March 12, 1998

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

SUBJECT: FOURTH QUARTER 1997 GROUND WATER MONITORING REPORT
AUTOPRO FACILITY
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
QST PROJECT NO. 65-95-219

Dear Mr. Kojnok:

QST Environmental Inc. (QST) is pleased to present the results of fourth quarter 1997 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 December 12, 1997 by Blaine Tech Services, Inc. (Blaine). The following report describes the activities completed and the results.

FIELD ACTIVITIES

On December 12, 1996, QST personnel performed ground water monitoring activities 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 labeled 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 labeled 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 from the most current sampling event, ranged from 8.81 feet to 10.28 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, December 1997. Ground water was found to flow generally towards the south at an approximate gradient of 0.012 foot per foot.

- TPH-G was detected in wells MW-1, MW-3, and MW-4 at concentrations of 360 μg/L, 7,400 μg/L, and 3,100 μg/L, respectively.
- TPH-D was detected in wells MW-1, MW-2, MW-3, and MW-4 at concentrations of 280 μg/L, 58 μg/L, 3,300 μg/L and 2,700 μg/L, respectively.
- Benzene was detected in well MW-3 at a concentration of 32 μg/L.
- Toluene was detected in wells MW-1, MW-3, and MW-4 at concentrations of 0.80 μg/L, 37 μg/L, and 3.3 μg/L, respectively.
- Ethybenzene was detected in wells MW-1, MW-3, and MW-4 at concentrations of 0.82 μg/L, 46 μg/L, and 7.6 μg/L, respectively.
- Total Xylenes was detected in wells MW-1, MW-3, and MW-4 at concentrations of 0.90 μg/L, 90 μg/L, and 8.9 μg/L, respectively.
- MTBE was not detected above reporting limit at all the wells. TPH-MO was not detected above reporting limit at all the wells.

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 extent 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 fourth quarter 1997 ground water monitoring activities, QST concludes the following:

- Ground water flow direction generally (to the south at a gradient of 0.012 ft/ft) compares with previously obtained data for the site.

CLOSURE

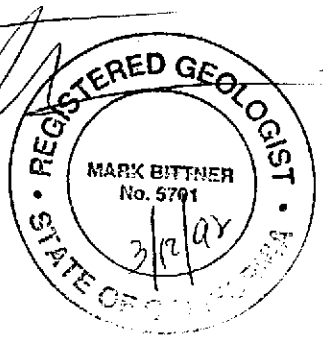
This report has been prepared by QST for the exclusive use by Mr. Ondrej M. Kojnok, Attorney at Law, and Mr. George Tuma of Autopro, as it pertains to their site located at 5200 Telegraph Avenue in Oakland, California. Our professional services have been performed using that degree of care and skill 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,
QST ENVIRONMENTAL INC.

Micah S. Rapoport
Senior Staff Scientist

Thomas D. Dalzell
Project Manager

Mark F. Bittner, R.G.
Senior Geologist
California R.G. No. 5701



Attachments: Table 1 - Historical Ground Water Elevation Data
Table 2 - Historical Ground Water Analytical Data
Figure 1 - Location Map
Figure 2 - Site Map
Figure 3 - Ground Water Elevation Contour Map, December 1997
Figure 4 - Estimated Extent of TPH-G in Ground Water, December 1997
Figure 5 - Estimated Extent of TPH-D in Ground Water, December 1996
Figure 6 - Estimated Extent of Benzene in Ground Water, December 1997
Figure 7 - Estimated Extent of MTBE in Ground Water, December 1997
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

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
	12/11/96		9.95	105.49
	12/12/97		10.28	105.16
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
	12/11/96		9.17	105.45
	12/12/97		9.39	105.23
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
	12/11/96		8.17	105.73
	12/12/97		8.81	105.09
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
	12/11/96		8.85	105.40
	12/12/97		8.95	105.30

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	--	--	--	--	--	--
	12/11/96	300[d]	<250	520[j]	<0.50	0.8	0.59	0.81	<5.0	--	--	--	--	--	--
	12/12/97	280	,250	360	<0.50	0.8	0.82	0.9	<5.0	--	--	--	--	--	--
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	--	--	--	--	--	--
	12/11/96	<50	<250	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	12/12/97	58	<250	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
(DUP)	12/12/97	<50	<250	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--

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	--	--	--	--	--	--
	12/11/96	2,900[d]	<250	6,700[j]	20	19	32	44	70	--	--	--	--	--	--
	12/12/97	3,300	<250	7,400	32	37	46	90	<160	--	--	--	--	--	--
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	--	--	--	--	--	--
	12/11/96	2,400[d]	<250	4,000[j]	<0.25	4	7.6	9.2	22	--	--	--	--	--	--
(Dup)	12/11/96	2,800[d]	<250	7,000[j]	18	20	34	49	73	--	--	--	--	--	--
	12/12/97	2,700	<250	3,100	<0.5	3.3	7.6	8.9	<41	--	--	--	--	--	--
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	--	--	--	--	--	--
	12/11/96	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	12/12/97	--	--	<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***

