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July 22, 2002

AUG 1 2 2002

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**SUBJECT: SECOND QUARTER 2002 GROUNDWATER MONITORING REPORT
AUTOPRO FACILITY
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
HARDING ESE PROJECT NO. 51644.030**

Mr. Kojnok:

Harding ESE, a MACTEC Company (Harding ESE) is pleased to present the results of second quarter 2002 groundwater 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 August 13, 2001. The following report describes the activities completed and the results.

FIELD ACTIVITIES

On June 28, 2002, Harding ESE personnel performed groundwater monitoring activities at the site. At the Autopro facility, depths to groundwater were measured using an electronic water level meter in four on-site groundwater monitoring wells and one off-site well (Figure 2 - Site Map). No evidence of free-product was found in any of the five wells. A minimum of three volumes of groundwater was removed from each well using a properly cleaned reusable bailer and new nylon cord. Temperature, pH, and electrical conductivity parameters were recorded during the well purging process. Groundwater samples were collected from the well following the purge process using a pre-cleaned disposable bailer and new nylon cord. Groundwater sample collection logs, documenting the collected parameters and other information, are presented as an attachment. Groundwater 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, and transported to a State-certified analytical laboratory by Harding ESE personnel.

The samples collected from the Autopro facility 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 were stored on-site in properly labeled Department of Transportation (DOT)-rated 55-gallon drums pending analysis and proper disposal/recycling.

RESULTS

Depth to groundwater in the four on-site wells (MW-1 through MW-4) and the one off-site well (MW-5) from the most current sampling event, ranged from 10.12 feet to 12.16 feet below top of casing. Groundwater elevations were calculated and are presented in Table 1 - Historical Groundwater Data. Groundwater elevation contours were plotted on Figure 3 - Groundwater Elevation Contour Map, June 28, 2002. Groundwater onsite was found to flow generally towards the south at an approximate gradient of 0.020 feet per foot.

- TPH-G was detected in wells MW-1, MW-3, MW-4 and MW-5 at concentrations of 560 µg/L, 9,300 µg/L, 3,900 µg/L and 9,000 µg/L, respectively.
- TPH-D was detected in all wells at concentrations of 590 µg/L (MW-1), 410 µg/L (MW-2), 6,900 µg/L (MW-3), 2,700 µg/L (MW-4), and 4,400 µg/L (MW-5).
- TPH-MO was detected in all wells, with the exception of MW-3 at concentrations of 260 µg/L (MW-1), 660 µg/L (MW-2), 940 µg/L (MW-4), and 310 µg/L (MW-5).
- Benzene was detected in wells MW-1, MW-3, MW-4 and MW-5 at concentrations of 0.54 µg/L, 53 µg/L, 2.6 µg/L and 41 µg/L, respectively.
- Toluene was detected in wells MW-1 and MW-4 at concentrations of 1.60 µg/L and 7.3 µg/L, respectively.
- Ethylbenzene was detected in wells MW-3, MW-4 and MW-5 at concentrations of 11 µg/L, 4.5 µg/L and 8.2 µg/L, respectively.
- Total Xylenes was detected in wells MW-1, MW-3, MW-4 and MW-5 at concentrations of 1.30 µg/L, 23 µg/L, 7.2 µg/L and 19 µg/L, respectively.
- MTBE was not detected above reporting limits in any well.

Table 2 - Historical Groundwater 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, Benzene, and MTBE in groundwater for the site during this quarter.

CONCLUSIONS

Based on the results of the second quarter 2002 groundwater monitoring activities, Harding ESE concludes the following:

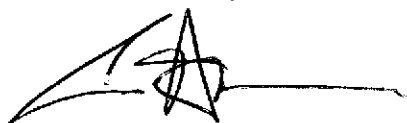
- Groundwater flow direction is generally to the south at a gradient of 0.020 ft/ft, which compares with previously obtained data for the site.
- TPH-D concentrations decreased in MW-1 and MW-3; and increased in MW-2, MW-4 and MW-5.
- TPH-MO concentrations decreased in MW-1, MW-3 and MW-5; and increased in MW-2 and MW-4.
- TPH-G concentrations remained below laboratory detection limits in MW-2 and increased for all other wells.
- Benzene concentrations remained below laboratory detection limits in MW-2 and increased for all other wells.
- Toluene concentrations decreased in MW-3 and MW-5 to below laboratory detection limits; remained below laboratory detection limits in MW-2; and increased in MW-1 and MW-4.
- Ethylbenzene concentrations decreased in MW-3 and MW-5; remained below laboratory detection limits in MW-1 and MW-2; and increased in MW-4.
- Total Xylene concentrations decreased in MW-3; remained below laboratory detection limits in MW-2; and increased in MW-1, MW-4 and MW-5.
- With the exception of benzene, all regulated analytes (toluene, ethylbenzene, xylene and MTBE) are below maximum concentration levels (MCLs) according to *Title 22, California Code of Regulations, Division 4. Environmental Health, Chapter 15. Domestic Water Quality and Monitoring, Article 5.5. Primary Standards – Organic Chemicals, Section 64444. General Requirements, Table 64444-A* (See last row of Table 2).

Mr. Ondrej Kojnok
July 22, 2002
Page 4

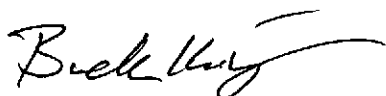
CLOSURE

This report has been prepared by Harding 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,
HARDING ESE, A MACTEC COMPANY



Jason T. House
Senior Staff Environmental Scientist



Buck King
Senior Project Hydrogeologist
California R.G. No. 6353
California C.H.G No. 433

Attachments: Table 1 – Historical Groundwater Elevation Data
Table 2 – Historical Groundwater Analytical Data
Figure 1 – Location Map
Figure 2 – Site Map
Figure 3 – Groundwater Elevation Contour Map, June 28, 2002
Figure 4 – Estimated Extent of TPH-G in Groundwater, June 28, 2002
Figure 5 – Estimated Extent of TPH-D in Groundwater, June 28, 2002
Figure 6 – Estimated Extent of TPH-MO in Groundwater, June 28, 2002
Figure 7 – Estimated Extent of Benzene in Groundwater, June 28, 2002
Groundwater Sample Collection Logs
Laboratory Reports and Chain-of-Custody Documentation

cc w/attachments: Mr. George Tuma, Autopro
Mr. Don Huang, Alameda County Health Care Services

TABLE 1

HISTORICAL GROUNDWATER ELEVATION DATA

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
	03/23/98		5.12	110.32
	06/16/98		10.15	105.29
	08/25/98		13.10	102.34
	09/30/98		13.33	102.11
	12/15/98		11.78	103.66
	03/22/02		11.45	103.99
06/28/02	12.16	103.28		
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
	03/23/98		4.32	110.30
	06/16/98		9.23	105.39
	08/25/98		12.25	102.37
	09/30/98		12.42	102.20
	12/15/98		10.93	103.69
	03/22/02		10.32	104.30
06/28/02	11.26	103.36		
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
	03/23/98		3.65	110.25
	06/16/98		8.90	105.00
	08/25/98		12.35	101.55
	09/30/98		12.11	101.79
	12/15/98		10.53	103.37
	03/22/02		9.93	103.97
06/28/02	10.76	103.14		

TABLE 1

HISTORICAL GROUNDWATER ELEVATION DATA

Autopro Facility
5200 Telegraph Avenue
Oakland, California

Well I.D.	Date	Datum	Depth to Water (feet)	Ground Water Elevation (ft AMSL)
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
	03/23/98		3.49	110.76
	06/16/98		9.05	105.20
	08/25/98		12.05	102.20
	09/30/98		12.22	102.03
	12/15/98		10.68	103.57
	03/22/02		10.23	104.02
06/28/02	10.99	103.26		
MW-5	07/18/98	113.06	10.77	102.29
	08/25/98		11.20	101.86
	09/30/98		11.32	101.74
	12/15/98		9.92	103.14
	03/22/02		9.20	103.86
	06/28/02		10.12	102.94
CHEVRON WELLS				
C-3	03/22/02	115.70	13.40	102.30
MW-1	03/22/02	115.02	10.34	104.68
MW-2	03/22/02	112.03	9.89	102.14
MW-3	03/22/02	113.63	14.17	99.46
MW-5	03/22/02	116.70	14.71	101.99

Note:
ft AMSL = feet above mean sea level.

