Environmental
Science &
Engineering, Inc.
A CH2MHILL Company

November 1, 1996

Mr. Ondrej Kojnok
Tri Star Partnership
2 North Second Street, #1390
San Jose, CA 95113

SUBJECT: THIRD QUARTER 1996 GROUND WATER MONITORING REPORT
AUTOPRO FACILITY
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
ESE PROJECT NO. 65-95-219

Dear Mr. Kojnok:

Environmental Science & Engineering, Inc. (ESE) is pleased to present the results of third quarter 1996 ground water monitoring activities for the Autopro Facility (site) located at 5200 Telegraph Avenue in Oakland, California (Figure 1 - Location Map). These activities were mandated by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated September 13, 1995. Ground water monitoring activities were completed at the downgradient former Chevron site on September 12, 1996 by Blaine Tech Services, Inc. (Blaine). Due to conflicting site access schedules, ESE performed ground water monitoring activities at the Autopro site on September 24, 1996. The following report describes the activities completed and the results.

FIELD ACTIVITIES

On September 24, 1996, ESE personnel performed ground water monitoring activites at the site. Depths to ground water were measured using an electronic water level meter in four on-site ground water monitoring wells (Figure 2 - Site Map). No evidence of free-product was found in any of the four on-site wells. A minimum of three volumes of ground water was removed from each well using a pre-cleaned disposable bailer and new nylon cord. Temperature, pH, and electrical conductivity parameters were recorded during the well purging process. Ground water samples were collected from the well following the purge process. Ground water sample collection logs, documenting the collected parameters and other information, is presented as an attachment. Ground water was decanted from the disposable bailer into laboratory-supplied glassware. The samples were then labelled and placed in a cooler on ice under proper chain-of-custody documentation for transport to a State-certified analytical laboratory.

The samples were analyzed by McCampbell Analytical Inc. (McCampbell) for Total Petroleum Hydrocarbons as gasoline (TPH-G), as diesel (TPH-D), and as motor oil (TPH-MO); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tertiary butyl ether (MTBE) by Environmental Protection Agency (EPA) methods 8015, 8015M, 8015M, 8020, and 8020, respectively. Laboratory reports and chain-of-custody documentation are included as an attachment.

Purge water and equipment rinseate was stored on-site in properly labelled Department of Transportation (DOT)-rated 55-gallon drums pending analysis and proper disposal/recycling.

RESULTS

Depth to ground water in the four on-site wells ranged from 11.51 feet to 12.53 feet below top of casing. Ground water elevations were calculated and are presented in Table 1 - Historical Ground Water Data. Ground water elevation contours were plotted on Figure 3 - Ground Water Elevation Contour Map, September 24, 1996. Ground water was found to flow towards the southwest at an approximate gradient of 0.018 foot per foot (93.46 feet per mile).

TPH-G was detected in wells MW-1, MW-3, and MW-4 at concentrations of 170 µg/L, 4,800 µg/L, and 5,300 µg/L, respectively. The results for samples collected from wells MW-3 and MW-4 were quantified as having broad chromatographic peaks which may be an indication of biologically alteration of the contaminant.

TPH-D was detected in wells MW-1, MW-3, and MW-4 at concentrations of 150 µg/L, 2,600 µg/L, and 2,200 µg/L, respectively.

TPH-MO was detected in well MW-3 at a concentration of 290 µg/L.

BTEX were detected at concentratons ranging from 0.54 µg/L to 43 µg/L in wells MW-1, MW-3, and MW-4. MTBE was detected in wells MW-1, MW-2, and MW-3 at concentrations of 6.5 µg/L, 9.6 µg/L, and 42 µg/L, respectively.

Table 2 - Historical Ground Water Analytical Data is a tabular summary of the laboratory report for this quarter and previous quarters. Figures 4 through 7 graphically depict the estimated extents of TPH-G, TPH-D, TPH-MO, benzene, and MTBE in ground water for the site during this quarter.

CONCLUSIONS

Based on the results of the third quarter 1996 ground water monitoring activities, ESE concludes the following:

- Ground water flow direction (to the southwest at a gradient of 0.018 ft/ft) compares with previously obtained data for the site.
- Petroleum hydrocarbon-impacted ground water has migrated offsite to the south west (in the general direction of ground water flow) and appears to have affected the downgradient former Chevron site. Technical data presented in this report for the former Chevron site wells were obtained from Blaine.
- There is no evidence for a source of petroleum hydrocarbon contamination upgradient of the site.
- In-situ biodegradation may be occurring based upon the laboratory quantification and field observations.

CLOSURE

This report has been prepared by Environmental Science & Engineering, Inc. (ESE) for the exclusive use by Mr. Ondrej M. Kojnok, Attorney at Law, and Mr. George Tuma of Autopro, as it pertains to their site located at 5200 Telegraph Avenue in Oakland, California. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists and engineers practicing in this field. No other warranty, expressed or implied, is made as to professional advice in this report.

Sincerely,

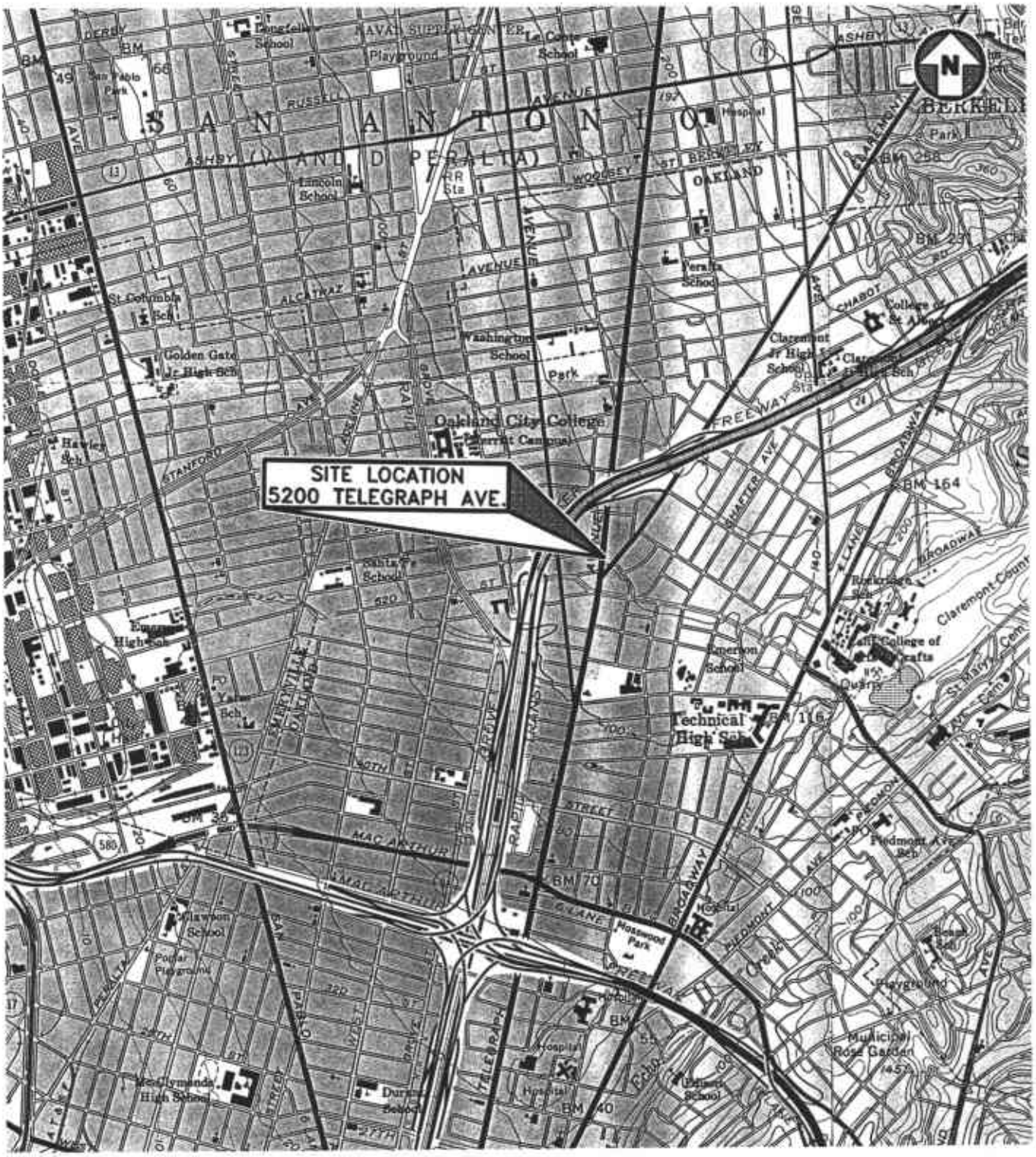
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Christopher H. Valcheff
Senior Staff Geologist
Project Manager