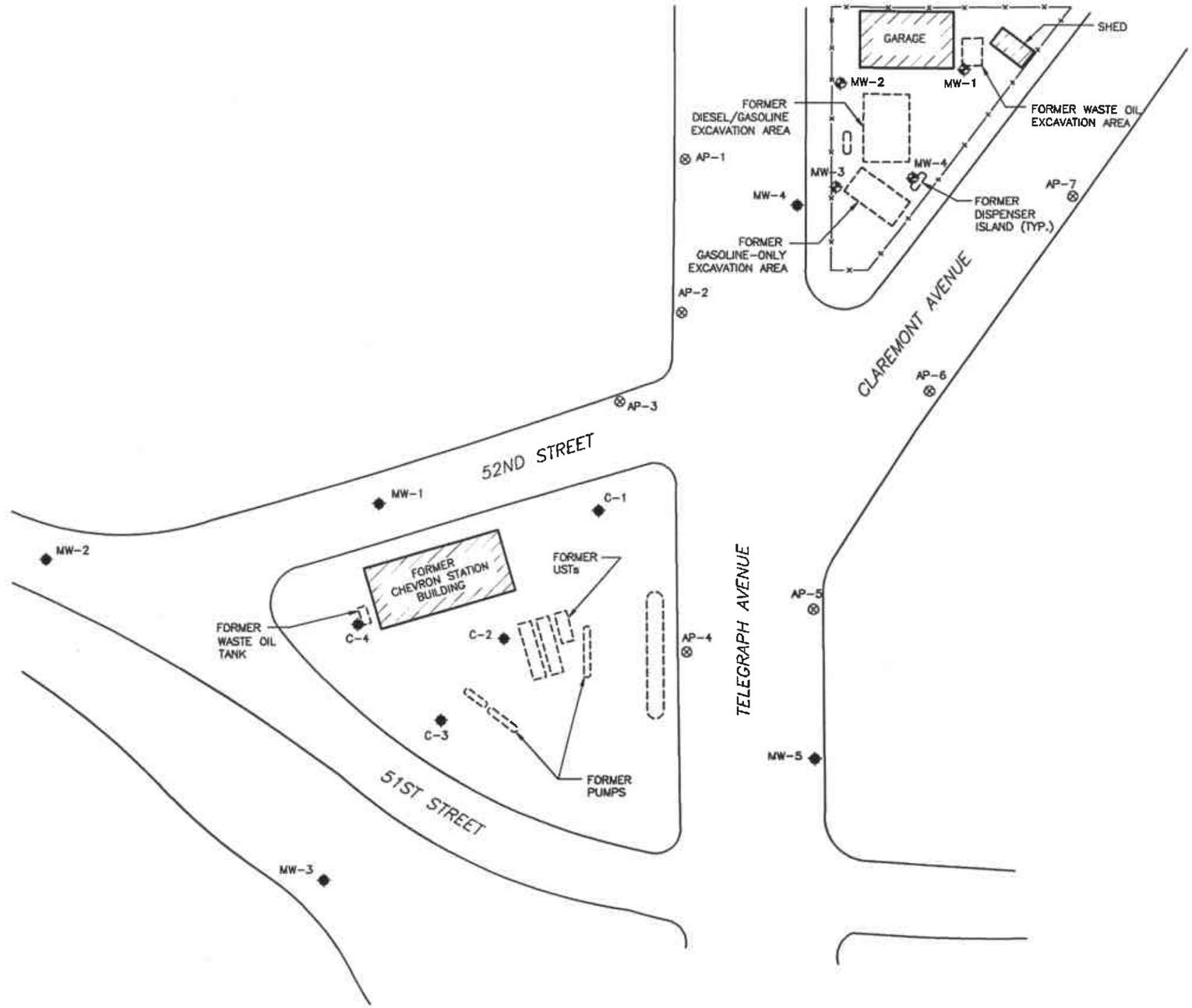
Notes:

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.
[j] = no recognizable pattern.
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.**

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

QST ENVIRONMENTAL	DATE 10/14/96	SITE LOCATION MAP	FIGURE NO. 1
	REVISED		
1340 ARNOLD DRIVE SUITE 126 MARTINEZ, CA 94553	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.