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL DATA

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	<250	180	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	09/24/96	150	<250	170	3.7	0.92	0.54	0.63	6.5	--	--	--	--	--	--
	12/11/96	300	<250	520	<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	--	--	--	--	--	--
	03/23/98	96	<250	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	08/25/98	110	<250	740	<0.50	<0.50	<0.50	2.40	ND<10	--	--	--	--	--	--
	09/30/98	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	12/15/98	380	<250	560	<0.5	1.80	0.66	1.50	--	--	--	--	--	--	--
	03/22/02	5,100	6,900	150	<0.5	0.90	<0.5	<0.5	<5.0	--	--	--	--	--	--
	06/28/02	590	260	560	0.54	1.60	<0.5	1.30	<5.0	--	--	--	--	--	--
MW-2 (Dup)	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	--	--	--	--	--	--
	12/12/97	<50	<250	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	03/23/98	200	<250	200	<0.50	0.09	<0.50	<0.50	<5.0	--	--	--	--	--	--
	08/25/98	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--
	09/30/98	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	12/15/98	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	03/22/02	110	270	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--
06/28/02	410	660	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL DATA

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	<250	6,600	15	17	23	40	53	--	--	--	--	--	--
	(Dup) 06/26/96	2,700	<250	6,600	14	16	21	37	49	--	--	--	--	--	--
	09/24/96	2,600	290	4,800	12	11	18	43	42	--	--	--	--	--	--
	12/11/96	2,900	<250	6,700	20	19	32	44	70	--	--	--	--	--	--
	12/12/97	3,300	<250	7,400	32	37	46	90	<160	--	--	--	--	--	--
	03/23/98	1,900	<250	2,500	<0.50	3.2	3.5	7.7	<20	--	--	--	--	--	--
	(Dup) 03/23/98	1,600	<250	2,400	<0.50	4.0	3.4	4.4	<18	--	--	--	--	--	--
	08/25/98	--	--	--	0.8	1.1	0.77	2.3	ND<10	--	--	--	--	--	--
	09/30/98	2,800	<250	4,000	6.8	7.3	6.9	19	--	--	--	--	--	--	--
12/15/98	2,100	<250	3,300	<0.5	8.3	6.2	15	--	--	--	--	--	--	--	
03/22/02	7,700	270	8,300	11	10	13	24	ND <25	--	--	--	--	--	--	
06/28/02	6,900	<250	9,300	53	<5.0	11	23	ND <50	--	--	--	--	--	--	
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	<250	4,700	<0.25	4.8	11	19	30	48	--	--	--	--	--
	09/24/96	2,200	<250	5,300	<1.0	5.3	8.2	8.3	<35	--	--	--	--	--	--
	(Dup) 09/24/96	2,200	<250	5,500	<1.0	6.6	9.4	8.4	<35	--	--	--	--	--	--
	12/11/96	2,400	<250	4,000	<0.25	4.0	7.6	9.2	22	--	--	--	--	--	--
	(Dup) 12/11/96	2,800	<250	7,000	18	20	34	49	73	--	--	--	--	--	--
	12/12/97	2,700	<250	3,100	<0.5	3.3	7.6	8.9	<41	--	--	--	--	--	--
	03/23/98	740	500	950	<0.50	2.7	1.0	1.3	<17	--	--	--	--	--	--
	08/25/98	1,800	<250	2,700	<0.5	3.0	4.2	11	ND<30	--	--	--	--	--	--
	09/30/98	1,700	<250	3,300	2.1	7.0	5.9	<0.5	--	--	--	--	--	--	--
12/15/98	1,800	<250	3,300	<0.5	3.9	4.9	12	--	--	--	--	--	--	--	
03/22/02	2,200	290	3,500	ND <1.0	3.2	2.4	4.6	ND <10	--	--	--	--	--	--	
06/28/02	2,700	940	3,900	2.6	7.3	4.5	7.2	ND <10	--	--	--	--	--	--	
MW-5	07/18/98	3,800	ND	5,900	7.40	9.50	17.00	29.00	ND<60	--	--	--	--	--	
	08/25/98	2,800	<250	5,800	6.1	7.9	16	33	ND<70	--	--	--	--	--	
	09/30/98	3,600	<250	6,300	13	10	14	4.4	--	--	--	--	--	--	
	12/15/98	2,800	<250	5,900	9.3	11	13	23	--	--	--	--	--	--	
	03/22/02	3,600	720	5,100	7.6	5	8.3	15	ND <10	--	--	--	--	--	
	06/28/02	4,400	310	9,000	41	ND <5.0	8.2	19	ND <50	--	--	--	--	--	

TABLE 2

HISTORICAL GROUNDWATER ANALYTICAL DATA

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
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	--	--	--	--	--	--
	03/23/98	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
FIELD	03/22/02	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
	06/28/02	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--
CHEVRON WELLS															
C-3	03/22/02	930	<250	3,600	<5.0	<5.0	6.1	<15	<2.5	--	--	--	--	--	--
MW-1	03/22/02	330	560	100	<0.5	24	0.8	4.9	15	--	--	--	--	--	--
MW-2	03/22/02	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--	--	--	--	--
MW-3	03/22/02	--	--	7,600	<10	4.2	11	<25	<5.0	--	--	--	--	--	--
MW-5	03/22/02	<50	<250	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--	--	--
MCL	--	--	--	--	1	150	700	1,750	13	--	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.

MCL = (Maximum Contaminant Level) - Title 22, CCR, Division 4, Environmental Health, Chapter 15. Domestic Water Quality and Monitoring, Article 5.5.

Primary Standards - Organic Chemicals, Section 64444. General Requirements, Table 64444-A

