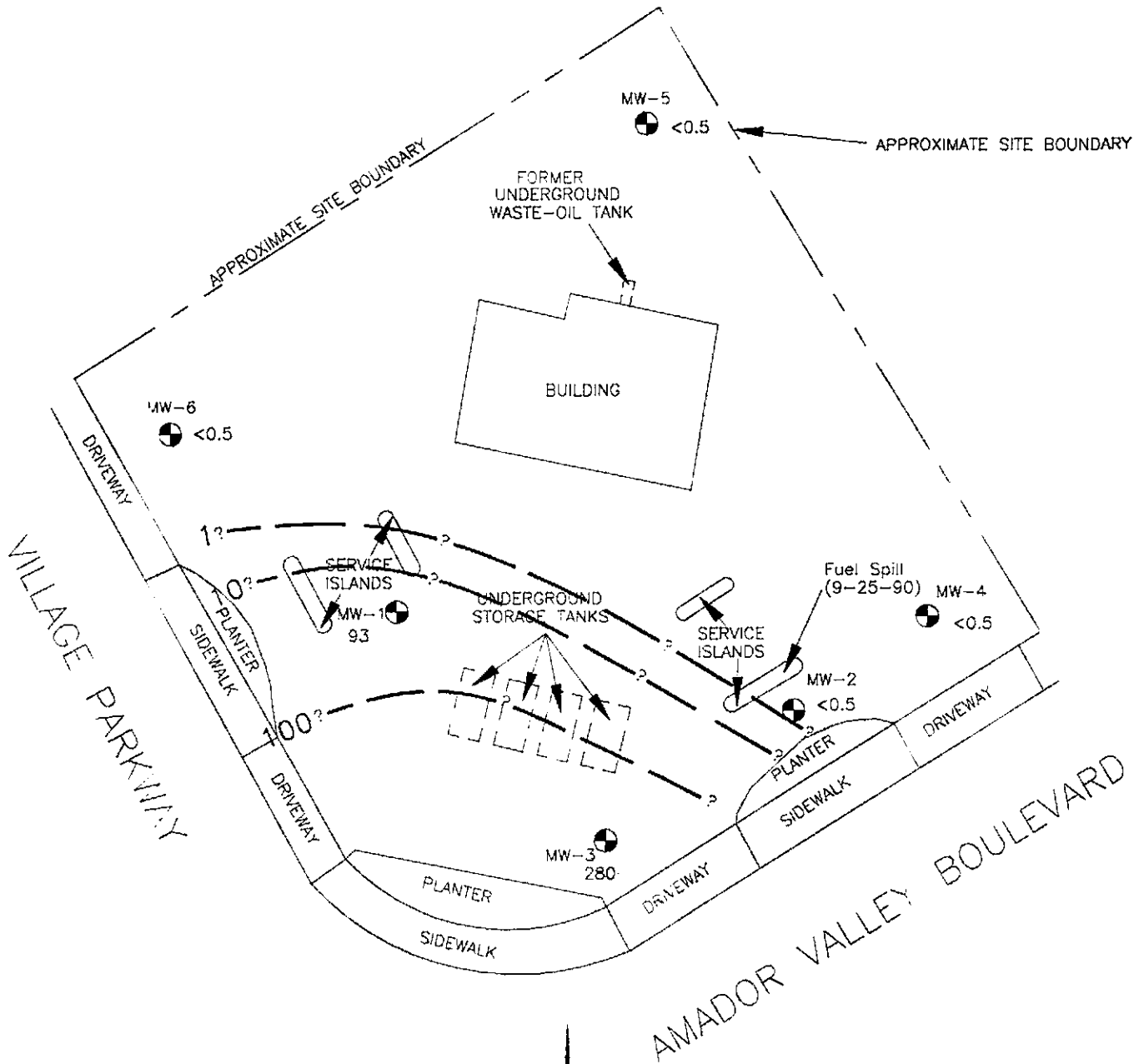
Source: Modified from plan supplied by ARCO.




**TPHg CONCENTRATIONS  
IN GROUNDWATER  
ARCO Service Station 6041  
7249 Village Parkway  
Dublin, California**

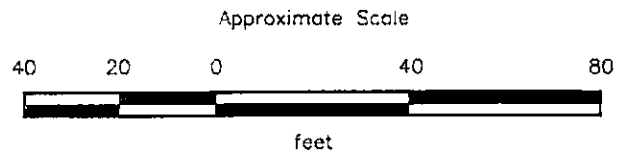
**PLATE  
7**

**PROJECT 60006.05** 60006504



**EXPLANATION**

- 100 — = Line of equal concentration of benzene in groundwater in parts per billion (ppb)
- 280 = Concentration of benzene in groundwater in ppb, November 10, 1991
- MW-6  = Groundwater monitoring well (RESNA, September and October 1991)



Source: Modified from plan supplied by ARCO.

**RESNA**  
Working to Restore Nature

**BENZENE CONCENTRATIONS  
IN GROUNDWATER  
ARCO Service Station 6041  
7249 Village Parkway  
Dublin, California**

**PLATE  
8**

**PROJECT 60006.05** 600061P

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
ARCO Station 6041  
Dublin, California  
(Page 1 of 2)

Date Measured	Well Elevation	Depth to Water	Water Elevation	Floating Product
<u>MW-1</u>				
09-20-91	336.56	11.20	325.36	None
10-22-91		11.48	325.08	None
11-27-91		11.27	325.29	None
12-16-91		11.55	325.01	None
01-18-92		11.37	325.19	None
02-21-92		9.13	327.43	None
03-16-92		9.70	326.86	None
04-24-92		10.20	326.36	None
05-15-92		10.46	326.10	None
06-09-92		10.73	325.83	None
07-28-92		11.04	325.52	None
08-24-92		11.32	325.24	None
09-09-92		11.54	325.02	None
10-26-92		11.80	324.76	None
11-10-92		11.74	324.84	None
12-14-92		10.77	325.79	None
<u>MW-2</u>				
09-20-91	334.80	9.22	325.58	None
10-22-91		9.66	325.14	None
11-27-91		9.48	325.32	None
12-16-91		9.76	325.04	None
01-18-92		9.47	325.33	None
02-21-92		7.62	327.18	None
03-16-92		7.84	326.96	None
04-24-92		8.34	326.46	None
05-15-92		8.62	326.18	None
06-09-92		8.88	325.92	None
07-28-92		9.38	325.42	None
08-24-92		9.81	324.99	None
09-09-92		9.92	324.88	None
10-26-92		10.13	324.67	None
11-10-92		10.12	324.68	None
12-14-92		8.99	325.81	None
<u>MW-3</u>				
09-20-91	335.53	10.16	325.37	None
10-22-91		10.48	325.05	None
11-27-91		10.17	325.36	None
12-16-91		10.25	325.28	None

