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

69013.09

12-30-92

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3315 Almaden Expressway, Suite 34
San Jose, CA 95118
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TRANSMITTAL

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

DATE: December 30, 1992
PROJECT NUMBER: 69013.09
SUBJECT: Final - Quarterly Groundwater Monitoring, Third Quarter 1992, ARCO Station 2152, 22141 Center Street, Castro Valley, California.

FROM: Erin McLucas
TITLE: Staff Geologist

WE ARE SENDING YOU:

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

Copies: 1 to RESNA project file no. 69013.09

RESNA
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3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2345

December 30, 1992
1111MWHE
69013.09

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

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

Mr. Whelan:

As requested by ARCO Products Company (ARCO), this letter report summarizes the results of the third 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 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 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 July 25, August 23, and September 4, 1992. Quarterly sampling was performed by EMCON field personnel on September 4, 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. 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 July, August, and September 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 toward the south-southwest. The gradients for July and September were interpreted from EMCON's DTW measurements from wells MW-1 through MW-4. The gradient for August was interpreted using wells MW-1, MW-3 and MW-4 as the groundwater elevation calculated for MW-2 was anomalously high. The groundwater elevations and gradients for this quarter are generally consistent with previously interpreted data, with the exception of the anomalously high groundwater elevation in well MW-2 during August.

Groundwater monitoring wells MW-1 through MW-4 were purged and sampled by EMCON field personnel on September 4, 1992. EMCON's water sample field data sheets, field report sheet, and Summary of Groundwater Monitoring Data for September 4, 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 Disposal 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
DIANE M. BARCLAY
No. EG1366
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

Diane M. Barclay
Certified Engineering
Geologist No. 1366

Enclosures: References
Plate 1, Site Vicinity Map
Plate 2, Generalized Site Plan
Plate 3, Groundwater Gradient Map, July 25, 1992
Plate 4, Groundwater Gradient Map, August 23, 1992
Plate 5, Groundwater Gradient Map, September 4, 1992
Plate 6, TPHg/Benzene Concentrations in Groundwater, September 4, 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 Disposal 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

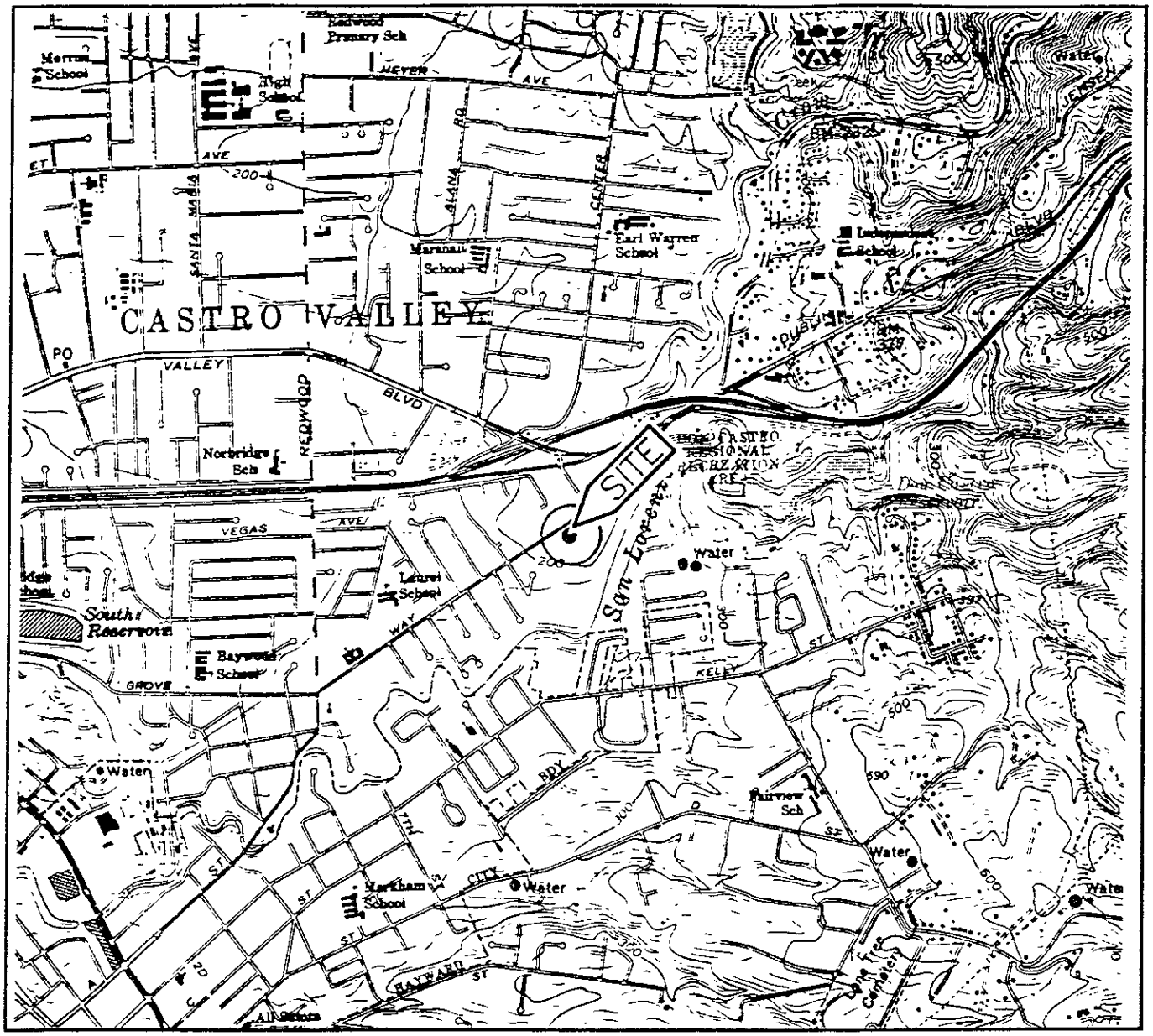
RESNA. March 2, 1992. Letter Report, Quarterly Groundwater Monitoring, Fourth Quarter 1991, 22141 Center Street, Castro Valley, California, 69013.09.