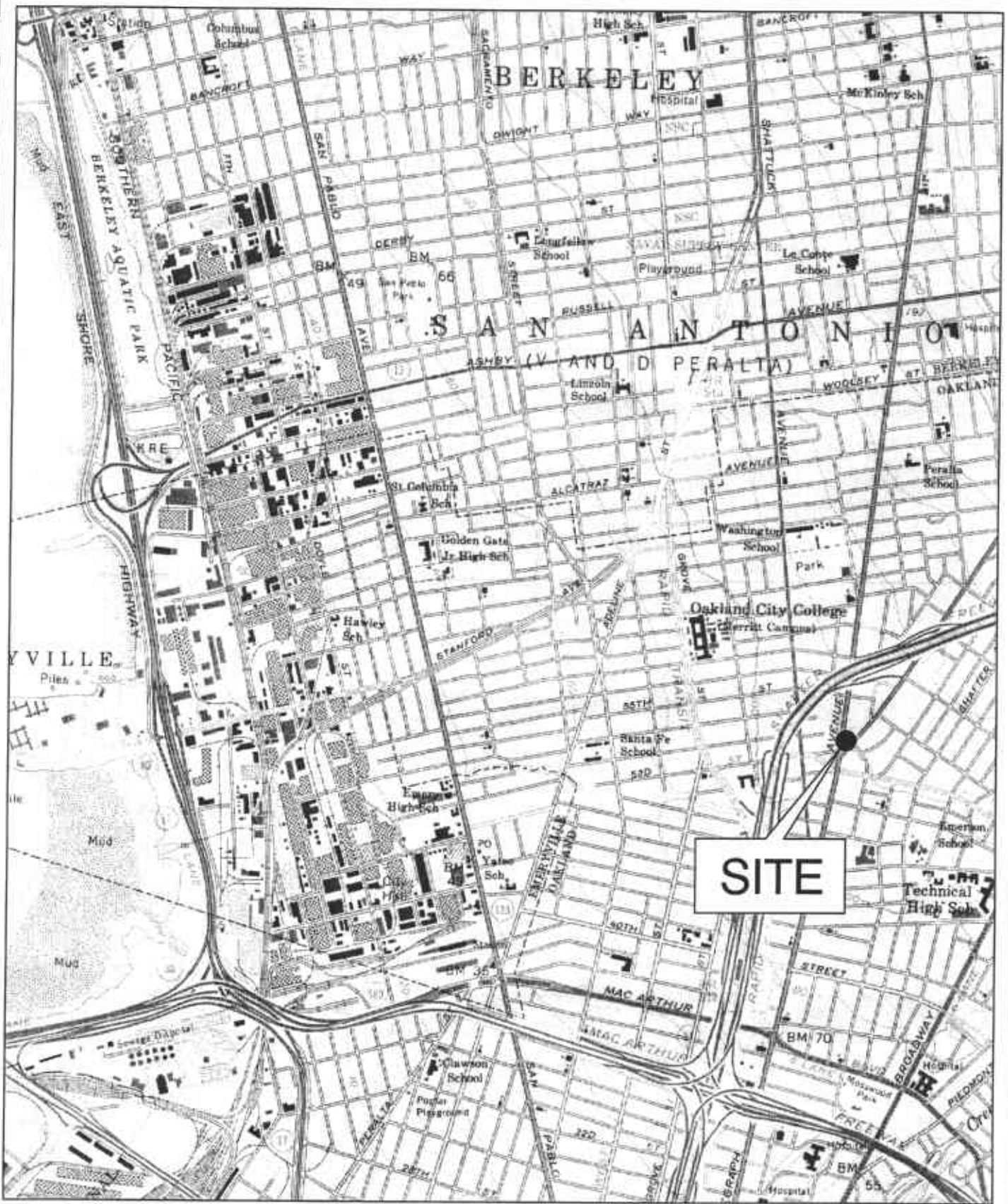
VOCs = Volatile Organic Compounds.

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.



20020416.1519

L:\30000\51644\CAD\51644014.dwg
 Aug 08, 2002 - 10:46am



Harding ESE
 A MACTEC COMPANY

Vicinity Map
 Aoutpro Inc.
 5200 Telegraph Avenue
 Oakland, California

FIGURE

1

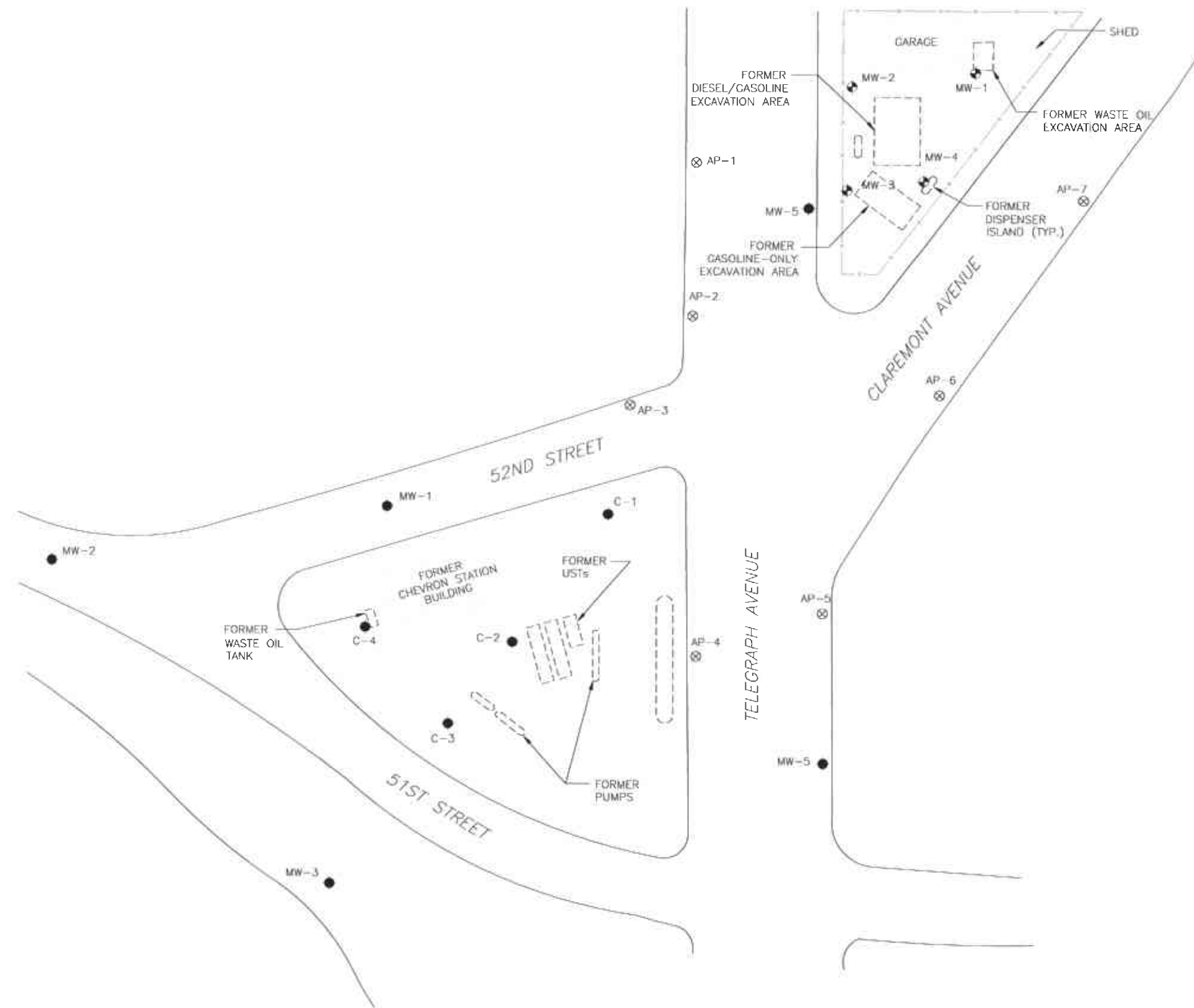
DRAWN
 SS

JOB NUMBER
 51644 030

APPROVED

DATE
 04/02

REVISED DATE



LEGEND

- MW-1 ⊗ GROUNDWATER MONITORING WELLS INSTALLED BY QST
- MW-1 ● GROUNDWATER MONITORING WELLS INSTALLED FOR CHEVRON
- C-1 ⊗ SOIL BORING BY QST
- - - X - - - FENCE



CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.