See notes on Page 2 of 2

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
ARCO Station 6041  
Dublin, California  
(Page 2 of 2)

Date Measured	Well Elevation	Depth to Water	Water Elevation	Floating Product
<u>MW-3 cont.</u>				
01-18-92	335.53	10.71	324.82	None
02-21-92		8.68	326.85	None
03-16-92		8.91	326.62	None
04-24-92		9.14	326.39	None
05-15-92		9.54	325.99	None
06-09-92		9.72	325.81	None
07-28-92		10.15	325.38	None
08-24-92		10.42	325.11	None
09-09-92		10.53	325.00	None
10-26-92		10.92	324.61	None
11-10-92		10.72	324.81	None
12-14-92		9.78	325.75	None
<u>MW-4</u>				
11-10-92	334.22	9.58	324.64	None
12-14-92		8.72	325.50	None
<u>MW-5</u>				
11-10-92	335.87	11.02	324.85	None
12-14-92		10.17	325.70	None
<u>MW-6</u>				
11-10-92	335.84	11.03	324.81	None
12-14-92		10.03	325.81	None

Measurements in feet.

Wells MW-1 through MW-3 surveyed on October 11, 1991. Wells MW-4 through MW-6 surveyed on November 12, 1992. Datum is City of Dublin = (USGS)

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

TABLE 2  
GROUNDWATER MONITORING DATA  
BP Station 11116, 7197 Village Parkway,  
Former Shell Station, 7194 Amador Valley Boulevard,  
and Unocal Station, 7375 Amador Valley Boulevard,  
Dublin, California  
(Page 1 of 2)

Date Measured	Well Elevation	Depth-to -Water	Water Elevation
<b>BP Station 1116</b>			
<u>MW-1</u>			
11-10-92	335.17	10.67	324.50
<u>MW-2</u>			
11-10-92	334.58	10.27	324.31
<u>MW-3</u>			
11-10-92	335.13	10.78	324.35
<u>AW-4</u>			
11-10-92	333.41	9.10	324.31
<u>AW-5</u>			
11-10-92	334.81	10.27	324.54
<u>AW-6</u>			
11-10-92	334.90	10.10	324.80
<b>Former Shell Station</b>			
<u>MW-1</u>			
11-10-92	334.83	10.04	324.79
<u>MW-2</u>			
11-10-92	336.96	12.05	324.91
<u>MW-3</u>			
11-10-92	338.93	11.84	327.09
<u>MW-4</u>			
11-10-92	337.14	12.12	325.02
<u>MW-5</u>			
11-10-92	334.96	9.65	325.31
<u>MW-6</u>			
11-10-92	335.42	10.56	324.86

See Notes on Page 2 of 2.

Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

TABLE 2  
GROUNDWATER MONITORING DATA  
BP Station 11116, 7197 Village Parkway,  
Former Shell Station, 7194 Amador Valley Boulevard,  
and UNOCAL Station, 7375 Amador Valley Boulevard,  
Dublin, California  
(Page 2 of 2)

Date Measured	Well Elevation	Depth-to-Water	Water Elevation
<b>Former Shell Station cont.</b>			
<u>MW-7</u> 11-10-92	333.23	8.82	324.41
<u>MW-8</u> 11-10-92	335.80	10.41	325.39
<u>MW-9</u> 11-10-92	334.57	9.61	324.96
<u>MW-11</u> 11-10-92	334.20	9.47	324.73
<u>MW-12</u> 11-10-92	332.53	8.32	324.31
<u>MW-13</u> 11-10-92	335.64	10.69	324.95
<b>UNOCAL Station</b>			
<u>MW-1</u> 11-10-92	336.72	11.97	324.75
<u>MW-2</u> 11-10-92	337.36	12.15	325.21
<u>MW-3</u> 11-10-92	337.53	12.33	325.20
<u>MW-4</u> 11-10-92	337.00	12.32	324.68

Measurements in feet.

Depth-to-water and wellhead elevation data obtained from Alisto Engineering Group.

Datum is City of Dublin = (USGS)



Quarterly Groundwater Monitoring  
ARCO Station 6041, Dublin, CA

April 2, 1993  
60006.05

TABLE 3  
CUMULATIVE RESULTS OF LABORATORY ANALYSES  
OF GROUNDWATER  
ARCO Station 6041  
Dublin, California  
(Page 1 of 1)

Well Date	TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes
<u>MW-1</u>					
09-20-91	410	28	36	4.3	89
12-16-91	840	50	50	3.9	12
03-16-92	780	22	12	45	22
06-09-92	700	8.8	15	16	18
09-09-92	400	5.4	8.4	4.6	6.7
11-10-92	<b>2,800</b>	<b>93</b>	56	190	390
<u>MW-2</u>					
09-20-91	130	6.6	0.96	1.4	1.5
12-16-91	83	0.96	<0.30	<0.30	<0.30
03-16-92	430	130	<2.5*	37	5.0
06-09-92	120	3.7	<0.5	5.7	<0.5
09-09-92	<50	<0.5	<0.5	<0.5	<0.5
11-10-92	<50	<0.5	<0.5	<0.5	<0.5
<u>MW-3</u>					
09-20-91	990	50	100	11	200
12-16-91	1,000	180	5.1	23	4.3
03-16-92	430	86	<1.0*	22	3.4
06-09-92	1,800	290	2.4	49	17
09-09-92	2,600	550	<5*	120	12
11-10-92	<b>1,100</b>	<b>280</b>	<5*	100	<5*
<u>MW-4</u>					
11-10-92	<50	<0.5	<0.5	<0.5	<0.5
<u>MW-5</u>					
11-10-92	<50	<0.5	<0.5	<0.5	<0.5
<u>MW-6</u>					
11-10-92	<50	<0.5	<0.5	<0.5	<0.5
MCL	—	1	—	680	1,750
DWAL	—	—	100	—	—

Results in parts per billion (ppb)

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 5030/8020/DHS LUFT Methods.