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

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

REFERENCES
(Continued)

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



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

N

LEGEND

⊙ = Site Location

Approximate Scale

2000 1000 0 2000 4000

feet

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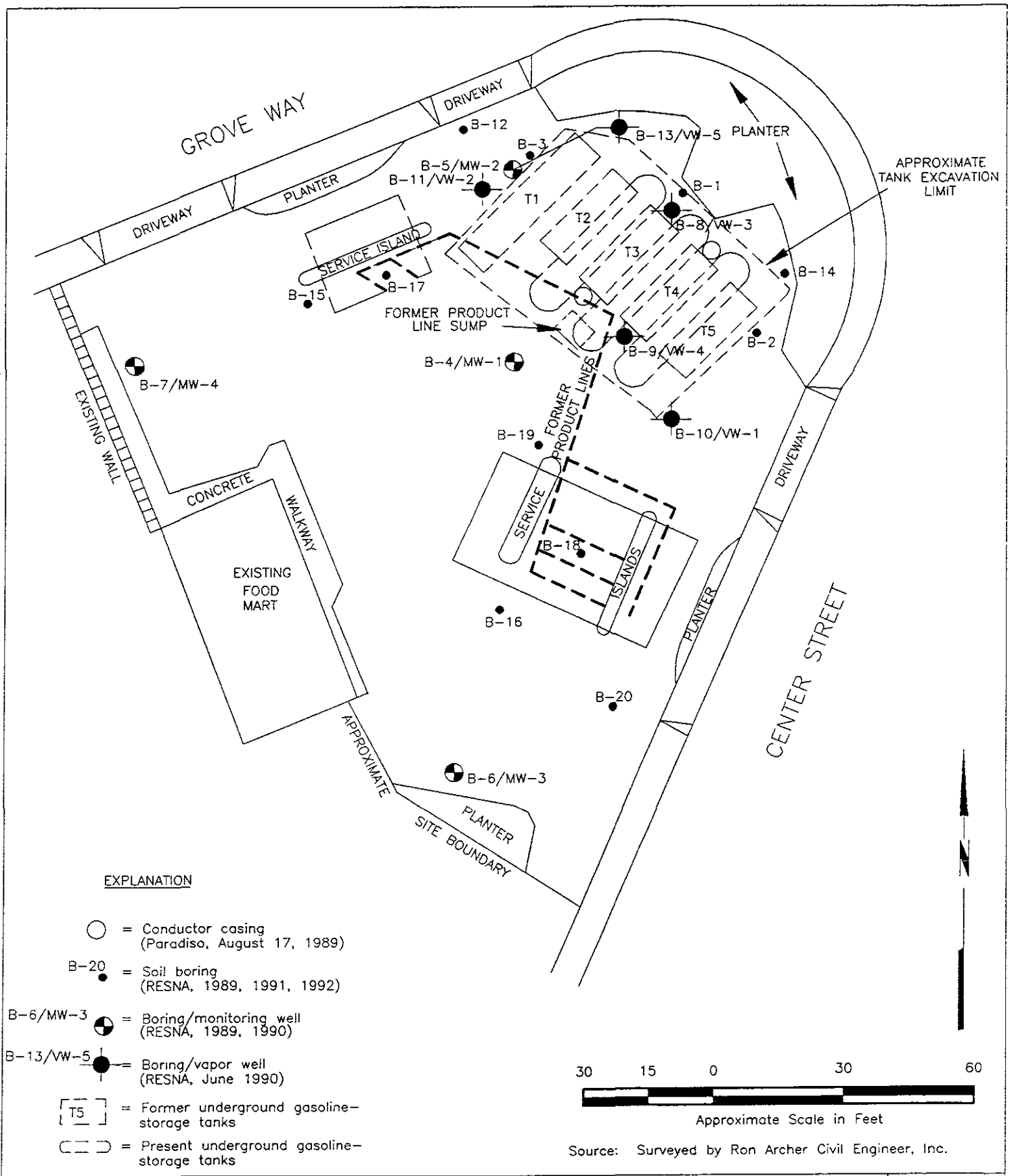
SITE VICINITY MAP
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE
1



Source: Surveyed by Ron Archer Civil Engineer, Inc.