Harding ESE
A MACTEC COMPANY

Site Map
Autopro Inc.
5200 Telegraph Avenue
Oakland, California

DRAWN
SS

JOB NUMBER
51644 030

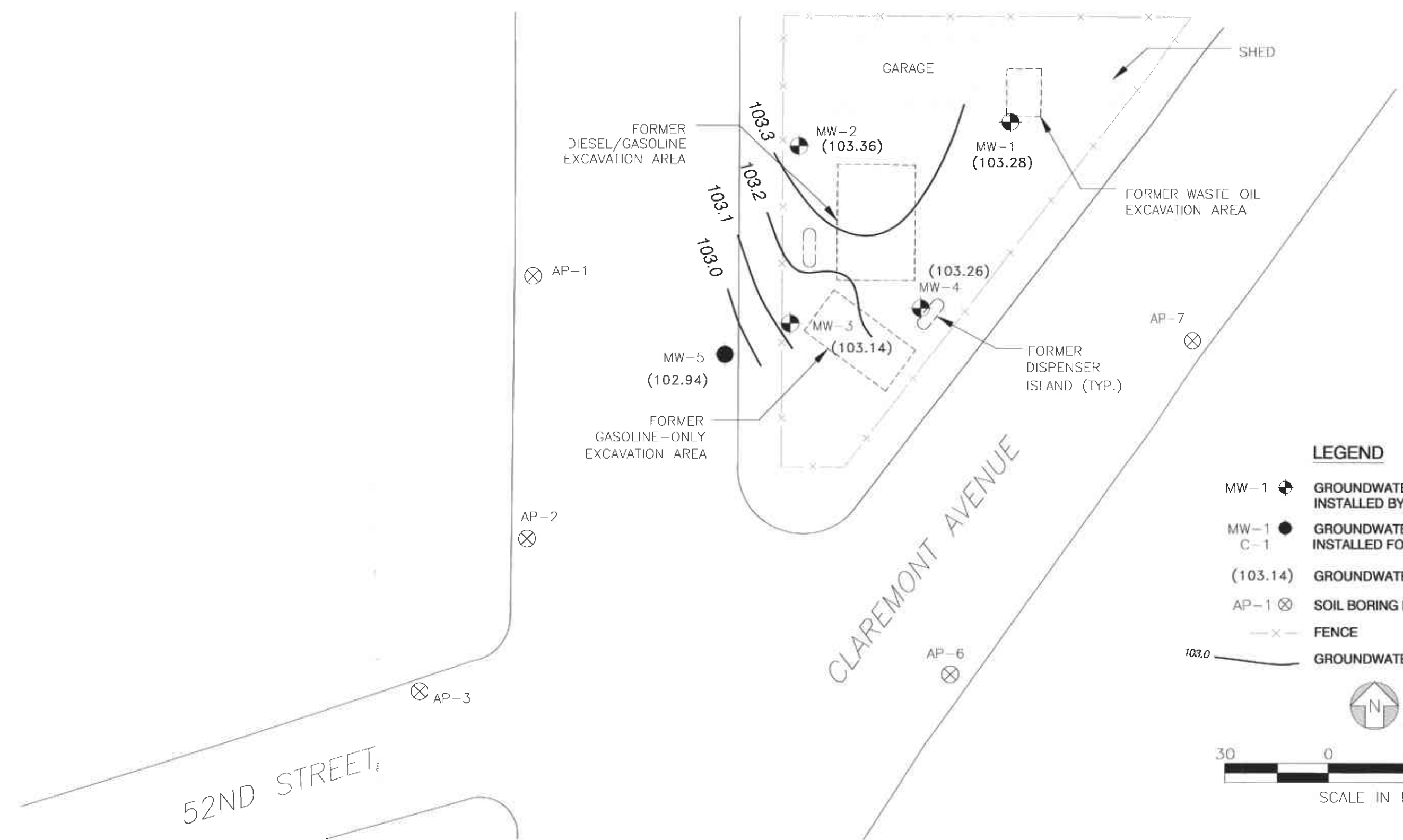
APPROVED

DATE
04/02

REVISED DATE

FIGURE
51644007.DWG 1.0
20020808.1058

2



LEGEND

- MW-1 GROUNDWATER MONITORING WELLS INSTALLED BY QST
- MW-1 GROUNDWATER MONITORING WELLS INSTALLED FOR CHEVRON
- (103.14) GROUNDWATER ELEVATION
- AP-1 SOIL BORING BY QST
- x - FENCE
- 103.0 GROUNDWATER ELEVATION CONTOUR



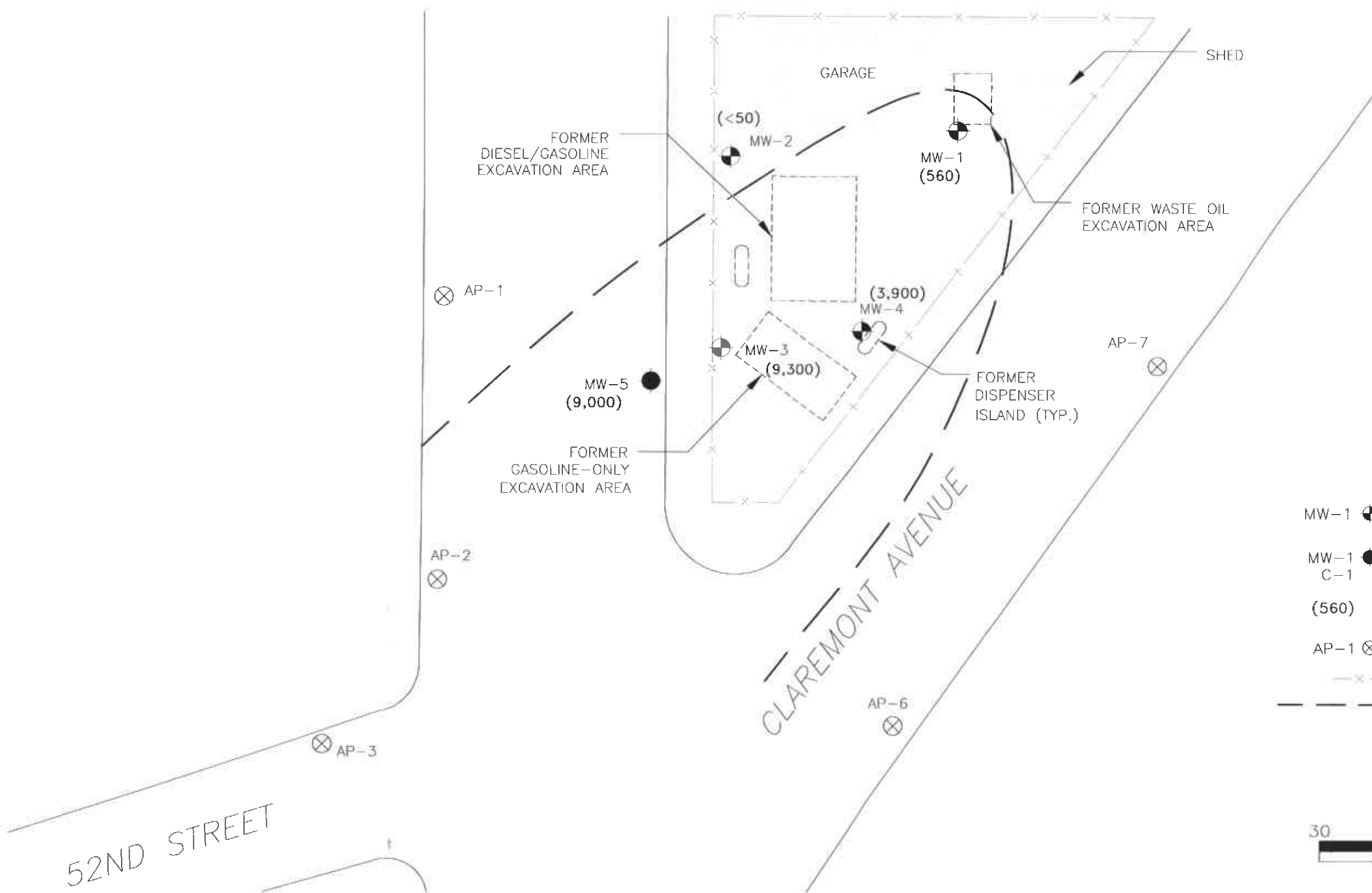
CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