George O. Reid
Senior Geologist
California R.G. No. 3608

Attachments: Figure 1 - Location Map
Figure 2 - Site Map
Figure 3 - Ground Water Elevation Contour Map, September, 1996
Figure 4 - Estimated Extent of TPH-G in Ground Water, September 1996
Figure 5 - Estimated Extent of TPH-D in Ground Water, September 1996
Figure 6 - Estimated Extent of Benzene in Ground Water, September 1996
Figure 7 - Estimated Extent of MTBE in Ground Water, September 1996
Table 1 - Historical Ground Water Elevation Data
Table 2 - Historical Ground Water Analytical Data
Ground Water Sample Collection Logs
Laboratory Reports and Chain-of-Custody Documentation

cc w/attachments: Mr. George Tuma, Autopro
Ms. Susan Hugo, ACHCSA
Mr. Kevin Graves, RWQCB-SF Bay Region



SCALE 1:24,000

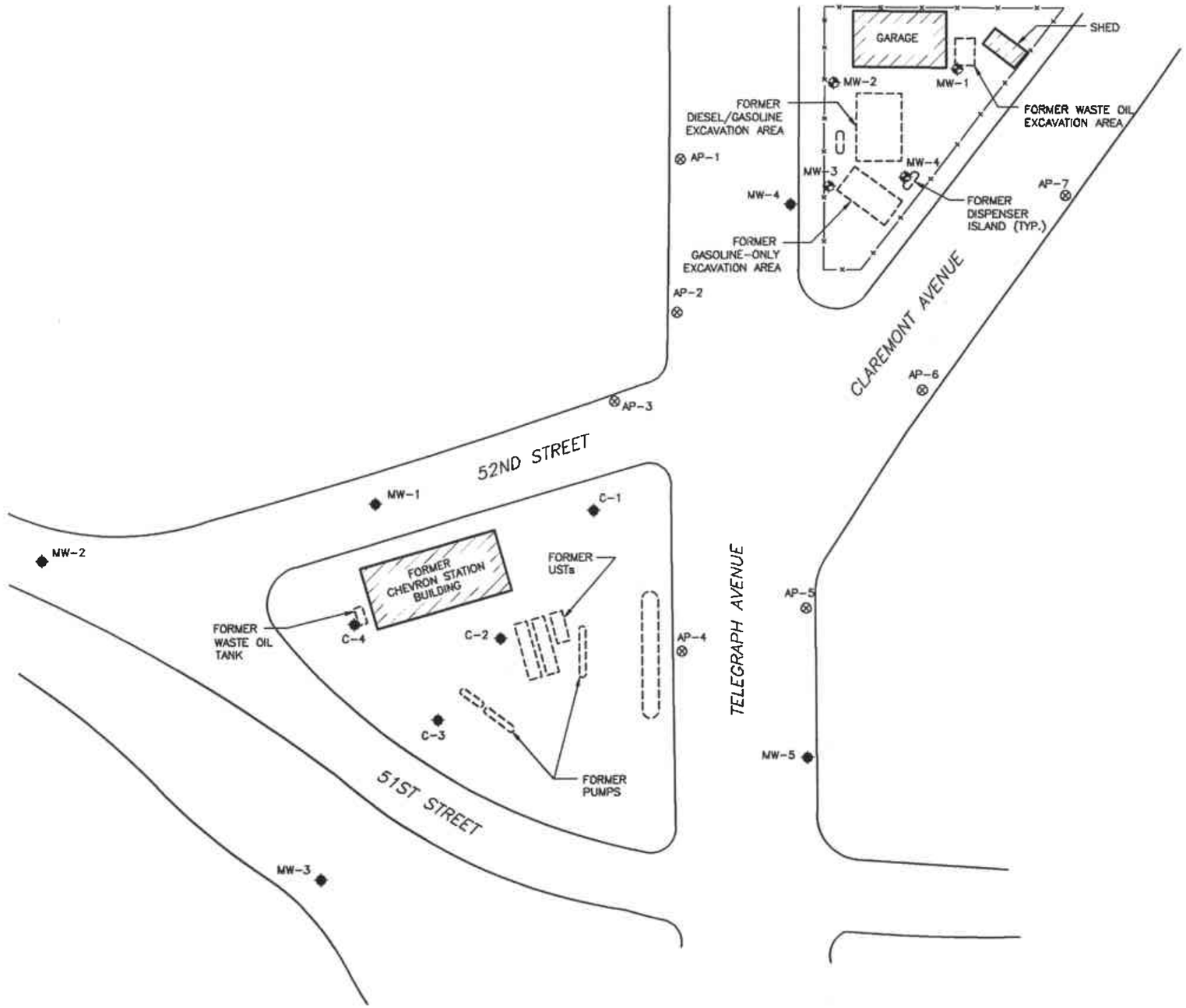
1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

ADAPTED FROM U.S.G.S. OAKLAND EAST AND OAKLAND WEST, CALIFORNIA, 7.5 MINUTE TOPO QUADRANGLE, 1959, PHOTOREVISED 1980

Environmental Science & Engineering, Inc.	DATE 10/14/96	LOCATION MAP	FIGURE NO. 1
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	REVISED CAD FILE 65521901	AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	PROJ. NO. 65-95-219