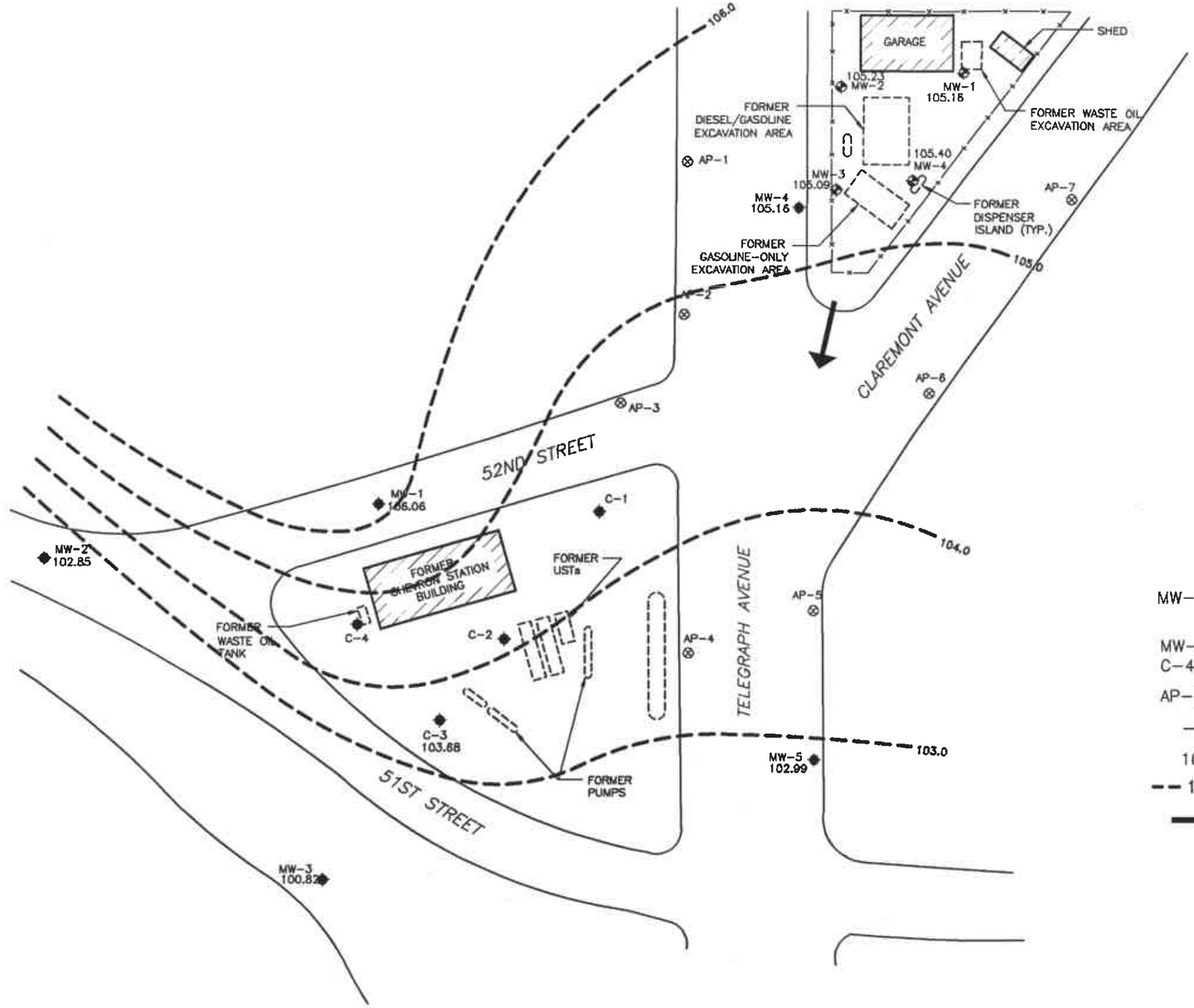
QST ENVIRONMENTAL
1340 ARNOLD DRIVE SUITE 126
MARTINEZ, CA. 94553

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



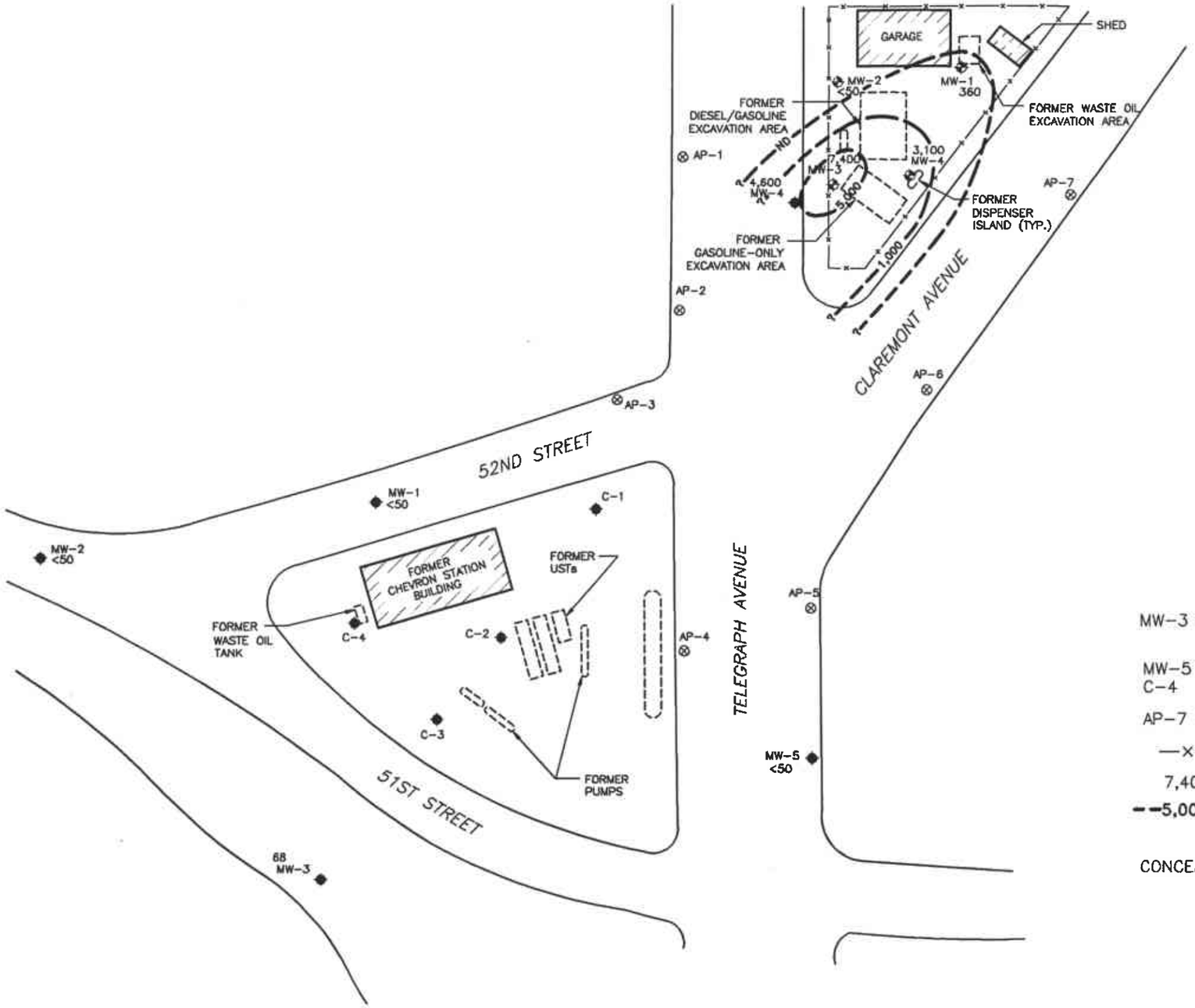
LEGEND

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
109.93	GROUND WATER ELEVATION
100.00	GROUND WATER ELEVATION CONTOUR
→	ESTIMATED GROUND WATER FLOW DIRECTION

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.

