RESNA
Working To Restore Nature

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
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LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
Fourth Quarter 1992
at
ARCO Station 2152
22141 Center Street
Castro Valley, California

69013.13

3/9/93

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3315 Almaden Expressway, Suite 34
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Phone: (408) 264-7723
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March 9, 1993
0115MWHE
69013.13

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

Subject: Letter Report on Fourth Quarter 1992 Groundwater Monitoring at ARCO Station 2152, 22141 Center Street, Castro Valley, California.

Mr. Whelan:

As requested by ARCO Products Company (ARCO), RESNA Industries Inc. (RESNA) prepared this letter report which summarizes the results of the fourth quarter 1992 groundwater monitoring performed by ARCO's contractor, EMCON Associates (EMCON) of San Jose, at the above-referenced site. The objectives of this quarterly groundwater monitoring are to evaluate changes in the groundwater flow direction and gradient, and evaluate changes in concentrations of petroleum hydrocarbons in the local groundwater associated with former gasoline-storage tanks at the site. Field work and laboratory analyses of groundwater samples during this quarter performed under the direction of EMCON, included measuring depths to groundwater, 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 the direction of EMCON; warrant of their field data and evaluation of their field protocols are 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 direction of groundwater flow beneath the site.

The operating Arco Station 2152 is located on the southwestern corner of the intersection of Grove Way and Center Street in Castro Valley, California. The site location is shown on the Site Vicinity Map, Plate 1.

The results of previous environmental investigations at the site are presented in the reports listed in the references section of this letter report. The locations of the groundwater and vadose monitoring wells and pertinent site features are shown on the Generalized Site Plan, Plate 2.

Groundwater Sampling and Gradient Evaluation

Depth-to-water measurements (DTW) were performed in the four onsite wells by EMCON field personnel on October 19, November 23, and December 18, 1992. Quarterly sampling was performed by EMCON field personnel on October 19, 1992. The results of EMCON's field work on the site, including DTW measurements and subjective analysis for the presence of product in the groundwater in MW-1 through MW-4, are presented on EMCON's Field Report Sheets and Water Sample Field Data Sheets. These data are included in Appendix A.

The DTW levels, wellhead elevations, groundwater elevations, and subjective observations for product in the groundwater from MW-1 through MW-4 for this quarter and previous quarterly groundwater monitoring at the site are summarized in Table 1, Cumulative Groundwater Monitoring Data. EMCON's DTW measurements were used to evaluate groundwater elevations. Evidence of product or sheen was not reported on EMCON's field report sheets during this quarter (see Appendix A). The groundwater gradients interpreted from the October, November and December 1992 groundwater monitoring episodes are shown on the Groundwater Gradient Maps, Plates 3 through 5. The interpreted groundwater gradients were relatively flat (less than 0.01) with flow directions to the south-southwest for October and November, and to the northwest for December. The gradients were interpreted from EMCON's DTW measurements from wells MW-1 through MW-4. The groundwater elevations and gradients for this quarter are generally consistent with previously interpreted data.

Groundwater monitoring wells MW-1 through MW-4 were purged and sampled by EMCON field personnel on October 19, 1992. EMCON's Water Sample Field Data Sheets, Field Report Sheet, and Summary of Groundwater Monitoring Data for October 19, 1992, are included in Appendix A. The purge water was removed from the site by a licensed hazardous waste hauler; the Monitoring Well Purge Water Transport Form is also included in Appendix A.

Laboratory Methods and Analyses

Under the direction of EMCON, water samples collected from the wells were analyzed by

Sequoia Analytical located in Redwood City, California (Hazardous Waste Testing Laboratory Certification No. 1210). The water samples from MW-1 through MW-4 were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection Agency (EPA) Methods 5030/8015/8020. Concentrations of TPHg and benzene in the groundwater are shown on Plate 6, TPHg/Benzene Concentrations in Groundwater. The Chain of Custody Records and Laboratory Analysis Reports are attached in Appendix A. Results of these and previous water analyses are summarized in Table 2, Cumulative Results of Laboratory Analyses of Groundwater.

TPHg and BTEX in wells MW-1 through MW-4 are nondetectable this quarter, as they have been since the July 8, 1991 sampling event.

RESNA recommends 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 Hiett
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

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

Sincerely,
RESNA Industries Inc.

Erin McLucas
Staff Geologist

REGISTERED GEOLOGIST
JAMES LEWIS NELSON
No. 1463
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

James L. Nelson
Certified Engineering
Geologist No. 1463

Enclosures: References
Plate 1, Site Vicinity Map
Plate 2, Generalized Site Plan
Plate 3, Groundwater Gradient Map, October 19, 1992
Plate 4, Groundwater Gradient Map, November 23, 1992
Plate 5, Groundwater Gradient Map, December 18, 1992
Plate 6, TPHg/Benzene Concentrations in Groundwater, October 19, 1992

Table 1, Cumulative Groundwater Monitoring Data
Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples

Appendix A: EMCON's Field Reports Depth to Water/Floating Product Survey Results, Summary of Groundwater Monitoring Data, Certified Analytical Reports with Chain-of-Custody, and Water Sample Field Data Sheets.
Monitoring Well Purge Water Transport Form

REFERENCES

Applied GeoSystems. May 26, 1989. Limited Environmental Site Assessment, 22141 Center Street, Castro Valley, California, AGS Report 69013-1.

Applied GeoSystems. January 18, 1990. Limited Subsurface Environmental Investigation Related to Underground Tank Removal, 22141 Center Street, Castro Valley, California, AGS Report 69013-2.

Applied GeoSystems. November 13, 1990. Environmental Subsurface Investigation at ARCO Station 2152, 22141 Center Street, Castro Valley, California, AGS Report 69013-4.

Applied GeoSystems. March 24, 1991. Letter Report, Quarterly Ground-Water Monitoring, First Quarter 1991, 22141 Center Street, Castro Valley, California, AGS Report 69013-5.

Applied GeoSystems. May 20, 1991. Letter Report, Quarterly Ground-Water Monitoring, Second Quarter 1991, 22141 Center Street, Castro Valley, California, AGS Report 69013-5.

RESNA. July 2, 1991. Supplemental Subsurface and Remedial Investigation at ARCO Station 2152, 22141 Center Street, Castro Valley, California, AGS 69013-6.

RESNA. October 8, 1991. Supplemental Subsurface and Remedial Investigation at ARCO Station 2152, 22141 Center Street, Castro Valley, California, AGS 69013-5.

RESNA. October 18, 1991. Letter Report, Quarterly Ground-Water Monitoring, Third Quarter 1991, 22141 Center Street, Castro Valley, California, AGS Report 69013-5.

RESNA. October 22, 1991. Work Plan for Additional Subsurface Investigation and Design and Permitting of Vapor Extraction System at ARCO Station 2152, 22141 Center Street, Castro Valley, California. 69013.08

RESNA. March 2, 1992. Letter Report, Quarterly Groundwater Monitoring, Fourth Quarter 1991, 22141 Center Street, Castro Valley, California, 69013.09.