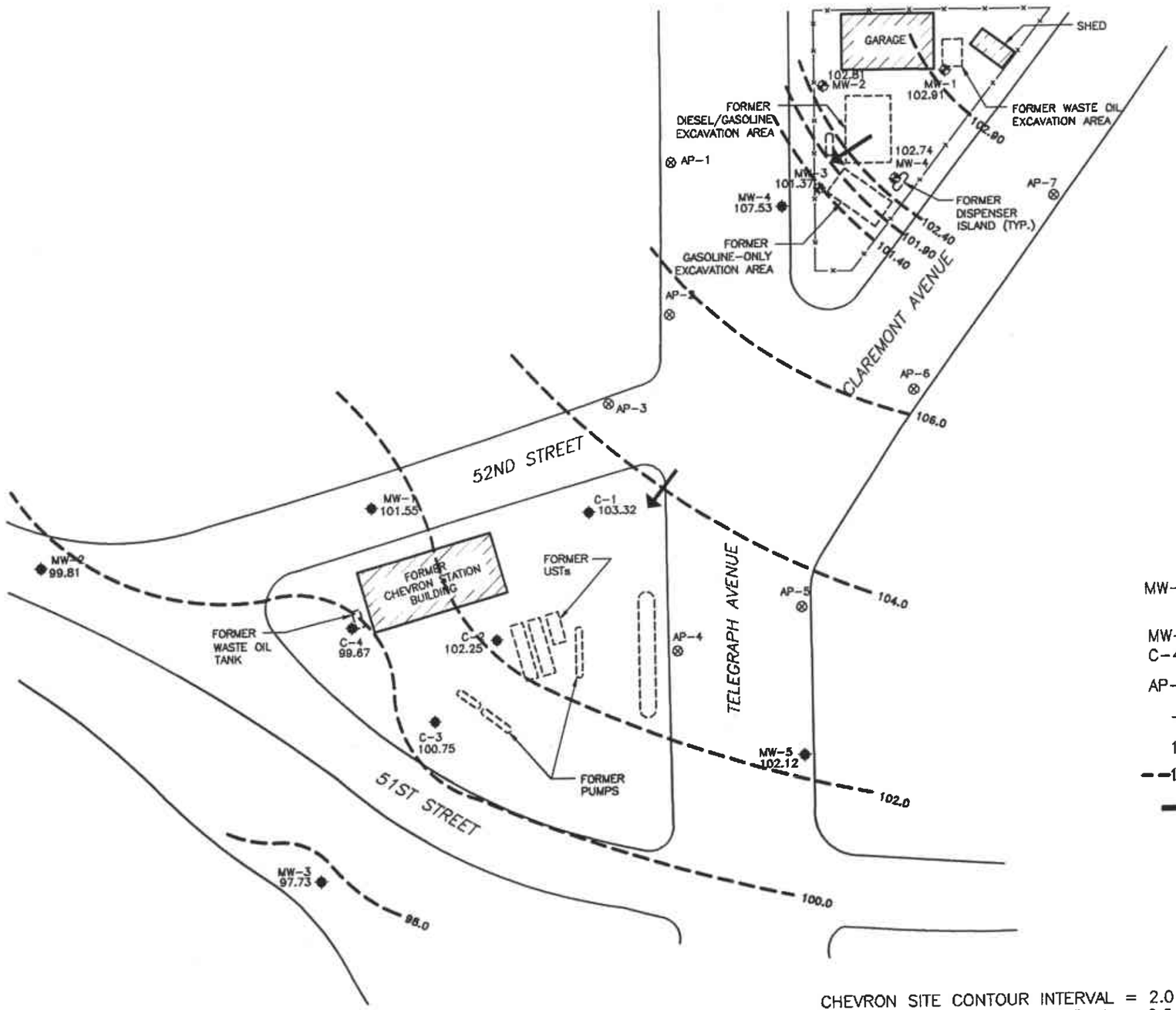
LEGEND

MW-3 ◆	GROUND WATER MONITORING WELLS INSTALLED BY ESE
MW-5 ◆ C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING
—x—	FENCE

APPROX. SCALE
0 60 FEET

CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

ESE Environmental Science & Engineering, Inc. 4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	DATE 2/12/96 REVISED 8/29/96 CAD FILE 65521902	SITE MAP AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	FIGURE NO. 2 PROJ. NO. 65-95-219



LEGEND

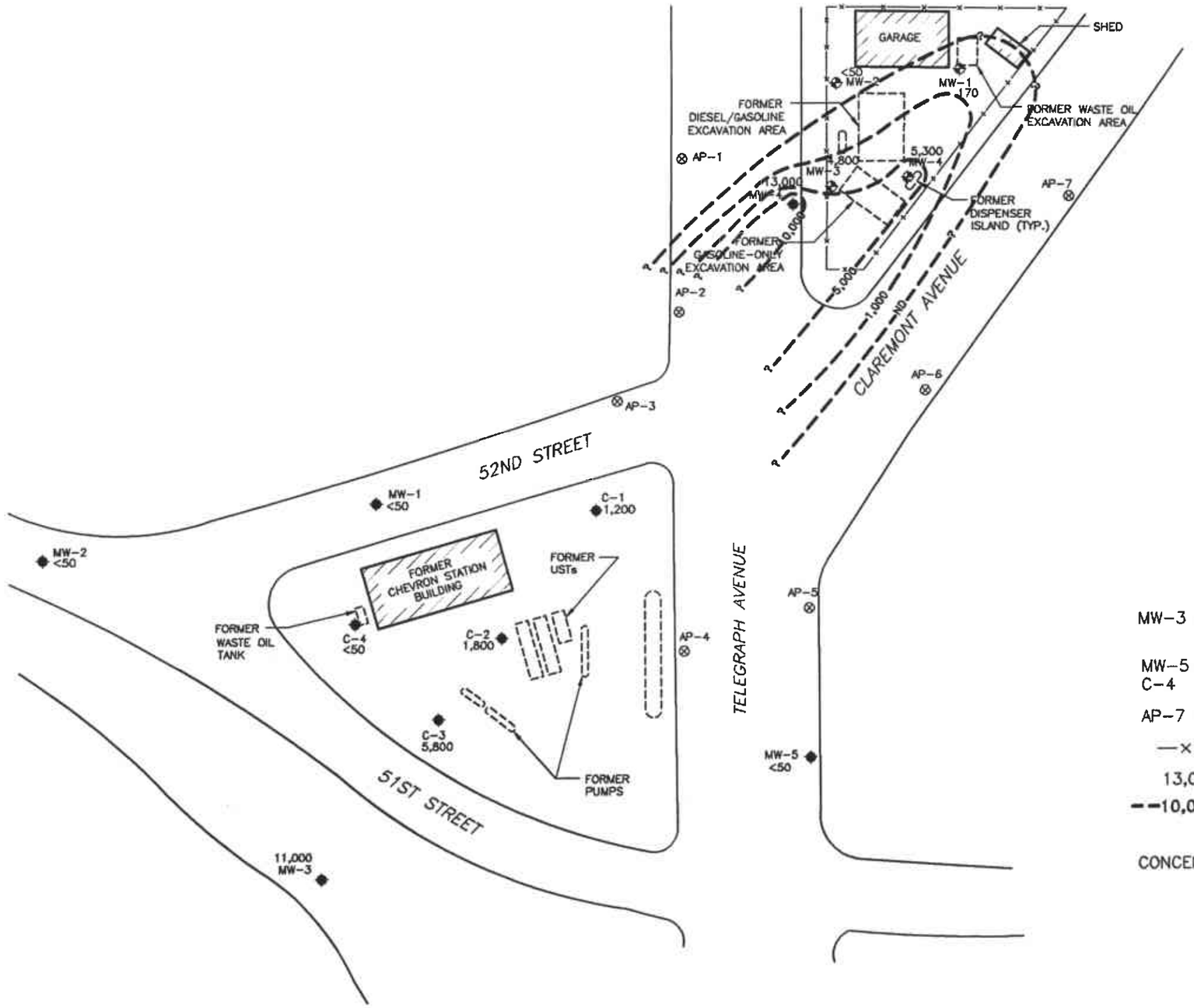
MW-3 ⊕	GROUND WATER MONITORING WELLS INSTALLED BY ESE
MW-5 ● C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING
—x—	FENCE
107.53	GROUND WATER ELEVATION
--106.0--	GROUND WATER ELEVATION CONTOUR
→	ESTIMATED GROUND WATER FLOW DIRECTION

CHEVRON SITE CONTOUR INTERVAL = 2.0 FEET
AUTOPRO SITE CONTOUR INTERVAL = 0.5 FEET

APPROX. SCALE
0 60 FEET

CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.
CHEVRON SITE GROUND WATER ELEVATIONS FROM BLAINE TECH SERVICES, INC.
GROUND WATER ELEVATIONS FOR AUTOPRO SITE ARE DERIVED FROM AN ASSUMED DATUM.