QST Environmental 1340 ARNOLD #126 MARTINEZ, CA 94553	DATE 8/8/96 REVISED 01/20/98 phx CAD FILE 65521903	GROUND WATER ELEVATION CONTOUR MAP, DECEMBER 1997 AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	FIGURE NO. 3 PROJ. NO. 65-95-219



LEGEND

MW-3 ⊕	GROUND WATER MONITORING WELLS INSTALLED BY ESE/QST
MW-5 ◆ C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING WITH GRAB GROUND WATER SAMPLE
—x—	FENCE
7,400	CONCENTRATION OF TPH-G IN GROUND WATER
--5,000--	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 12/11/96
AUTOPRO WELLS ANALYTICAL DATA DATED 12/11/96

QST Environmental
1340 ARNOLD #126
MARTINEZ, CA 94553

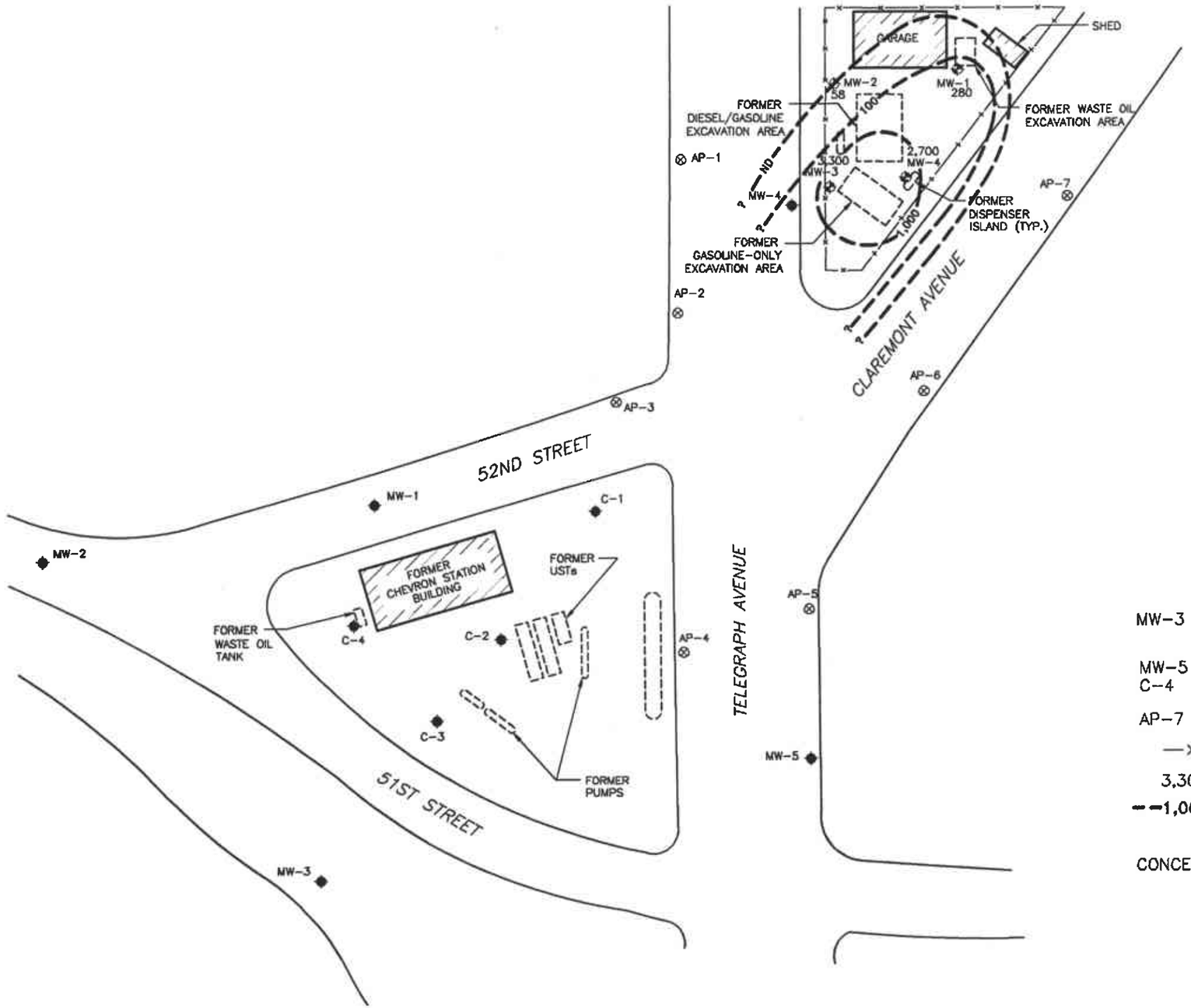
DATE 8/8/96
REVISED 01/20/97 phx
CAD FILE 65521904

ESTIMATED EXTENT OF TPH-G IN GROUND WATER, DECEMBER 1997

AUTOPRO
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

FIGURE NO. 4

PROJ. NO. 65-95-219



LEGEND

MW-3 ⊕	GROUND WATER MONITORING WELLS INSTALLED BY ESE/QST
MW-5 ● C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING WITH GRAB GROUND WATER SAMPLE
—x—	FENCE
3,300	CONCENTRATION OF TPH-D IN GROUND WATER
--1,000--	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 12/11/96
AUTOPRO WELLS ANALYTICAL DATA DATED 12/11/96