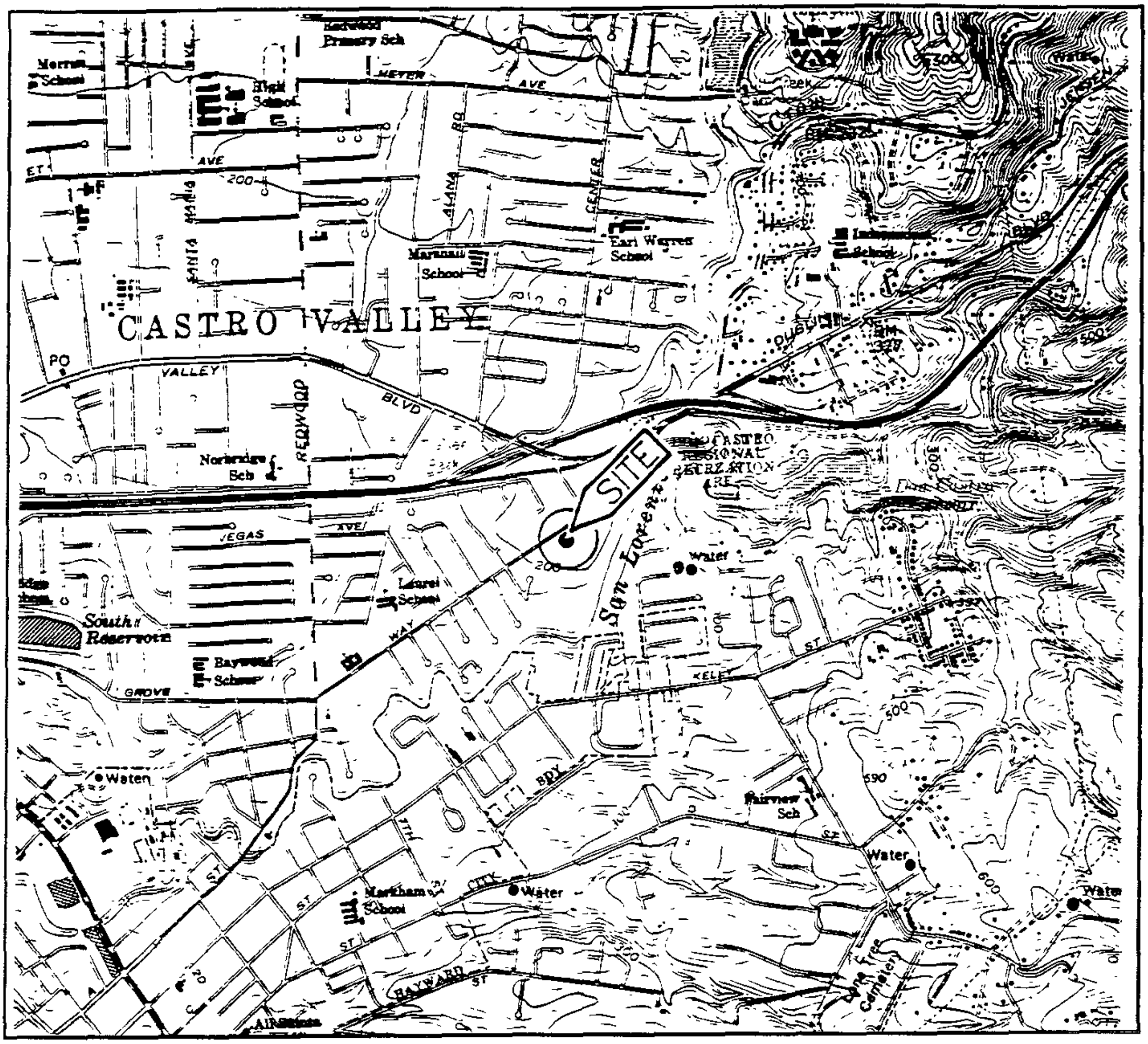
RESNA. May 1, 1992. Letter Report, Quarterly Groundwater Monitoring, First Quarter 1992, 22141 Center Street, Castro Valley, California, 69013.09.

REFERENCES
(Continued)

RESNA. July 17, 1992. Letter Report, Limited Subsurface Environmental Investigation, ARCO Station 2152, 22141 Center Street, Castro Valley, California, 69013.08

RESNA. September 22, 1992. Letter Report, Quarterly Groundwater Monitoring, Second Quarter 1992, 22141 Center Street, Castro Valley, California, 69013.09.

RESNA. December 30, 1992. Letter Report, Quarterly Groundwater Monitoring, Third Quarter 1992, 22141 Center Street, Castro Valley, California, 69013.09.



Base: U.S. Geological Survey
7.5–Minute Quadrangle
Hayward, California.
Photorevised 1980

LEGEND

(●) = Site Location

Approximate Scale

2000 1000 0 2000 4000

feet

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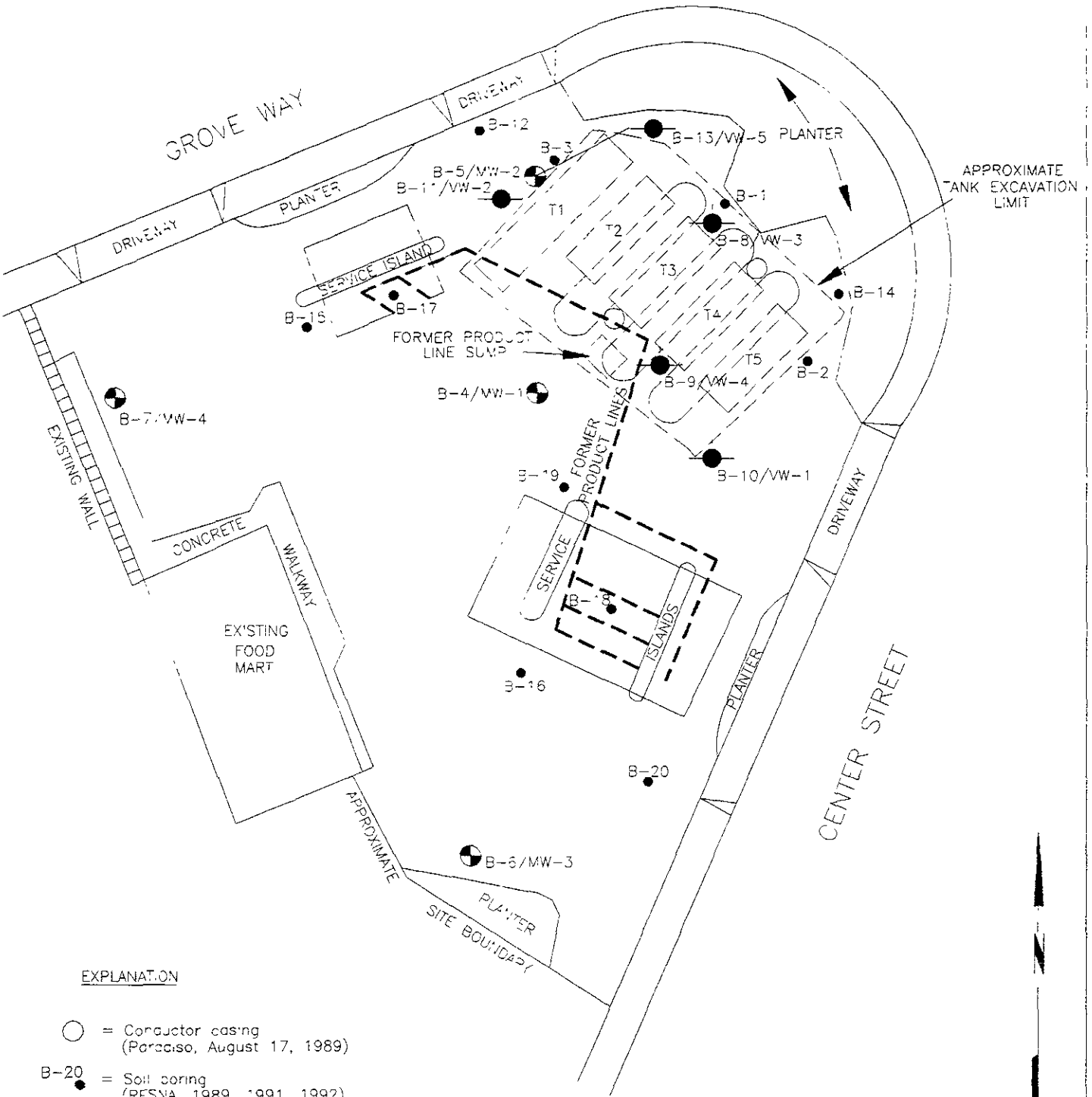
SITE VICINITY MAP
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE

1



EXPLANATION

- ○ = Conductor casing (Paraclso, August 17, 1989)
- B-20 ● = Soil boring (RESNA, 1989, 1991, 1992)
- B-6/MW-3 ◔ = Boring/monitoring well (RESNA, 1989, 1990)
- B-13/VW-5 ◔ = Boring/vapor well (RESNA, June 1990)
- [T5] = Former underground gasoline-storage tanks
- ⊂⊃ = Present underground gasoline-storage tanks

30 15 0 30 60

Approximate Scale in Feet

Source Surveyed by Ron Archer Civil Engineer, Inc

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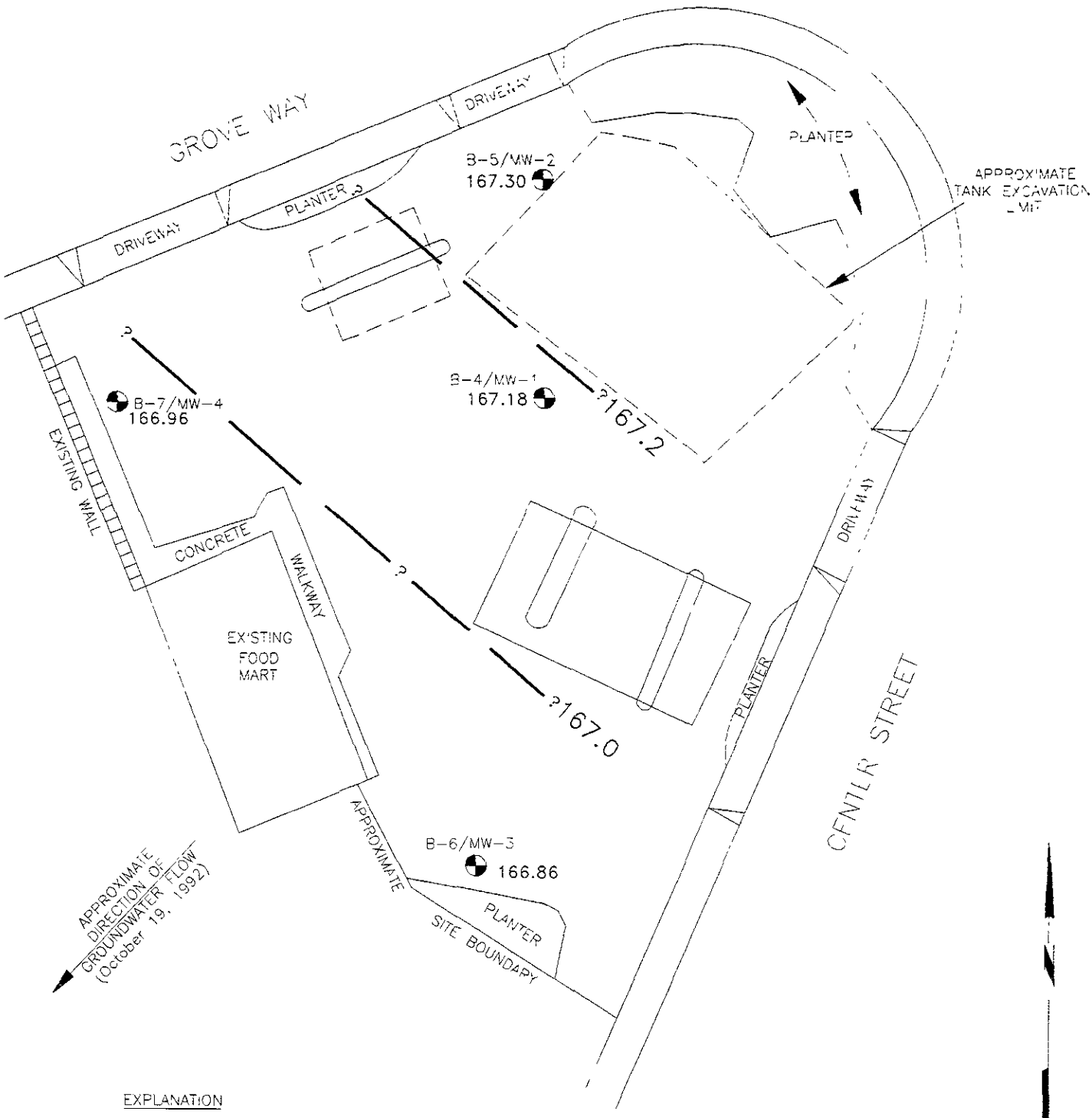
GENERALIZED SITE PLAN
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE

2



EXPLANATION

167.2 = Line of equal elevation of groundwater above mean sea level (MSL)

167.30 = Elevation of groundwater in feet (MSL) December 18, 1992

B-6/MW-3 = Boring/monitoring well (RESNA, 1989, 1990)

30 15 0 30 60

Approximate Scale in Feet

Source: Surveyed by Ron Archer Civil Engineer, Inc.

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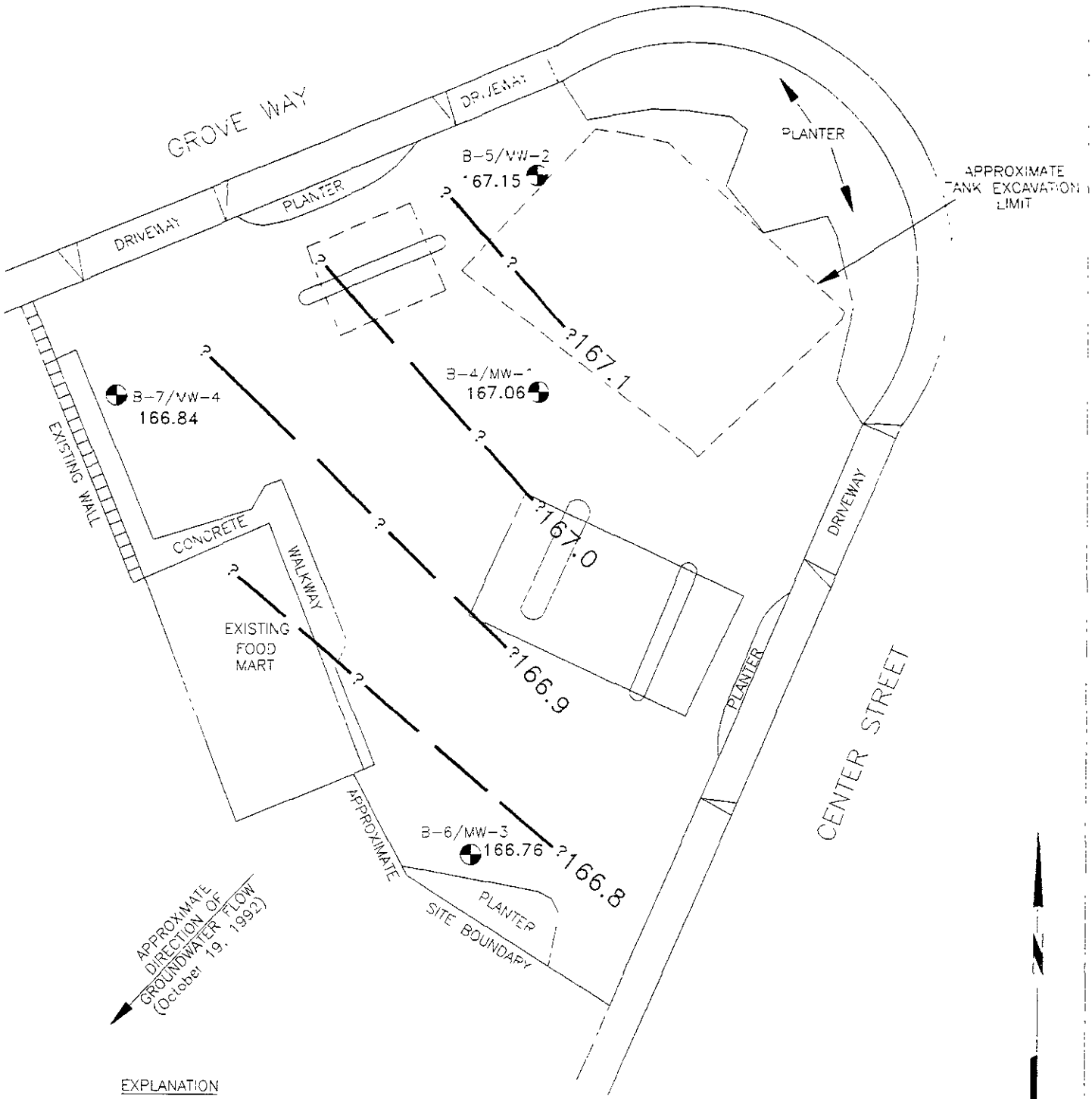
GROUNDWATER GRADIENT MAP
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE

3



Source. Surveyed by Ron Archer Civil Engineer, Inc

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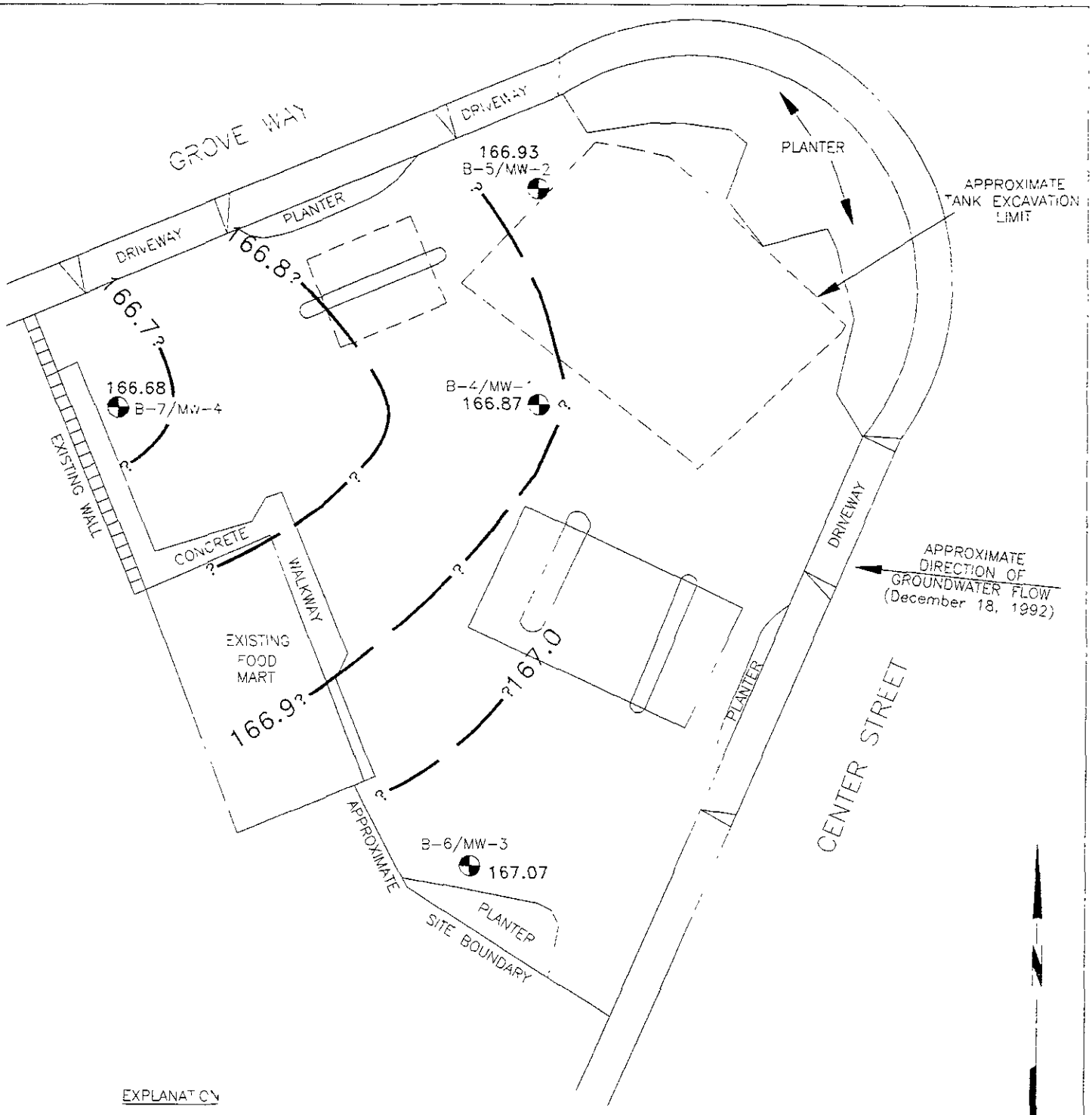
GROUNDWATER GRADIENT MAP
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE

4



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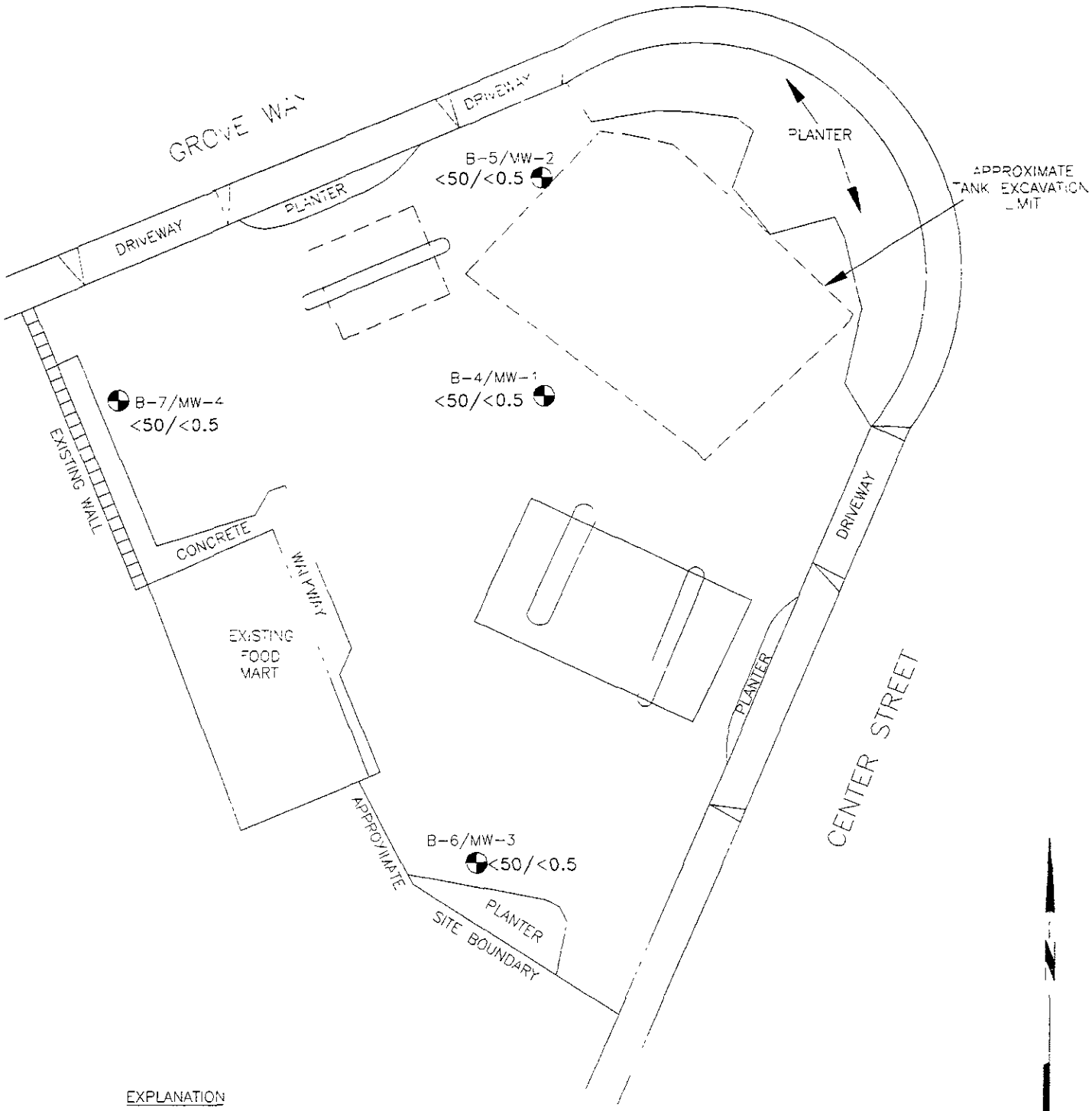
GROUNDWATER GRADIENT MAP
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE
5



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TPHg/BENZENE CONCENTRATIONS IN GROUNDWATER
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE 6

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2152
Castro Valley, California
(Page 1 of 4)

Date Well Measured	Depth of Well	Well Elevation	Static Water Depth	Water Elevation
MW-1				
06/25/90	58.10	217.16	49.80	167.36
09/07/90			50.00	167.16
09/26/90			50.09	167.07
12/14/90			50.44	166.72
01/08/91			50.45	166.71
02/21/91			50.51	166.65
03/19/91			50.16	167.00
04/02/91			50.14	167.02
05/02/91	57.80		49.77	167.39
06/18/91			49.75	167.41
07/08/91			49.80	167.36
08/22/91			50.08	167.08
09/18/91			50.11	167.05
10/15/91			50.30	166.86
11/13/91			50.30	166.86
12/27/91			50.28	166.88
01/18/92			50.39	166.77
02/20/92			50.16	167.00
03/13/92			49.75	167.41
04/24/92			49.18	167.98
05/15/92			49.22	167.94
06/08/92			49.3*	167.9*
07/25/92			49.42	167.74
08/23/92			49.52	167.64
09/04/92			49.71	167.45
10/19/92			49.98	167.18
11/23/92			50.10	167.06
12/18/92			50.29	166.87
MW-2				
06/25/90	59.20	216.50	49.04	167.46
09/07/90			49.22	167.28
09/26/90			49.32	167.18
12/14/90			49.66	166.84
01/08/91			49.72	166.78
02/21/91			49.77	166.73
03/19/91			49.44	167.06
04/02/91			49.43	167.07
05/02/91	58.90		49.03	167.47

See notes on Page 4 of 4.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2152
Castro Valley, California
(Page 2 of 4)

Date Well Measured	Depth of Well	Well Elevation	Static Water Depth	Water Elevation
MW-2cont.				
06/18/91			48.98	167.52
07/08/91			49.03	167.47
08/22/91			49.30	167.20
09/18/91			49.34	167.16
10/15/91			49.51	166.99
11/13/91			49.53	166.97
12/27/91			49.49	167.01
01/18/92			49.60	166.90
02/20/92			49.39	167.11
03/13/92			48.97	167.53
04/24/92			48.47	168.03
05/15/92			48.47	168.03
06/08/92			48.5*	168.0*
07/25/92			48.52	167.98
08/23/92			44.95	171.55
09/04/92			48.95	167.55
10/19/92			49.20	167.30
11/23/92			49.35	167.15
12/18/92			49.57	166.93
MW-3				
06/25/90	59.70	217.57	50.55	167.02
09/07/90			50.73	166.84
09/26/90			50.81	166.76
12/14/90			51.15	166.42
01/08/91			51.16	166.41
02/21/91			51.21	166.36
03/19/91			50.93	166.64
04/02/91			50.92	166.65
05/02/91	59.34		50.51	167.06
06/18/91			50.47	167.10
07/08/91			50.54	167.03
08/22/91			50.80	166.77
09/18/91			50.82	166.75
10/15/91			51.02	166.55
11/13/91			51.03	166.54
12/27/91			51.01	166.56
01/18/92			51.15	166.42

See notes on Page 4 of 4.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2152
Castro Valley, California
(Page 3 of 4)

Date Well Measured	Depth of Well	Well Elevation	Static Water Depth	Water Elevation
MW-3cont.				
02/20/92			50.84	166.73
03/13/92			50.39	167.18
04/24/92			49.82	167.75
05/15/92			49.90	167.67
07/25/92			50.14	167.43
08/23/92			50.12	167.45
09/04/92			50.38	167.19
10/19/92			50.71	166.86
11/23/92			50.81	166.76
12/18/92			50.50	167.07
MW-4				
06/25/90	60.30	215.18	48.06	167.12
09/07/90			48.25	166.93
09/26/90			48.35	166.83
12/14/90			48.68	166.50
01/08/91			48.70	166.48
02/21/91			48.76	166.42
03/19/91			48.44	166.74
04/02/91			48.43	166.75
05/02/91	60.00		48.04	167.14
06/18/91			48.00	167.18
07/08/91			48.04	167.14
08/22/91			48.34	166.84
09/18/91			48.35	166.83
10/15/91			48.54	166.64
11/13/91			48.56	166.62
12/27/91			48.52	166.66
01/18/92			48.68	166.50

See notes on Page 4 of 4.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2152
Castro Valley, California
(Page 4 of 4)

Date Well Measured	Depth of Well	Well Elevation	Static Water Depth	Water Elevation
MW-4cont.				
02/20/92			48.37	166.81
03/13/92			47.96	167.22
04/24/92			47.41	167.77
05/15/92			47.46	167.72
06/08/92			47.52	167.66
07/25/92			47.67	167.51
08/23/92			47.78	167.40
09/04/92			47.78	167.40
10/19/92			48.22	166.96
11/23/92			48.34	166.84
12/18/92			48.50	166.68

Depth measurements in feet. Water elevation is mean sea level.
Static water level measured in feet below top of casing.
* = Depth to water measurements reported to tenth of foot on EMCON's field sheets.

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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: March 9, 1993
PROJECT NUMBER: 69013.13
SUBJECT: ARCO Station 2152, 22141 Center Street, Castro Valley, California

FROM: Erin McLucas
TITLE: Staff Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	3/9/93	69013.13	Final-Letter Report Quarterly Groundwater Monitoring Fourth Quarter 1992 at ARCO Station 2152, 22141 Center Street, Castro Valley, California.