ESE Environmental Science & Engineering, Inc.	DATE 8/8/96	GROUND WATER ELEVATION CONTOUR MAP, SEPTEMBER 1996	FIGURE NO. 3
	REVISED 10/28/96	AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	CAD FILE 65521903		PROJ. NO. 65-95-219



LEGEND

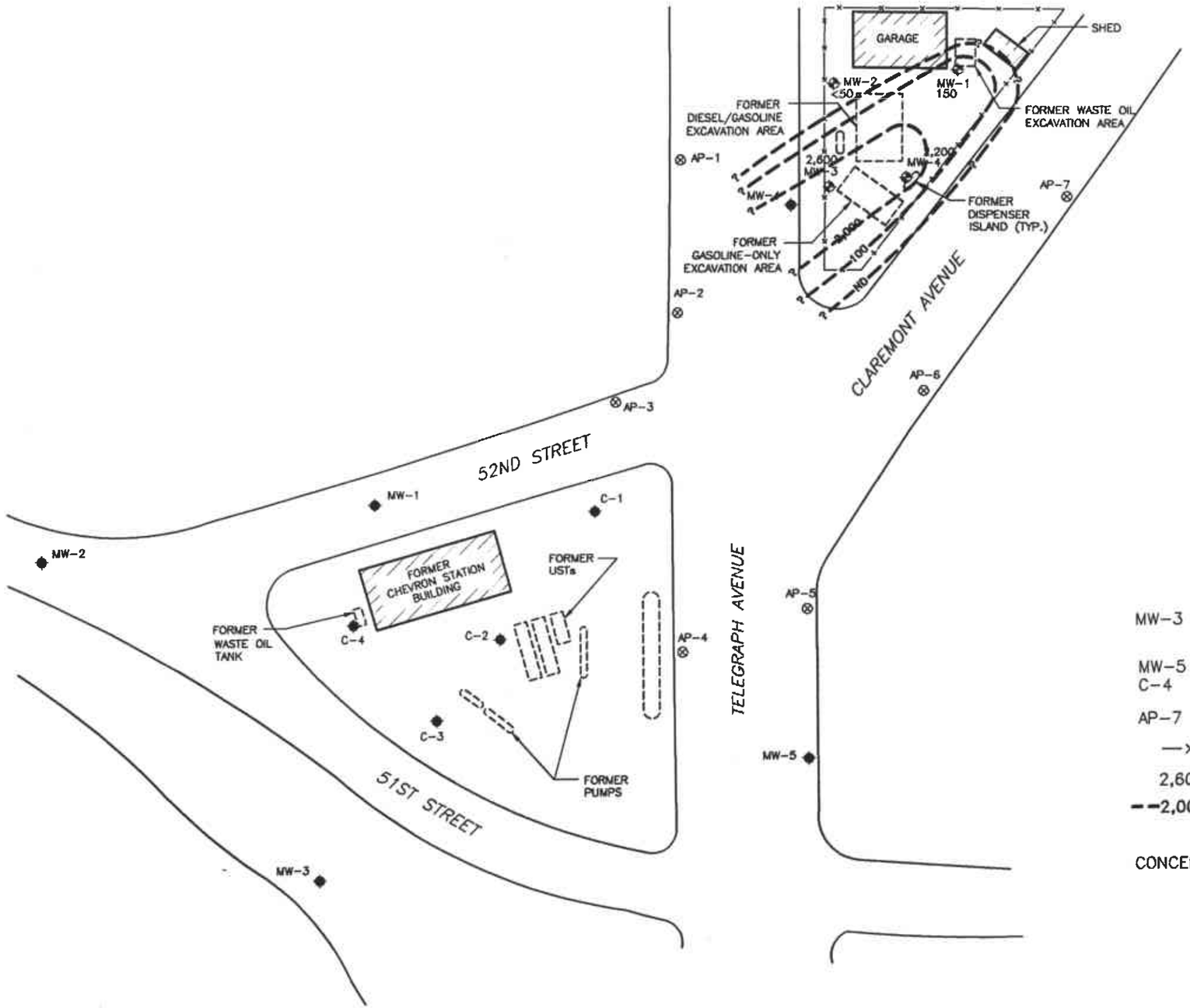
MW-3 ⊕	GROUND WATER MONITORING WELLS INSTALLED BY ESE
MW-5 ◆ C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING WITH GRAB GROUND WATER SAMPLE
—x—	FENCE
13,000	CONCENTRATION OF TPH-G IN GROUND WATER
--10,000--	CONCENTRATION ISOPLETH

CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L) or PARTS PER BILLION (ppb).

APPROX. SCALE
0 60 FEET

CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.
CHEVRON WELLS ANALYTICAL DATA FROM BLAINE TECH SERVICES, INC. DATED 9/12/96
AUTOPRO WELLS ANALYTICAL DATA DATED 9/24/96

ESE Environmental Science & Engineering, Inc.	DATE 8/8/96	ESTIMATED EXTENT OF TPH-G IN GROUND WATER, SEPTEMBER 1996	FIGURE NO. 4
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	REVISED 10/28/96	AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	PROJ. NO. 65-95-219
	CAD FILE 65521904		