TPHg: Total petroleum hydrocarbons as gasoline (analyzed by EPA Method 5030/8020/DHS LUFT Methods).

MCL: Maximum contaminant level in drinking water (DHS, October 1990)

DWAL: Department of Health Services Recommended Drinking Water Action Level (DHS, October 1990).

\*: Raised method reporting limit due to high analyte concentration requiring sample dilution, as reported by Columbia Analytical Services, Inc.

Sample Identification: MW-3

**APPENDIX A**

**EMCON'S FIELD REPORTS,  
SUMMARY OF GROUNDWATER MONITORING DATA,  
CERTIFIED ANALYTICAL REPORTS WITH CHAIN OF CUSTODY,  
WATER SAMPLE FIELD DATA SHEETS**

**RESNA'S FIELD REPORT**

**MONITORING WELL PURGE WATER DISPOSAL FORM**

65006.04  
3:00 6.05

RECEIVED

DEC 4 - 1992

RESNA  
SAN JOSE



**EMCON**  
ASSOCIATES

Consultants in Wastes  
Management and  
Environmental Control

Date December 3, 1992  
Project OG70-035.01

To:  
Mr. Joel Coffman  
RESNA/ Applied Geosystems  
3315 Almaden Expressway, Suite 34  
San Jose, California 95118

We are enclosing:

Copies	Description
<u>1</u>	<u>Depth To Water / Floating Product Survey Results</u>
<u>1</u>	<u>Summary of Groundwater Monitoring Data</u>
<u>1</u>	<u>Certified Analytical Reports with Chain-of-Custody</u>
<u>6</u>	<u>Water Sample Field Data Sheets</u>

For your:  X  Information Sent by:  X  Mail

Comments:

Enclosed are the data from the fourth quarter 1992 monitoring event at ARCO service station 6041, 7249 Village Parkway, Dublin, California. Groundwater monitoring is conducted consistent with applicable regulatory guidelines. Please call if you have any questions: (408) 453-2266.

Reviewed by



Jim Butera *JB*

Robert Porter  
Robert Porter, Senior Project  
Engineer.

**FIELD REPORT  
DEPTH TO WATER / FLOATING PRODUCT SURVEY**

PROJECT # : 0G70-035.01

STATION ADDRESS : 7249 Village Parkway, Dublin, CA

DATE : 11-10-92

ARCO STATION # : 6041

FIELD TECHNICIAN : Jane GRAMM

DAY : TUESDAY

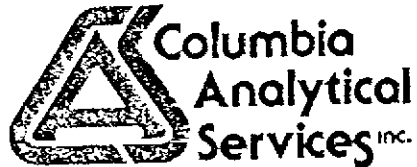
Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket	Lock	Locking Well Cap	FIRST DEPTH TO WATER (feet)	SECOND DEPTH TO WATER (feet)	DEPTH TO FLOATING PRODUCT (feet)	FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	MW-4	OK	YES	YES	3259	OK	9.58	9.58	ND	NR	14.5	—
2	MW-5	OK	YES	YES	3259	OK	11.02	11.02	ND	NR	17.5	—
3	MW-6	OK	YES	YES	3259	OK	11.03	11.03	ND	NR	15.8	—
4	MW-2	OK	YES	YES	3259	OK	10.12	10.12	ND	NR	14.1	—
5	MW-1	OK	YES	YES	3259	OK	11.74	11.74	ND	NR	17.6	—
6	MW-3	OK	YES	YES	3259	OK	10.72	10.72	ND	NR	14.7	—

**SURVEY POINTS ARE TOP OF WELL CASINGS**

Summary of Groundwater Monitoring Data  
 Fourth Quarter 1992  
 ARCO Service Station 6041  
 7249 Village Parkway, Dublin, California  
 micrograms per liter ( $\mu\text{g/l}$ ) or parts per billion (ppb)

Well ID and Sample Depth	Sampling Date	Depth To Water (feet)	Floating Product Thickness (feet)	TPH <sup>1</sup> as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)
MW-1(16)	11/12/92	11.74	ND. <sup>2</sup>	2,800.	93.	56.	190.	390.
MW-2(13)	11/12/92	10.12	ND.	<50.	<0.5	<0.5	<0.5	<0.5
MW-3(13)	11/12/92	10.72	ND.	1,100.	280.	<5.	100.	<5.
MW-4(13)	11/12/92	9.58	ND.	<50.	<0.5	<0.5	<0.5	<0.5
MW-5(16)	11/12/92	11.02	ND.	<50.	<0.5	<0.5	<0.5	<0.5
MW-6(14)	11/12/92	11.03	ND.	<50.	<0.5	<0.5	<0.5	<0.5
FB-1 <sup>3</sup>	11/12/92	NA. <sup>4</sup>	NA.	<50	<0.5	<0.5	<0.5	<0.5

- 
1. TPH. = Total petroleum hydrocarbons  
 2. ND. = Not detected  
 3. FB. = Field blank  
 4. NA. = Not applicable
-



November 30, 1992

Jim Butera  
EMCON Associates  
1921 Ringwood Avenue  
San Jose, CA 95131

Re: EMCON Project No. OG70-035.01  
Arco Facility No. 6041

Dear Mr. Butera:

Enclosed are the results of the water samples submitted to our lab on November 11, 1992. For your reference, our service request number for this work is SJ92-1414.

All analyses were performed in accordance with the laboratory's quality assurance program.

Please call if you have any questions.

Respectfully submitted:

COLUMBIA ANALYTICAL SERVICES, INC.

A handwritten signature in black ink, appearing to read "Keoni A. Murphy".

Keoni A. Murphy  
Laboratory Manager

A handwritten signature in black ink, appearing to read "Annelise J. Bazar".

Annelise J. Bazar  
Regional QA Coordinator

KAM/ajb

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates  
 Project: EMCON Project No. OG70-035.01  
 ARCO Facility No. 6041

Date Received: 11/11/92  
 Work Order No.: SJ92-1414  
 Sample Matrix: Water

BTEX and TPH as Gasoline  
 EPA Methods 5030/8020/California DHS LUFT Method  
 µg/L (ppb)

Sample Name:	<u>MW-1 (16)</u>	<u>MW-2 (13)</u>	<u>MW-3 (13)</u>
Date Analyzed:	11/18/92	11/17/92 *	11/17/92 *

<u>Analyte</u>	<u>MRL</u>			
Benzene	0.5	93.	ND	280.
Toluene	0.5	56.	ND	<5. **
Ethylbenzene	0.5	190.	ND	100.
Total Xylenes	0.5	390.	ND	<5. **
TPH as Gasoline	50	2,800.	ND	1,100.