Harding ESE
A MACTEC COMPANY

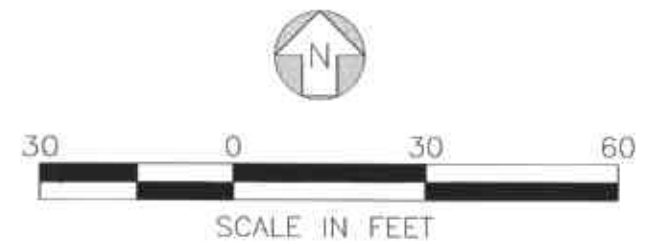
Groundwater Elevation Contour Map
Autopro Inc.
5200 Telegraph Avenue
Oakland, California

DRAWN: SS	JOB NUMBER 51644 030	APPROVED	DATE 07/02	REVISED DATE
--------------	-------------------------	----------	---------------	--------------

51644015.DWG 1.0
20020808.1052



- LEGEND**
- MW-1 GROUNDWATER MONITORING WELLS INSTALLED BY QST
 - MW-1 GROUNDWATER MONITORING WELLS INSTALLED FOR CHEVRON
 - C-1
 - (560) DETECTED CONCENTRATIONS IN $\mu\text{g/L}$
 - AP-1 SOIL BORING BY QST
 - FENCE
 - CONCENTRATION ISOPLETH



CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

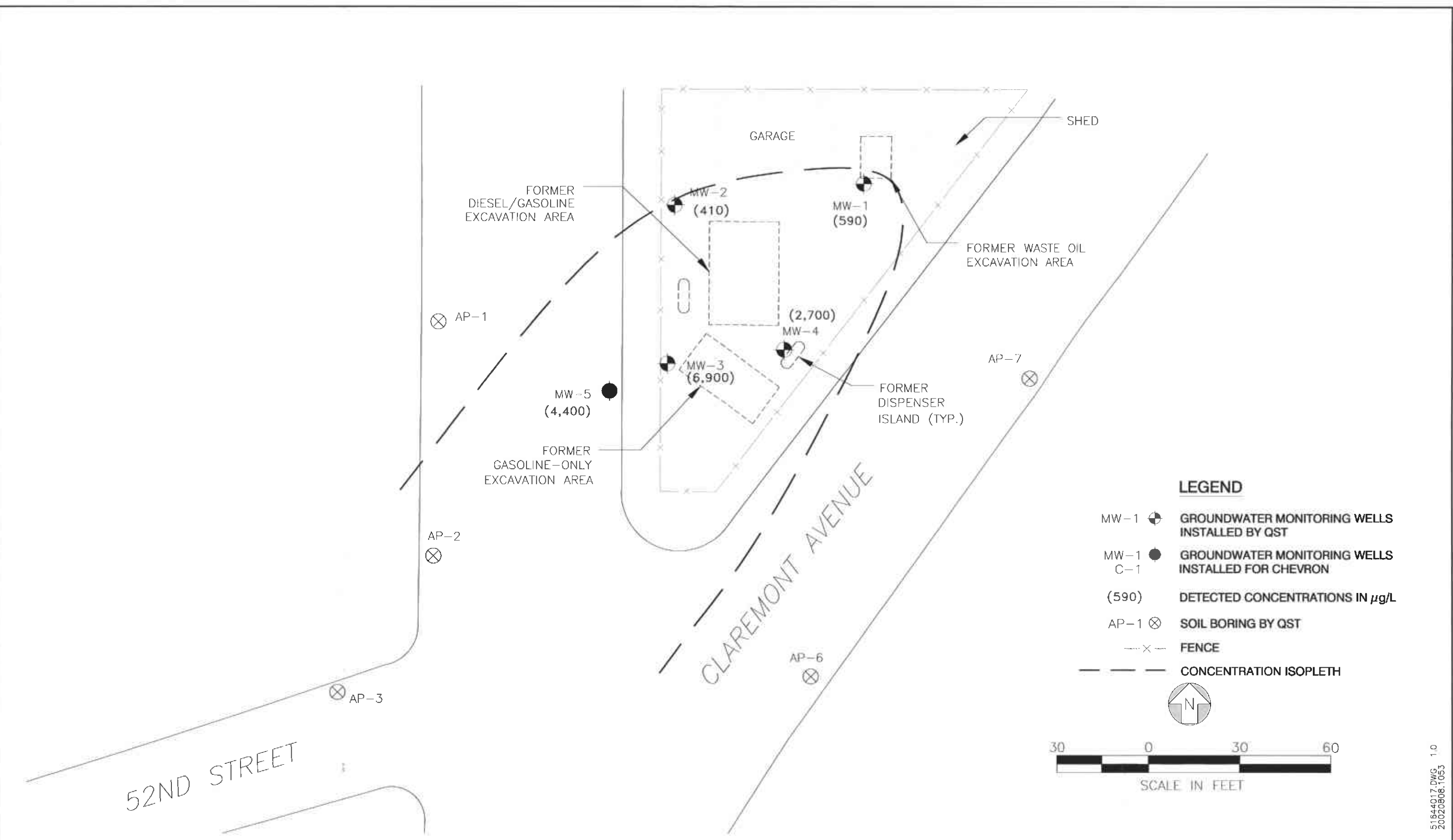
Harding ESE
A MACTEC COMPANY

DRAWN: SS
JOB NUMBER: 51644 030

TPH-G Plume
Autopro Inc.
5200 Telegraph Avenue
Oakland, California

APPROVED: _____ DATE: 07/02 REVISIONS: _____

51644-016.DWG 1.0
20020808.1052



CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

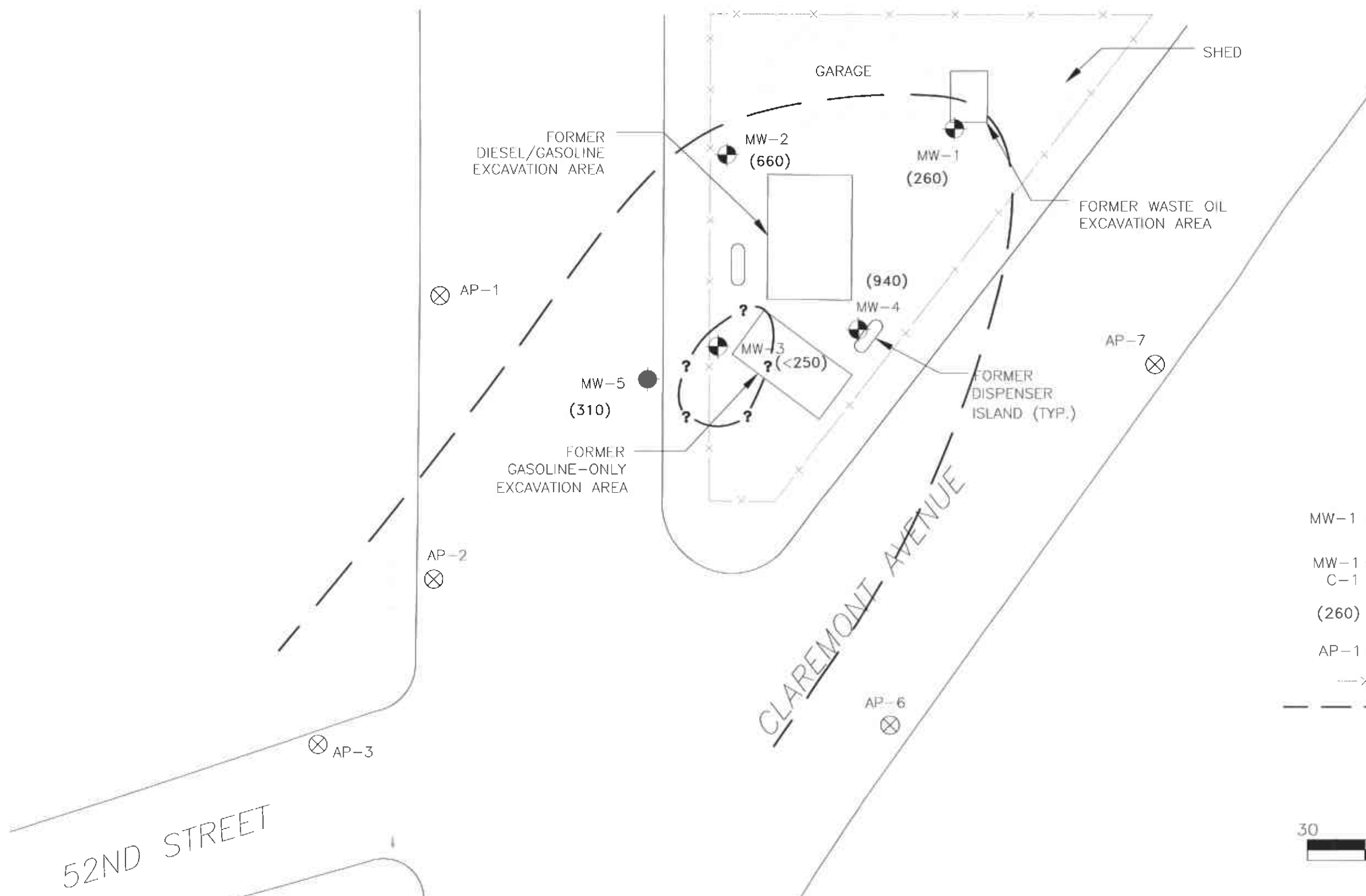
Harding ESE
 A MACTEC COMPANY

TPH-D Plume
 Autopro Inc.
 5200 Telegraph Avenue
 Oakland, California

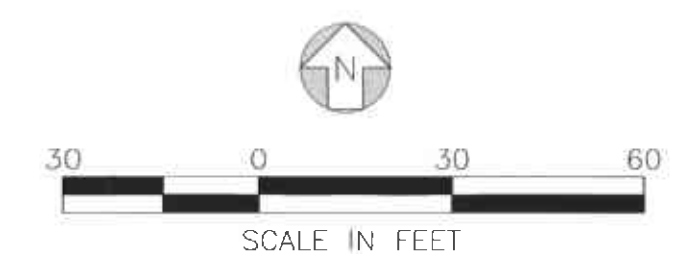
DRAWN SS	JOB NUMBER 51644 030	APPROVED	DATE 07/02	REVISED DATE
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51644017.DWG 1.0
20020806.1053

FIGURE
5



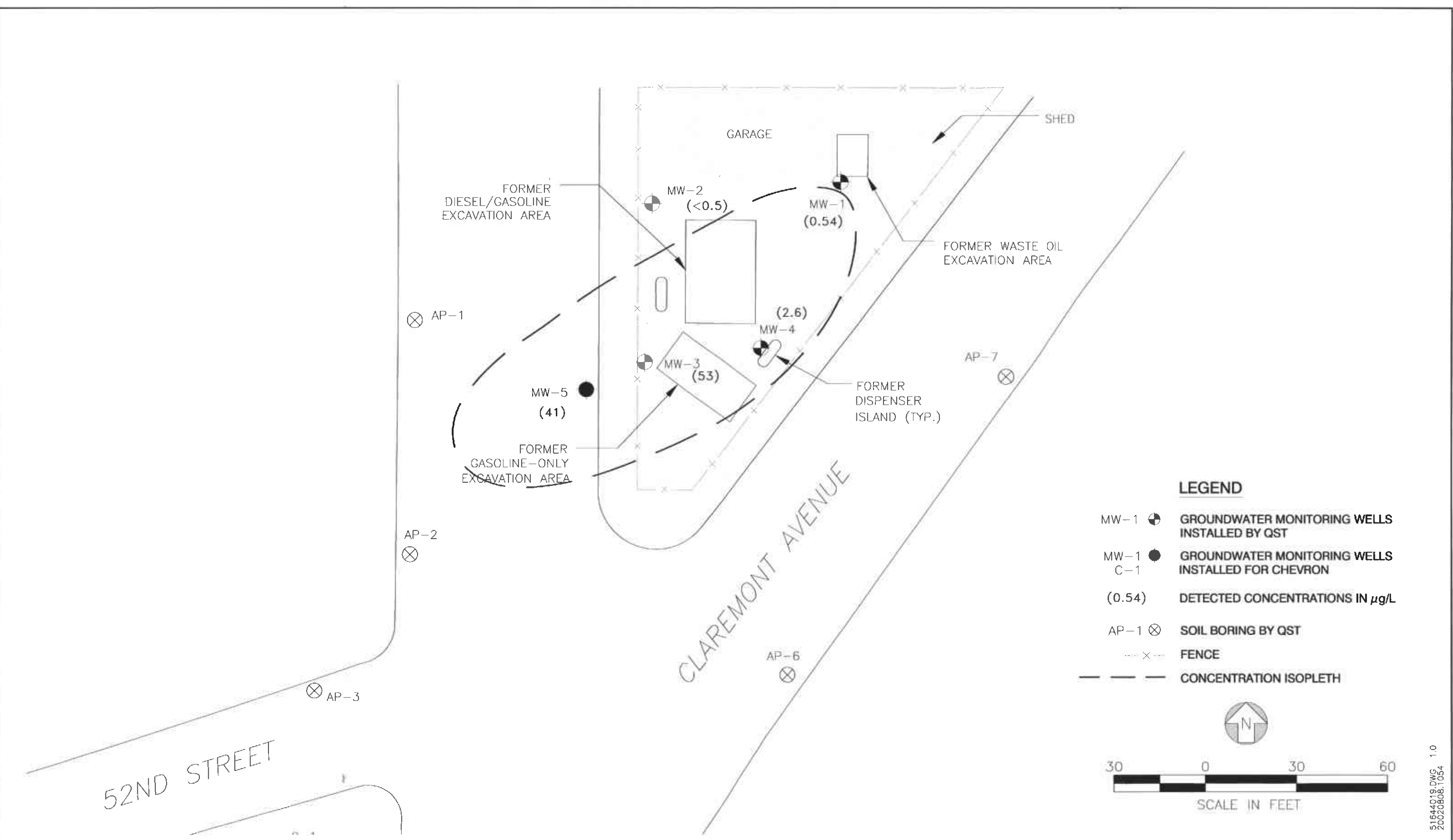
- LEGEND**
- MW-1 GROUNDWATER MONITORING WELLS INSTALLED BY QST
 - MW-1 GROUNDWATER MONITORING WELLS INSTALLED FOR CHEVRON
 - (260) DETECTED CONCENTRATIONS IN $\mu\text{g/L}$
 - AP-1 SOIL BORING BY QST
 - x- FENCE
 - - - CONCENTRATION ISOPLETH



CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

<p>Harding ESE A MACTEC COMPANY</p>	<p>TPH-MO Plume</p> <p>Autopro Inc. 5200 Telegraph Avenue Oakland, California</p>		<p>FIGURE 6</p>
	<p>DRAWN SS</p>	<p>JOB NUMBER 51644 030</p>	<p>APPROVED</p> <p>DATE 07/02</p>

51644018.DWG 1.0
20020808.1054



CHEVRON SITE BASE MAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

Harding ESE
A MACTEC COMPANY

Benzene Plume
Autopro Inc.
5200 Telegraph Avenue
Oakland, California

DRAWN SS	JOB NUMBER 51644 030	APPROVED	DATE 07/02	REVISED DATE
-------------	-------------------------	----------	---------------	--------------