LEGEND

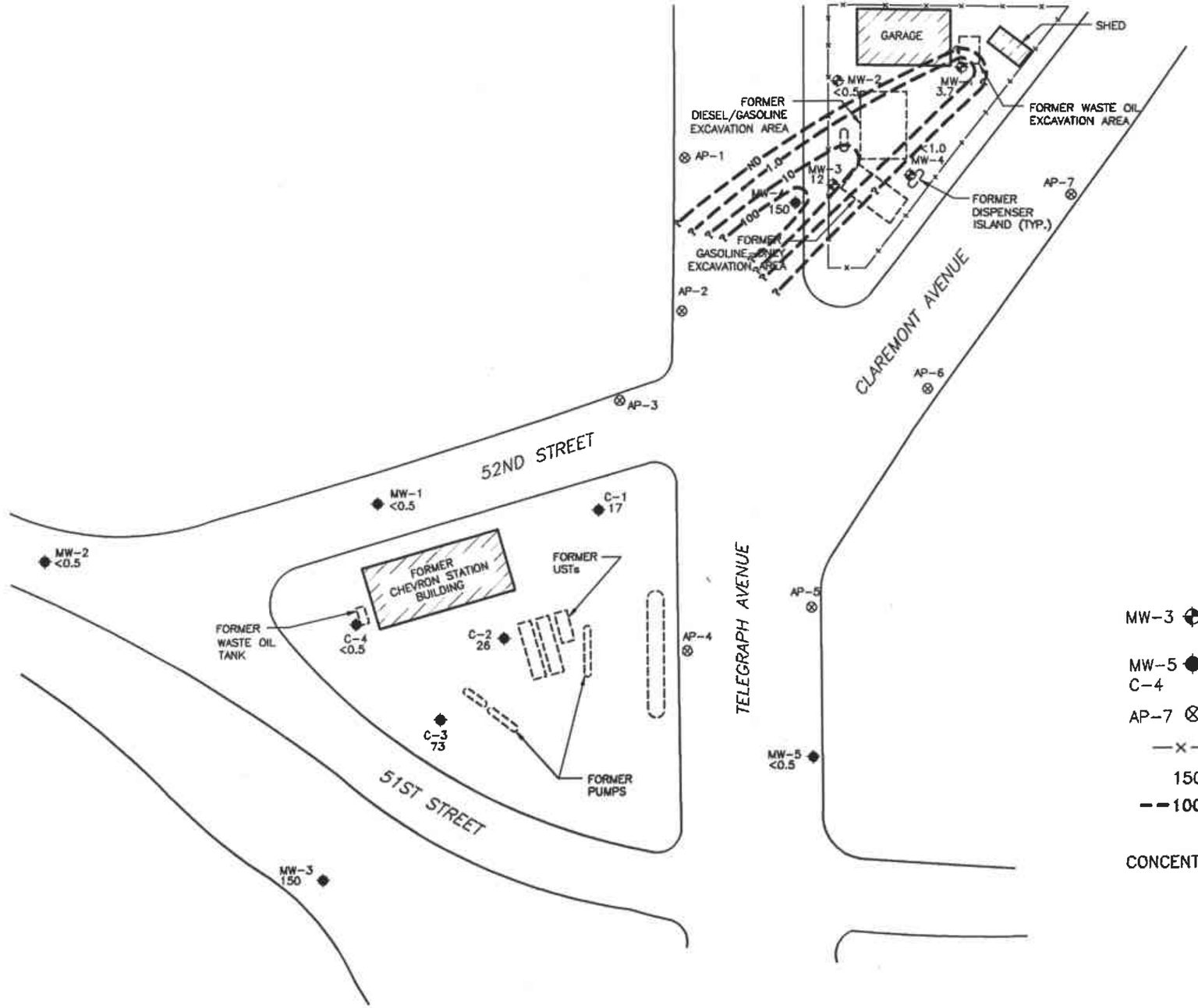
MW-3 ⊕	GROUND WATER MONITORING WELLS INSTALLED BY ESE
MW-5 ◆ C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING WITH GRAB GROUND WATER SAMPLE
—x—	FENCE
2,600	CONCENTRATION OF TPH-D IN GROUND WATER
--2,000--	CONCENTRATION ISOPLETH

CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L) or PARTS PER BILLION (ppb).

APPROX. SCALE
0 60 FEET

CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.
CHEVRON WELLS ANALYTICAL DATA FROM BLAINE TECH SERVICES, INC. DATED 9/12/96
AUTOPRO WELLS ANALYTICAL DATA DATED 9/24/96

ESE Environmental Science & Engineering, Inc.	DATE 8/8/96	ESTIMATED EXTENT OF TPH-D IN GROUND WATER, SEPTEMBER 1996	FIGURE NO. 5
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	REVISED 10/10/96	AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	PROJ. NO. 65-95-219
	CAD FILE 65521905		



LEGEND

MW-3 ⊕	GROUND WATER MONITORING WELLS INSTALLED BY ESE
MW-5 ◆ C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING WITH GRAB GROUND WATER SAMPLE
—x—	FENCE
150	CONCENTRATION OF BENZENE IN GROUND WATER
--100--	CONCENTRATION ISOPLETH

CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L) or PARTS PER BILLION (ppb).

APPROX. SCALE
0 60 FEET

CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.
CHEVRON WELLS ANALYTICAL DATA FROM BLAINE TECH SERVICES, INC. DATED 9/12/96
AUTOPRO WELLS ANALYTICAL DATA DATED 9/24/96

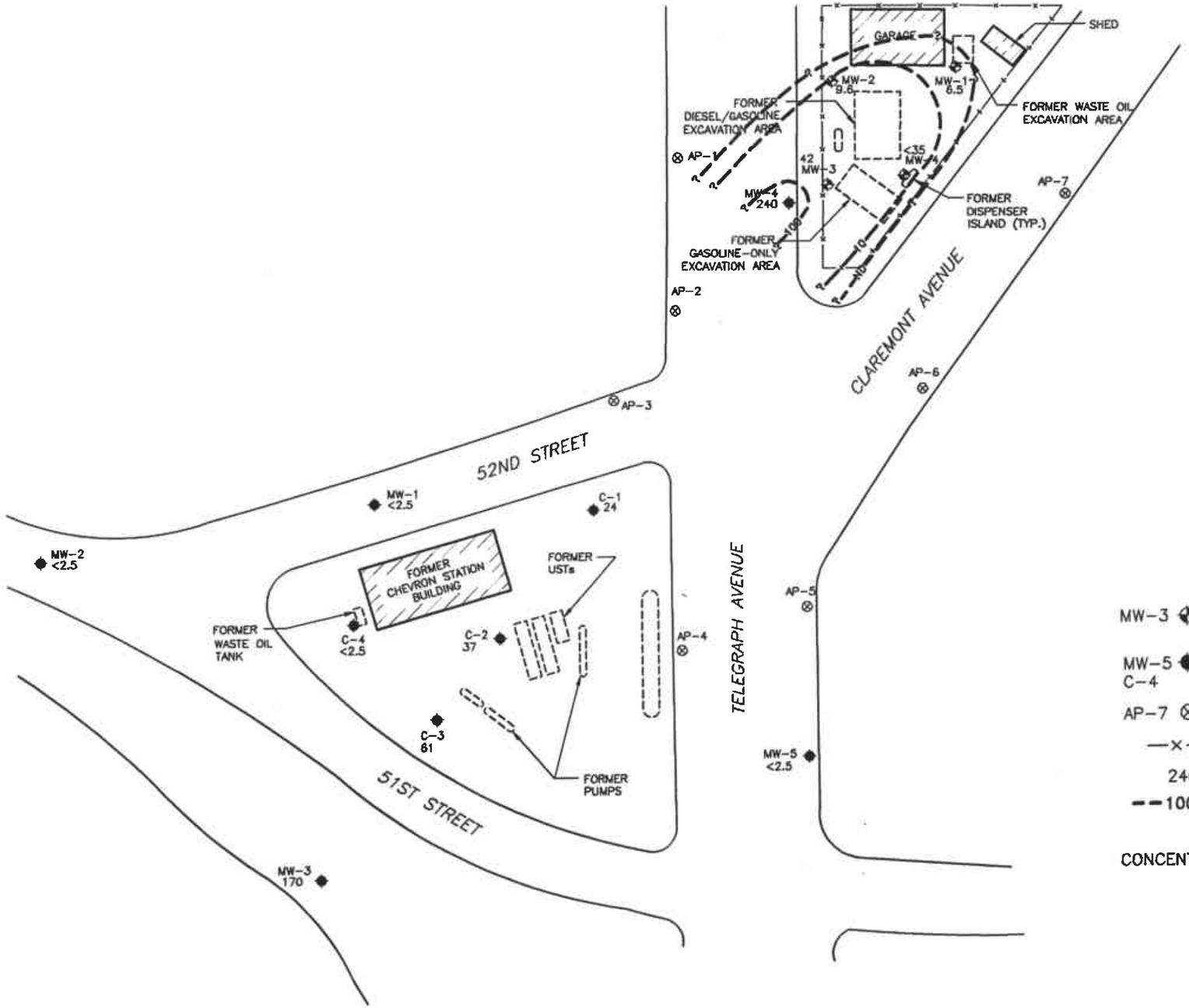
ESE Environmental Science & Engineering, Inc.
4090 NELSON AVENUE, SUITE J
CONCORD, CA 94520

DATE 8/8/96
REVISED 10/10/96
CAD FILE 65521906

ESTIMATED EXTENT OF BENZENE IN GROUND WATER, SEPTEMBER 1996

AUTOPRO
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

FIGURE NO. 6
PROJ. NO. 65-95-219



LEGEND

MW-3 ◆	GROUND WATER MONITORING WELLS INSTALLED BY ESE
MW-5 ● C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING WITH GRAB GROUND WATER SAMPLE
—x—	FENCE
240	CONCENTRATION OF MTBE IN GROUND WATER
--100--	CONCENTRATION ISOPLETH

CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L) or PARTS PER BILLION (ppb).