TPH Total Petroleum Hydrocarbons

MRL Method Reporting Limit

ND None Detected at or above the method reporting limit

\* This sample was part of the analytical batch started on November 17, 1992. However, it was analyzed after midnight so the actual date analyzed is November 18, 1992.

\*\* Raised MRL due to high analyte concentration requiring sample dilution.

Approved by: K. O. Murphy

Date: November 30, 1992

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates  
 Project: EMCON Project No. OG70-035.01  
 ARCO Facility No. 6041

Date Received: 11/11/92  
 Work Order No.: SJ92-1414  
 Sample Matrix: Water

BTEX and TPH as Gasoline  
 EPA Methods 5030/8020/California DHS LUFT Method  
 µg/L (ppb)

Sample Name: MW-4 (13)      MW-5 (16)      MW-6 (14)  
 Date Analyzed: 11/17/92 \*      11/17/92 \*      11/18/92

<u>Analyte</u>	<u>MRL</u>			
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND

TPH Total Petroleum Hydrocarbons

MRL Method Reporting Limit

ND None Detected at or above the method reporting limit

• This sample was part of the analytical batch started on November 17, 1992. However, it was analyzed after midnight so the actual date analyzed is November 18, 1992.

Approved by: *K. O. Murphy*

Date: November 30, 1992



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates  
 Project: EMCON Project No. OG70-035.01  
 ARCO Facility No. 6041

Date Received: 11/11/92  
 Work Order No.: SJ92-1414  
 Sample Matrix: Water

BTEX and TPH as Gasoline  
 EPA Methods 5030/8020/California DHS LUFT Method  
 µg/L (ppb)

Sample Name: FB-1                      Method Blank                      Method Blank  
 Date Analyzed: 11/17/92 \*                      11/17/92                      11/18/92

<u>Analyte</u>	<u>MRL</u>			
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND

TPH Total Petroleum Hydrocarbons  
 MRL Method Reporting Limit  
 ND None Detected at or above the method reporting limit

\* This sample was part of the analytical batch started on November 17, 1992. However, it was analyzed after midnight so the actual date analyzed is November 18, 1992.

Approved by: Kevin Murphy                      Date: November 30, 1992

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates  
 Project: EMCON Project No. 0G70-035.01  
 ARCO Facility No. 6041

Date Received: 11/11/92  
 Work Order No.: SJ92-1414

Initial Calibration Verification  
 BTEX and TPH as Gasoline  
 EPA Methods 5030/8020/DHS LUFT Method  
 Nanograms

Date Analyzed: 11/17/92

<u>Analyte</u>	<u>True Value</u>	<u>Result</u>	<u>Percent Recovery</u>	<u>CAS Percent Recovery Acceptance Criteria</u>
Benzene	250.	258.	103.	85-115
Toluene	250.	269.	108.	85-115
Ethylbenzene	250.	258.	103.	85-115
Total Xylenes	750.	766.	102.	85-115
TPH as Gasoline	2,500.	2,414.	97.	90-110

Date Analyzed: 11/18/92

<u>Analyte</u>	<u>True Value</u>	<u>Result</u>	<u>Percent Recovery</u>	<u>CAS Percent Recovery Acceptance Criteria</u>
Benzene	250.	272.	109.	85-115
Toluene	250.	275.	110.	85-115
Ethylbenzene	250.	260.	104.	85-115
Total Xylenes	750.	741.	99.	85-115
TPH as Gasoline	2,500.	2,467.	99.	90-110

TPH Total Petroleum Hydrocarbons

Approved by:

*Kedra Murphy*

Date:

*November 30, 1992*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates  
 Project: EMCON Project No. 0G70-035.01  
 ARCO Facility No. 6041

Date Received: 11/11/92  
 Work Order No.: SJ92-1414  
 Sample Matrix: Water

Surrogate Recovery Summary  
 BTEX and TPH as Gasoline  
 EPA Methods 5030/8020/California DHS LUFT Method

<u>Sample Name</u>	<u>Date Analyzed</u>	<u>Percent Recovery</u> <i>α,α,α-Trifluorotoluene</i>
MW-1 (16)	11/18/92	96.
MW-2 (13)	11/17/92	80.
MW-3 (13)	11/17/92	90.
MW-4 (13)	11/17/92	86.
MW-5 (16)	11/17/92	84.
MW-6 (14)	11/18/92	97.
FB-1	11/17/92	79.
MS	11/17/92	90.
DMS	11/17/92	93.
Method Blank	11/17/92	84.
Method Blank	11/18/92	88.

CAS Acceptance Criteria 70-130

TPH Total Petroleum Hydrocarbons

Approved by:

*Frank Murphy*

Date:

*November 30, 1992*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates  
Project: EMCON Project No. OG70-035.01  
ARCO Facility No. 6041

Date Received: 11/11/92  
Work Order No.: SJ92-1414  
Sample Matrix: Water

Matrix Spike/Duplicate Matrix Spike Summary  
TPH as Gasoline  
EPA Methods 5030/California DHS LUFT Method  
 $\mu\text{g/L}$  (ppb)

Date Analyzed: 11/17/92

Percent Recovery

<u>Analyte</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>Spike Result</u>		<u>MS</u> <u>DMS</u>		<u>CAS Acceptance Criteria</u>
			<u>MS</u>	<u>DMS</u>	<u>MS</u>	<u>DMS</u>	
TPH as Gasoline	5,000.	3,420.	7,970.	8,040.	91.	92.	70-130

TPH Total Petroleum Hydrocarbons

Approved by:

*Kedra Murphy*

Date:

*November 30, 1992*

CO Products Company

Division of AtlanticRichfieldCompany

Task Order No. **EMCGC-92-1**

Chain of Custody

Facility no. <b>6041</b>	City (Facility) <b>Dublin</b>	Project manager (Consultant) <b>Jim Butera</b>	Laboratory name <b>CAS</b>
Engineer <b>Kyle Christie</b>	Telephone no (ARCO) <b>571-2434</b>	Telephone no. (Consultant) <b>453-0719</b>	Contract number <b>07077</b>
Client name <b>EMCON ASSOCIATES</b>	Address (Consultant) <b>1938 Junction Ave San Jose</b>		
		Fax no. (Consultant) <b>453-0452</b>	