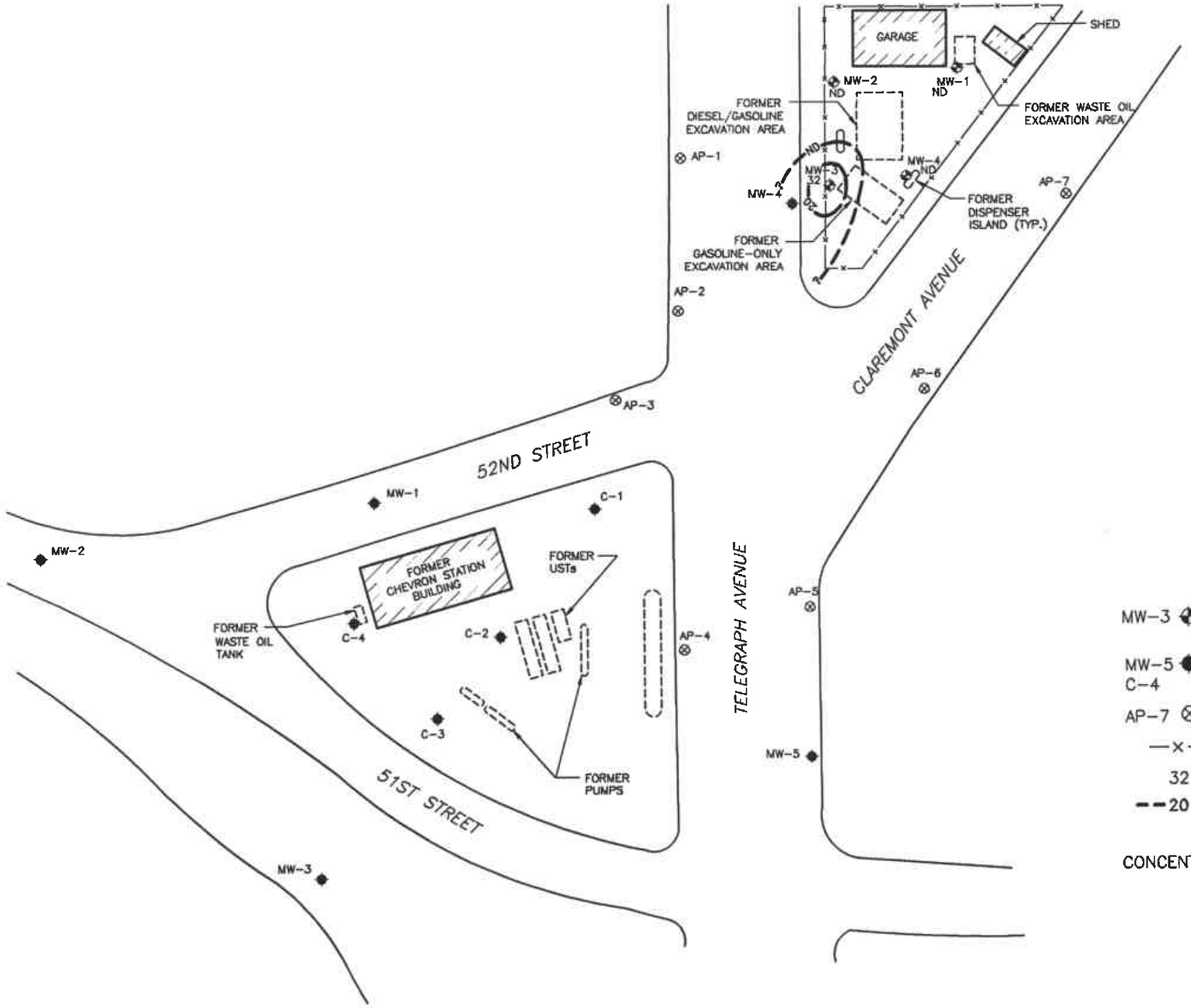
QST Environmental
1340 ARNOLD # 126
MARTINEZ, CA 94553

DATE 8/8/96
REVISED 02/03/97
CAD FILE 65521905

ESTIMATED EXTENT OF TPH-D IN GROUND WATER, DECEMBER 1996

AUTOPRO
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

FIGURE NO. 5
PROJ. NO. 65-95-219



LEGEND

MW-3 ◆	GROUND WATER MONITORING WELLS INSTALLED BY ESE/QST
MW-5 ● C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING WITH GRAB GROUND WATER SAMPLE
—x—	FENCE
32	CONCENTRATION OF BENZENE IN GROUND WATER
--20--	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 12/11/96
AUTOPRO WELLS ANALYTICAL DATA DATED 12/11/96