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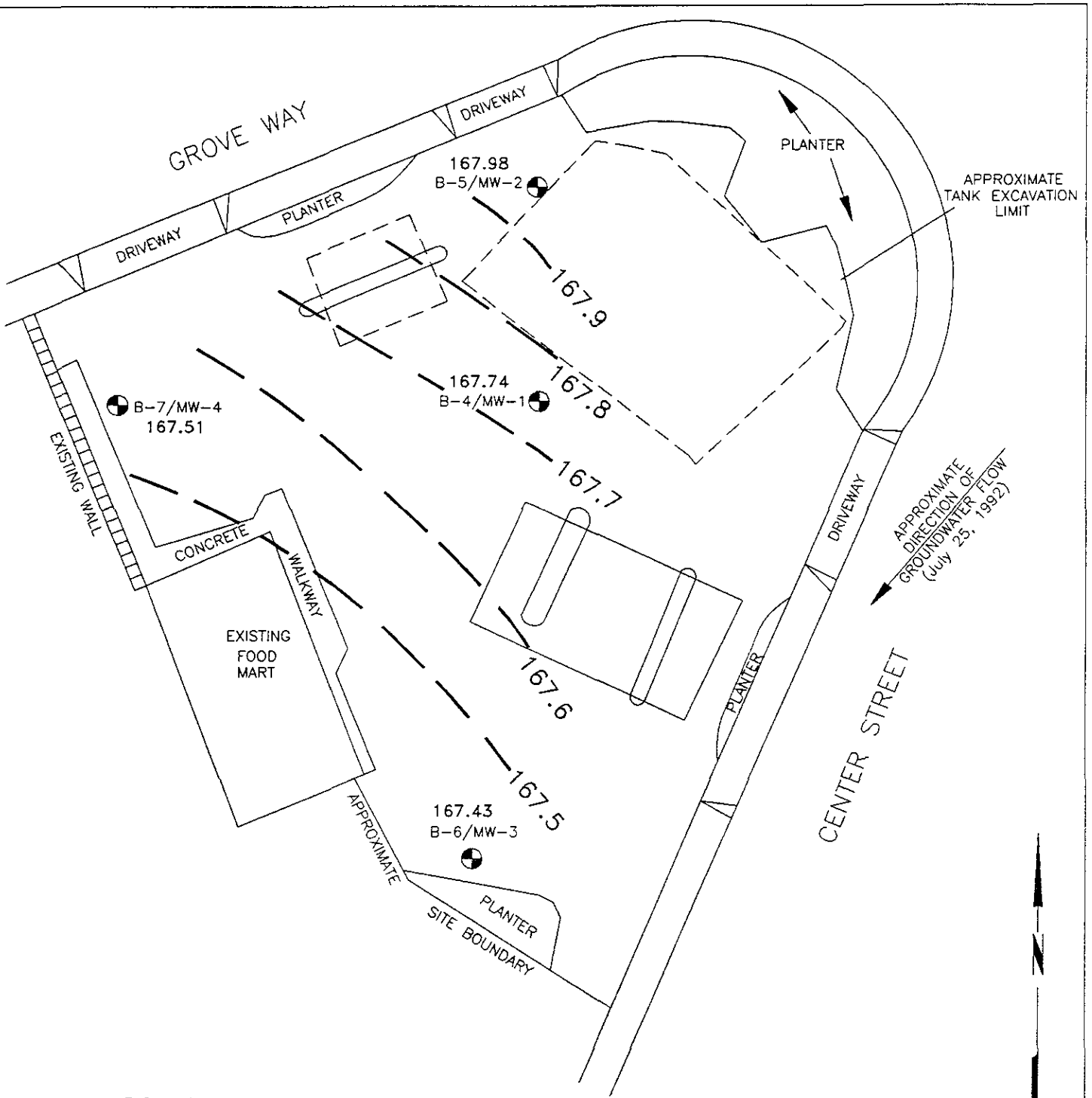
GENERALIZED SITE PLAN
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE 2



EXPLANATION

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

167.98 = Elevation of groundwater in feet (MSL) July 25, 1992

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

Source: Surveyed by Ron Archer Civil Engineer, Inc.