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REMARKS: cc: Mr. Scott Seery, Alameda County Health Care Services Agency
Mr. Richard Hiett, RWQCB, San Francisco Bay Region
Mr. Joel Coffman, RESNA Industries Inc.

Copies: 1 to RESNA project file no. 69013.13

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
ARCO Station 2152
Castro Valley, California
(Page 1 of 2)

Well	Date	TPHg	B	T	E	X
MW-1	06/26/90	64	0.63	<0.50	<0.50	<0.50
	09/26/90	<50	<0.50	<0.50	<0.50	<0.50
	01/08/91	<50	<0.50	<0.50	<0.50	<0.50
	04/02/91	<50	<0.05	<0.05	<0.05	<0.05
	07/08/91	120	2.3	4.6	1.3	9.6
	10/15/91	<30	<0.30	<0.30	<0.30	<0.30
	03/13/92	<30	<0.30	<0.30	<0.30	<0.30
	06/08/92	<30	<0.30	<0.30	<0.30	<0.30
	09/04/92	<50	<0.5	<0.5	<0.5	<0.5
	10/19/92	<50	<0.5	<0.5	<0.5	<0.5
MW-2	06/26/90	27	<0.50	<0.50	<0.50	<0.50
	09/26/90	<50	<0.50	<0.50	<0.50	<0.50
	01/08/91	<50	<0.50	<0.50	<0.50	<0.50
	04/02/91	<50	<0.05	<0.05	<0.05	<0.05
	07/08/91	30	0.42	0.47	<0.30	0.89
	10/15/91	<30	<0.30	<0.30	<0.30	<0.30
	03/13/92	<30	<0.30	<0.30	<0.30	<0.30
	06/08/92	<30	<0.30	<0.30	<0.30	<0.30
	09/04/92	<50	<0.5	<0.5	<0.5	<0.5
	10/19/92	<50	<0.5	<0.5	<0.5	<0.5
MW-3	06/25/90	52	0.65	1.5	<0.50	2.0
	09/26/90	<50	<0.50	<0.50	<0.50	<0.50
	01/08/91	<50	<0.50	<0.50	<0.50	<0.50
	04/02/91	<50	<0.05	<0.05	<0.05	<0.05
	07/08/91	67	0.69	1.5	0.65	4.7
	10/15/91	<30	<0.30	<0.30	<0.30	<0.30
	04/13/92	<30	<0.30	<0.30	<0.30	<0.30
	06/08/92	<30	<0.30	<0.30	<0.30	<0.30
	09/04/92	<50	<0.5	<0.5	<0.5	<0.5
	10/19/92	<50	<0.5	<0.5	<0.5	<0.5
MW-4	06/25/90	<20	<0.50	<0.50	<0.50	<0.50
	09/26/90	<50	<0.50	<0.50	<0.50	<0.50
	01/08/91	<50	<0.50	<0.50	<0.50	<0.50
	04/02/91	<50	<0.05	<0.05	<0.05	<0.05
	07/08/91	50	1.4	2.4	0.62	4.2
	10/15/91	<30	<0.30	<0.30	<0.30	<0.30
	03/13/92	<30	<0.30	<0.30	<0.30	<0.30
	06/08/92	<30	<0.30	<0.30	<0.30	<0.30
	09/04/92	<50	<0.5	<0.5	<0.5	<0.5
	10/19/92	<50	<0.5	<0.5	<0.5	<0.5

See notes on Page 2 of 2.

69013.12

RECEIVED
NOV 9 - 1992
RESNA
SAN JOSE

EMCON
ASSOCIATES
Consultants in Wastes
Management and
Environmental Control

Date November 5, 1992
Project 0G70-026.01

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

We are enclosing:

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

For your: X Information Sent by: X Mail

Comments:

Enclosed are the data from the fourth quarter 1992 monitoring event at ARCO service station 2152, 22141 Center Street, Castro Valley, California. Groundwater monitoring is conducted consistent with applicable regulatory guidelines. Please call if you have any questions: (408) 453-2266.

Jim Butera JB

Reviewed by:

REGISTERED PROFESSIONAL ... ROBERT ... No: 4... Exp. 6/30/96 INDUSTRIAL ... STATE OF CALIF...

Robert C Porter

Robert Porter, Senior Project Engineer.

FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : 0G70-026.01 STATION ADDRESS : 22141 Center Street, Castro Valley DATE : 10-19-97

ARCO STATION # : 2152 FIELD TECHNICIAN : Manuel Gallegos 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-1	good	Yes	good	2359	good	49.98 ~~49.2~~	49.98 ~~49.2~~	~~ND~~	NA	58.0 ~~59.1~~	Lid needs one screw
2	MW-2	good	Yes	good	2359	good	49.20	49.20	ND	NA	59.1	Lid need one screw.
3	MW-3	good	no	good	2359	good	50.71	50.71	ND	NA	59.6	Well box Lid needs screws
4	MW-4	good	no	good	2359	good	48.22	48.22	ND	NA	60.2	Well box Lid needs screws

SURVEY POINTS ARE TOP OF WELL CASINGS

Summary of Groundwater Monitoring Data
Fourth Quarter 1992
ARCO Service Station 2152
22141 Center Street, Castro Valley, California
micrograms per liter (µg/l) or parts per billion (ppb)

Well ID and Sample Depth	Sampling Date	Depth To Water (feet)	Floating Product Thickness (feet)	TPH[1] as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-1(57)	10/19/92	49.98	ND.[2]	<50.	<0.5	<0.5	<0.5	<0.5
MW-2(58)	10/19/92	49.20	ND.	<50.	<0.5	<0.5	<0.5	<0.5
MW-3(58)	10/19/92	50.71	ND.	<50.	<0.5	<0.5	<0.5	<0.5
MW-4(59)	10/19/92	48.22	ND.	<50.	<0.5	<0.5	<0.5	<0.5
FB-1[3]	10/19/92	NA.[4]	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

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Emcon Associates
1938 Junction Avenue
San Jose, CA 95131
Attention: Jim Butera

Project: Arco 2152

Enclosed are the results from 5 water samples received at Sequoia Analytical on October 20,1992. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
2102989	Water, MW-1(57)	10/19/92	EPA 5030/8015/8020
2102990	Water, MW-2(58)	10/19/92	EPA 5030/8015/8020
2102991	Water, MW-3(58)	10/19/92	EPA 5030/8015/8020
2102992	Water, MW-4(59)	10/19/92	EPA 5030/8015/8020
2102993	Water, FB-1	10/19/92	EPA 5030/8015/8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Emcon Associates	Client Project ID:	Arco 2152	Sampled:	Oct 19, 1992
1938 Junction Avenue	Sample Matrix:	Water	Received:	Oct 20, 1992
San Jose, CA 95131	Analysis Method:	EPA 5030/8015/8020	Reported:	Oct 28, 1992
Attention: Jim Butera	First Sample #:	210-2989		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 210-2989 MW-1(57)	Sample I.D. 210-2990 MW-2(58)	Sample I.D. 210-2991 MW-3(58)	Sample I.D. 210-2992 MW-4(59)	Sample I.D. 210-2993 FB-1	Sample I.D.
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	N.D.	N.D.	
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	
Chromatogram Pattern:		--	--	--	--	--	

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	10/22/92	10/22/92	10/22/92	10/22/92	10/22/92
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	89	89	87	97	85

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Emcon Associates
1938 Junction Avenue
San Jose, CA 95131
Attention: Jim Butera