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 801/802	TPH EPA 801/802	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM502E	EPA 801/8010	EPA 8248/240	EPA 8253/270	TCLP Metals <input type="checkbox"/> VOC <input type="checkbox"/> VOA <input type="checkbox"/>	Sem. Metals <input type="checkbox"/> EPA 801/802	CAM Metals EPA 801/802 TCLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead <input type="checkbox"/> Org. Pb <input type="checkbox"/> Lead EPA 7420/7421 <input type="checkbox"/>	
			Soil	Water	Other	Ice	Acid															
(16) 1-2		2		X		X	HCl	11-10-92	1422		X											
2 (13) 3-4		2		X		X	HCl		1338		X											
3 (13) 5-6		2		X		X	HCl		1450		X											
4 (13) 7-8		2		X		X	HCl		1047		X											
5 (16) 9-0		2		X		X	HCl		1222		X											
6 (14) 11-1		2		X		X	HCl		1248		X											
7 12-14		2		X		X	HCl		1455		X											

Method of shipment  
**Sampler will deliver**

Special detection Limit/reporting  
**Lowest Possible**

Special QA/QC  
**As Normal**

Remarks  
**2-40 ml HCl  
VOA's**

Lab number  
**SB2-1414**

Turnaround time

Priority Rush 1 Business Day

Rush 2 Business Days

Expedited 5 Business Days

Standard 10 Business Days

Condition of sample: **OK** Temperature received: **cool**

Delivered by sampler	Date <b>11-11-92</b> Time <b>0815</b>	Received by	
Delivered by	Date	Time	Received by
Delivered by	Date	Time	Received by laboratory <b>W. Murphy</b> Date <b>11-11-92</b> Time <b>8:15</b>

# WATER SAMPLE FIELD DATA SHEET



PROJECT NO: OG70-035.01  
PURGED BY: IAN GRAHAM  
SAMPLED BY: IAN GRAHAM

SAMPLE ID: MW-1 (16)  
CLIENT NAME: ARCO # 6041  
LOCATION: 7249 VILLAGE PKWY.  
DUBLIN, GA.

TYPE: Ground Water  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_  
CASING DIAMETER (inches): 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4  4.5 \_\_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_\_

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 3.81  
DEPTH TO WATER (feet): 11.78 CALCULATED PURGE (gal.): 19.08  
DEPTH OF WELL (feet): 17.6 ACTUAL PURGE VOL (gal.): 7.5  
5.82

DATE PURGED: 11-10-92 Start (2400 Hr) 1400 End (2400 Hr) 1405  
DATE SAMPLED: 11-10-92 Start (2400 Hr) 1422 End (2400 Hr) 1422

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1403</u>	<u>4.0</u>	<u>6.61</u>	<u>3030</u>	<u>69.7</u>	<u>LT. GREY</u>	<u>HEAVY</u>
<u>1405</u>	<u>DRIED @</u>	<u>7.5</u>	<u>CAV.</u>			
<u>1420</u>	<u>RECHARGE</u>	<u>6.82</u>	<u>3020</u>	<u>70.6</u>	<u>"</u>	<u>"</u>

D. O. (ppm): NR ODOR: STRONG (COBALT 0 - 100) NR (NTU 0 - 200) NR

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NONE

### PURGING EQUIPMENT

### SAMPLING EQUIPMENT

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> 2' Bladder Pump  | <input type="checkbox"/> Bailor (Teflon®)         | <input type="checkbox"/> 2' Bladder Pump | <input checked="" type="checkbox"/> Bailor (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input checked="" type="checkbox"/> Bailor (PVC)  | <input type="checkbox"/> DDL Sampler     | <input type="checkbox"/> Bailor (Stainless Steel)    |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailor (Stainless Steel) | <input type="checkbox"/> Dipper          | <input type="checkbox"/> Submersible Pump            |
| <input type="checkbox"/> Well Wizard™     | <input type="checkbox"/> Dedicated                | <input type="checkbox"/> Well Wizard™    | <input type="checkbox"/> Dedicated                   |
| Other: _____                              |   | Other: _____                             |  |

WELL INTEGRITY: OK LOCK #: 3259

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Meter Calibration: Date: 11-10-92 Time: 10:5 Meter Serial #: 7105 Temperature °F: \_\_\_\_\_  
( EC 1000 \_\_\_\_\_ / \_\_\_\_\_ ) ( DI \_\_\_\_\_ ) ( pH 7 \_\_\_\_\_ / \_\_\_\_\_ ) ( pH 10 \_\_\_\_\_ / \_\_\_\_\_ ) ( pH 4 \_\_\_\_\_ / \_\_\_\_\_ )  
Location of previous calibration: MW-4

Signature: [Signature] Reviewed By: JB Page 1 of 6

# WATER SAMPLE FIELD DATA SHEET



EMCON ASSOCIATES

PROJECT NO: OG70-035.01

SAMPLE ID: MW-2(13)

PURGED BY: IAN GRAHAM

CLIENT NAME: ARCO # 6041

SAMPLED BY: IAN GRAHAM

LOCATION: 7249 VILLAGE PKWY. DUBLIN, CA

TYPE: Ground Water  Surface Water  Treatment Effluent  Other

CASING DIAMETER (inches): 2  3  4  4.5  6  Other

CASING ELEVATION (feet/VMSL):	<u>NR</u>	VOLUME IN CASING (gal.):	<u>2.81</u>
DEPTH TO WATER (feet):	<u>10.12</u>	CALCULATED PURGE (gal.):	<u>13.05</u>
DEPTH OF WELL (feet):	<u>14.1</u> <small>3.95</small>	ACTUAL PURGE VOL (gal.):	<u>14.0</u>

DATE PURGED: 11-10-92 Start (2400 Hr) 1311 End (2400 Hr) 1335  
 DATE SAMPLED: 11-10-92 Start (2400 Hr) 1338 End (2400 Hr) 1338