QST Environmental
1340 ARNOLD # 126
MARTINEZ, CA 94553

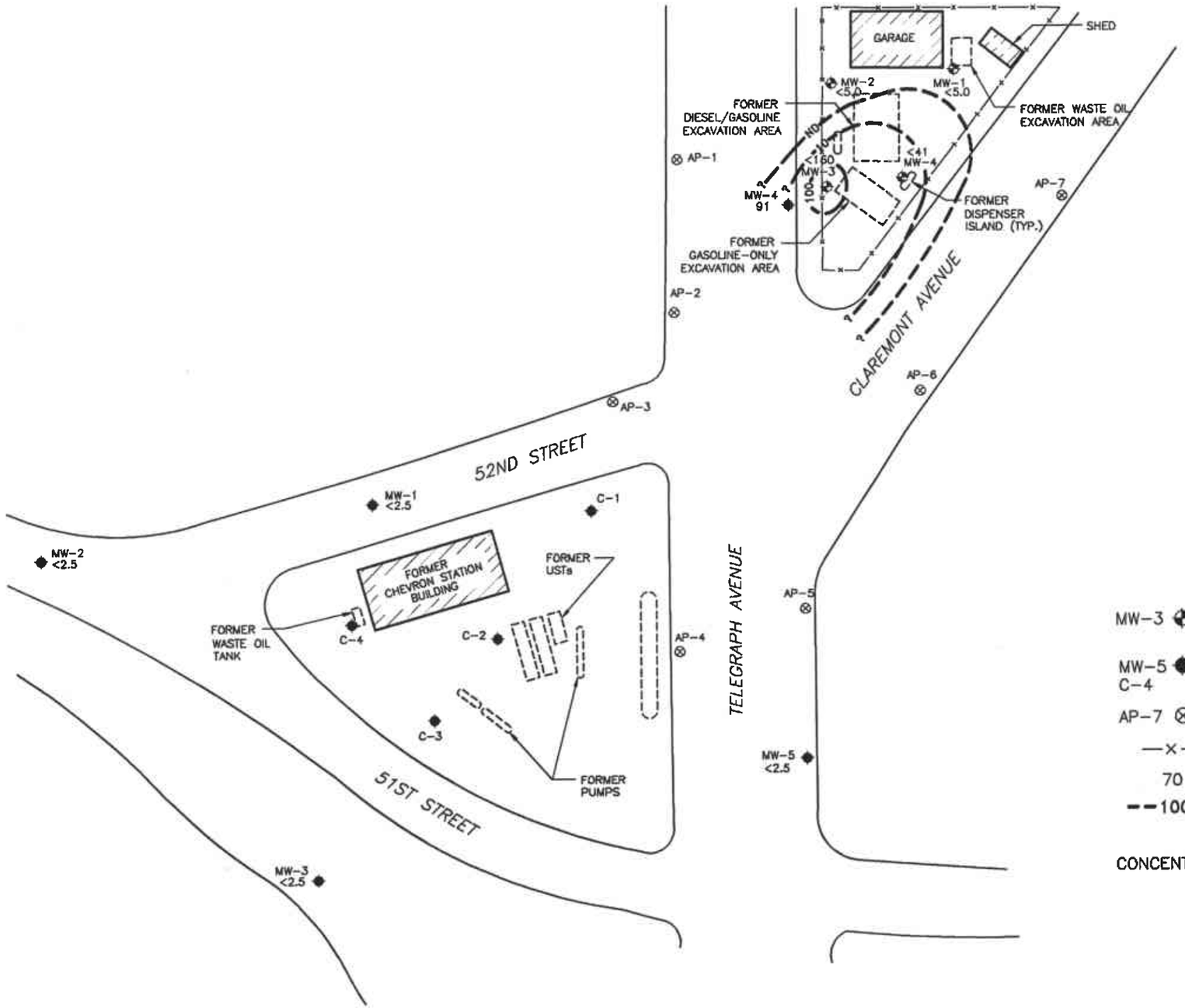
DATE 8/8/96
REVISED 01/20/98 phx
CAD FILE 65521906

ESTIMATED EXTENT OF BENZENE IN GROUND WATER, DECEMBER 1997

AUTOPRO
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

FIGURE NO. **6**

PROJ. NO. 65-95-219



LEGEND

MW-3 ⊕	GROUND WATER MONITORING WELLS INSTALLED BY ESE/QST
MW-5 ◆ C-4	GROUND WATER MONITORING WELLS INSTALLED FOR CHEVRON
AP-7 ⊗	SOIL BORING WITH GRAB GROUND WATER SAMPLE
—x—	FENCE
70	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 12/11/96
AUTOPRO WELLS ANALYTICAL DATA DATED 12/11/96

QST ENVIRONMENTAL Environmental
1340 ARNOLD # 126
MARTINEZ, CA 94553

DATE 01/20/98 phx
REVISED 02/03/97
CAD FILE 65521907

ESTIMATED EXTENT OF MTBE IN GROUND WATER, DECEMBER 1997

AUTOPRO
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

FIGURE NO. 7
PROJ. NO. 65-95-219

GROUND WATER SAMPLE COLLECTION LOGS

WELL MEASUREMENTS

PROJECT NO. 6595219

LOCATION 5200 TELEGRAPH AVE
OAKLAND, CA

STAFF M. RAPOPORT

DATE AND TIME 12/12/97

WELL NO	PRODUCT LEVEL (FT)	WATER LEVEL (FT)	COMMENTS
MW-1	—	10.28	Bailed standing H2O from casing
MW-2	—	9.79	Bailed standing H2O from casing
MW-3	—	8.81	Bailed standing H2O from casing
MW-4	—	8.95	

QST ENVIRONMENTAL
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Offering expanded products and services

SAMPLE COLLECTION LOG

PROJECT NAME: TRISTAR PARTNERSHIP
PROJECT NO.: 6595219
DATE: 12/12/97

SAMPLE LOCATION I.D.: MW-1
SAMPLER: M. RAPOPORT
PROJECT MANAGER: T. DALZELL

CASING DIAMETER

2" ✓
4"
Other

SAMPLE TYPE

Ground Water ✓
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: 10.28 (ft.)
DEPTH OF WELL: 28.92 (ft.)

PRODUCT THICKNESS: — (ft.)
WATER COLUMN: 18.64 (ft.)
WELL CASING VOLUME: 3.04 (gal)

MINIMUM PURGE VOLUME (3 or 4 WCV): 9.13 (gal)
ACTUAL VOLUME PURGED: 10 (gal)

TIME	Volume (GAL)	pH (Units)	E.C. (Micromhos) X1000	Temperature (F°)	Turbid. (NTU)	Other
	0	6.96	0.42	60.5		MURKY
	5	7.12	0.42	64.5		↓
	10	7.16	0.42	64.6		CLEAR

INSTRUMENT CALIBRATION

pH/COND./TEMP.: TYPE HYDAC UNIT# 9508 DATE: 12/12/97 TIME: 6800 BY: MAL
TURBIDITY: TYPE — UNIT# — DATE: — TIME: — BY: —

PURGE METHOD

— Displacement Pump
— Bailer (Teflon/PVC/SS)
— Other
✓ Submersible Pump

SAMPLE METHOD

✓ Bailer (Teflon/PVC/SS)
✓ Bailer (Disposable)
— Dedicated
— Other

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW-1		12/12/97	MAL	BTEX/MTBE/TPH-G/TPH-D/TPH-MO
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS:

SAMPLER: M. Rapoport PROJECT MANAGER

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SAMPLE COLLECTION LOG

PROJECT NAME: TRISTAR PARTNERSHIP
PROJECT NO.: 6595219
DATE: 12/12/97

SAMPLE LOCATION I.D.: MW-2
SAMPLER: M. RAPOPORT
PROJECT MANAGER: T. DAIZELL

CASING DIAMETER

2" ✓
4"
Other

SAMPLE TYPE

Ground Water ✓
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: 9.39 (ft.)
DEPTH OF WELL: 24.36 (ft.)