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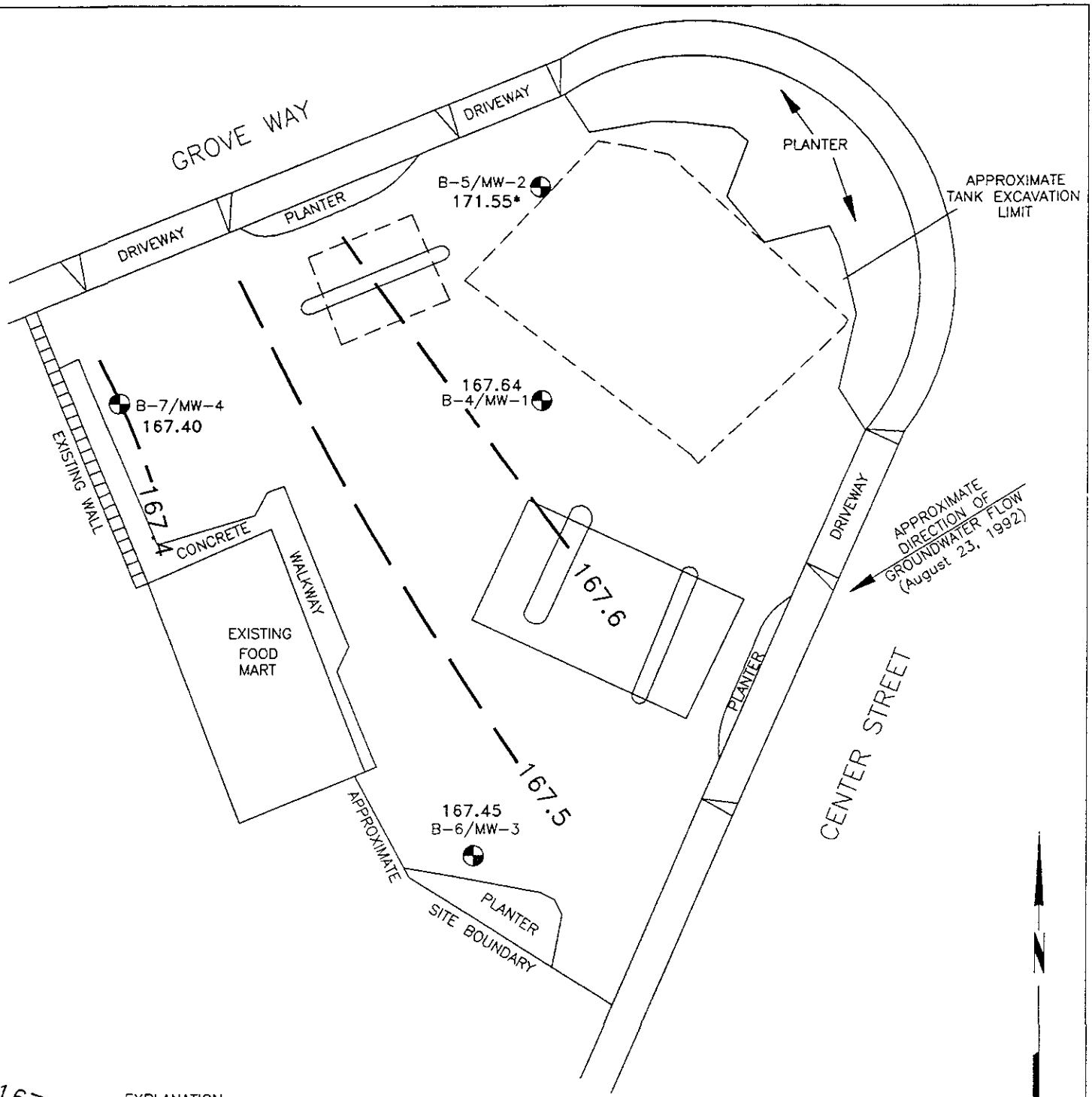
GROUNDWATER GRADIENT MAP
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE 3



167.6 — EXPLANATION

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

167.64 = Elevation of groundwater in feet (MSL) August 23, 1992

171.55* = Anomolous high groundwater elevation, not used to interpret groundwater gradient

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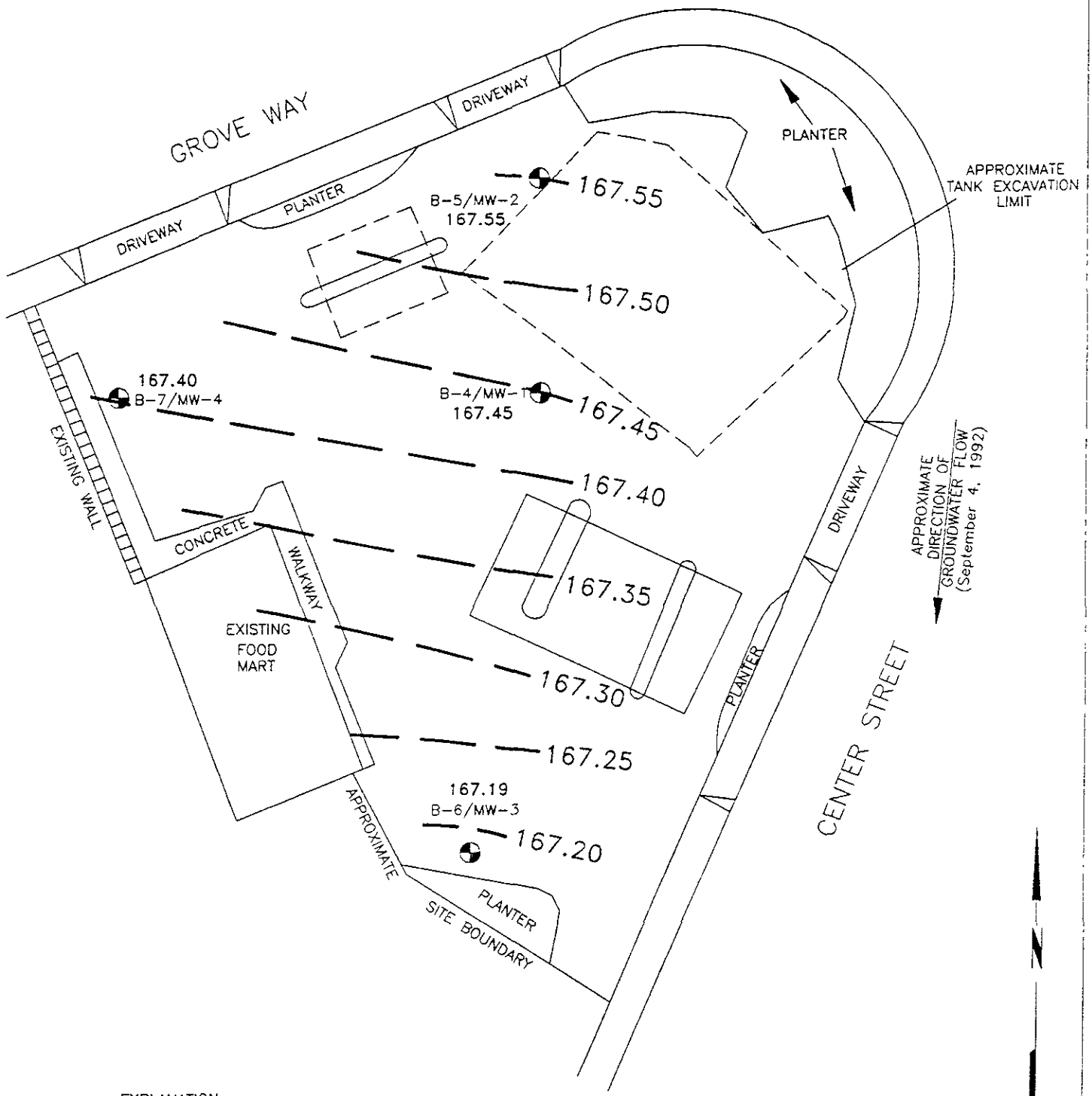
GROUNDWATER GRADIENT MAP
ARCO Station 2152
22141 Center Street
Castro Valley, California