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1316	3.0	6.78	3670	67.1	LT. GREY	HEAVY
1320	6.0	6.77	3500	69.5	"	"
1325	9.0	6.75	3390	69.4	"	"
1330	12.0	6.95	3380	68.7	"	"
1335	14.0	6.88	3440	69.5	"	"

D. O. (ppm): NR ODOR: SLIGHT (COBALT 0 - 100) NR (NTU 0 - 200) NR

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NONE

### PURGING EQUIPMENT

### SAMPLING EQUIPMENT

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> 2" Bladder Pump  | <input type="checkbox"/> Bailer (Teflon®)         | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input checked="" type="checkbox"/> Bailer (PVC)  | <input type="checkbox"/> DDL Sampler     | <input type="checkbox"/> Bailer (Stainless Steel)    |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper          | <input type="checkbox"/> Submersible Pump            |
| <input type="checkbox"/> Well Wizard™     | <input type="checkbox"/> Dedicated                | <input type="checkbox"/> Well Wizard™    | <input type="checkbox"/> Dedicated                   |
| Other: _____                              |   | Other: _____                             |  |

WELL INTEGRITY: OK LOCK #: 3259

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Meter Calibration: Date: 11-10-97 Time: 1015 Meter Serial #: 9105 Temperature °F: \_\_\_\_\_  
 ( EC 1000 \_\_\_\_\_ / \_\_\_\_\_ ) ( DI \_\_\_\_\_ ) ( pH 7 \_\_\_\_\_ / \_\_\_\_\_ ) ( pH 10 \_\_\_\_\_ / \_\_\_\_\_ ) ( pH 4 \_\_\_\_\_ / \_\_\_\_\_ )  
 Location of previous calibration: MW-4

Signature: [Signature] Reviewed By: JB Page 2 of 6



# WATER SAMPLE FIELD DATA SHEET

**EMCON**  
ASSOCIATES

PROJECT NO: OG70-035.01  
 PURGED BY: IAN GRAHAM  
 SAMPLED BY: IAN GRAHAM

SAMPLE ID: MW-3(13)  
 CLIENT NAME: ARCO # 6041  
 LOCATION: 7249 VILLAGE PKWY.  
DUBLIN, CA

TYPE: Ground Water  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_  
 CASING DIAMETER (inches): 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4  4.5 \_\_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_\_

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>2.59</u>
DEPTH TO WATER (feet): <u>10.75</u>	CALCULATED PURGE (gal.): <u>12.95</u>
DEPTH OF WELL (feet): <u>14.7</u> <small>3.95</small>	ACTUAL PURGE VOL (gal.): <u>5.0</u>

DATE PURGED: 11-10-92 Start (2400 Hr) 1430 End (2400 Hr) 1435  
 DATE SAMPLED: 11-10-92 Start (2400 Hr) 1450 End (2400 Hr) 1450

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1433</u>	<u>3.0</u>	<u>6.63</u>	<u>2360</u>	<u>70.4</u>	<u>LT. GREY</u>	<u>HEAVY</u>
<u>1435</u>	<u>WELL DRIED @</u>	<u>@</u>	<u>5.0 GAL.</u>	<u>W/L @</u>	<u>14.60</u>	
<u>1445</u>	<u>RECHARGE</u>	<u>6.67</u>	<u>2400</u>	<u>70.4</u>	<u>ll</u>	<u>ll</u>
D. O. (ppm):	<u>NR</u>		ODOR: <u>MODERATE</u>		<u>NR</u>	<u>NR</u>
					(COBALT 0 - 100)	(NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): FB-1

PURGING EQUIPMENT

SAMPLING EQUIPMENT

\_\_\_\_ 2" Bladder Pump  
 \_\_\_\_ Centrifugal Pump  
 \_\_\_\_ Submersible Pump  
 \_\_\_\_ Well Wizard™  
 Other: \_\_\_\_\_

\_\_\_\_ Bailer (Teflon®)  
 Bailer (PVC)  
 \_\_\_\_ Bailer (Stainless Steel)  
 \_\_\_\_ Dedicated  
 \_\_\_\_ 2" Bladder Pump  
 Bailer (Teflon®)  
 \_\_\_\_ DDL Sampler  
 \_\_\_\_ Dipper  
 \_\_\_\_ Well Wizard™  
 \_\_\_\_ Bailer (Stainless Steel)  
 \_\_\_\_ Submersible Pump  
 \_\_\_\_ Dedicated  
 Other: \_\_\_\_\_

WELL INTEGRITY: OK LOCK #: 3259

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Meter Calibration: Date: 11-10-92 Time: 1015 Meter Serial #: 9105 Temperature °F: 71.0  
 (EC 1000 1010 / 1000) (DI 26.00) (pH 7 7.02 / 7.00) (pH 10 9.98 / 10.00) (pH 4 3.95 / \_\_\_\_\_)  
 Location of previous calibration: \_\_\_\_\_

Signature: [Signature] Reviewed By: JB Page 3 of 6





EMCON ASSOCIATES

# WATER SAMPLE FIELD DATA SHEET

PROJECT NO: OG70-035.01  
PURGED BY: IAN GRAHAM  
SAMPLED BY: IAN GRAHAM

SAMPLE ID: MW-4(13)  
CLIENT NAME: ARCO # 6041  
LOCATION: 7249 VILLAGE PKWY. DUBLIN, CA.

TYPE: Ground Water  Surface Water  Treatment Effluent  Other   
CASING DIAMETER (inches): 2  3  4  4.5  6  Other

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 3.22  
DEPTH TO WATER (feet): 9.58 CALCULATED PURGE (gal.): 16.13  
DEPTH OF WELL (feet): 14.5 ACTUAL PURGE VOL (gal.): 8.5  
4.92

DATE PURGED: 11-10-92 Start (2400 Hr) 1022 End (2400 Hr) 1029  
DATE SAMPLED: 11-10-92 Start (2400 Hr) 1047 End (2400 Hr) 1047

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1025</u>	<u>3.5</u>	<u>6.93</u>	<u>5570</u>	<u>67.4</u>	<u>LT. GREY</u>	<u>HEAVY</u>
<u>1029</u>	<u>7.0</u>	<u>6.99</u>	<u>5450</u>	<u>67.2</u>	<u>BROWN</u>	<u>"</u>
<u>WELL DRIED @ 8.5 GAL W/L @ 14.20</u>						
<u>1045</u>	<u>RECHARGE</u>				<u>"</u>	<u>"</u>
D. O. (ppm):	<u>NR</u>	ODOR:	<u>ND</u>		<u>NR</u>	<u>NR</u>
					(COBALT 0 - 100)	(NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NONE