PRODUCT THICKNESS: – (ft.)
WATER COLUMN: 14.97 (ft.)
WELL CASING VOLUME: 2.44 (gal)

MINIMUM PURGE VOLUME (3 or 4 WCV): 7.33 (gal)
ACTUAL VOLUME PURGED: 10 (gal)

TIME	Volume (GAL)	pH (Units)	E.C. (Micromhos)	Temperature (F°)	Turbid. (NTU)	Other
	0	7.16	0.46	61.1		CLOUDY
	5	7.20	0.44	64.5		↓
	10	7.22	0.44	64.5		CLEAR

INSTRUMENT CALIBRATION

pH/COND./TEMP.: TYPE HYDAC UNIT# 9508 DATE: 12/12/97 TIME: 0800 BY: MR
TURBIDITY: TYPE ____ UNIT# ____ DATE: ____ TIME: ____ BY: ____

PURGE METHOD

___Displacement Pump
___Bailer (Teflon/PVC/SS)
___Other
✓Submersible Pump

SAMPLE METHOD

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

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW-2		12/12/97	MAL	BTEX/MTBE/TPH-G/TPH-D/TPH-MO
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS: ____

SAMPLER: ____ PROJECT MANAGER: ____

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SAMPLE COLLECTION LOG

PROJECT NAME: TRISTAR PARTNERSHIP
PROJECT NO.: 6595219
DATE: 12/12/97

SAMPLE LOCATION I.D.: MW-3
SAMPLER: M. RAPOPORT
PROJECT MANAGER: T. DALZELL

CASING DIAMETER

2" ✓
4"
Other

SAMPLE TYPE

Ground Water ✓
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: 8.81 (ft.)
DEPTH OF WELL: 24.08 (ft.)

PRODUCT THICKNESS: — (ft.)
WATER COLUMN: 15.27 (ft.)
WELL CASING VOLUME: 2.49 (gal)

MINIMUM PURGE VOLUME (3 or 4 WCV): 9.48 (gal)
ACTUAL VOLUME PURGED: 10 (gal)

TIME	Volume (GAL)	pH (Units)	E.C. (Micromhos) X1000	Temperature (F°)	Turbid. (NTU)	Other
	0	7.32	0.73	64.3		
	5	7.34	0.73	64.8		
	10	7.34	0.73	66.2		

INSTRUMENT CALIBRATION

pH/COND./TEMP.: TYPE HYDAC UNIT# 9588 DATE: 12/12/97 TIME: 0800 BY: MR
TURBIDITY: TYPE ____ UNIT# ____ DATE: ____ TIME: ____ BY: ____

PURGE METHOD

___Displacement Pump
___Bailer (Teflon/PVC/SS)
___Other
✓ Submersible Pump

SAMPLE METHOD

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

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW-3		12/12/97	MAL	BTEX/MTBE/TPH-D/TPH-MO/TPH-G
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS:

SAMPLER: [signature] PROJECT MANAGER

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SAMPLE COLLECTION LOG

PROJECT NAME: TRISTAR PARTNERSHIP
PROJECT NO.: 6595219
DATE: 12/12/97

SAMPLE LOCATION I.D.: MW-4
SAMPLER: M.RAPOPORT
PROJECT MANAGER: T.DALZELL

CASING DIAMETER

2" ✓
4"
Other

SAMPLE TYPE

Ground Water ✓
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: 8.95 (ft.)
DEPTH OF WELL: 24.05 (ft.)

PRODUCT THICKNESS: — (ft.)
WATER COLUMN: 15.10 (ft.)
WELL CASING VOLUME: 2.46 (gal)

MINIMUM PURGE VOLUME (3 or 4 WCV): 7.39 (gal)
ACTUAL VOLUME PURGED: 10 (gal)

TIME	Volume (GAL)	pH (Units)	E.C. (Micromhos)	Temperature (F°)	Turbid. (NTU)	Other
	0	7.26	055	64.5		CLOUDY
	5	7.24	0.54	64.6		↓
	10	7.24	0.54	64.8		CLEAR

INSTRUMENT CALIBRATION

pH/COND./TEMP.: TYPE HYDAC UNIT# 9508 DATE: 12/12/97 TIME: 0800 BY: MR
TURBIDITY: TYPE ____ UNIT# ____ DATE: ____ TIME: ____ BY: ____

PURGE METHOD

___Displacement Pump
___Bailer (Teflon/PVC/SS)
___Other
✓Submersible Pump

SAMPLE METHOD

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

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW-4		12/12/97	MAL	BTEX/MTBE/TPH-G/TPH-D/TPH-MO
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS:

SAMPLER: [signature] PROJECT MANAGER

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QST Environmental 1340 Arnold Drive, Suite 126 Martinez, CA 94553	Client Project ID: #6595219; Tristar Partnership	Date Sampled: 12/12/97
		Date Received: 12/12/97
	Client Contact: Micah Rapoport	Date Extracted: 12/12/97
	Client P.O:	Date Analyzed: 12/12/97

12/22/97

Dear Micah:

Enclosed are:

1). the results of **6** samples from your **#6595219; 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.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. 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.
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Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QST Environmental 1340 Arnold Drive, Suite 126 Martinez, CA 94553	Client Project ID: #6595219; Tristar Partnership	Date Sampled: 12/12/97
		Date Received: 12/12/97
	Client Contact: Micah Rapoport	Date Extracted: 12/14-12/15/97
	Client P.O:	Date Analyzed: 12/14-12/15/97

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	Ethylben-zene	Xylenes	% Recovery Surrogate
84064	MW-1	W	360,b,j	ND	ND	0.80	0.82	0.90	102
84065	MW-2	W	ND	ND	ND	ND	ND	ND	91
84066	MW-3	W	7400,c,b	ND<160	32	37	46	90	105
84067	MW-4	W	3100,b,j	ND<41	ND	3.3	7.6	8.9	104
84068	DUP	W	ND	ND	ND	ND	ND	ND	92
84069	TRIP	W	---	ND	ND	ND	ND	ND	90
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, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/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 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QST Environmental 1340 Arnold Drive, Suite 126 Martinez, CA 94553	Client Project ID: #6595219; Tristar Partnership	Date Sampled: 12/12/97
		Date Received: 12/12/97
	Client Contact: Micah Rapoport	Date Extracted: 12/12/97
	Client P.O:	Date Analyzed: 12/12/97

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
84064	MW-1	W	280,d	ND	112
84065	MW-2	W	58,b	ND	105
84066	MW-3	W	3300,d,b	ND	114#
84067	MW-4	W	2700,d	ND	115#
84068	DUP	W	ND	ND	104
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, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/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: 12/12/97 Matrix: Water

Analyte	Concentration (mg/L) Sample (#83990)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	95.3	94.6	100.0	95.3	94.6	0.8
Benzene	0.0	9.3	9.6	10.0	93.0	96.0	3.2
Toluene	0.0	10.3	10.7	10.0	103.0	107.0	3.8
Ethyl Benzene	0.0	10.7	11.0	10.0	107.0	110.0	2.8
Xylenes	0.0	32.7	33.7	30.0	109.0	112.3	3.0
TPH(diesel)	0	150	140	150	100	93	7.2
TRPH (oil & grease)	0	22300	23800	23700	94	100	6.5

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

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

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 12/14/97 Matrix: Water

Analyte	Concentration (mg/L) Sample (#83872)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	89.9	86.4	100.0	89.9	86.4	3.9
Benzene	0.0	9.7	9.4	10.0	97.0	94.0	3.1
Toluene	0.0	10.0	9.7	10.0	100.0	97.0	3.0
Ethyl Benzene	0.0	9.9	9.6	10.0	99.0	96.0	3.1
Xylenes	0.0	30.7	29.7	30.0	102.3	99.0	3.3
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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 12/15/97 Matrix: Water

Analyte	Concentration (mg/L) Sample (#83900)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	93.1	94.8	100.0	93.1	94.8	1.8
Benzene	0.0	8.8	8.9	10.0	88.0	89.0	1.1
Toluene	0.0	9.4	9.6	10.0	94.0	96.0	2.1
Ethyl Benzene	0.0	10.3	10.4	10.0	103.0	104.0	1.0
Xylenes	0.0	31.6	31.8	30.0	105.3	106.0	0.6
TPH(diesel)	0	166	166	150	111	110	0.3
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

CHAIN OF CUSTODY RECORD

DATE 12/12/97 PAGE 1 OF 1

PROJECT NAME TRISTAR PARINERSHIP

ADDRESS 5200 TELEGRAPH AVE. OAKLAND, CA

PROJECT NO. 6595219

SAMPLED BY MICAH RAPOPORT

LAB NAME McCAMPBELL ANALYTICAL

QST ENVIRONMENTAL

[redacted]

SAMPLE #	DATE	TIME	LOCATION	BTEX/MTBE 8020	TPH-G	TPH-D	TPH-MO	MATRIX	NUMBER OF CONTAINERS	REMARKS (CONTAINER, SIZE, ETC.)
MW-1	12/12/97	1200	OAKLAND	X	X	X	X	H_2O	5	4 VOA'S, 1-1LAMBER
MW-2	12/12/97	1130		X	X	X	X	H_2O	5	
MW-3	12/12/97	1230		X	X	X	X	H_2O	5	
MW-4	12/12/97	1300		X	X	X	X	H_2O	5	
DUP	12/12/97	-		X	X	X	X	H_2O	5	
TRIP	12/12/97	-		X				H_2O	1	1 VOA

84064
84065
84066
84067
84068
84069

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	date	time
1.	MAL EV MAI	12/12/97	6:23 PM
2.			
3.			
4.			
5.			

REPORT RESULTS TO: M. RAPOPORT

SPECIAL SHIPMENT REQUIREMENTS: ICE

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

STANDARD TAT

SAMPLE RECEIPT	
CHAIN OF CUSTODY SEALS	
REC'D GOOD CONDTN/COLD	
CONFORMS TO RECORD	

	VOAS	O&G	METALS	OTHER
ICE/	✓			
GOOD CONDITION	✓			
HEAD SPACE ABSENT	✓			
PRESERVATION APPROPRIATE	✓			
CONTAINERS	✓			

QST Environmental 1340 Arnold Drive, Suite 126, Martinez, CA 94553

FAX

Date: 3-13-98

Number of pages including cover sheet: 5

Job Number: 65-95-219

Task Number: ____

To:

Susan Hugo
Alameda County
Environmental Health
Department

Phone: 510-567-6780

Fax phone: 510-337-9335

CC:

From:

Thomas D. Dalzell

QST Environmental
Martinez Office

Phone: 510-313-0840

Fax phone: 510-313-0844

REMARKS: ☐ Urgent ☐ For your review ☐ Reply ASAP ☐ Please comment

The following is the finalized text. The complete report including signatures, tables, laboratory data and groundwater sample collection logs will be forwarded on Monday.