Client Project ID: Arco 2152

QC Sample Group: 2102989 - 93

Reported: Oct 29, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	M.Nipp	M.Nipp	M.Nipp	M.Nipp
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Oct 22, 1992	Oct 22, 1992	Oct 22, 1992	Oct 22, 1992
QC Sample #:	GBLK102292	GBLK102292	GBLK102292	GBLK102292
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	11	11	11	33
Matrix Spike % Recovery:	110	110	110	110
Conc. Matrix Spike Dup.:	11	11	11	34
Matrix Spike Duplicate % Recovery:	110	110	110	113
Relative % Difference:	0.0	0.0	0.0	3.0

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

ARCO Products Company
Division of AtlanticRichfieldCompany

Task Order No EMC-92-1 COPY

Chain of Custody

ARCO Facility no: 2152
City (Facility): CASTRO Valley
Project manager (Consultant): Jim Butera
ARCO engineer: Kyle Christie
Telephone no (ARCO): 415 571-2434
Telephone no (Consultant): 408 453-0719
Fax no. (Consultant): 408 453-0452
Consultant name: EMCON ASSOCIATES
Address (Consultant): 1938 JUNCTION Ave San Jose

Sample I.D.	Lab no	Container no	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH GAS EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
MW1(57')		2		X		X	HCl	10-19-92	1217		X					210	248	9				
MW2(58')		2		X		X	HCl	↓	1314		X					↓	9	0				
MW3(58')		2		X		X	HCl	↓	1429		X					↓	9	1				
MW4(57')		2		X		X	HCl	↓	1533		X					↓	9	2				
FB1		2		X		X	HCl	↓	1542		X					↓	9	3				

Laboratory name: Sequoia
Contract number:
Method of shipment: Sampler/Carrier will pick up
Special detection Limit/reporting: Lowest Possible
Special QA/QC: As Normal
Remarks: 2-40ml HCl VOA's
Lab number:

Turnaround time
- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample:
Temperature received:

Relinquished by sampler	Date	Time	Received by
Manuel Gallegos	10-19-92		
Relinquished by: [signature]	Date: 10-20-92	Time: 2:40	Received by: [signature]
Relinquished by: [signature]	Date: 10-20-92	Time: 3 35	Received by laboratory: [signature] — Date: 10 20 92 — Time: 3 35 pm

Distribution: White copy — Laboratory, Canary copy — ARCO Environmental Engineering, Pink copy — Consultant
APPC 3292 (2-91)

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: 0670-026.01 SAMPLE ID: MW-1

PURGED BY: M Gallegos CLIENT NAME: ARCO # 2152

SAMPLED BY: M Gallegos LOCATION: Castro Valley, CA

TYPE: Ground Water X Surface Water ___ Treatment Effluent ___ Other ___

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

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 5.26

DEPTH TO WATER (feet): 49.58 CALCULATED PURGE (gal.): 26.30

DEPTH OF WELL (feet): 58.0 ACTUAL PURGE VOL. (gal.): 27.0

S.C.E.

DATE PURGED: 10-19-92 Start (2400 Hr) 1150 End (2400 Hr) 1212

DATE SAMPLED: 10-19-92 Start (2400 Hr) 1216 End (2400 Hr) 1217

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1153	5.5	6.66	1489	69.6	Cloudy	heavy
1156	11.0	6.41	1703	68.9	"	heavy
1204	16.5	6.53	2150	69.4	"	"
1208	22.0	6.56	1980	69.3	"	"
1212	27.0	6.59	2050	69.1	"	moderate

D. O. (ppm): NR ODOR: None NR (COBALT 0 - 100) NR (NTU 0 - 200)

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

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ 2" Bladder Pump	___ Bailer (Teflon®)	___ 2" Bladder Pump	X Bailer (Teflon®)
___ Centrifugal Pump	___ Bailer (PVC)	___ DDL Sampler	___ Bailer (Stainless Steel)
X Submersible Pump	___ Bailer (Stainless Steel)	___ Dipper	___ Submersible Pump
___ Well Wizard™	___ Dedicated	___ Well Wizard™	___ Dedicated
Other: ___		Other: ___	

WELL INTEGRITY: Good LOCK #: 2359

REMARKS: All Samples taken

Meter Calibration: Date: 10-19-92 Time: 1130 Meter Serial #: 9011 Temperature °F: 71.3

(EC 1000 1174 / 1000) (DI ___) (pH 7 693 / 700) (pH 10 952 / 1000) (pH 4 400 / 400)

Location of previous calibration: ___

Signature: M J Gallegos Reviewed By: JB Page 1 of 4

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: 0670-0026-01 SAMPLE ID: MW-2

PURGED BY: M. Gallegos CLIENT NAME: ARCO# 2152

SAMPLED BY: M. Gallegos LOCATION: Castro Valley, CA

TYPE: Ground Water X Surface Water ___ Treatment Effluent ___ Other ___

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

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 12.49

DEPTH TO WATER (feet): ~~59~~ 4.92 CALCULATED PURGE (gal.): 32.47

DEPTH OF WELL (feet): 59.1 9.9 ACTUAL PURGE VOL. (gal.): 33.0

DATE PURGED: 10-19-92 Start (2400 Hr) 1247 End (2400 Hr) 1307

DATE SAMPLED: 10-19-92 Start (2400 Hr) 1313 End (2400 Hr) 1314

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1253	6.5	7.15	2370	71.0	Clear	Light
1256	13.0	6.74	2320	70.0	"	Trace
1300	19.5	6.85	2280	69.6	"	"
1304	26.0	6.75	2260	69.4	cloudy	Light.
1307	33.0	6.79	2270	69.2	Cloudy	Light.

D. O. (ppm): NR ODOR: None NR (COBALT 0 - 100) NR (NTU 0 - 200)

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

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ 2" Bladder Pump	___ Bailer (Teflon®)	___ 2" Bladder Pump	X Bailer (Teflon®)
___ Centrifugal Pump	___ Bailer (PVC)	___ DDL Sampler	___ Bailer (Stainless Steel)
X Submersible Pump	___ Bailer (Stainless Steel)	___ Dipper	___ Submersible Pump
___ Well Wizard™	___ Dedicated	___ Well Wizard™	___ Dedicated
Other: ___		Other: ___	

WELL INTEGRITY: Good LOCK #: 2359

REMARKS: All Samples Taken

Meter Calibration: Date: 10-19-92 Time: ___ Meter Serial #: ___ Temperature °F: ___

(EC 1000 ___ / ___) (DI ___) (pH 7 ___ / ___) (pH 10 ___ / ___) (pH 4 ___ / ___)

Location of previous calibration: MW-1

Signature: M. Gallegos Reviewed By: JB Page 2 of 4

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: 0670-6026.01 SAMPLE ID: MW-3

PURGED BY: M Gallegos CLIENT NAME: ARCO # 7152

SAMPLED BY: M Gallegos LOCATION: Castro Valley

TYPE: Ground Water X Surface Water ___ Treatment Effluent ___ Other ___

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

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 5.83

DEPTH TO WATER (feet): 50.71 CALCULATED PURGE (gal.): 29.15

DEPTH OF WELL (feet): 59.6 5.89 ACTUAL PURGE VOL. (gal.): 30.0

DATE PURGED: 10-19-92 Start (2400 Hr) 1402 End (2400 Hr) 1423

DATE SAMPLED: 10-19-92 Start (2400 Hr) 1428 End (2400 Hr) 1429

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1407	6.0	7.22	4220	71.4	Cloudy	heavy
1410	12.0	6.78	2510	68.5	Clear	trace
1415	18.0	6.68	2300	67.7	"	"
1419	24.0	6.68	2270	67.3	"	"
1423	30.0	6.69	2310	67.3	"	"

D. O. (ppm): NR ODOR: None NR (COBALT 0 - 100) NR (NTU 0 - 200)

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

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ 2" Bladder Pump	___ Bailer (Teflon®)	___ 2" Bladder Pump	X Bailer (Teflon®)
___ Centrifugal Pump	___ Bailer (PVC)	___ DDL Sampler	___ Bailer (Stainless Steel)
X Submersible Pump	___ Bailer (Stainless Steel)	___ Dipper	___ Submersible Pump
___ Well Wizard™	___ Dedicated	___ Well Wizard™	___ Dedicated
Other: ___		Other: ___	

WELL INTEGRITY: Good LOCK #: 2359

REMARKS: All Samples taken.