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailor (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailor (Teflon®)
<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Bailor (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailor (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailor (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: OK LOCK #: 3259

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Meter Calibration: Date: 11-10-92 Time: 1015 Meter Serial #: 9105 Temperature °F: 60.9  
(EC 1000 1062 / 1000) (DI 25.00) (pH 7 6.98 / 7.00) (pH 10 10.05 / 10.60) (pH 4 3.91 / \_\_\_\_\_)  
Location of previous calibration: MW-4

Signature: [Signature] Reviewed By: JTB Page 4 of 6



# WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 0670-035.01

SAMPLE ID: MW-5(16)

PURGED BY: IAN GRAHAM

CLIENT NAME: ARCO # 6041

SAMPLED BY: IAN GRAHAM

LOCATION: 7249 VILLAGE PKWY.  
DUBLIN, CA.

TYPE: Ground Water  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER (inches): 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4  4.5 \_\_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_\_

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>4.25</u>
DEPTH TO WATER (feet): <u>11.02</u>	CALCULATED PURGE (gal.): <u>21.25</u>
DEPTH OF WELL (feet): <u>17.5</u> <small>6.48</small>	ACTUAL PURGE VOL (gal.): <u>12.5</u>

DATE PURGED: <u>11-10-92</u>	Start (2400 Hr) <u>1202</u>	End (2400 Hr) <u>1225</u>
DATE SAMPLED: <u>11-10-92</u>	Start (2400 Hr) <u>1222</u>	End (2400 Hr) <u>1222</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1203</u>	<u>4.5</u>	<u>7.07</u>	<u>4360</u>	<u>68.9</u>	<u>BEIGE</u>	<u>HEAVY</u>
<u>1206</u>	<u>9.0</u>	<u>7.02</u>	<u>4570</u>	<u>66.5</u>	<u>BROWN</u>	<u>h</u>
<u>1208</u>	<u>WELL DRIES @</u>		<u>12.5 GAL W/L</u>	<u>@ 17:32</u>		
<u>1225</u>	<u>RECHARGE</u>	<u>6.97</u>	<u>4590</u>	<u>66.5</u>	<u>"</u>	<u>"</u>

D. O. (ppm): NR      ODOR: ND      NR      NR  
(COBALT 0 - 100)      (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NONE

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailor (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailor (Teflon®)
<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Bailor (PVC)	<input type="checkbox"/> ODL Sampler	<input type="checkbox"/> Bailor (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailor (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: OK      LOCK #: 3259

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Meter Calibration: Date: 11-10-92 Time: 1015 Meter Serial #: 9105 Temperature °F: \_\_\_\_\_  
( EC 1000 \_\_\_\_\_ / \_\_\_\_\_ ) ( DI \_\_\_\_\_ ) ( pH 7 \_\_\_\_\_ / \_\_\_\_\_ ) ( pH 10 \_\_\_\_\_ / \_\_\_\_\_ ) ( pH 4 \_\_\_\_\_ / \_\_\_\_\_ )  
Location of previous calibration: MW-4

Signature: [Signature]      Reviewed By: JB      Page 5 of 6

# WATER SAMPLE FIELD DATA SHEET



EMCON ASSOCIATES

PROJECT NO: 0670-035.01

SAMPLE ID: MW-6(A)

PURGED BY: IAN GRAHAM

CLIENT NAME: ARCO # 6041

SAMPLED BY: IAN GRAHAM

LOCATION: 7249 VILLAGE PKWY. DUBLIN, CA

TYPE: Ground Water  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER (inches): 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4  4.5 \_\_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_\_

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>3.13</u>
DEPTH TO WATER (feet): <u>11.02</u>	CALCULATED PURGE (gal.): <u>15.67</u>
DEPTH OF WELL (feet): <u>15.8</u> <small>4.78</small>	ACTUAL PURGE VOL (gal.): <u>16.0</u>

DATE PURGED: <u>11-10-92</u>	Start (2400 Hr) <u>1230</u>	End (2400 Hr) <u>1245</u>
DATE SAMPLED: <u>11-10-92</u>	Start (2400 Hr) <u>1248</u>	End (2400 Hr) <u>1248</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	EC. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1233	3.5	6.93	6220	70.9	BROWN	HEAVY
1236	7.0	7.05	6190	70.9	"	"
1239	10.5	7.04	6210	69.2	"	"
1241	14.0	7.06	6330	68.5	"	"
1245	16.0	7.07	6410	68.0	"	"

D. O. (ppm): NR      ODOR: ND      (COBALT 0 - 100)      NR      (NTU 0 - 200)      NR

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NONE

### PURGING EQUIPMENT

### SAMPLING EQUIPMENT

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> 2" Bladder Pump  | <input type="checkbox"/> Bailor (Teflon®)         | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailor (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input checked="" type="checkbox"/> Bailor (PVC)  | <input type="checkbox"/> DDL Sampler     | <input type="checkbox"/> Bailor (Stainless Steel)    |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailor (Stainless Steel) | <input type="checkbox"/> Dipper          | <input type="checkbox"/> Submersible Pump            |
| <input type="checkbox"/> Well Wizard™     | <input type="checkbox"/> Dedicated                | <input type="checkbox"/> Well Wizard™    | <input type="checkbox"/> Dedicated                   |
| Other: _____                              |   | Other: _____                             |  |

WELL INTEGRITY: OK      LOCK #: 3259

REMARKS: LAST TWO CASINGS WERE SLOW

Meter Calibration: Date: 11-10-92 Time: 1015 Meter Serial #: 9105 Temperature °F: \_\_\_\_\_

( EC 1000 \_\_\_\_\_ / \_\_\_\_\_ ) ( DI \_\_\_\_\_ ) ( pH 7 \_\_\_\_\_ / \_\_\_\_\_ ) ( pH 10 \_\_\_\_\_ / \_\_\_\_\_ ) ( pH 4 \_\_\_\_\_ / \_\_\_\_\_ )