51644019.DWG 1.0
20020808.1054

GROUNDWATER SAMPLE COLLECTION LOGS



SAMPLE COLLECTION LOG

PROJECT NAME: Autopro SAMPLE LOCATION: MW-1
 PROJECT NO.: 51644.030 SAMPLER: JTH
 DATE: 06/28/02 PROJECT MANAGER: Jason House

CASING DIAMETER	SAMPLE TYPE	WELL VOLUMES PER UNIT	
2" <u>X</u>	Ground Water <u>X</u>	Well Casing	
4" _____	Surface Water _____	I.D. (inches)	Gal/Ft.
Other _____	Treat. Influent _____	2.0	0.1632
	Treat. Effluent _____	4.0	0.6528
	Other _____	6.0	1.4690

DEPTH TO PRODUCT: 0 (ft.) PRODUCT THICKNESS: 0 (ft.) MINIMUM PURGE VOLUME
 DEPTH TO WATER: 12.16 (ft.) WATER COLUMN: 12.66 (ft.) (3-OR-4 WCV): 6.20 (gal)
 DEPTH OF WELL: 24.82 (ft.) WELL CASING VOL.: 2.07 (gal) ACTUAL VOLUME PURGED: 6.5 (gal)

TIME	VOLUME (gal)	pH (Units)	E.C. (Micromhos)	Temperature (°F)	Turbidity (NTU)	Other:
13:30	0	7.70	1050	77.9	<1000	
13:40	2	8.20	619	75.6	4.68	
13:50	4	9.40	341	76.1	66.40	
14:00	6.5	NA	376	74.7	12.10	

OVM READING NA

PURGE METHOD

SAMPLE METHOD

Displacement Pump _____ Other _____ Bailer (Teflon/PVC/SS) _____ Dedicated
 Bailer (Teflon/PVC/SS) _____ Submersible Pump _____ Bailer (Disposable) _____ Other _____

NUMBER OF CONTAINERS: 4 TYPES OF CONTAINERS: (3) VOAs, (1) 1L Amber

SAMPLES COLLECTED	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	062802-1	14:10	06/28/02	McCampbell	BTEX, TPH, g, d, mo
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS: pH is unreliable.

SAMPLER (sign): [Signature] DATE: 06/28/02

Harding ESE

A NIACTECO COMPANY

SAMPLE COLLECTION LOG

PROJECT NAME: Autopro SAMPLE LOCATION: MW-2
 PROJECT NO.: 51644.030 SAMPLER: JTH
 DATE: 06/28/02 PROJECT MANAGER: Jason House

CASING DIAMETER	SAMPLE TYPE	WELL VOLUMES PER UNIT
2" <u>X</u>	Ground Water <u>X</u>	Well Casing
4" _____	Surface Water _____	I.D. (inches) Gal/Ft.
Other _____	Treat. Influent _____	2.0 0.1632
	Treat. Effluent _____	4.0 0.6528
	Other _____	6.0 1.4690

DEPTH TO PRODUCT: 0 (ft.) PRODUCT THICKNESS: 0 (ft.) MINIMUM PURGE VOLUME
 DEPTH TO WATER: 11.26 (ft.) WATER COLUMN: 13.21 (ft.) (3 OR 4 WCV): 6.47 (gal)
 DEPTH OF WELL: 24.47 (ft.) WELL CASING VOL.: 2.16 (gal) ACTUAL VOLUME PURGED: 6.5 (gal)

TIME	VOLUME (gal)	pH (Units)	E.C. (Micromhos)	Temperature (F)	Turbidity (NTU)	Other:
14:25	0	—	533	79.8	29.74	
14:35	2	—	371	75.2	1.98	
14:45	4	—	365	76.9	34.38	
14:55	6.5	—	376	77.9	21000	

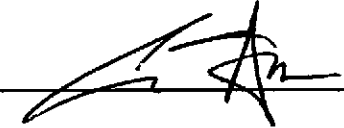
OVM READING NA

PURGE METHOD	SAMPLE METHOD
<input type="checkbox"/> Displacement Pump <input type="checkbox"/> Other <input checked="" type="checkbox"/> Bailer (Teflon/PVC/SS) <input type="checkbox"/> Submersible Pump	<input checked="" type="checkbox"/> Bailer (Teflon/PVC/SS) <input type="checkbox"/> Dedicated <input type="checkbox"/> Bailer (Disposable) <input type="checkbox"/> Other

NUMBER OF CONTAINERS 4 TYPES OF CONTAINERS: (3) VOAs, (1) 1L Amber

SAMPLES COLLECTED	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	062802-2	15:05	06/28/02	McC Campbell	BTEX, TPH-g, d, m
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS: pH is unreliable.

SAMPLER (sign):  DATE: 06/28/02



Harding ESE

A MACTEC COMPANY

SAMPLE COLLECTION LOG

PROJECT NAME: Autopro SAMPLE LOCATION MW-3
PROJECT NO.: 51644.030 SAMPLER: JTH
DATE: 06/28/02 PROJECT MANAGER Jason House

Table with columns: CASING DIAMETER, SAMPLE TYPE, WELL VOLUMES PER UNIT. Includes rows for 2", 4", and Other casing diameters and Ground Water, Surface Water, Treat. Influent, Treat. Effluent, and Other sample types.

DEPTH TO PRODUCT: 0 (ft.) PRODUCT THICKNESS: 0 (ft.) MINIMUM PURGE VOLUME
DEPTH TO WATER: 10.76 (ft.) WATER COLUMN: 3.09 (ft.) (3 OR 4 WCV): 1.51 (gal)
DEPTH OF WELL: 13.85 (ft.) WELL CASING VOL.: 0.50 (gal) ACTUAL VOLUME PURGED: 2.0 (gal)

Table with columns: TIME, VOLUME (gal), pH (Units), E.C. (Micromhos), Temperature (F), Turbidity (NTU), Other. Contains three rows of data from 15:10 to 15:20.

OVM READING NA

PURGE METHOD

SAMPLE METHOD

Displacement Pump Bailer (Teflon/PVC/SS) Other Submersible Pump Bailer (Teflon/PVC/SS) Dedicated Bailer (Disposable) Other

NUMBER OF CONTAINERS 4 TYPES OF CONTAINERS: (3)VOAs, (1) 1L Amber

Table with columns: SAMPLES COLLECTED, ID, TIME, DATE, LAB, ANALYSES. Contains one row of data for sample 062802-3.

COMMENTS: pH is unreliable.

SAMPLER (sign): [Signature]

DATE: 06/28/02



Harding ESE

A MACTEC COMPANY

SAMPLE COLLECTION LOG

PROJECT NAME: Autopro SAMPLE LOCATION: MW-4
 PROJECT NO.: 51644.030 SAMPLER: JTH
 DATE: 06/28/02 PROJECT MANAGER: Jason House

CASING DIAMETER		SAMPLE TYPE	WELL VOLUMES PER UNIT	
2"	<u>X</u>	Ground Water	<u>X</u>	Well Casing
4"	_____	Surface Water	_____	I.D. (inches)
Other	_____	Treat. Influent	_____	2.0
		Treat. Effluent	_____	4.0
		Other	_____	6.0
				Gal/Ft.
				0.1632
				0.6528
				1.4690

DEPTH TO PRODUCT: 0 (ft.) PRODUCT THICKNESS: 0 (ft.) MINIMUM PURGE VOLUME
 DEPTH TO WATER: 10.99 (ft.) WATER COLUMN: 4.63 (ft.) (3 OR 4 WCV): 2.27 (gal)
 DEPTH OF WELL: 15.62 (ft.) WELL CASING VOL.: 0.76 (gal) ACTUAL VOLUME PURGED: 2.5 (gal)

TIME	VOLUME (gal)	pH (Units)	E.C. (Micromhos)	Temperature (°F)	Turbidity (NTU)	Other:
15:40	0	---	556	82.9	>1000	
15:45	1	---	398	76.4	>1000	
15:50	2.5	---	386	75.2	>1000	

OVM READING NA

PURGE METHOD: X Displacement Pump _____ Other _____
X Bailer (Teflon/PVC/SS) _____ Submersible Pump
 SAMPLE METHOD: X Bailer (Teflon/PVC/SS) _____ Dedicated
X Bailer (Disposable) _____ Other _____

NUMBER OF CONTAINERS 4 TYPES OF CONTAINERS: (3) VOAs, (1) 1L Amber

SAMPLES COLLECTED	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	062802-4	15:00	06/28/02	McC Campbell	BTEX, TPH-g, d, mo
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS: pH is unreliable.