PLATE 4



Source: Surveyed by Ron Archer Civil Engineer, Inc.

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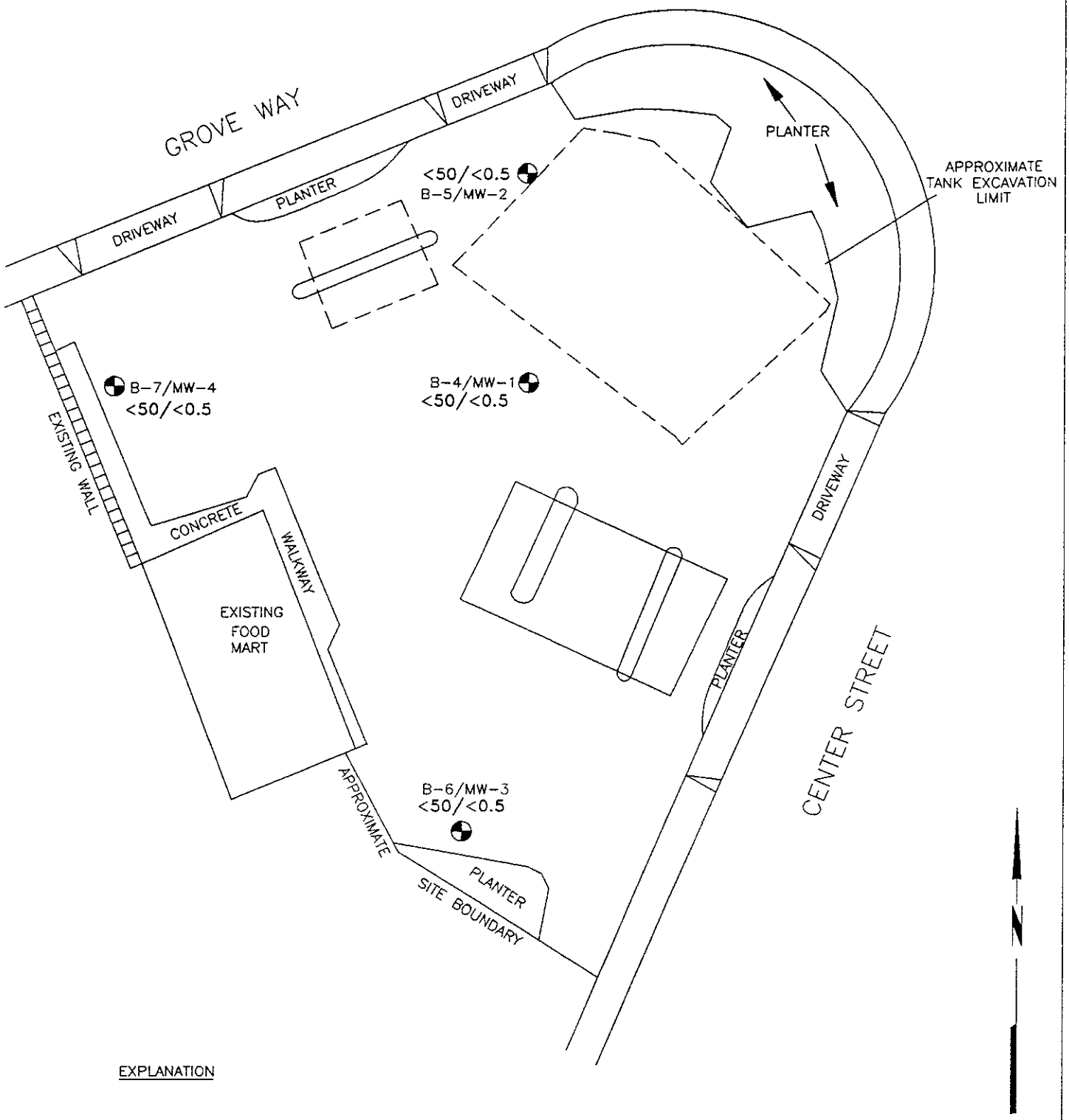
PROJECT 69013.09

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

PLATE 5



EXPLANATION

<50/<0.5 = Concentrations of TPHg/Benzene in groundwater in parts per billion (ppb) September 4, 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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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 3)

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
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
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

See notes on Page 3 of 3.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2152
Castro Valley, California
(Page 2 of 3)

Date Well Measured	Depth of Well	Well Elevation	Static Water Depth	Water Elevation
MW-2				
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
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
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
06/08/92			50.0*	167.6*
07/25/92			50.14	167.43
08/23/92			50.12	167.45
09/04/92			50.38	167.19
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

See notes on Page 3 of 3.