Location of previous calibration: MW-4

Signature: [Signature]      Reviewed By: JP      Page 6 of 6



**EMCON**  
ASSOCIATES

Consultants in Wastes  
Management and  
Environmental Control

JAN 18 1993

RESNA  
SAN JOSE

Date December 18, 1992

Project 0G70-035.01

To:

Mr. Joel Coffman

RESNA/ Applied Geosystems

3315 Almaden Expressway, Suite 34

San Jose, California 95118

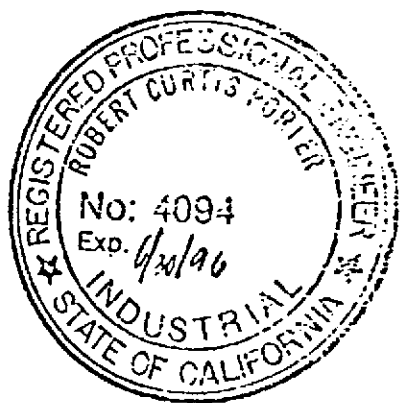
We are enclosing:

Copies	Description
<u>1</u>	<u>Depth To Water/Floating Product Survey Results</u>
<u>      </u>	<u>December 1992 monthly water level survey, ARCO</u>
<u>      </u>	<u>station 6041, 7249 Village Parkway, Dublin, CA</u>

For your:  X  Information Sent by:  X  Mail

Comments:  
Monthly water level data for the above mentioned site are attached. Please call if you have any questions; (408) 453-2266.

Reviewed by:



Jim Butera JB

Robert Porter  
Robert Porter, Senior Project Engineer.



**FIELD REPORT**  
**DEPTH TO WATER / FLOATING PRODUCT SURVEY**

PROJECT #: OG70-035.01

STATION ADDRESS : 7249 Village Parkway, Dublin, CA

DATE : 12-14-92

ARCO STATION #: 6041

FIELD TECHNICIAN : MADLER

DAY : Monday

DTW Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket	Lock	Locking Well Cap	FIRST DEPTH TO WATER (feet)	SECOND DEPTH TO WATER (feet)	DEPTH TO FLOATING PRODUCT (feet)	FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	MW-4	OK	YES	OK	3259	OK	8.72	8.72	ND	ND	14.5	—
2	MW-5	OK	YES	OK	3259	OK	10.18	10.18	ND	ND	17.5	—
3	MW-6	OK	YES	OK	3259	OK	10.03	10.03	ND	ND	15.8	water in tank had to wait 10min for water to level
4	MW-2	OK	YES	OK	3259	OK	8.99	8.99	ND	ND	14.1	water in tank
5	MW-1	OK	YES	OK	3259	OK	10.77	10.77	ND	ND	17.6	—
6	MW-3	OK	YES	OK	3259	OK	9.78	9.78	ND	ND	14.7	—

⊕ MW-6 - water level was rising, had to wait 10min for stable reading  
MW-2  
MW-1

**SURVEY POINTS ARE TOP OF WELL CASINGS**

DATE: 10/26/92  
 SITE: ARCO 6041  
 JOB: 60006.05

WELL NO/ TIME	ODOR (OBS)	SHEEN (H, M, S-EMUL., COLOR)	PROD (FRESH (TRANSLUCENT), DEGRADED (D K. BR.), ASPHALTINE (D K. VISCOUS))	WELL ELEV	DTP	DTW	TOT. DET.	WAT. EL.
MW-1	no	no				11.80		
MW-2	no	no				10.13		
MW-3	yes	no				10.92		
PRODUCT REMOVED								

\*PRODUCT LAST TIME

# MONITORING WELL PURGE WATER TRANSPORT FORM

## GENERATOR INFORMATION

NAME: ARCO PRODUCTS

ADDRESS: P.O. BOX 5811

CITY, STATE, ZIP: SAN MATEO, CA 94402 PHONE #: (415) 571-2434

DESCRIPTION OF WATER: PURGE WATER GENERATED DURING SAMPLING OR DEVELOPMENT OF MONITORING WELLS LOCATED AT VARIOUS SITES. AUGER RINSEATE GENERATED DURING THE INSTALLATION OF MONITORING WELLS AT VARIOUS SITES. THE WATER MAY CONTAIN DISSOLVED HYDROCARBONS.

THE GENERATOR CERTIFIES THAT THIS WATER AS DESCRIBED IS NON-HAZARDOUS

KYLE CHRISTIE *Kyle Christie* 12/09/92  
 (Typed or printed full name & signature) (Date)

## SITE INFORMATION

STA #	JOB #	ADDRESS	GALS
1	A-6159	21390-PW 6140 GREENBACK LANE, CITRUS HEIGHTS, CA	75
2	A-5335	21395-PW 1500 CANYON RD., MORAGA, CA	77
3	A-6135	21321-PW 3969 CAMERON PARK DR., CAMERON PARK, CA	95
4	A-6059	21396-PW 2686 PLEASANT HILL RD., PLEASANT HILL, CA	23
5	A-428	21397-PW 12890 SAN PABLO AVE., RICHMOND, CA	185
6	A-1318	21347-PW 1745 SANTA ROSA BLVD., SANTA ROSA, CA	120
7	A-2035	21439-DW 1001 SAN PABLO AVE., ALBANY, CA	218
8	A-606	21334-PW 2320 EL CAMINO REAL, SANTA CLARA, CA	101
9	A-4494	21183-PW 566 HEGENBERGER RD., OAKLAND, CA	70
10	<del>A-6041</del>	<del>21327-PW 7249 VILLAGE PKWY., DUBLIN, CA</del>	<del>110</del>
11	A-5387	21379-DW 20200 HESPERIAN BLVD., SAN LORENZO, CA	167
			1,241

## TRANSPORTER INFORMATION

NAME: BALCH PETROLEUM

ADDRESS: 930 AMES AVE.

CITY, STATE, ZIP: MILPITAS, CA 95035 PHONE #: (408) 942-8686

TRUCK ID #: 102-PTBBLT HURSHEL WARD *Hurschel Ward* 12-10-92  
 (Typed or printed full name & signature) (Date)

## TSD FACILITY INFORMATION

NAME: GIBSON ENVIRONMENTAL

ADDRESS: 475 SEAPORT BLVD

CITY, STATE, ZIP: REDWOOD CITY, CA 94063 PHONE #: (415) 368-5511

RELEASE #: 11320 Bill Levin *Bill Levin* 12-10-92  
 (Typed or printed full name & signature) (Date)