APPROX. SCALE
0 60 FEET

CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.
CHEVRON WELLS ANALYTICAL DATA FROM BLAINE TECH SERVICES, INC. DATED 9/12/96
AUTOPRO WELLS ANALYTICAL DATA DATED 9/24/96

ESE Environmental Science & Engineering, Inc.	DATE 8/8/96	ESTIMATED EXTENT OF MTBE IN GROUND WATER, SEPTEMBER 1996	FIGURE NO. 7
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	REVISED 10/10/96	AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	PROJ. NO. 65-95-219
	CAD FILE 65521907		

TABLE 1

HISTORICAL GROUND WATER ELEVATION DATA

Tri-Star Partnership
Autopro Facility
5200 Telegraph Avenue
Oakland, California

Well I.D.	Date	Datum	Depth to Water (feet)	Ground Water Elevation (ft AMSL)
MW-1	04/26/94	115.44	12.69	102.75
	07/20/94		12.39	103.05
	10/21/94		13.06	102.38
	01/18/95		10.14	105.30
	06/26/96		11.90	103.54
	09/24/96		12.53	102.91
MW-2	04/26/94	114.62	11.15	103.47
	07/20/94		11.44	103.18
	10/21/94		12.30	102.32
	01/18/95		9.21	105.41
	06/26/96		11.16	103.46
	09/24/96		11.81	102.81
MW-3	04/26/94	113.90	10.97	102.93
	07/20/94		11.21	102.69
	10/21/94		11.92	101.98
	01/18/95		8.90	105.00
	06/26/96		10.88	103.02
	09/24/96		12.53	101.37
MW-4	04/26/94	114.25	10.97	103.28
	07/20/94		11.16	103.09
	10/21/94		11.68	102.57
	01/18/95		9.02	105.23
	06/26/96		10.77	103.48
	09/24/96		11.51	102.74

Note:

ft AMSL = feet above mean sea level.

TABLE 2

HISTORICAL GROUND WATER ANALYTICAL DATA

Tri-Star Partnership
Autopro Facility
5200 Telegraph Avenue
Oakland, California

Well I.D.	Date Sampled	TPH-D (µg/L)	TPH-MO (µg/L)	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	VOCs (µg/L)	Metals (mg/L)				
											cadmium	chromium	lead	nickel	zinc
MW-1	04/26/94	<50	--	1,400	<0.50	<0.50	4.5	2.1	--	<0.50	0.001	<0.05	<0.005	0.120	<0.10
	07/20/94	100	--	1,200	19	2.5	2.4	1.6	--	--	<0.010	0.220	0.044	0.360	0.350
	10/21/94	130	--	560	8.4	1.1	0.90	1.8	--	--	<0.010	<0.010	<0.020	0.041	0.077
	01/18/95	240	--	620	8.5	2.1	1.3	2.3	--	--	<0.010	0.026	<0.020	0.024	0.067
	06/26/96	56[b,d]	<250	180[a]	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	09/24/96	150[d]	<250	170[c,b]	3.7	0.92	0.54	0.63	6.5	--	--	--	--	--	--
MW-2	04/26/94	<50	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<0.001	<0.05	<0.005	0.060	<0.10
	07/20/94	<50	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	<0.010	0.022	<0.020	0.045	0.068
	10/21/94	<50	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	<0.010	0.031	<0.020	0.027	0.044
	01/18/95	<50	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	<0.010	0.014	<0.020	0.023	0.045
	06/26/96	<50	<250	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	09/24/96	<50	<250	<50	<0.50	<0.50	<0.50	<0.50	9.6	--	--	--	--	--	--

TABLE 2

HISTORICAL GROUND WATER ANALYTICAL DATA

Tri-Star Partnership
Autopro Facility
5200 Telegraph Avenue
Oakland, California

Well I.D.	Date Sampled	TPH-D (µg/L)	TPH-MO (µg/L)	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	VOCs (µg/L)	Metals (mg/L)				
											cadmium	chromium	lead	nickel	zinc
MW-3	04/26/94	<3,000	--	10,000	70	40	40	50	--	<30	<0.001	<0.05	0.043	0.100	0.100
	07/20/94	1,400	--	7,500	120	38	36	39	--	--	<0.010	0.099	0.140	0.120	0.250
	10/21/94	1,200	--	6,300	69	37	29	38	--	--	<0.010	<0.010	<0.020	0.036	0.140
	01/18/95	1,600	--	8,000	84	16	48	49	--	--	<0.010	0.046	0.049	0.040	0.110
	06/26/96	2,800[d,f]	<250	6,600[a]	15	17	23	40	53	--	--	--	--	--	--
(Dup)	06/26/96	2,700[d,f]	<250	6,600[a]	14	16	21	37	49	--	--	--	--	--	--
	09/24/96	2,600[b,d]	290	4,800[b,d]	12	11	18	43	42	--	--	--	--	--	--
MW-4	04/26/94	<300	--	6,800	<3.0	<3.0	3.0	4.0	--	<3.0	<0.001	<0.05	0.007	0.060	<0.10
	07/20/94	1,500	--	5,600	35	11	12	17	--	--	<0.010	0.023	<0.020	0.048	0.060
	10/21/94	870	--	4,300	26	19	12	20	--	--	<0.010	0.013	<0.020	<0.020	0.092
	01/18/95	1,300	--	5,700	19	15	13	16	--	--	<0.010	0.020	<0.020	0.021	0.036
	06/26/96	2,500[d,f]	<250	4,700[b,d]	<0.25	4.8	11	19	30	--	--	--	--	--	--
	09/24/96	2,200[b]	<250	5,300[b,d]	<1.0	5.3	8.2	8.3	<35	--	--	--	--	--	--
(Dup)	09/24/96	2,200[b]	<250	5,500[b,d]	<1.0	6.6	9.4	8.4	<35	--	--	--	--	--	--
TRIP	06/26/96	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	09/24/96	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
MCL	--	--	--	--	1	150	700	1,750	35*	--	0.005	0.05	0**	0.1	5***

Notes:

TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
MTBE = methyl tertiary butyl ether.
VOCs = Volatile Organic Compounds.
µg/L = micrograms per liter or parts per billion (ppb).
mg/L = milligrams per liter or parts per million (ppm).
< = less than listed detection limits.
-- = not applicable.