SAMPLER (sign): DATE: 06/28/02



Harding ESE

A MACTEC COMPANY

SAMPLE COLLECTION LOG

PROJECT NAME: Autopro SAMPLE LOCATION MW-5
PROJECT NO.: 51644.030 SAMPLER: JTA
DATE: 06/28/02 PROJECT MANAGER Jason House

CASING DIAMETER SAMPLE TYPE WELL VOLUMES PER UNIT
2" X Ground Water X Well Casing
4" Surface Water I.D. (inches) Gal/Ft.
Other Treat. Influent 2.0 0.1632
Treat. Effluent 4.0 0.6528
Other 6.0 1.4690

DEPTH TO PRODUCT: 0 (ft.) PRODUCT THICKNESS: 0 (ft.) MINIMUM PURGE VOLUME
DEPTH TO WATER: 10.12 (ft.) WATER COLUMN: 11.33 (ft.) (3 OR 4 WCV): 5.55 (gal)
DEPTH OF WELL: 21.45 (ft.) WELL CASING VOL.: 1.85 (gal) ACTUAL VOLUME PURGED: 6 (gal)

Table with 7 columns: TIME, VOLUME (gal), pH (Units), E.C. (Micromhos), Temperature (°F), Turbidity (NTU), Other. Rows show data for times 16:10, 16:20, 16:30, and 16:40.

OVM READING NA

PURGE METHOD

SAMPLE METHOD

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

NUMBER OF CONTAINERS 7 TYPES OF CONTAINERS: (6) VOAs, (1) 1L Amber

Table with 6 columns: SAMPLES COLLECTED, ID, TIME, DATE, LAB, ANALYSES. Rows include SAMPLE, DUPLICATE, SPLIT, and FIELD BLANK.

COMMENTS: pH is unreliable.

SAMPLER (sign): [Signature]

DATE: 06/28/02

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mcccampbell.com> E-mail: main@mcccampbell.com

Harding ESE 600 Grand Avenue, 3rd Floor Oakland, CA 94610	Client Project ID: # 51644.030	Date Sampled: 06/28/02
		Date Received: 06/28/02
	Client Contact: Jason House	Date Reported: 07/05/02
	Client P.O.:	Date Completed: 07/05/02

July 05, 2002

Dear Jason:

Enclosed are:

- 1). the results of 6 samples from your # 51644.030 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. McC Campbell 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,

Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8015C

BatchID: 2712

Matrix: W

WorkOrder: 0206480

EPA Method: SW8015C		Extraction: SW3510C		Ext. Date: 6/28/02		Spiked Sample ID: N/A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	118	117	1.2	70	130
%SS:	N/A	2500	N/A	N/A	N/A	121	119	1.3	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / (MS + MSD) * 2$.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mcccampbell.com> E-mail: main@mcccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

BatchID: 2706

Matrix: W

WorkOrder: 0206480

EPA Method: SW8021B/8015Cm Extraction: SW5030B Ext. Date: 6/28/02 Spiked Sample ID: N/A										
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	60	N/A	N/A	N/A	98.5	94.8	3.8	80	120
MTBE	N/A	10	N/A	N/A	N/A	97.7	94.2	3.6	80	120
Benzene	N/A	10	N/A	N/A	N/A	109	109	0.25	80	120
Toluene	N/A	10	N/A	N/A	N/A	114	114	0.071	80	120
Ethylbenzene	N/A	10	N/A	N/A	N/A	108	108	0.074	80	120
Xylenes	N/A	30	N/A	N/A	N/A	110	110	0	80	120
%SS:	N/A	10	N/A	N/A	N/A	110	112	1.4	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


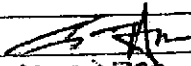
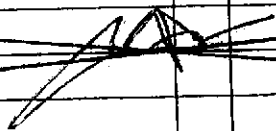
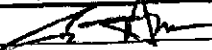
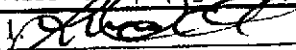
N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

% Recovery = $100 * (MS - Sample) / (Amount\ Spiked)$; RPD = $100 * (MS - MSD) / (MS + MSD) * 2$.

* MS and / or MSD spike recoveries may not be near 100% or their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

CHAIN OF CUSTODY RECORD

0206480

Project Name: <u>Autopro</u>				Analyses To Be Performed				 Harding ESE A MACTEC COMPANY 600 Grand Avenue, Suite 300 Oakland, CA 94610 Phone: (510) 451-1001 Fax: (510) 451-3165			
Address: <u>5200 Telegraph Ave., Oakland, CA</u>				BTEX Benzene MTBE	TPH-g	TPH-d	TPH-mo				
Project #: <u>51644, 030</u>											
Sampled By: <u>Jason House</u>		Signature: 									
Lab Name: <u>McCampbell</u>		Telephone: <u>(925) 798-1620</u>		Requested Turn Around Time:							
10 Day ___ 5 Day ___ 3 Day ___ 2 Day ___ Other <u>Standard</u>				Matrix				# of Containers		Remarks (container, size, etc.)	
Sample #	Date	Time	Location								
062802-1	06/28/02	14:10	MW-1	X	X	X	X	Water	4		
062802-2	↓	15:05	MW-2	X	X	X	X		4		
062802-3		15:30	MW-3	X	X	X	X		4		
062802-4		16:00	MW-4	X	X	X	X		4		
062802-5		17:00	MW-5	X	X	X	X		4		
062802-6				Field Blank	X	X				3	
											
Relinquished By: (signature)			Received By: (signature)			Date		Time		Total Number Of Containers: <u>23</u>	
1. 			1. 			6/25/02		10:25		Special Shipment Requirements:	
2.			2.							On ice, in cooler.	
3.			3.								
Instructions To Laboratory (handling, analyses, storage, etc.):								Report Results To:			
								<u>Jason House</u>			
Sample Receipt											
Chain Of Custody Seals											
Received Good Condition/Cold											
Conforms To Record											

McC Campbell Analytical Inc.

110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206480

Client:

Harding ESE
600 Grand Avenue, 3rd Floor
Oakland, CA 94610

TEL: (510) 451-1001
FAX: (510) 451-3165
ProjectNo: #51644.030; AU
PO:

28-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests						
					SW8015C	8021B/8015					
0206480-001	062802-1	Water	6/28/02 2:10:00 PM		B	A					
0206480-002	062802-2	Water	6/28/02 3:05:00 PM		B	A					
0206480-003	062802-3	Water	6/28/02 3:30:00 PM		B	A					
0206480-004	062802-4	Water	6/28/02 4:00:00 PM		B	A					
0206480-005	062802-5	Water	6/28/02 5:00:00 PM		B	A					
0206480-006	062802-6	Water	6/28/02			A					

Comments:

	Date/Time		Date/Time
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other