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

Date Well Measured	Depth of Well	Well Elevation	Static Water Depth	Water Elevation
MW-4				
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
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

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.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
ARCO Station 2152
Castro Valley, California

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
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
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
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

Results in parts per billion (ppb).
TPHg: Total petroleum hydrocarbons as gasoline
B:benzene T:toluene E:ethylbenzene X:total xylene isomers

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 DISPOSAL FORM

EMCON ASSOCIATES
Consultants in Wastes Management and Environmental Control

Date July 28, 1992
Project G70-26.01

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
	July 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 ENGINEER
No: 4034
Exp. 6/30/92
INDUSTRIAL
STATE OF CALIFORNIA

Jim Butera JB

Robert Porter, Senior Project Engineer.

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

FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : G70-26.01 STATION ADDRESS : 22141 Center Street, Castro Valley DATE : 1/25/92

ARCO STATION # : 2152 FIELD TECHNICIAN : K Schaerer DAY : Thurs

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	Yes	Yes	GK	3259	Yes	49.97	49.97	N.D	N.D	58.0	
2	MW-2	Yes	Yes	GK	3259	Yes	48.52	48.52	N.D	N.D	57.1	
3	MW-3	Yes	Yes	GK	3259	Yes	50.14	50.14	N.D	N.D	59.6	-
4	MW-4	Yes	Yes	GK	3259	Yes	47.67	47.67	N.D	N.D	60.2	-
												Floating product in well MW-2 and MW-4

SURVEY POINTS ARE TOP OF WELL CASINGS

EMCON ASSOCIATES
Consultants in Wastes Management and Environmental Control

RECEIVED
1992
RESNA
SAN JOSE

Date Sept 01, 1992
Project G70-26.01

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
	August 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: Jim Butera JB

REGISTERED PROFESSIONAL ENGINEER No: 4094 Exp. 6/30/94 INDUSTRIAL STATE OF CALIFORNIA

Robert Porter, Senior Project Engineer.

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

FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : G70-26.01 STATION ADDRESS : 22141 Center Street, Castro Valley DATE : 8.23.92

ARCO STATION # : 2152 FIELD TECHNICIAN : Rich Schaffer DAY : MON

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	FINE	Yes	NONE	3259	Yes	49.52	49.52	N.D	N.D	58.0	–
2	MW-2	FINE	Yes	NONE	3259	Yes	44.95	44.95	N.D	N.D	59.1	–
3	MW-3	FINE	NO	NONE	3259	Yes	50.12	50.12	N.D	N.D	57.6	Forgot DEPTH I.D.
4	MW-4	FINE	Yes	NONE	3259	Yes	47.78	47.78	N.D	N.D	60.2	–

SURVEY POINTS ARE TOP OF WELL CASINGS

EMCON ASSOCIATES
Consultants in Wastes Management and Environmental Control

Date Sept 22, 1992
Project G70-26.01

To:
Mr. Joel Coffman
RESNA/ Applied Geosystems
3315 Almaden Expressway, Suite 34
San Jose, California 95050

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 third 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.

Reviewed by:

Jim Butera JB

Robert Porter, Senior Project Engineer.

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

FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : G70-26.01 STATION ADDRESS : 22141 Center Street, Castro Valley DATE : 9.4.92

ARCO STATION # : 2152 FIELD TECHNICIAN : Madlen 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	49.71	49.71	ND	ND	58.1	1 bolt to lid missing
2	MW-2	OK	Yes	OK	3259	OK	48.95	48.95	ND	ND	59.2	1 bolt to lid missing
3	MW-3	OK	No	OK	3259	OK	50.38	50.38	ND	ND	59.7	Piece of well box lid broken off bolts missing also
4	MW-4	OK	Yes	OK	3259	OK	47.78	47.78	ND	ND	60.3	1 bolt for lid missing
								All bolts needed are diversified screws				

SURVEY POINTS ARE TOP OF WELL CASINGS

Summary of Groundwater Monitoring Data
Third 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(58)	09/04/92	49.71	ND.[2]	<50.	<0.5	<0.5	<0.5	<0.5
MW-2(59)	09/04/92	48.95	ND.	<50.	<0.5	<0.5	<0.5	<0.5
MW-3(59)	09/04/92	50.38	ND.	<50.	<0.5	<0.5	<0.5	<0.5
MW-4(60)	09/04/92	47.78	ND.	<50.	<0.5	<0.5	<0.5	<0.5
FB-1[3]	09/04/92	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, Castro Valley