[a] = unmodified or weakly modified is significant.
[b] = heavier gasoline range compounds are significant (aged gasoline?).
[c] = lighter gasoline range compounds (the most mobile fraction) are significant.
[d] = gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?
[f] = one to a few isolated peaks present.
MCL = primary Maximum Contaminant Limit as defined by the California Department of Health Services (DHS) Drinking Water Standards.
*** = DHS Action Level.**
**** = regulated by the Federal Lead and Copper Rule.**
***** = secondary MCL.**

GROUND WATER SAMPLE COLLECTION LOGS

Environmental Science & Engineering, Inc.
A CH2MHILL Company

SAMPLE COLLECTION LOG

PROJECT NAME: Tri State Partnership
PROJECT NO.: 65-95-219
DATE: SEPT. 24, 1996

SAMPLE LOCATION I.D.: MW-1
SAMPLER: Chris Valcheff
PROJECT MANAGER: Chris Valcheff

CASING DIAMETER

2" X
4"
Other

SAMPLE TYPE

Ground Water X
Surface Water
Treat. Influent
Treat. Effluent
Other

WELL VOLUMES PER UNIT

Well Casing I.D. (inches)	Gal/Ft.
2.0	0.1632
4.0	0.6528
6.0	1.4690

DEPTH TO PRODUCT: — (ft.)
DEPTH TO WATER: 12.53 (ft.)
DEPTH OF WELL: 28.92 (ft.)

PRODUCT THICKNESS: — (ft.)
WATER COLUMN: 16.39 (ft.)
WELL CASING VOLUME: 2.67 (gal)

MINIMUM PURGE VOLUME (3 or 4 WCV): 8.02 (gal)
ACTUAL VOLUME PURGED: 8.5 (gal)

TIME	Volume (GAL)	pH (Units)	E.C. (Micromhos)	Temperature (F°)	Turbid. (NTU)	Other
0910	0	7.38	0.68	66.1	—	CLEAR
0912	4	7.51	0.71	66.3	—	"
0914	8	7.50	0.72	66.5	—	"

INSTRUMENT CALIBRATION

pH/COND./TEMP.: TYPE Hydac UNIT# 9308 DATE: 9-24-96 TIME: 0800 BY: CHV
TURBIDITY: TYPE _____ UNIT# _____ DATE: _____ TIME: _____ BY: _____

PURGE METHOD

___Displacement Pump
___Bailer (Teflon/PVC/SS)
X Other
___Submersible Pump

SAMPLE METHOD

___Bailer (Teflon/PVC/SS)
X Bailer (Disposable)
___Dedicated
___Other

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW-1	0915	9-24-96	McCampbell	
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS: _____

SAMPLER: Chris Valcheff
PROJECT MANAGER Chris Valcheff

4090 Nelson Avenue, Suite J Concord, CA 94520 Phone (510) 685-4053 Fax (510) 685-5323

Environmental Science & Engineering, Inc.
A CILCORP Company

SAMPLE COLLECTION LOG

PROJECT NAME: TRI STAR PARTNERSHIP
PROJECT NO.: 65-95-219
DATE: SEPT. 24, 1996

SAMPLE LOCATION I.D.: MW-2
SAMPLER: CHRIS VALCHEFF
PROJECT MANAGER: CHRIS VALCHEFF

CASING DIAMETER

2" X
4" ____
Other ____

SAMPLE TYPE

Ground Water X
Surface Water ____
Treat. Influent ____
Treat. Effluent ____
Other ____

WELL VOLUMES PER UNIT

Well Casing I.D. (inches)	Gal/Ft.
2.0	0.1632
4.0	0.6528
6.0	1.4690

DEPTH TO PRODUCT: — (ft.)
DEPTH TO WATER: 11.81 (ft.)
DEPTH OF WELL: 24.36 (ft.)
PRODUCT THICKNESS: — (ft.)
WATER COLUMN: 12.55 (ft.)
WELL CASING VOLUME: 2.05 (gal)
MINIMUM PURGE VOLUME (3) or 4 WCV): 6.15 (gal)
ACTUAL VOLUME PURGED: 6.25 (gal)

TIME	Volume (GAL)	pH (Units)	E.C. (x1000 Micromhos)	Temperature (F°)	Turbid. (NTU)	Other
0920	0	7.38	0.83	65.3	—	Begin Purge
0922	3	7.35	0.85	65.9	—	
0924	6	7.37	0.81	66.1	—	

INSTRUMENT CALIBRATION

pH/COND./TEMP.: TYPE HYDAC UNIT# 9308 DATE: 9-24-96 TIME: 0800 BY: CHV
TURBIDITY: TYPE ____ UNIT# ____ DATE: ____ TIME: ____ BY: ____

PURGE METHOD

___Displacement Pump
___Bailer (Teflon/PVC/SS)
X Other
___Submersible Pump

SAMPLE METHOD

___Bailer (Teflon/PVC/SS)
X Bailer (Disposable)
___Dedicated
___Other

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW-2	0925	9-24-96	H. CAMPBELL	
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS: ____

SAMPLER: Chris H. Valcheff
PROJECT MANAGER: Chris H. Valcheff

4090 Nelson Avenue, Suite J Concord, CA 94520 Phone (510) 685-4053 Fax (510) 685-5323

Environmental Science & Engineering, Inc.
A CILCORP Company

SAMPLE COLLECTION LOG

PROJECT NAME: Tri State Partnership
PROJECT NO.: 65-95-219
DATE: SEPT. 24, 1996

SAMPLE LOCATION I.D.: MW-3
SAMPLER: Chris Valcheff
PROJECT MANAGER: Chris Valcheff

CASING DIAMETER

2" X
4" ____
Other ____

SAMPLE TYPE

Ground Water X
Surface Water ____
Treat. Influent ____
Treat. Effluent ____
Other ____

WELL VOLUMES PER UNIT

Well Casing I.D. (inches)	Gal/Ft.
2.0	0.1632
4.0	0.6528
6.0	1.4690

DEPTH TO PRODUCT: ____ (ft.)
DEPTH TO WATER: 12.53 (ft.)
DEPTH OF WELL: 24.08 (ft.)

PRODUCT THICKNESS: ____ (ft.)
WATER COLUMN: 11.55 (ft.)
WELL CASING VOLUME: 1.88 (gal)

MINIMUM PURGE VOLUME (3 or 4 WCV): 5.65 (gal)
ACTUAL VOLUME PURGED: 6 (gal)

TIME	Volume (GAL)	pH (Units)	E.C. (Micromhos)	Temperature (F°)	Turbid. (NTU)	Other
0935	0	7.81	0.97	66.3	-	Black/Ivory/Brown H.C. odor
0937	3	7.93	1.01	66.7	-	
0939	6	7.95	101	66.8	-	

INSTRUMENT CALIBRATION

pH/COND./TEMP.: TYPE HYDAC UNIT# 9308 DATE: 9-24-96 TIME: 0900 BY: CHV
TURBIDITY: TYPE ____ UNIT# ____ DATE: ____ TIME: ____ BY: ____

PURGE METHOD

___ Displacement Pump
___ Bailer (Teflon/PVC/SS)
X Other
___ Submersible Pump

SAMPLE METHOD

___ Bailer (Teflon/PVC/SS)
X Bailer (Disposable)
___ Dedicated
___ Other

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW-3	0940	9-24-96	McCampbell	
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS: ____

SAMPLER: Chris Valcheff
PROJECT MANAGER: Chris Valcheff

4090 Nelson Avenue, Suite J Concord, CA 94520 Phone (510) 685-4053 Fax (510) 685-5323

Environmental Science & Engineering, Inc.
A CILCORP Company

SAMPLE COLLECTION LOG

PROJECT NAME: Tri State Partnership
PROJECT NO.: 65-95-29
DATE: Sept. 24, 1996

SAMPLE LOCATION I.D.: MW-4
SAMPLER: Chris Valcheff
PROJECT MANAGER: Chris Valcheff

CASING DIAMETER

2" X
4"
Other

SAMPLE TYPE

Ground Water X
Surface Water
Treat. Influent
Treat. Effluent
Other

WELL VOLUMES PER UNIT

Well Casing I.D. (inches)	Gal/Ft.
2.0	0.1632
4.0	0.6528
6.0	1.4690

DEPTH TO PRODUCT: — (ft.)
DEPTH TO WATER: 11.51 (ft.)
DEPTH OF WELL: 24.05 (ft.)