Meter Calibration: Date: 10-19-92 Time: 1130 Meter Serial #: 9011 Temperature °F: 73

(EC 1000 ~~1774~~ / ~~1000~~) (DI ___) (pH 7 ~~6.93~~ / ~~7.00~~) (pH 10 ~~9.92~~ / ~~10.00~~) (pH 4 ~~4.06~~ / ~~4.06~~)

Location of previous calibration: MW-1

Signature: M. L. Gallegos Reviewed By: JB Page 3 of 4

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: ~~0670-002~~ 0670-026-01 SAMPLE ID: MW-4

PURGED BY: M Gallegos CLIENT NAME: ARCO # 2152

SAMPLED BY: M Gallegos LOCATION: Castro Valley, 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.): 7.85

DEPTH TO WATER (feet): 48.22 CALCULATED PURGE (gal.): 39.29

DEPTH OF WELL (feet): 60.2 TGX ACTUAL PURGE VOL. (gal.): 40.0

DATE PURGED: 10-19-92 Start (2400 Hr) 1500 End (2400 Hr) 1526

DATE SAMPLED: 10-19-92 Start (2400 Hr) 1532 End (2400 Hr) 1533

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1506	8.0	7.33	2290	70.2	Cloudy	Heavy
1510	16.0	6.86	2080	68.8	Cloudy	Light
1514	24.0	6.81	2070	68.4	"	"
1520	32.0	6.99	2070	68.1	"	"
1526	40.0	7.03	2070	68.1	"	"

D. O. (ppm): NR ODOR: None. NR (COBALT 0 - 100) NR (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): FB-1 (1542)

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ 2" Bladder Pump	___ Bailer (Teflon®)	___ 2" Bladder Pump	X Bailer (Teflon®)
___ Centrifugal Pump	___ Bailer (PVC)	___ DDL Sampler	___ Bailer (Stainless Steel)
X Submersible Pump	___ Bailer (Stainless Steel)	___ Dipper	___ Submersible Pump
___ Well Wizard™	___ Dedicated	___ Well Wizard™	___ Dedicated
Other: ___		Other: ___	

WELL INTEGRITY: Good LOCK #: 2359

REMARKS: All Samples taken

Meter Calibration: Date: 10-19-92 Time: ___ Meter Serial #: ___ Temperature °F: ___

(EC 1000 ___ / ___) (DI ___) (pH 7 ___ / ___) (pH 10 ___ / ___) (pH 4 ___ / ___)

Location of previous calibration: MW-1

Signature: M Gallegos Reviewed By: JB Page 4 of 4

6 9013.12

EMCON ASSOCIATES
Consultants in Wastes Management and Environmental Control

RESNA SAN JOSE
DEC 18 1992
RECEIVED

Date December 17, 1992
Project 0G70-026.01

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

We are enclosing:

Copies	Description
1	Depth To Water/Floating Product Survey Results
	November 1992 monthly water level survey, ARCO
	station 2152, 22141 Center Street, Castro Valley, CA

For your: X Information Sent by: X Mail

Comments:

Revised monthly water level data for the above mentioned site are attached. Please make note that original data sent had well MW-3 water level reported as well MW-4 and MW-4 reported as MW-3. I apologize for any inconveniences this may have caused. Please call if you have any questions: (408) 453-2266.

J Butera

Jim Butera

1938 Junction Avenue, San Jose, California 95131-2102. (408) 453-0719 Fax (408) 453-0452

FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : 0G70-026.01 STATION ADDRESS : 22141 Center Street, Castro Valley DATE : 11-23-92

ARCO STATION # : 2152 FIELD TECHNICIAN : J.W 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-1**	ok	yes	YES	3259	ok	50.10	50.10	ND	ND	58.0	—
2	**MW-2**	ok	YES	YES	3259	ok	49.35	49.35	ND	ND	59.1	—
3	**MW-3**	ok	YES	YES	3259	ok	50.81	50.31	ND	ND	59.6	—
4	**MW-4**	ok	YES	YES	3259	ok	48.34	48.34	ND	ND	60.2	—

SURVEY POINTS ARE TOP OF WELL CASINGS

69-13.13

EMCON
ASSOCIATES
Consultants in Wastes
Management and
Environmental Control

RECEIVED
JAN - 1993
RESNA

Date December 23, 1992
Project 0G70-026.01

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

We are enclosing:

Copies	Description
1	Depth To Water/Floating Product Survey Results
	December 1992 monthly water level survey, ARCO
	station 2152, 22141 Center Street, Castro Valley, CA

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:

REGISTERED PROFESSIONAL ... ROBERT CURTIS ...
No. 40..
Exp. 6/30/96

Jim Butera JB

[illegible]
Robert Porter, Senior Project Engineer.

FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : 0G70-026.01 STATION ADDRESS : 22141 Center Street, Castro Valley DATE : 12.18.92

ARCO STATION # : 2152 FIELD TECHNICIAN : MG / JW DAY : Friday

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-1	OK	YES	OK	3259	OK	50.29	50.29	ND	ND	57.8	—
2	MW-2	OK	YES	OK	3259	OK	49.57	49.58	ND	ND	59.0	—
3	MW-3	OK	YES	OK	3259	OK	51.0	49.99	ND	ND	59.5	—
4	MW-4	OK	YES	OK	3259	OK	48.50	48.50	ND	ND	60.0	—

SURVEY POINTS ARE TOP OF WELL CASINGS

{TF1084-1}

TF NUMBER: 1084-1 GIB-92-082

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 RINSATE 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 by Jon DeLon 11/12/92
(Typed or printed full name & signature) (Date)

SITE INFORMATION

	STA #	JOB #	ADDRESS	GALS
1	A-2133	21240-PW	2908 BENJAMIN HOLT DR., STOCKTON, CA	84
	A-716	21175-PW	699 SAN ANTONIO RD., PALO ALTO, CA	120
3	A-440	21262-PW	600 PORTOLA ST., SAN FRANCISCO, CA	12
	A-1326	21176-PW	840 SAN ANTONIO RD., PALO ALTO, CA	226
	A-5662	21293-PW	OROVILLE DAM RD., OROVILLE, CA	122
	A-2035	21179-PW	1001 SAN PABLO AVE., ALBANY, CA	129
	A-601	21195-DW	712 LEWELLING BLVD., SAN LEANDRO, CA	118
8	A-2152	21174-PW	22141 CENTER ST., CASTRO VALLEY, CA	114
	A-2162	21131-PW	15135 HESPERIAN BLVD., SAN LEANDRO, CA	104
10	A-2076	21193-DW	800 E. KETTLEMAN LANE, LODI, CA	583
	A-2185	21186-PW	9800 E. 14TH AVE., OAKLAND, CA	104
			TOTAL GALLONS:	1,716

TRANSPORTER INFORMATION

NAME: BALCH PETROLEUM

ADDRESS: 930 AMES AVE.

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

TRUCK ID #: PETERBILT HURSCHEL WARD Hurschel Ward 11-13-92
(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 Steven Raghi 11-13-92
(Typed or printed full name & signature) (Date)