Enclosed are the results from 5 water samples received at Sequoia Analytical on September 9,1992. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
2091185	Water, MW1(58)	9/4/92	EPA 5030/8015/8020
2091186	Water, MW-2 (59)	9/4/92	EPA 5030/8015/8020
2091187	Water, MW-3(59)	9/4/92	EPA 5030/8015/8020
2091188	Water, MW-4(60)	9/4/92	EPA 5030/8015/8020
2091189	Water, FB-1	9/4/92	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, Castro Valley	Sampled: Sep 4, 1992
1938 Junction Avenue	Sample Matrix:	Water	Received: Sep 9, 1992
San Jose, CA 95131	Analysis Method:	EPA 5030/8015/8020	Reported: Sep 17, 1992
Attention: Jim Butera	First Sample #:	209-1185	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 209-1185 MW1(58)	Sample I.D. 209-1186 MW-2 (59)	Sample I.D. 209-1187 MW-3(59)	Sample I.D. 209-1188 MW-4(60)	Sample I.D. 209-1189 FB-1
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:	9/10/92	9/10/92	9/10/92	9/10/92	9/10/92
Instrument Identification:	GCHP 6	GCHP 6	GCHP 6	GCHP 6	GCHP 6
Surrogate Recovery, %: (QC Limits = 70-130%)	110	104	100	104	108

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, Castro Valley

QC Sample Group: 2091185-89

Reported: Sep 17, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Sep 10, 1992	Sep 10, 1992	Sep 10, 1992	Sep 10, 1992
QC Sample #:	GBLK091092	GBLK091092	GBLK091092	GBLK091092
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	9.7	9.2	9.3	27
Matrix Spike % Recovery:	97	92	93	90
Conc. Matrix Spike Dup.:	9.9	9.3	9.6	28
Matrix Spike Duplicate % Recovery:	99	93	96	93
Relative % Difference:	2.0	1.1	3.2	3.6

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}}$	x 100
Relative % Difference:	$\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}}$	x 100

ARCO Products Company Division of Atlantic Richfield Company

Task Order No. EMCGC-92-7

Chain of Custody

COPY

ARCO Facility no	7152	City (Facility)	Castro Valley
ARCO engineer	Kyle Christie	Telephone no (ARCO)	415 571-2434
Consultant name	EMCON Associates	Address (Consultant)	1938 Junction Ave San Jose
Project manager (Consultant)	Jim Buttell	Telephone no (Consultant)	408 453-0719
Fax no (Consultant)	408 453-0452		
Laboratory name	SEQUOIA		
Contract number	07-073		
Method of shipment	Owner will pick up		

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 EPA M602/8020/8015 GHS	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 ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐	
MW-1(58)		2		X		X	HCl	9-4-92	1512		X									209	11185
MW-2(57)		2		X		X	HCl	9-4-92	1607		X									209	11186
MW-3(54)		2		X		X	HCl	9-4-92	1424		X									209	11187
MW-4(60)		2		X		X	HCl	9-4-92	~~1434~~ 1653		X									209	11188
TB-1		2		X		X	HCl	9-4-92	1707		X									209	11189

Special detection Limit/reporting: Lowest Possible

Special QA/QC: MS Normal

Remarks: 2-40ml HCl VOA's Sequoia Bottles

Lab number:

Turnaround time

- Priority Rush 1 Business Day [ ]
- Rush 2 Business Days [ ]
- Expedited 5 Business Days [ ]
- Standard 10 Business Days [x]

Condition of sample: Good

Temperature received: Cool

	Date	Time	
Relinquished by sampler	9/8/92	14:15	Received by
Relinquished by	9/8/92	16:20	Received by
Relinquished by	Date	Time	Received by laboratory: Date 9-8-92 Time 1620

Distribution White copy — Laboratory, Canary copy — ARCO Environmental Engineering, Pink copy — Consultant

APC-3292 (2 91)

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: G70-26.01 SAMPLE ID: MW-1 (58)

PURGED BY: MAdler CLIENT NAME: ARCO 2152

SAMPLED BY: MAdler LOCATION: 22141 Center St. 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.): 5.5

DEPTH TO WATER (feet): 49.71 CALCULATED PURGE (gal.): 27.51

DEPTH OF WELL (feet): 58.1 ACTUAL PURGE VOL. (gal.): 27.5

DATE PURGED: 9.4.92 Start (2400 Hr) 1452 End (2400 Hr) 1510

DATE SAMPLED: 9.4.92 Start (2400 Hr) 1512 End (2400 Hr) 1513

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1456	5.5	6.68	1673	74.7	TAN	Light
1459	11.0	6.64	1815	71.9	TAN	Light
1503	16.5	6.64	1940	71.2	TAN	Light
1507	22.0	6.60	2050	70.5	clear	Light
1510	27.5	6.60	2080	70.1	clear	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 #: 3259

REMARKS: ___

Meter Calibration: Date: 9-4-92 Time: 1343 Meter Serial #: 9112 Temperature °F: ___

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

Location of previous calibration: MW-3 (59)

Signature: [signature] Reviewed By: [signature] Page 1 of 4

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: G70-26.01 SAMPLE ID: MW-2 (59)

PURGED BY: MAdler CLIENT NAME: Arco 2152

SAMPLED BY: MAdler LOCATION: 22141 Foothill Blvd, 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.):	6.72
DEPTH TO WATER (feet):	48.95	CALCULATED PURGE (gal.):	33.62
DEPTH OF WELL (feet):	59.2	ACTUAL PURGE VOL (gal.):	34.0