PRODUCT THICKNESS: — (ft.)
WATER COLUMN: 12.54 (ft.)
WELL CASING VOLUME: 2.05 (gal)

MINIMUM PURGE VOLUME (3 or 4 WCV): 6.14 (gal)
ACTUAL VOLUME PURGED: 6.25 (gal)

TIME	Volume (GAL)	pH (Units)	E.C. x1000 (Micromhos)	Temperature (F°)	Turbid. (NTU)	Other
0950	0	7.91	0.71	65.3	—	Blackish/slight odor
0952	3	7.93	0.69	65.7	—	
0954	6	7.95	0.67	65.8	—	

INSTRUMENT CALIBRATION

pH/COND./TEMP.: TYPE Hydac UNIT# 9308 DATE: 9-24-96 TIME: 0800 BY: CW
TURBIDITY: TYPE — UNIT# — DATE: — TIME: — BY: —

PURGE METHOD

___Displacement Pump ✓ Other
___Bailer (Teflon/PVC/SS) ___Submersible Pump

SAMPLE METHOD

___Bailer (Teflon/PVC/SS) ___Dedicated
X Bailer (Disposable) ___Other

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW-4	0955	9-24-96	McCampbell	
DUPLICATE	DUP	0955	9-24-96	McCampbell	
SPLIT					
FIELD BLANK					

COMMENTS:

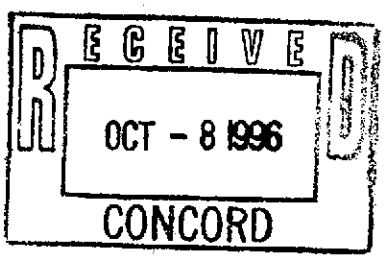
SAMPLER: [signature] PROJECT MANAGER [signature]

4090 Nelson Avenue, Suite J Concord, CA 94520 Phone (510) 685-4053 Fax (510) 685-5323

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622



10/02/96

Dear Chris:

Enclosed are:

1). the results of 6 samples from your **# 65-95-219; TriStar Partnership** project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Environmental Science & Eng., Inc. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 65-95-219; TriStar Partnership	Date Sampled: 09/24/96
		Date Received: 09/24/96
	Client Contact: Chris Valcheff	Date Extracted: 09/24-10/02/96
	Client P.O: # SMSA-C-021	Date Analyzed: 09/24-10/02/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
69386	MW-1	W	170,c,b	6.5	3.7	0.92	0.54	0.63	---#
69387	MW-2	W	ND	9.6	ND	ND	ND	ND	103
69388	MW-3	W	4800,b,d	42	12	11	18	43	104
69389	MW-4	W	5300,b,d	ND< 35	ND< 1	5.3	8.2	8.3	103
69390	Dup	W	5500,b,d	ND< 35	ND< 1	6.6	9.4	8.4	100
69391	Trip Blank	W	ND	ND	ND	ND	ND	ND	102
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Environmental Science & Eng., Inc. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 65-95-219; TriStar Partnership	Date Sampled: 09/24/96
		Date Received: 09/24/96
	Client Contact: Chris Valcheff	Date Extracted: 09/24/96
	Client P.O: # SMSA-C-021	Date Analyzed: 09/25-09/27/96

Diesel Range (C10-C23) and Oil-Range (C18+) Extractable Hydrocarbons as Diesel and Motor Oil*

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	TPH(mo)+	% Recovery Surrogate
69386	MW-1	W	150,d	ND	100
69387	MW-2	W	ND	ND	102
69388	MW-3	W	2600,d,b	290	102
69389	MW-4	W	2200,b	ND	100
69390	Dup	W	2200,b	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	250 ug/L	
		S	1.0 mg/kg	5.0 mg/kg	

* water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/24/96-09/25/96 Matrix: Water

Analyte	Concentration (ug/L) Sample (#69240)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	89.1	98.5	100.0	89.1	98.5	10.0
Benzene	0.0	10.1	10.2	10.0	101.0	102.0	1.0
Toluene	0.0	10.2	10.1	10.0	102.0	101.0	1.0
Ethyl Benzene	0.0	10.2	10.4	10.0	102.0	104.0	1.9
Xylenes	0.0	31.6	31.4	30.0	105.3	104.7	0.6
TPH (diesel)	0	159	155	150	106	103	2.4
TRPH (oil & grease)	0	22300	21600	23700	94	91	3.2

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/26/96-09/27/96 Matrix: Water

Analyte	Concentration (ug/L) Sample (#69240)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	91.0	91.9	100.0	91.0	91.9	1.0
Benzene	0.0	9.8	9.5	10.0	98.0	95.0	3.1
Toluene	0.0	9.8	9.6	10.0	98.0	96.0	2.1
Ethyl Benzene	0.0	9.9	9.7	10.0	99.0	97.0	2.0
Xylenes	0.0	29.4	28.7	30.0	98.0	95.7	2.4
TPH (diesel)	0	167	165	150	111	110	1.2
TRPH (oil & grease)	0	23600	23000	23700	100	97	2.6

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/02/96 Matrix: Water

Analyte	Concentration (ug/L) Sample (#69571)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	101.1	93.1	100.0	101.1	93.1	8.2
Benzene	0.0	9.8	9.3	10.0	98.0	93.0	5.2
Toluene	0.0	9.8	9.1	10.0	98.0	91.0	7.4
Ethyl Benzene	0.0	9.6	9.2	10.0	96.0	92.0	4.3
Xylenes	0.0	28.2	26.9	30.0	94.0	89.7	4.7
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

7258AESE361

DATE Sept. 24, 1996 PAGE 1 OF 1

CHAIN OF CUSTODY RECORD

PROJECT NAME Tristar Partnership

ADDRESS 5200 Telegraph Ave. Oakland, California

PROJECT NO. 65-95-219

SAMPLED BY Chris Valcheff

LAB NAME McCampbell

ESE Environmental Science & Engineering, Inc.
A CRCORP Company
4090 Nelson Avenue
Suite J
Concord, CA 94520
Phone (510) 685-4053
Fax (510) 685-5323

SAMPLE #	DATE	TIME	LOCATION	ANALYSES TO BE PERFORMED: TPH-G/BTEX/MTBE (EPA 8015/8020)	ANALYSES TO BE PERFORMED: TPH-D/WHHO (EPA 8015)	MATRIX	NUMBER OF CONTAINERS	REMARKS (CONTAINER, SIZE, ETC.)	
MW-1	9-24-96	0915	OAKLAND	X	X	H_2O	4	3 VOAs w/HCl; Ambers	69386
MW-2		0925		X	X		4		69387
MW-3		0940		X	X		4		69388
MW-4		0955		X	X		4		69389
DUP		0955		X	X		4		69390
TRIP				X			1	1 VOA w/HCl	69391

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	date	time
1.			
2.			
3.			
4.			
5.			

ICE/T° ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ PRESERVATIVE ✓ APPROPRIATE ✓ CONTAINERS ✓

21 TOTAL NUMBER OF CONTAINERS

REPORT RESULTS TO: Chris Valcheff

SPECIAL SHIPMENT REQUIREMENTS: Cold Storage/Transport

SAMPLE RECEIPT

CHAIN OF CUSTODY SEALS	
REC'D GOOD CONDTN/COLD	AC
CONFORMS TO RECORD	AR

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.):

Standard turn around time