DATE PURGED: 9-4-92 Start (2400 Hr) 1544 End (2400 Hr) 1604

DATE SAMPLED: 9-4-92 Start (2400 Hr) 1607 End (2400 Hr) 1608

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1549	7.0	6.66	2410	72.5	clear	clear
1553	14.0	6.68	2380	71.1	clear	clear
1557	21.0	6.69	2350	70.5	clear	clear
1601	28.0	6.71	2330	70.4	clear	clear
1604	34.0	6.67	2330	69.4	clear	clear

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 #: 3259

REMARKS: ___

Meter Calibration: Date: 9-4-92 Time: 1343 Meter Serial #: 9112 Temperature °F: ___

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

Location of previous calibration: MW-3 (59)

Signature: [signature] Reviewed By: JB Page 2 of 11

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: 610-26.01 SAMPLE ID: MW-3 (59)

PURGED BY: MAdler CLIENT NAME: Arco 2152

SAMPLED BY: MAdler LOCATION: 22141 Foothill St. 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.): ~~7.64~~ 6.11

DEPTH TO WATER (feet): 50.38 CALCULATED PURGE (gal.): 30.56

DEPTH OF WELL (feet): 59.7 ACTUAL PURGE VOL. (gal.): 31.0

DATE PURGED: 9.4.92 Start (2400 Hr) 1357 End (2400 Hr) 1421

DATE SAMPLED: 9.4.92 Start (2400 Hr) 1424 End (2400 Hr) 1425

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1403	~~8.0~~ 6.5	6.71	2380	73.7	clear	light
1409	13.0	6.71	2540	71.5	clear	clear
1413	19.5	6.65	2510	70.5	clear	clear
1417	26.0	6.66	2444	69.8	clear	clear
1421	31.0	6.64	2420	69.7	clear	clear

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 #: 3259

REMARKS: ___

Meter Calibration: Date: 9.4.92 Time: 1343 Meter Serial #: 9112 Temperature °F: 81.2

(EC 1000 1063 / 1000) (DI 52.1) (pH 7 7.04 / 7.00) (pH 10 7.98 / 10.00) (pH 4 4.08 / ___)

Location of previous calibration: MW-3 (59)

Signature: MAdler Reviewed By: JB Page 3 of 4

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: G70-26.01 SAMPLE ID: MW-4 (60)

PURGED BY: MAdler CLIENT NAME: Arco 2152

SAMPLED BY: MAdler LOCATION: 22141 Center St. 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.):	8.21
DEPTH TO WATER (feet):	47.78	CALCULATED PURGE (gal.):	41.06
DEPTH OF WELL (feet):	60.3	ACTUAL PURGE VOL. (gal.):	42.6

DATE PURGED: 9-4-92 Start (2400 Hr) 1630 End (2400 Hr) 1655

DATE SAMPLED: 9-4-92 Start (2400 Hr) 1658 End (2400 Hr) 1659

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1635	8.5	6.80	1710	70.7	Tan	Light
1640	17.0	6.74	1706	69.7	clear	Light
1646	25.5	6.75	1705	69.3	clear	clear
1651	34.0	6.76	1693	69.5	clear	clear
1655	42.0	6.73	1705	69.5	clear	clear

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

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

WELL INTEGRITY: Good LOCK #: 3259

REMARKS: ___

Meter Calibration: Date: 9-4-92 Time: 1343 Meter Serial #: 9112 Temperature °F: ___

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

Location of previous calibration: MW-3 (59)

Signature: MAdler Reviewed By: JB Page 4 of 4

MONITORING WELL PURGE WATER TRANSPORTER FORM

RECEIVED
OCT 3 2 1992
RESNA
SAN JOSE

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 Stephen R. Majeski 9-24-92
(Typed or printed full name & signature) (Date)

SITE INFORMATION

	STA #	JOB #	ADDRESS	GALS
1	A-2092	21073-DW	5498 MONTEREY HWY., SAN JOSE, CA	401
2	A-6113	21053-PW	785 E. STANLEY, LIVERMORE, CA	30
3	A-771	21088-PW	899 RINCON AVE., LIVERMORE, CA	98
4	A-6201	20916-PW	40077 MISSION BLVD., FREMONT, CA	8
5	A-2152	21045-PW	22141 CENTER ST., CASTRO VALLEY, CA	123
6	A-6041	21050-PW	7249 VILLAGE PKWY., DUBLIN, CA	27
7	A-4495	21038	1950 S. DELAWARE, SAN MATEO, CA	46
8	A-4430	21010-PW	2995 MIDDLEFIELD RD., PALO ALTO, CA	173
9	A-2010	21090-PW	2110 OLD MIDDLEFIELD RD., MOUNTAIN VIEW, CA	415
10	A-1319	21054-PW	365 JACKSON ST., HAYWARD, CA	346
11	A-5387	21087-PW	20200 HESPERIAN BLVD., HAYWARD, CA	328
			TOTAL GALLONS:	1,995

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 9-24-92
(Typed or printed full name & signature) (Date)

TSD FACILITY INFORMATION

NAME: GIBSON ENVIRONMENTAL Gov 1464

ADDRESS: 475 SEAPORT BLVD

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

RELEASE #: 11320 Shawn Reglin Shawn Reglin
(Typed or printed full name & signature) (Date)

P.O. G.R 92-074 9-2